

### **ABBAS, Ahsan**

Ahsan is Subject Leader for Geography at Dr Challoner's Grammar School in Buckinghamshire. He has previously been Subject Leader for Geography at Wallington County Grammar School. He has a Geography BA (HONS) degree from King's College London. He has led on a substantial number of field studies trips as well as expeditions abroad. With a passion for innovation, he has developed [www.ecademyonline.com](http://www.ecademyonline.com) where students can access interactive lessons online. Throughout his career, he has led training which have contributed to improving teaching and learning practices for the Sutton Schools Alliance as well as for the Astra Alliance. As Specialist Leader of Education for the ASTRA Learning Alliance he has been a mentor and visiting to Geography trainees. As a photographer, he has worked for the UNHCR and has been shortlisted landscape photographer of the year. Ahsan has also sat on a judging panel for the Royal Geographical Society 'Explore' photography competition.

### **ADAMS, Rachel**

Rachel is Head of Geography at Wimbledon High School. She has an MSc in Earth Science and Environment and a degree in Geology. Rachel attends the GA annual conference on a regular basis, is a member of their post-16 / HE Committee and organises her local GA branch events. She has attended multiple CPD events, works with many other schools, has run lectures and revision courses for students, and organises a multitude of activities, conferences and master classes with other teachers in her local area.

### **ADCOCK, Gavin**

I have sixteen years' experience as a specialist in Geographical Information Systems (GIS), Cartography and Remote Sensing (RS) in Oil and Gas, Mining, national mapping agencies and Telematics industries. In addition to GIS analysis, extensive experience with GIS project management (contractors and team) and team leading. I have an in-depth knowledge of the ESRI GIS core product range, and ERDAS Imagine software. I have been working with GIS in various sectors of the Oil and Gas industry from 2001 until now. With upstream, downstream, design, FEED, pipelines and HSE. My areas of expertise are the creation, management and use of GIS data both for analysis and making maps. Plus providing results from investigations using this data. Also, the training with coaching/mentoring of colleagues and clients using GIS applications. This includes the processing of satellite images using an application called ERDAS Imagine. My skills are with the analysis of GIS data, management of it, managing team of technicians and I have a gift for organisation so usually end up troubleshooting and sorting out other peoples' mess. I am not a GIS programmer or developer, but can do customisation of the ESRI GIS application interface and make processing models for doing analytical work and data conversions. Extensive international experience having both lived and worked in: Canada- Nova Scotia, New Brunswick and British Columbia (10 years), Kazakhstan (4.5 years), Iceland (4 months), Egypt (1 week), Netherlands (4 days). Widely travelled to 25 countries on four continents and counting. Lots left to see and do!

### **AGUIS, Carol**

Carol is Manager Large-Scale Topographic Mapping with Malta's National Mapping Agency within the Malta Environment & Planning Authority, where she is responsible for the production and maintenance of large-scale topographic mapping products and portfolio. Carol also holds the position of Chair of the EuroGeographics Quality Exchange Network, a multinational network of experts from European National Mapping Agencies specialising in quality management and data quality. Carol's career has been dedicated to cartography, geography and GIS since 1988. She earned various qualifications in mapping, surveying and GIS in Malta and also gained an MSc in Geographical Information Systems from Huddersfield in 2003. Carol actively promotes GIS in Malta; she is the co-founder of the Malta Association for Geographic Information and has been the Association Chair since 2004.

### **ALEXANDER, Pamela**

Pam is a non-executive Director of Crest Nicholson, a volume house-builder seeking to create quality neighbourhoods, and of the Academy of Urbanism as well a Trustee of the Design Council and of the Brighton Dome and Festival Ltd. From 2004-11 she was Chief Executive of the South East England

Development Agency (SEEDA). Pam has an MA(Cantab) in Geography from Newnham College and her specialist interests since graduating have focused on housing, urban regeneration and economic development. She spent nearly 20 years at the Department of the Environment where she worked on local government finance, transport, inner city regeneration and housing policies then became Deputy Chief Executive of the Housing Corporation responsible for annual 2 billion of investment in social housing through housing associations. She was Chief Executive of English Heritage from 1997 to 2001 and briefly interim Director at the Churches Conservation Trust before moving to SEEDA in 2003. Pam was also Chair of the Peabody Trust from 2004 to 2009 and chaired regeneration partnerships across the south east of England. Pam was awarded an OBE for services to regeneration in the 2012 New Year's Honours List.

#### **ALLEN, Trevor**

Trevor is a GIS professional with more than 10 years of experience in geospatial technologies. He works for Critigen, a technical consulting firm specialising in geospatial and project portfolio management solutions for some of the UK's largest AEC projects. Trevor is currently the GIS Manager for the Thames Estuary Asset Management (TEAM2100) programme, an Environment Agency and CH2M led initiative responsible for assessment and refurbishment of flood defences in the Thames Estuary for the next eight years. At TEAM2100, Trevor has delivered GIS solutions that have become central to the operation of the programme. Before joining TEAM2100, Trevor was a Senior GIS Analyst at Thames Tideway Tunnel where he contributed to the project's Environmental Statement and Development Consent Order (DCO) applications. He has previously supported projects ranging from asset management, water resource management, environmental impact & remediation, government, engineering design, and construction. Trevor holds an MSc from King's College London in Environment Monitoring, Modelling and Management and is a certified GIS Professional (GISP) through the GIS Certification Institute (GISCI).

#### **ALLAWAY, Richard**

Richard is a Humanities and IB Geography Teacher at the International School of Geneva - Campus des Nations, prior to which he worked as a Geography Curriculum Leader at the International School of Toulouse in France and also as a Geography teacher in the UK. He has set up links with other international schools all over the world, which involve support for IB students, through various online projects. Richard regularly leads school based inset, and provides external CPD through an educational consultancy and also independently. He consults for the International Baccalaureate Organization and has consulted for Oxfam, Sky Learning and Boardworks. His website can be found at [www.geographyalltheway.com](http://www.geographyalltheway.com).

#### **ALLISON, Robert**

Bob Allison is Vice-Chancellor and President of Loughborough University. Previously he was Deputy Vice-Chancellor and Pro-Vice-Chancellor for Research at Sussex University. Other former posts include Dean of Social Sciences of Health and Head of the Department of Geography at Durham University. Professor Allison was educated at Northallerton Grammar School, before studying Geography at Hull University, gaining a B.A. in 1982. He was awarded a Ph.D. in Geography from King's College, University of London in 1986. Professor Allison has contributed to a number of organisations including the Natural Environment Research Council, Higher Education Funding Council for England and the Department for Business Innovation and Skills. He has been a Fellow of the Royal Geographical Society (with IBG) since 1990, serving on many committees and being elected Honorary Secretary from 1997 to 2000. He has also been Chair of the British Society for Geomorphology. Professor Allison is the recipient of a number of honours and awards for his research and teaching including the Cuthbert Peek Award from the Royal Geographical Society, Charles Lyell Award from the British Association for the Advancement of Science and the Jan De Ploey Prize from the Katholieke Universitat Leuven.

#### **AMIN, Ash**

Ash is Professor of Geography and Head of Department at the University of Durham. He has a BA (Hons) in Italian Studies and a PhD in Geography, both from the University of Reading. Ash's research focuses on varying aspects of the spatiality of contemporary economic, political and cultural change, such as regional development in Europe, the geography of Post-Fordism and globalisation, the geography of organisational learning, urban economic and political change, and the spatial politics of multi-ethnicity in both the UK and EU. Ash is a founding co-editor of the Review of International Political Economy, and co-edits City. He has been awarded the Society's Edward Heath Award for Research on Europe, is an elected correspondent member of Società Geografica Italiana, and an elected academician of the Academy of Learned Societies for the Social Sciences.

#### **ANG, Naomi**

I am a Geography professional with over 11

years' experience in the GIS and Survey industries. I have a Bachelor's Degree in Geomatic Engineering (Honours) from the University of Melbourne and started my career at a private engineering consultancy, in Melbourne, as a GIS Technician. Within the same company I then moved to an Engineering Surveying role that involved both Survey and CAD work. After four years as an Engineering Surveyor I was seconded for nine months to a mining company in Western Australia, where I worked on iron ore asset development projects as a GIS Analyst, focussing predominantly on environmental constraint mapping. After returning to the Melbourne office I became Mobile Mapping Coordinator and managed the data preparation and data collection services using mobile devices. After 1.5 years in this role I moved to London where I have been employed for the last 4.5 years in a large government agency. My current role as a Senior GIS Analyst in this agency includes managing the GIS component of a project that is being undertaken to review the risk of flood to assets. Through my varied roles and experience, I have become skilled in a number of different areas including GIS, Survey, CAD, Mobile Mapping, Spatial Databases and Python coding.

#### **ARCHER, Neal**

Neal Archer has an MA in International Boundaries from King's College London, and a BSC Hons in Cartography and Geography from Oxford Polytechnic (including an exchange to the University of Rhode Island to study polar geography). Neal joined the Ministry of Defence in 1991 as a Mapping and Charting Officer (now Geospatial Analyst). He has been involved in surveying, map production and evaluation, capability and data schema development, geographical research, geospatial training design and delivery, and latterly in policy and requirement management. Neal has represented and chaired meetings on geographic matters at the international level on behalf of the UK Ministry of Defence. He was also the UK Government subject matter expert on international land boundaries and was involved in resolving boundary issues. He also briefed and provided training on international boundary alignments and issues to UK and foreign governments and other international organisations. Outside work Neal lectures on boundaries and mapping at Master's Level to King's College London, and enthuses children via the British Cartographic Society's / RGS Restless Earth programme. His current interests include military mapping, boundary issues and the development of military geography. Additionally he is a member of the Territorial Army's Geographic Branch of the Royal Engineers, through whom he deployed as a UK Geo Liaison Officer with the US Central Command. He is a Fellow of the RGS-IBG and a member of the British Cartographic Society.

#### **ARMSTRONG, Patrick**

After Graduating in Geography and Geology from the University of Durham, Patrick taught for 10 years at the Cambridgeshire College of Arts and Technology (the institution that later became Anglia Ruskin University), specialising in Biogeography and Ecology, for 'O' and 'A' level, and for London University and CNAAs degrees in Geography. While so engaged he completed research for Masters (MA, Durham) and Doctoral (PhD, CNAAs) degrees in Geography. On moving to Australia permanently in 1975, he lectured at the Department of Geography at the University of Western Australia until retirement from full-time teaching in 2004. Patrick served a term as Head of Department. His research areas have included the distribution of plants and animals; the ecology of remote islands; and the history of Geographical thought. He has published around 30 books and over 150 journal articles and papers. A special interest has been the life and work of Charles Darwin; he has approached this from a geographical point of view, undertaking field work in the localities visited by Darwin during the voyage of the Beagle with photocopies of his field notes in hand, attempting to reconstruct his exact routes, locate the sites from whence he collected specimens, and explore his attitude to 'place'. Throughout his career Patrick has had an interest in the school-to-university transition, and has had role in curriculum development and examining for examinations boards in the UK, Australia, and internationally, in both Geography and Environmental Science subjects. He has been deputy chief examiner and chief examiner for the International Baccalaureate Organisation 1996-2010, and he served for four-and-a-half years on the IBO's Diploma Review Committee, the senior academic committee of the IBO.

#### **ARNOLD, Samantha**

Samantha specialises in Atmospheric Science. She is a graduate of Kings (BSc) and Queen Mary (PhD) colleges, London University, and has over 10 year experience in the field of atmospheric science. She joined Golder Associates in February 2005 with the aim of developing further the atmospheric business over complex terrain (including urban areas and industrial sites). Since then she has completed many air quality impact assessments for EIAs, planning and PPC applications. Samantha acts as an advisor for queries relating to meteorology and atmospheric dispersion modelling; is project manager for investigations involving atmospheric monitoring and modelling (including AERMOD, ADMS, ADMS roads and GASSIM); and writes and reviews reports pertaining to air dispersion and air quality (including traffic) for governmental bodies, university consortium and industry.

#### **ARTHURS, Lynn**

Lynn is a team leader of a Lands team in the Engineering & Environment division of Mouchel in Northern Ireland. This division is comprised of professionals and engineers within Acoustics, Air Quality, Consultation Management, Ecology, Environmental Assessment, Flooding, Geospatial Systems, Ground Engineering,

Heritage, Landscape and Urban Design, Planning, Public Rights Of Way, Rail Engineering, Statutory Processes, Sustainability, Topographical Survey, Waste and Water Projects. Lynn has a PGCert in GIS and a BSc Hons with DAS in Geography. A Prince 2 recognised Project Manager, Lynn delivers the lands element of multi-disciplinary projects and brings them through the required Statutory Procedures. She has worked on a range of infrastructure projects in the production of Vesting Orders, Direction Orders, Planning Applications, Transport and Works Act applications, Scottish Parliamentary Bills and Highways Orders and in accordance with Environmental and Planning legislation. She is currently a Fellow of the Royal Geographical Society and Secretary of the RGS NI regional volunteer committee where she is playing an active role in establishing the RGS in the NI region.

#### **ASHBY, Michael**

Michael is Head of Geography at the Latymer Upper School in London, having previously worked as a Head of Geography at the Royal Grammar School in High Wycombe. During his teaching career Michael has been involved in a variety of projects including raising funds for his geography department from Beacon School funding, setting up a link with a school in Kenya, organising Royal Geographical Society lectures, organising three Worldwide Annual quizzes on behalf of his local Geographical Association branch and also participating in the RGS-IBG Ambassadors Scheme. Michael has been awarded the OCR Offsite Safety Management accreditation and also has a Masters in Geography from King's College London. He has spent many years working with the RGS-IBG as a member of the Secondary Education Programmes Advisory Group and also the Education Committee. In 2009 he was elected onto the Council of the RGS-IBG as Ordinary Member for Education. In 2011 he was Honorary Secretary (Education). He was also the Secretary for the International Committee of the Geographical Association for several years. He has extensive fieldwork and CPD experience, and has also worked in an advisory teacher role for channel 4. He has published papers on several topics including overseas fieldwork, migration and megacities, structural adjustment and economic geography with a particular focus on East and South East Asia.

#### **ASHELFORD, Tim**

Since March 2011 Tim has been with the UK Location Programme, coordinating publishers' provision of data and services to the EU INSPIRE project. Tim has an honours degree in Geography from the University of Liverpool. He started working for the Ministry of Agriculture Fisheries and Food (MAFF) in 1986 where he conducted land classification surveys, to support natural resource protection policies. Tim became head of the northern field survey team in 1994 and was required to act as MAFF's expert witness in land use planning inquiries. Tim also led the team that established the upland environmental monitoring baseline for MAFF's agri environment scheme in the Lake District in 1993. Tim also led the survey team who in 6 months produced a detailed and definitive map of the extent of moorland in northern England. This work required the assessment of over 200,000 km<sup>2</sup> of difficult to access land. This moorland map provided the basis of the so called right to roam open access land, following the countryside and rights of Way Act 2000. In 1998 Tim joined MAFF's national Geographic Information Unit where he was responsible for developing a range of geographic products to assist MAFFs' rural development remit. Between 2001 and 2011 Tim was a Senior Research Officer at Government Office for Yorkshire and The Humber. In 2005 he established England's only regional rural observatory – the Yorkshire and Humber Rural Observatory. The Observatory's publications provided an objective evidence base to inform rural development activity.

#### **ASHFIELD, Stuart**

Stuart is a Geographical Information Systems (GIS) Analyst for the Animal Health and Veterinary Laboratories Agency (AHVLA), an executive agency of DEFRA. Working within the Data Systems Group the role supports varied and topical epidemiological research, spatial analysis and modelling projects. Current projects include visualising livestock demographics for the UK and automating map production to support decision making by vets at both local and national levels. He has an Undergraduate degree from the University of Reading (BSc Human Geography) and a Master's degree from the University of Leicester (MSc GIS). Prior to working for AHVLA, Stuart worked as a Geospatial Analyst at the Defence Geographic Centre, maintaining and providing GIS datasets for the UK Defence community. Stuart also spent 15 months working for SPLINT (Spatial Literacy in Teaching) at the University of Leicester. This work looked at the development of spatial thinking in students from non-spatial backgrounds and led to an interest in the relationship between geography and psychology in this area. His research interests include; sense of place and space in virtual environments, visualisation of epidemiological data, cartography and Python geospatial development.

#### **ASPINALL, Richard**

Richard was appointed Chief Executive of the Macaulay Institute in Aberdeen in September 2006 where he previously worked from 1987 to 1997 on a wide variety of land use topics. He spent the intervening nine years in the USA where he was Director of the Geographic Information and Analysis Centre (GIAC) and

Professor of Geography in the Department of Earth Sciences at Montana State University, then Professor and Chair of the School of Geographical Sciences at Arizona State University. He was also the Director of the Geography and Regional Science Program for the National Science Foundation between 2001 and 2003. His research interests include developing generic methodologies for environmental modelling and spatial analysis that support the investigation and geographic analysis of environmental issues (GIS including data quality, error analysis, developing the application of spatial analysis and integrating environmental models with GIS), land use and land cover change, and coupled analysis of human and natural systems.

#### **ASTON, Ben**

Ben is a graduate of Durham (BSc), Royal Holloway and UCL (MSc) and the University of Wales, Aberystwyth (PhD). Ben specialises in palaeoclimate research, focusing his academic research on understanding the relationships between global climate and local environment, with particular focus on water resources. Ben's PhD investigated changes in Holocene Monsoon strength in Mexico, through the use of oxygen isotope proxies from within diatom silica. Ben joined Arup in July 2008 with the aim of applying climate science in a corporate context. Since joining, Ben has project managed EIAs and EPR applications, as well as working with local government on policy reviews relating to climate change.

#### **ATKINSON, Bruce**

B. W. Atkinson is Professor Emeritus of Geography at Queen Mary, University of London. His main research interests have focused on meso-scale meteorology, particularly numerical modelling of airflows in the planetary boundary layer. He has been awarded the Hugh Robert Mill Medal of the Royal Meteorological Society and the Back Award of the RGS-IBG. He has been Editor of *Weather*, a member of the editorial board of the *Geographical Journal* and is Managing Editor of *Progress in Physical Geography*.

#### **ATKINSON, David**

David is Assistant Head teacher (Director of Sixth Form) at Dr Challoner's Grammar School in Amersham having previously been Head of Geography at the same school. He has been involved in enhancing the ICT provision within Geography for many years, and has a particular interest in the movement of students from school to Higher Education in Geography and other environmental disciplines.

#### **ATKINSON, Dominic**

Dominic is Head of Geography at Gresham's School in Norfolk, prior to which he taught at a school in London. He is a mentor to colleagues in his department, and delivers internal inset. Dominic is the Duke of Edinburgh manager at his school, and has had several articles published in *GeoActive*. He has strong links with the GA and also with schools in his local area. He is also an examiner.

#### **ATKINSON, Katie**

Katie is passionate about Geography and about understanding and exploring the physical environment for work and pleasure. Katie is a GIS Specialist/River Scientist within the Rivers and Coastal Team at Arup. She uses her wider geographical skills and specific geomorphological knowledge alongside her technical GIS expertise to develop innovative tools and applications. These create efficiencies in projects for the water business and have applicability to many wider disciplines. Katie is now in a position where she leads the thinking for how Arup Water Businesses uses GIS. Katie devises the GIS strategy and data management for large projects as well as creating GIS tools and models to drive efficiencies in projects that enable the most valuable outputs to be extracted from the data. She has developed workflows to allow geomorphological surveys to be completed on mobile devices and synced immediately to the server, avoiding the need for post survey manual digitization. She has also developed Floodlight, a GIS tool to complete flood damage assessments with "big data" in mind, with the ability to focus and edit in high detail as well as to batch up processes to create efficiencies. Katie uses her geomorphological knowledge to undertake surveys including geomorphological/fluvial audits and GDA. In addition she has applied this knowledge to write WFD reports, which determine the impact of large infrastructure projects on the geomorphology and ecology of surrounding water bodies.

#### **ATTERTON, Garry**

Garry is now an Advanced Skills Teacher in Geography after working for many years as head of Geography and Humanities at The Castle School Thornbury. Garry studied at The College of St. Paul and St. Mary in Cheltenham and the University of Bath. Garry helped the Geography department to be one of the first in the country to gain the GA Centre of Excellence award. He is geography consultant for the GA, the President of the Bristol branch of the GA and a final assessor for CGeog. Garry organises CPD opportunities for Primary

and Secondary teachers in the Bristol region. He has developed excellent links with the GA, RGS and the Universities of the West of England and Bristol.

### **AUCHINCLOSS, Mark**

Mark graduated in 1987 with an Upper Second Class Honours Degree from University College London and also has a degree in Town and Country Planning (with distinction) from the University of the West of England. Previously he was Senior Director for a national town planning and development consultancy based in Bristol where he worked for over 20 years. Mark moved to Baiona, near Vigo and speaks Spanish and Galician. He used to run an English speaking tourism website about [Galicia](#). Mark is also a Guide and expert on the pilgrimage route to Santiago de Compostela, El Camino de Santiago (St. James Way) as well as being a videographer for [Camino Ways](#). He now runs his own business, [EnglishResource Centre](#), geared to helping businesses and individuals improve their English. In his spare time he's a Blogger specialising in the gastronomy of Galicia for a Group of Galician Bloggers called [GaliciaGastro](#).

### **BAILEY, Rachael**

Rachael Bailey is an Associate, Environment at WSP | Parson's Brinkerhoff, with over seventeen years' experience in undertaking Environmental and Social Impact Assessments (ESIAs), Environmental Planning Studies, Sustainability Studies, Environmental Due Diligence Projects and Equator Principle / IFC Compliance Reviews. She delivers environmental assessments for transport infrastructure projects across the UK. Her expertise also includes environmental supervision during construction e.g. M25 MSA.

Rachael's technical EIA expertise has been put to good use preparing EIA guidance for Highways England, including the Volume of the DMRB and an IAN on Environmental Assessment for Nationally Significant Infrastructure Projects, to which she applied her in-depth knowledge of Environmental Assessment for DCO applications, potential pitfalls and lessons learnt. She has also led EIA's for key sites in the Homes and Communities Agency portfolio, including Nethermayne in Basildon, Upper Tuesley in Surrey and Preson Eastway in Lancashire, successfully delivering EIA's for sustainable communities. Rachael undertakes IFC and EBRD compliance reviews and prepares ESIs for projects across Europe, Africa and Asia. She applies in-depth gap analysis and develops comprehensive recommendations to ensure environmental and social risks are identified and managed effectively.

### **BAILEY, Simon**

Simon Bailey is a trained geoscientist, who has worked in a number of academic and government arenas. Working closely with Local Authorities, Government bodies and commercial partners, Simon has delivered solutions to collect, integrate and standardise geographical data which underpin the UK's utility asset management and is one of the country's leading advisors on street and network data.

With a BSc in Environmental Science and MSc in Oceanography, Simon's career began in academia, working on an international climate project at the National Maritime Museum. This was followed by a move into Local Government where he created and managed Local Land and Property Gazetteers (LLPG) for several Local Authorities. Simon then moved to a national role to coordinate the creation and management of the National Street Gazetteer (NSG). Simon has expertise in address and street data management and is a consultant advisor on the effective use of geospatial data to meet business needs and legislative requirements. He works closely with Ordnance Survey, Local Government and Central Government.

Simon is an advocate of open data and passionate about applying geodata in innovative ways to solve real world problems. He strongly believes that geographical knowledge can address the key global problems we face. Simon is also an avid traveller and enjoys the experience of visiting some of the world's most extreme locations.

### **BAKER, Angela**

Angela is the Sales, Marketing and Channel Manager for EuroGeographics, a membership association that represents the European National Mapping, Cadastral and Land Registry Authorities. She is responsible for the sales and promotion of the European product set which is developed from members' authoritative data. Previously Angela was the Community Programmes Manager for Esri UK focussing on promoting and enabling the use of Geography and GI through the Tertiary, Charity and Community sectors. She has a MA in Human Geography from Aberdeen University, which included an exchange year at the University of Guelph in Canada, and an MSc in Cartography and Geo-information Technology from Glasgow University. At Glasgow she developed an interest in map design and her thesis focussed on the design of maps for use in a regional atlas. She went on to work in the Cartography Department of HarperCollins Publishers as they developed the Times Comprehensive Atlas digitally for the first time. Angela moved into more mainstream GIS work at West of Scotland Water then Shell Exploration and Production before taking up a post as Deputy Director of the Association for Geographic Information (AGI). Angela has previously sat on the council of the AGI (Association for Geographic Information) and the British Cartographic Society. She is currently a Final Assessor for the Chartered Geographer accreditation.

**BAKER, Lyndon**

Lyndon is a senior fluvial geomorphologist with over ten years' experience in national and international environmental and engineering consultancy, and currently works for WS Atkins. Lyndon has a BSc in Physical Geography and an MSc in Geographical Information Science (GIS), both from the University of Nottingham. Lyndon's role includes: environmental coordination and project management/technical team leader roles; river realignment and channel design for complex infrastructure schemes (road, rail and utilities); geomorphological catchment investigations and sediment transport studies (fluvial audits and geomorphological walkovers in remote and urban areas); restoration of sustainable abstraction investigations and impact assessments; water framework directive (WFD) compliance and design mitigation; river and wetland habitat restoration; Geospatial (GIS) development and mobile data capture techniques. Lyndon is currently chair of Atkins' Sustainable River Management (SRM) technical group and brand committee member for the Chartered Institute for Water and Environmental Management (CIWEM) North West and North Wales region.

**BAKER, Paul**

Paul was Geography teacher for 38 years in a variety of Schools before retiring in 2008 from teaching. His geography teaching was from KS 2 through to A Level and he was Head of Geography Departments in 3 Schools. He has been Chair of the Independent School's Special Interest Group of the Geographical Association for the past 11 years and is in this post until 2013. He is a member of the GA Educational Committee and he runs Geography Cluster Groups for the GA promoting good geography and keeping teachers involved in improving their teaching and resources through a series of these CPD events.

He is a well know explorer having taken hundreds of pupils overseas as well as in the UK during the last 30 years. Expeditions to Wales, Scotland, Borneo, Brazil, Kenya, Morocco, France and India are some of the destinations and his believe in improving geographical awareness through expeditions and fieldwork has allowed many pupils to be inspired to discover geography and continue their studies at university.

Paul now also works as a PGCE tutor for the University of Buckingham, a Mentor for NQT's, and as a Consultant Geographer. His work for the GA Oxford Branch in Oxford and in organising Cluster Groups has allowed him to help both teachers and pupils hear from experienced Geographers so allowing them to improve their knowledge, skills and understanding. He regularly attends Monday night lectures at the RGS and still has time for a weekly round of golf.

**BALE, Andy**

Andy Bale is a Partner with the global sustainability consultancy ERM, based in Manchester, UK.

Andy has a BSc in Geology & Geography and MSc in Environmental Technology. After university, he worked as an environmental engineer at a gold mine in Montana, US, before entering the environmental consultancy world in the UK in the late 1980s.

He directs projects with leading global organisations to help them address complex sustainability challenges in a way that not only provides solutions but also helps to add value to their businesses.

His areas of expertise require the deployment of geographical skills & knowledge including projects in the areas of sustainability strategy, EHS management systems, EHS auditing, environmental impact assessment, contaminated land management, environmental monitoring and Mergers & Acquisitions.

**BALMBRA, Vanessa**

Vanessa studied towards her BSc in Mathematics and Environmental Conservation Management at Nottingham Trent University, before specialising in Hydroinformatics and Management systems at the University of Newcastle. Since graduating, she started work for JBA Consulting in 1999 and undertook the role of project manager of national scale flood hazard mapping projects. Since 2011, she joined JBA Risk Management and initially continued her experience on project managing national scale flood hazard mapping before moving onto data management and delivery of mapping to JBA's clients. She proposed, recommended and implemented bespoke GIS solutions to stakeholders and has been leading a team to design and develop a library of GIS tools to improve data production, efficiency, quality and the delivery of flood hazard data to clients. In 2017, her role changed when she joined the Business Development team and she is now responsible for sales and training of Flood Hazard data to prospective and existing clients.

**BALTHASAR, Brigitte**

Brigitte Balthasar currently works as a catastrophe risk analyst at Willis, a global insurance broker. She undertakes risk analyses to assess the risk to governments, insurers and communities from extreme events such as earthquakes, floods and storms. Moreover she coordinates global risk assessment and impact studies of the Willis Research Network ([www.willisresearchnetwork.com](http://www.willisresearchnetwork.com)), the world's largest partnership between academia and the insurance industry. The network is dedicated to evaluating the frequency, severity and impact of extreme events and helping society at local and global scales to manage these risks and share the costs of major catastrophes via public and private sector approaches. Before joining the insurance industry, Brigitte was a high school teacher of maths and geography in Germany with special

focus on bilingual education and intercultural learning. During her academic career at the University of Freiburg, Germany, she focused her studies on human geography, namely working on corporate governance and business ethics of transnational corporations in developing countries. Besides her studies she got involved in the faculty's council to promote Geography and develop the reform to Bachelor and Master programmes from the former Diploma and Magister.

#### **BARKER, Melanie**

Melanie is Assistant Headteacher at Highfields School in Matlock, where she was originally appointed as Head of Geography. She has a BA (Hons) in Geography from the University of Sussex and a Geography PGCE from the University of Oxford. Throughout her career Melanie has attended numerous geography based CPD events, run workshops for organisations such as the Specialist Schools and Academies Trust, Oxfordshire Heads of Geography Conference and the European Environmental Network, developed a residential field study programme based on Purbeck, worked with the TDA, been a mentor to student teachers and was also awarded a fellowship to Sri Lanka to work on a project studying monkeys by Earthwatch.

#### **BARR, Bob**

Throughout his career, Bob has been an applied geographer, interested in the use of computers for the management of urban and social information. Educated at Durham, Keele, Manchester and UCSB California, he worked for thirty years at the University of Manchester in adult education, lecturing in GIS and as Director of the Manchester Regional Research Laboratory. He took early retirement in 2005 to spend more time with Manchester Geomatics, the university spin out company, which he formed out of MRRL, where he is Chairman. In 2006 he was elected to Warrington Borough Council where he is Executive Board Member with responsibility for Planning, Regeneration and Housing. Bob was awarded an OBE for services to Geography in the New Year Honours 2008.

#### **BARRETT, Hazel**

Hazel is Professor of Development Geography and Head of the Department of Geography, Environment and Disaster Management at Coventry University. She has a BA (Hons) degree in geography from Sussex University (School of African and Asian Studies). She has an MA in West African Studies from the University of Birmingham, where she also completed her PhD. Her main research interest is rural development in sub-Saharan Africa, especially food systems and marketing, gender, health and human development. She has paid special attention to the impacts of HIV/AIDS on development in the region. She has expertise in participatory methodologies including Participatory Action Methods. Recently her research has focused on issues associated with the African diaspora in the UK and Europe. She has received external research funding from the Nuffield Foundation, ESRC, DfID and EU. She has supervised a number of PhD students and teaches both undergraduate and postgraduate modules on development issues and research methods. She runs an annual field class to The Gambia. Hazel has been a long standing member of the Geographical Association, and was Honorary Editor of Geography for six years. In 2008 her research was recognised when she was awarded the Geographical Association's accolade for 'Leading Excellence in Geography'.

#### **BARRY, Lorraine**

Since 2017 I work within the Northern Ireland Civil Service in the Department for Infrastructure as a Transport Planner and Modeller. I have the opportunity to extend my experience in geographical data science to inform transport policy and strategy in Northern Ireland. I play an active role in mentoring and promotion of GIS as a council member with the AGI NI.

#### **BATEMAN, Richard**

Richard was an Advanced Skills Teacher from Sir Bernard Lovell School in South Gloucestershire, before his retirement in 2008. Richard has gained a wealth of experience during his forty years in the classroom, including authoring a children's geography book and many articles for 'Teaching Geography' journal. He has co-written a series of secondary textbooks based on geography and other curriculum subjects such as ICT, and is an active member of the Geographical Association and a Fellow of the Royal Meteorological Society. He has also worked with Teacher's TV to develop a programme on fieldwork, mapping and ICT.

#### **BATEMAN, Trevor**

I have worked for Ordnance Survey for over forty years; during which time my profession has given me the opportunity to encompass Geography throughout my career and to embrace the changing processes and requirements of the business. My role today being inherently different from the one I started on. Over my career I have worked on all the various scale mapping that the Ordnance Survey has produced including the flagship products Landranger & Explorer. I have also worked on overseas mapping including Scandinavia, Africa and the Middle East. At present I maintain a GIS which is used by all Derived Products to update and maintain non topographical features required for the various products. The work involves liaising with third parties to obtain required data in various formats, creating bespoke reports and expertise in using Map Info

& SQL. I have taken an active part in promoting geography by informing my peers and visitors, both internal and external, by talks on Derived Products and capture processes. External visitors have included MSc students in GIS, geography teachers, and Kuwait students. I am a keen environmentalist I believe that this generation should try to safeguard our planet for forthcoming generations.

#### **BATEY, Peter**

Peter graduated in Geography from the University of Sheffield in 1969 and went on to take the Master of Civic Design in Planning at the University of Liverpool in 1971. His PhD (Liverpool, 1985) is in Regional Science. After a spell working as a planner in local government in North West England, he returned as a Lecturer in the Department of Civic Design at Liverpool in 1975. He became Lever Professor of Town and Regional Planning in 1989, the post he still holds. He has been a Co-Editor of the Town Planning Review since 1992. His research interests are in urban and regional analysis and planning methodology, particularly in the fields of geodemographics and regional demographic-economic modelling. He was a Fulbright Scholar at the University of Illinois at Urbana-Champaign in 1981-82. He served as World President of the Regional Science Association International in 1997-98. Peter was appointed by the UK Government as independent Chairman of the Mersey Basin Campaign in 2004 and completes a six-year term of office in 2010 when the Campaign itself ends. He was elected an Academician of the Academy of Social Sciences in 2000 and in 2006 he was elected a Fellow of the Regional Science Association International.

#### **BAYLISS, Timothy**

Tim Bayliss is Senior Sixth Form Tutor at Lincoln Minster School. Formerly Head of Geography at Hull High School, he has taught for over 20 years in both the maintained and independent sectors. A regular contributor to GeoFile Online (Nelson Thornes) he continues in active research. Other publications include generic Advanced level and GCSE Geography textbooks for Oxford University Press. Current projects centre on the development of differentiated teaching strategies and resources, and staff training methodologies, for interactive electronic whiteboards. He is invited, frequently, to demonstrate best practice in the use of this exciting technology.

#### **BAYRAMOV, Emil**

Dr. Emil Bayramov holds 17 years of professional and scientific experience in Geospatial and Remote Sensing technologies applied for marine and onshore petroleum and gas industry, environmental monitoring and management, energy security, quantitative and qualitative geospatial risk assessment, geohazards risk assessment, planning, design, construction, maintenance and operation of marine and onshore petroleum and gas assets, oil spill emergency response and crisis management in the marine and onshore environments, assessment and geospatial mapping of social and environmental sensitivities, defense and cyber security, urban and regional planning, land use management, cadastre and land registration, coastal management and landscape planning. Since 2008, Dr. Emil Bayramov works for BP (Azerbaijan-Georgia-Turkey Region) and his current professional position is the Geospatial Data Specialist at Survey Operations – Reservoir Development. Dr. Emil Bayramov holds PhD in Natural Sciences (Specialization: Geospatial and Remote Sensing Technologies) from Dresden University of Technology in Germany, Master's Degree in Geographical Information Science from Lund University in Sweden, second Master's Degree (Honor) in Landscape Studies, Bachelor's Degree (Honor) in Physical Geography. Dr. Bayramov was also a winner of the US Hubert H. Humphrey Fellowship Program 2007-2008 and spent one year at Massachusetts Institute of Technology (MIT) and Harvard University in the United States of America for the professional and academic leadership development in Geospatial and Remote Sensing Technologies and was awarded with the leadership certificates from the President of the United States and the President of Massachusetts Institute of Technology (MIT). During 2016-2017, Dr. Bayramov is the Fulbright Visiting Postdoctoral Scholar in Geospatial and Remote Sensing technologies at American University Washington DC in the US.

#### **BEARMAN, Nicholas**

Nick is currently completing his second post-doctoral research position, using Geographic Information Systems (GIS) to model and calculate home to school travel for pupils in England. I have been involved in GIS research and teaching for a number of years at a variety of Universities, covering research topics including mobility, health and sonification, I am also involved in teaching GIS to a variety of students including masters level International Development students and undergraduate Environment and Planning students. My interests centre around using GIS to help solve real world problems and helping to educate others about the potential of GIS in their fields.

#### **BELL, Stephen**

Stephen has been using GIS technologies to understand complex geographical problems since studying for a master's degree in GIS and Spatial Analysis in Archaeology at UCL in 2002. He has experience across a number of disciplines including local government, heritage, transport, water, and the environment. His interests in creating bespoke tools to understand unique situations, and the teaching and training of GIS has

both been fundamental in his career. Although technology has advanced considerably since he started working with GIS, Stephen still believes strongly in the power of the paper map and is experienced in the Quality Assurance and Quality Control of large-scale map production. Stephen currently works as a Principal Consultant and GIS team lead at Temple, an environmental and sustainability consultancy. As part of this role he works as GIS and Data Manager on some major infrastructure schemes. His current interests include BIM and its relationship with GIS and how these can be used to develop more sustainable places to live.

#### **BESWICK, David**

After graduating with a BSc in Land Surveying and Mapping Sciences David went to work for Racal where he worked as a Surveyor/Project Manager, whilst obtaining a Diploma and MSc at the same time. He then moved to Cadcorp in 1995 where he worked as a Developer and Pre-sales GIS Specialist. His next two roles were spent with the Sema Group and GE Network Solutions before he moved to MDA as a System Analyst in 2003. He is responsible for capturing data, system and business requirements, designing corporate strategy, system architecture, solution design and implementation. He has ten years' experience in GIS with much of the last six years spent as a GIS consultant and architect.

#### **BIGWOOD, Derek**

Since the start of his career at Ordnance Survey in 1972 Derek has been actively involved in the creation and manipulation of geographical information. His career began as a traditional cartographer working on various scales of graphical map products. With the introduction of computing into the cartographic environment his role changed and he was prominent in helping to introduce digital mapping techniques into a traditional manual cartographic environment. He has participated in a considerable number of successful products, undertaken the training of cartographers and has also been a consultant on many other diverse projects. In his current role as a cartographic developer he now specialises in GIS production, analysis and manipulation of data and databases with an emphasis towards creation of new editing environments and flowlines using automation techniques.

#### **BIRCHALL, Gary**

Working for Mapcite (see [www.mapcite.com](http://www.mapcite.com)) as the crime and disorder advisor. Mapcite are a Microsoft Biz Spark One company and are mainly involved in the development of innovative geographic and locational intelligence solutions using the Microsoft suite of products. Also advises the National Business Crime Forum with analytical strategies which help member businesses combat crime within the UK and beyond.

#### **BIRD, Norman**

Norman is a qualified Civil Engineer with an MSc in GIS (Geographical Information Systems) from MMU (Manchester Metropolitan University). He is a chartered (incorporated) engineer and an Associate Member of the Institute of Civil Engineers (AMICE). Norman joined the nuclear industry from a major projects contractor in the construction industry in 1980, initially with UKAEA and latterly with BNFL and is the leading technical specialist in Security, Assurance and GIS.

#### **BLACK, Sarah**

Sarah is Head of Geography at Lichfield Cathedral School, prior to which she was a Geography AST at The Friary School in Staffordshire. As part of her AST work Sarah participates in outreach to local schools, sharing knowledge, ideas and making recommendations. She has delivered inset in other schools and also to ITT students and the University of Birmingham. Alongside the Advisor for Geography in Staffordshire, Sarah delivered a course for non-specialists providing lesson ideas, resources and support. Her website can be found at <http://www.thegeographyclinic.co.uk/>

#### **BLAKE, Veryan**

Veryan is the Head of Geography at St Georges British International School in Rome. She has a BSc (Hons) from the University of Swansea and PGCE (secondary geography) from the University of Oxford. Having worked as Head of Geography and Head of Humanities in schools in the UK, Italy, Spain and Thailand, Veryan has made international links with schools for fieldtrip opportunities, taken part in GIN, MUN and various competitions (such as BowSeat and Gopeace) and is currently hoping to introduce virtual reality to the classroom. Veryan has written several articles for the IB review for both geography and environmental systems and societies and is active on both the OCC forum and the IB Geography facebook page. Veryan has taken part in and led CPD opportunities in Rome and in the UK and is currently working on bringing the International Geography Olympiad to Italy.

#### **BOOTH, William**

In William's current capacity as an engineer at Atkins, a global design, engineering and project management consultancy, he has been able to apply his wide ranging geographical and engineering skills across a broad range of projects. Using technical expertise and strong project management skills he has always delivered

high quality cost effective solutions to clients, whilst helping to shape the built environment in a positive and sustainable manner. William has over 10 years experience within surface, waste water and water engineering, as well as highway engineering, planning and asset management. William has delivered numerous successful projects, including high level and detailed engineering designs, hydraulic models, drainage area plans and catchment studies, surveying and GIS projects. This experience has been gained through work with planning and highways teams at Gloucestershire County Council and Gloucestershire Highways and at Atkins, where William has produced work for several water companies, various government organisations, housing associations and developers.

#### **BOWDEN, Desmond**

Des was formerly Head of Geography at Newman University College, Birmingham (until 2010). He has a BA (Hons) in Geography with Geology, a PGCE from University of Southampton, a Postgraduate Diploma in Quantitative Methods and Concepts in Geography, and a PhD in Tropical Soils and Landforms from University College London. **He spent two years lecturing in Geomorphology at the University of Sierra Leone (Njala University College).** In addition to lecturing Des has carried out research in Iceland, Sierra Leone, Malawi, The Gambia and India and like most geographers he is widely travelled. He is now co-director of B&C Educational Ltd., which is a small company specialising in three inter-related activities: developing and publishing geography-based curriculum resource materials for primary schools; working to promote the value of geography, global dimension and global citizenship in primary schools through CPD courses and curriculum development; and planning and running study visits to The Gambia for primary school staff (heads, teachers, LAs and governors). These primary school based trips grew out the annual field courses that we used to run for undergraduates and trainee teachers (since 2000). Since 2010 schools have developed sustainable partnerships with schools in The Gambia and many schools have received funding through the British Council Connecting Classrooms. Tri-partite partnerships to include schools from Senegal are currently being planned.

#### **BOWLES, Rachel**

Rachel was a Senior Lecturer and is currently Honorary Research Associate in the School of Education at the University of Greenwich and Coordinator and Editor for the Register of Research in Primary Geography. She has a BSc in Geography from University of London, an MSc in Geomorphology from University of Hull and a PGCE from the Institute of Education London She began teaching at The Latymer School before joining Edge Hill College, Ormskirk to develop B.Ed teaching. She then moved to Avery Hill College, now part of University of Greenwich and latterly has concentrated upon Primary Geographical Education. Her research interests focus upon children's understanding of their local area. She regularly contributes articles, chapters, develops teaching resources and contributes conference papers at all levels on both primary geography and ICT. She was a consultant with QCA, and has worked with TTA and DfES. She is an active Long Serving Fellow of RGS-IBG and received Hon.FRGS status in June 2009 for her services to education. She is a member of GA committees, a GA consultant, involved with the GA professional network and was made an Honorary GA member in 2011. She is also a corresponding member of the IGU Commission for Geography Education British Sub-Committee and the GA ICT Special Interest Group. She is part of the London Steering group for the Cambridge Primary Network and represents the GA on the newly convened Primary Subject Associations body (with Dr Paula Owens).

#### **BOWN, James**

James currently works as the Head of Geography at Haberdashers' Askes' Boys' School, prior to which he has taught at several other schools. He has a BA (Hons) in Geography from the University of Nottingham and became a teacher through the TeachFirst programme. James takes advantage of CPD opportunities where he can, including attending RGS-IBG led courses and workshops. He has examined for various awarding bodies at a variety of levels and is a highly motivated geographer.

#### **BOYD, Steven**

Steven has a BSc (Hons) in Geography from Queen's University Belfast and a Pg Dip in Geographical Information Systems from University of Ulster. Steven works for Land and Property Services Mapping in the Geographic Information Consultancy team. Steven is currently out posted to Rivers Agency assisting in the development of flood hazard and risk maps required under the European Floods Directive.

#### **BRANSON, Julia**

Julia is a geospatial business analyst at the GeoData Institute, a research / consultancy unit at the University of Southampton. Her main role is assessing the geospatial data management requirements for external groups (government departments, agencies, charities, NGOs and commercial sector). During her 16 years at the Institute she has been involved in a wide variety of research and consultancy projects in the UK and overseas, specialising in environmental data management, analysis and processing, and data standards.

#### **BRIGGS, Barnaby**

Barnaby is the Strategic Relations Manager for Shell International. Prior to this he ran the Social Performance Unit, creating social policy for Shell, and helping to implement this policy in some of the challenging places that Shell operates in, including Nigeria, Sakhalin and Alaska. He was previously the Issues Manager for Shell Chemicals Ltd, with projects in Louisiana, Brazil, the Philippines and China. He has a Geography degree from King's College, London. He has been involved in a number of international organisations, working for the Dhammanaat Rural Conservation and Development Project in Thailand, for Shell International Petroleum Company as an environmental affairs and societal change analyst, for the RSPB as energy and transport policy officer, and for ERM Ltd as a consultant.

#### **BRIGGS, Zoe**

Zoe has worked for the Canal & River Trust (formerly British Waterways) since 2003. She started as GIS Assistant at British Waterways (BW) Midlands and South West Region and has worked her way up to Geographic Information System (GIS) Team Leader, managing a team of two, covering the Property and Marketing directorates. She has been instrumental in helping GIS move forward within the Canal & River Trust, enthusiastically showing colleagues how it can benefit them in their roles. Zoe has a BSc in Physical Geography from University of Hull and MSc Geographical Information Systems from University of Nottingham.

#### **BRIMICOMBE, Allan**

Allan is Professor and Head of the Centre for Geo-Information Studies at University of East London. He has a Geography degree from Sheffield University, an MPhil in Applied Geomorphology and a PhD in Geographical Information Systems, both from the University of Hong Kong. Allan started his career as an engineering geomorphologist in Hong Kong, Malaysia and China during which he progressively focused on GIS and environmental modelling. Allan moved from private practice into academia to focus on research and curriculum development. In his current post, Allan concentrates on research and consultancy in data integration, analysis and modelling for both public and private sector organisations and in applications of geo-information engineering such as location-based services. In 2011 he was conferred as an Academician of the Academy of Social Sciences. Allan is the author of GIS, Environmental Modelling and Engineering (CRC Press) and Location-Based Services and Geo-Information Engineering (Wiley). His latest curriculum development is an MSc and Professional Doctorate in Data Science. Allan sits on a number of external committees including being Deputy Chair of the National Statistician's Crime Statistics Advisory Committee. In 2013 he served as a Specialist Advisor to the House of Lords Select Committee on Olympic and Paralympic Legacy.

#### **BROADHEAD, Adam**

Adam Broadhead is a geographer with a multidisciplinary background focusing on integrated urban water management, catchment science and flood risk. Through his PhD, Adam has developed a particular specialism in "lost rivers" and deculverting as a form of river restoration, which has led to numerous publications and talks, as well as a popular blog on Facebook and Twitter to promote the issues to practitioners, policy-makers and the general public. His work on lost rivers and daylighting has earned awards from CIWEM and the Environment Agency and an "I'm a Geographer" profile in the Royal Geographical Society's Geographical Magazine (Feb 2014). His work in public science communication has seen him give talks across the country and interviews with the BBC. He has also worked closely in community-led flood risk management initiatives on both the public and the client's sides, which has given him understanding and empathy with different groups and experience of bringing stakeholders together to identify and resolve issues. In his current role, Adam combines a broad understanding of water environment issues with his technical work, which includes robust analysis of geospatial and numerical data, hydraulic modelling of rivers and floodplains, and development of sustainable water and flood risk management solutions that can deliver wider benefits to Society and the environment.

#### **BROOKES, Andrew**

Andrew is an Associate at Gifford and Partners working as an environmental scientist. He has a Geography degree and PhD (a CASE studentship with the Freshwater Biological Association) from University of Southampton. Andrew has over 20 years of experience in research, private practice and government agencies. He has considerable experience and expertise in the development of sustainable solutions to environmental challenges, of EIA work and restoration and protection of river ecosystems. Andrew has worked for the Environmental Agency, National Rivers Authority, Thames Water and has been a research fellow at University of Wales and Ministry of Environment, Silkeborg, Denmark.

#### **BROOKS, Clare**

Clare is currently a Lecturer in Geography Education at the Institute of Education, University of London, where she leads the MA in Geography Education and the Geography PGCE. Clare has a PGCE in secondary geography, an MA in Geography in Education and a PhD. Before working at the Institute, Clare was a Head of Geography in London. Clare had had a range of papers and articles published, and is also the co-author of the Geotext Key Stage 3 geography textbook series. She is the editor of GeogEd (an online journal for GTiP), and an honorary website editor for the Geographical Association. She is a member of various committees and groups, and is also an external examiner for other PGCE courses. She has participated in and led a variety of inset and CPD opportunities, and is an active Geographical Association member.

#### **BROWN, Anne**

Anne is currently a Geography Teacher at Derby High School, prior to this it was Moreton Hall School in Oswestry. Anne began her teaching career in Australia, where she also gained a degree in Geography. Anne was on the executive committee of the South Australian Geography Teachers' Association for number of years before moving to this country. She is a former Principal Moderator for A Level Geography and is on the North Staffordshire GA Committee. She has had extensive teaching and examining experience and is interested in food supply issues and hazard resilience modelling at an academic level.

#### **BROWN, REBECCA**

Rebecca has worked with GIS for 14 years within the Environment Agency. She currently is working in the Modelling and Forecasting team developing flood risk models using TUFLOW and Flood Modeller Pro. Rebecca left Plymouth University with a BSc (Hons) in Geography and has worked with GIS ever since. She gained an MSc from Bristol University in Environmental Management in 2010.

#### **BROWN, Robert**

Robert is a Remote Sensing Analyst, currently working in an Africa wide programme implementing services in environmental monitoring using Earth Observation data. He has a wide variety of UK and international experience, particularly in the use of satellite imagery and GIS for environmental and agricultural monitoring and mapping. He worked as a Remote Sensing and GIS consultant in the UK and in Argentina before setting up independently in 2001. He is also an authorized ESRI GIS Instructor. Robert earned a BSc in Environmental Sciences from the University of East Anglia and an MSc in Applied Remote Sensing from Cranfield University.

#### **BUCKMASTER, Chris**

Chris Buckmaster is currently Principal GIS Officer at Runnymede Borough Council. He has over 10 years' experience of working with GIS in local Government in several GIS based roles. He is currently responsible for the management and delivery of GIS services to the Council including GIS project support, the development of web GIS applications, the integration of GIS into associated IT systems and the provision of geographic Council data to external authorities and organisations. Chris also promotes the uses and applications of GIS through in house training and support. A strong advocate of open source and open data, in 2016 Chris restructured and redesigned how GIS is utilised at Runnymede by implementing a completely open source GIS environment. Chris holds a BSc in GIS with Internet Computing from Kingston University.

#### **BULMER, Mark**

I have 20 years experience in basic and applied fields of geography and geology. I have experience working around the world examining landforms, geo hazard and risk, climate change, infrastructure assessment and emergency planning. My research work has been undertaken in UK and US universities and laboratories. I have taught undergraduate and graduate level courses in Process Geomorphology, Natural Hazards, Remote Sensing, Planetary Geology and Field Techniques. In my applied work I have been involved in disaster and conflict damage and loss assessments as well as post disaster and post conflict needs assessments. I have collaborated with government and international agencies, NGO's and private industry, applying Earth science data and modeling to address fundamental science questions, decision-making and decision-support activities. I am also trained in infrastructure assessment, civil protection, emergency planning and response and in NATO and UN Humanitarian Civil-Military Coordination. I have supervised natural disaster responses, and undertaken disaster management decision-making with NGO's and Government agencies, often working with engineers and planners. I have led coordination of resilience and disaster response activities and provided technical expertise in disaster mitigation and response program management as well as Climate Change adaptation strategies.

#### **BULLARD, Joanna**

Joanna Bullard is Professor of Physical Geography and the Associate Dean (Teaching) for the School of Social, Political and Geographical Sciences at Loughborough University. She gained an MA in Geography from The University of Edinburgh in 1991 and a PhD in Geography from the University of Sheffield in 1995. Her research focuses on aeolian geomorphological processes and landforms and she has published widely

on this topic. Professor Bullard is a Fellow of the Royal Geographical Society (with IBG) and was the physical geography editor of the Society's book series from 2006 to 2013. She was an Associate Editor of the journal *Earth Surface Processes and Landforms* from 2008 to 2013 and is currently the Chair of the British Society for Geomorphology and the President of the International Society for Aeolian Research. Professor Bullard is a recipient of The Leverhulme Trust Prize for Earth-Atmosphere-Ocean sciences and the Gordon Warwick Award for excellence in geomorphological research.

#### **BULLOCK, Clare**

Clare is a Technical Director GIS at Jacobs UK and has experience as a GIS Lead Consultant, Business Manager, and Project Manager. Clare has over 17 years of GIS experience including 11 years in GIS and environmental consulting, and 5 years GIS experience in government. Clare has managed GIS projects across a wide range of technical disciplines including: spatial data management and data analysis, data specifications, data remediation, web-mapping, environmental approvals, environmental monitoring, coastal and Marnie planning and management, marine habitat mapping and modelling programmes within industries including oil and gas, Natural Resource Management, Resources and Utilities, Mining, Agriculture and Fisheries. Clare's role involves sharing technical best practise and promoting the use of GIS technologies within Jacobs and client organisations. Clare has worked in the UK and Australia for companies including: Highways England, Transport for London, Buckinghamshire County Council, Essex County Council, Rio Tinto Iron Ore, and Australian Department of Defence.

#### **BURCHFIELD, Robin**

Robin is an independent GIS specialist/consultant with a wide experience and successful track record of; hands-on GIS use and cartography, corporate GIS management and corporate GIS implementation across the following industry sectors: public safety, transportation and utilities. He has been working on a freelance basis since 2011 and prior to this he held the role of GIS and Gazetteer Manager for Surrey Police. Robin has gained a BSc (Hons) in Mapping Science and upon graduation spent some months partaking in voluntary work in West Africa. Robin is an active member within the UK's Geocommunity and has an insatiable interest in all things geographical. Robin was awarded CGeog status in June 2009. [www.spatialawareness.net](http://www.spatialawareness.net)

#### **BURKE, Adam**

From an early age Adam has always had a passion and enthusiasm for Geography and in particular maps. In 2006 Adam studied BSc Physical Geography at Aberystwyth University and later went on to complete an MSc in GIS and Remote Sensing graduating with a Merit in 2010. Since graduation Adam has predominantly worked in Local Government starting out as a GIS technician working his way up to being the lead officer responsible for GIS and spatial data at Merthyr Tydfil County Borough Council. Adam is also involved in the AGI in particular AGI Cymru where he sits on the steering group prompting GI in Wales.

#### **BURKE, Jo-Ann**

Currently Senior Mapping Technician at Lambert Smith Hampton

#### **BURMAN, Barnaby**

Barnaby is a leading Geospatial and Information Systems Consultant who currently works in AECOM's Geospatial and Data Services team. His key specialisms are client consultancy, the design, implementation and delivery of bespoke geospatial and database solutions for clients and the creation of highly customised datasets and analysis for use on projects. Barnaby graduated from the LSE with a degree in Geography in 2000 and has linked his interests in Geography and IT to effect in both the public and private sector, working throughout Europe and Africa on a variety of projects.

#### **BURSLEM, Tom**

Tom works in the Quality Management Department at Ordnance Survey, working on a range of projects aiming to maintain and improve OS's large scale data products. He has a BSc in Geology from Edinburgh University and a Postgraduate Diploma in Mapping and Cartography from Oxford Brookes University. Prior to OS he worked for Four Point Mapping, a company specialising in the production of cycle maps and capture of high quality cycle route data. He originally joined as a cartographer, but also worked in GIS and ended up becoming GIS/Survey Manager. He managed a range of projects in this role including a Department for Transport contract to collect cycle route data for an internet journey planner for cyclists, and an audit of the National Cycle Network for the sustainable transport charity Sustrans.

#### **BUSH, Ian**

Ian is a highly experienced Technical Director and Senior Consultant, with an ability to shape strategic vision, whilst maintaining a shrewd commercial perspective. Originally trained in Surveying and Cartography, his early career was in engineering, land, and hydrographic surveying on large infrastructure projects in remote locations around the world. Ian was the Technical Director responsible for the £15M Mapping Access

Land in England Project, but more recently he has been heavily involved in applying his geospatial engineering skills to building information modelling (BIM) activities and is the Director for BIM at Black & Veatch. He is an Ordnance Survey Accredited Consultant, Senior Vice President of the Chartered Institution of Civil Engineering Surveyors and is Chair of the joint ICE/ICES Geospatial Engineering Panel. He is also the technical lead for BSI PAS 128 - Specification for underground utility detection, verification and location.

#### **BUSTIN, Richard**

Richard is Head of Geography at The City of London Freeman's School, prior to which he taught at other schools in England. Richard is a committee member of the Geographical Association's Independent Schools Special Interest Group, and has hosted revision conferences and guest speakers at his school. He has been involved in Duke of Edinburgh, set up a junior geography club and has got his students involved in the GA World Wise quiz and attending RGS-IBG lectures. He is currently working on a part time PhD in Geography Education and has published numerous articles and attended a variety of conferences including the GA annual conference.

#### **BUTLER, John**

John has been teaching geography since 1969. At present he is Director of Studies and International Baccalaureate Diploma Coordinator at Walford Anglican School for Girls in South Australia where has worked as a Senior Geography Teacher since 1984. He has an Honours Degree from the University of Adelaide, a Graduate Diploma in Curriculum Development and is the (co-)author of 25 popular textbooks in Australia. John is a member of the Geography Teachers Association of South Australia, and was President between 1977 and 1980. He has won numerous awards including most recently the Medal of the Order of Australia for services to education, particularly geography. He has recently been elected to Council of the Royal Geographical Society (South Australian branch).

#### **BUTLER, Lee**

Lee is a GIS Spatial Analyst at the Food and Environment Research Agency. He has an MSc in Resource and Environmental Management and a BSc (Hons) in Geography from Lancaster University. He has over seven years' experience in working with Geographical Information Systems (GIS) during which time he has worked for the Defence Infrastructure Organisation (Ministry of Defence) as a Geospatial Analyst as well as various local authorities as a GIS Officer.

#### **BUTLIN, Robin**

Robin is Professor Emeritus of Geography at the University of Leeds, where he was previously Professor of Historical Geography. He has a BA and MA in Geography from the University of Liverpool and a DLitt from Loughborough University for published research in historical geography. He held posts in Geography at the University of Keele, University College, Dublin, Queen Mary College, University of London, and was for sixteen years Professor of Geography at Loughborough University. His main teaching and research interests are in the field of historical geography, including changes in rural and urban landscapes of England and Ireland, Palestine in the early modern/modern period, wetland reclamation, and geographies of European imperialism. Robin was a Vice-President of the RGS-IBG (1995-1998) and was awarded the Society's Victoria Medal in 1999 for research in historical geography. He was awarded an OBE for services to Geography in the 2004 New Year's Honours List.

#### **BYRNE, Richard**

Richard is a Senior Lecturer in Countryside Management at Harper Adams University College in Shropshire. He has a BSc in Environmental Studies, an MSc in Rural Resource Management and a PhD in Geography for which he examined the landuse and landscape impact of the reform of the Common Agricultural Policy. His academic interests lie in exploring and understanding the interactions in the countryside and their implications for resource management and his current research is catered on rural crime issues. At present, Richard's current undergraduate and postgraduate teaching is focussed on the human-environment interface and its resultant impacts and the evaluation of appropriate management strategies. This includes teaching courses on countryside recreation and land management, visitor management, landscape management and countryside interpretation.

#### **CACCIARRU, Corrado**

In a career spanning over twenty-five years, Corrado has covered both technical and managerial positions, with overlapping responsibilities and competencies. He has undertaken a wide range of services: from field survey to cartographic production, from database administration to the conceptual, logical, and physical development of geographical information systems (GIS).

Corrado has used his expertise with local authorities and regional government, supporting the activities and services of both private and public organisations. He developed bespoke tools and models using ESRI

technologies and project management techniques – automating GIS tasks to enhance the provision of high quality mapping products and services.

In his senior roles, Corrado has been responsible for project management for a range of medium and large scale GIS projects – including habitat and protected species surveys and environmental impact assessments of infrastructure design alternatives. He managed contracts – liaising with customers, stakeholders and teams with different background and skills, with excellent results in productivity and efficiency. Corrado has conducted mining and geotechnical studies, and supported research at academic and business levels, promoting best practices and technical standards. In addition to being a Chartered Geographer (GIS), he is also an ISO 9001 Certificated Auditor (IRCA) and holds a Master degree in Geographic Information Science. In his current role of Managing Director of Geoinline Ltd – an organisation that provides a consultative service for clients across the ecological and environmental sectors (with key expertise within GIS, mapping and training) – Corrado focuses on helping individuals, businesses or organisations manage data, resources and processes and implement decision-making tools to support the delivery of GIS projects. He is currently finalising a Master of Business Administration (MBA).

### **CALDER, Steven**

Steve is Managing Consultant at PA Consulting Group. He has an MSc in Information Systems from Kingston University. Since graduating, Steve has mainly been involved in the UK Central Government, MoD and Utilities sectors. He has more than 20 years' experience in delivering geographic information and is a registered PRINCE2 practitioner. In his current role, Steve has been involved in various Geographic Information Projects including Communities and Local Government Maps on Tap.

### **CALLAGHAN, Simon**

Simon is a Senior Manager with VirtusaPolaris in New York. Prior to this he worked in Australia in consulting, and both state and local government. He holds a Bachelor of Arts, triple-majoring in Geography, Globalisation, and Environmental Studies, along with a Bachelor of Environmental Management, and a Bachelor of Applied Geographical Information Systems from Flinders University. He then completed a Master of Science in Public Policy and Management from Carnegie Mellon University, and a Master of Business Administration (Executive) through the Australian School of Graduate Management. Simon spent two years tutoring first and second year GIS courses at the University of South Australia, became a Certified GIS Professional – Asia Pacific, and was awarded South Australian Young Spatial Professional of the Year in 2011. He spent three years as National Chair of Young Professionals and a Board Director for the Surveying & Spatial Sciences Institute. Simon has also been an avid traveller, visiting 65 countries across all seven continents.

### **CANNINGS, John**

John retired from teaching Geography in 2016. The last three years of his teaching career were spent teaching Geography at a Swiss private Gymnasium in Zurich, Freies Gymnasium where he taught the subject in English. Prior to that he was teaching at Intercommunity School in Zurich from 1994 to 2013 where he was the subject leader and also in schools in the UK and Western Australia. He has been a senior examiner for the IBO in Geography since 2011 and also run workshops both online and face to face for IB Geography teachers. John has a BA from the University of Western Australia, a B Ed from Edith Cowan University, Australia and an MA from University of Bath, UK.. John and has organised a number of workshops on Geography at Swiss International schools. Outside of his work as a teacher, John has set up his own educational consultancy Core consultants and worked with international schools in Europe and Asia on curriculum development. He is an experienced workshop leader for the IBO on experiential education (CAS) for the IBO and was a member of curriculum review teams in this area and has co-authored two books as well as a number of publications on this.

### **CAREY, Jon**

Jon is a Soil Mechanics Scientist at GNS Science in New Zealand. Previously, he was a Consultant Engineering Geomorphologist at Halcrow Group Ltd. He has a BSc honours degree in Geography and MSc in Geomorphology and Environmental Change from Durham University. He is experienced in undertaking specialist geomorphological and geohazard investigations to assess ground conditions for engineering projects in variety of environments; both in the UK and abroad. Jon studied for a PhD at the International Landslide Centre, Durham University and researched mechanisms of progressive landslide failure to develop novel methods for forecasting and managing future landslide behaviour.

### **CARTER, Ross**

Ross Carter is an experienced GIS specialist currently working for Arup. He was introduced to GIS during his undergraduate degree in Environmental Studies at the University of Hertfordshire in the early 1990s, and undertook a year placement researching its use together with remote sensing in tropical rainforest management. Since then Ross has obtained a MSc in GIS from Edinburgh and has worked in the public, private, and academic sectors in the UK and overseas. Projects of note include mapping the 2001 spread of

foot and mouth in the UK, researching links between water quality and health in New Zealand, data management for the Defra Spatial Information Services project, and mapping the potential for carbon capture and storage in Europe. He has been actively involved with the Association for Geographic Information (AGI) for many years, including its Environmental Special Interest Group, the AGI Northern Group and currently as an AGI Council Member.

#### **CARUTH, Jim**

I am currently Curator of Modern Mapping at the British Library. Previously, I worked as a Geospatial Analyst at the Defence Geographic Centre, Ministry of Defence, since 1973. I worked in a wide range of activities in providing geospatial support to MOD for Operations, Training and Planning. These included the analysis of maps for accuracy and content, the preparation of source materials for map production and writing instructions on their use, geographic names and boundaries, international liaison in the geospatial field and the production of maps and charts and other geospatial data. I have a BSc in Geography from the University of London and an MSc (Econ) from Imperial College and I am a Fellow of the British Cartographic Society.

#### **CASSELLS, Gemma**

Gemma Cassells joined the Highland Council as a Policy Officer in the Climate Change Team in August 2014. She has a background in carbon management and carbon accounting. She received her PhD from the University of Edinburgh in 2012, researching the use of satellites to support forest carbon accounting in Africa, living and working extensively in Malawi. After graduating, she worked for New Course, an NGO that promotes engagement of women to support sustainable development and on various consultancy projects related to sustainable environmental management. She joined the Highland Council from UCL's Department for Science, Technology, Engineering and Public Policy, where she was responsible for coordinating the launch of a new Master's programme, and helping to build the department's new research programmes, focusing on urban sustainability themes. Gemma is drawing these diverse skills and experiences together to support her current work, which includes leading on the development of a Sustainable Energy Action Plan for the Highlands, as well as leading on the Highland Council's Smart Cities programme, which aims to promote smart technology to make Inverness a thriving, sustainable city.

#### **CASSIDY, Anthony**

Anthony is a Teacher of Humanities at Kirk Hallam Community Technology and Sports College in Derbyshire, with additional responsibility for Teaching and Learning. Anthony has an impressive amount of experience in geography education including running various websites and blogs, running online meetings for geography educators, working as a GA Teacher Consultant and member of their Secondary Phase Committee, mentoring PGCE students, moderator for the SLN forum, publishing various resources including the online ProQuest Learning, has authored several books and articles and participated in and presented a wide variety of CPD.

#### **CHALKLEY, Brian**

Brian is Professor of Geography in Higher Education at University of Plymouth and Director of LTSN Subject Centre for Geography, Earth and Environmental Sciences (LTSN-GEES). Brian has a Geography degree from University of Leeds and a PhD in Geography from University of Southampton. Brian's research interests include geographical education, the geography of school catchments and the urban impact of major sporting events. Brian has been influential in developing the curriculum at Plymouth and in providing quality assurance, including working with HEFCE and TQA. Brian was also Director of the FDTL SEED project between 1997 and 1999, which was funded by HEFCE.

#### **CHAMBERS, Robert**

Robert is currently an AST with responsibility for ICT across the curriculum and also a teacher of geography and travel and tourism at St Ivo School in St Ives. He has a BSc in Geography from the University of Birmingham and a PGCE from Cambridge University. Robert has been a member of the Geographical Association since his career began, and his work has been referred to in their journal 'Teaching Geography'. He runs the successful online portal [www.geobytes.org.uk](http://www.geobytes.org.uk), and has received a variety of grants and bursaries for his work (including the RGS-IBG Innovative Geography Teaching Grant for the 'Geography of Happiness' project). He runs annual fieldtrips to New York and Iceland, and is involved in numerous working parties. His CPD and inset contributions are substantial, and he has also mentored PGCE students.

#### **Du CHEMIN HOLDERNESS, Tomas**

Dr. Tomas Holderness is a Geomatics Research Fellow at the SMART Infrastructure Facility, University of Wollongong, where his research focuses on the use of geospatial analysis, Earth observation, and network modeling techniques applied to urban infrastructure resilience and Earth systems engineering. In collaboration with colleagues from Newcastle University (UK), Dr. Holderness developed a pioneering spatio-topological database schema for encoding, modelling, and analysing spatial infrastructure networks,

and their inter-dependencies. He has successfully applied this framework to model sanitation networks in rapidly-urbanizing developing regions of Africa using crowd-sourced data and volunteer geographic information. This work provided novel insight into the infrastructure challenges faced by developing nations, and allows the calculation of long-term operating costs of different improved sanitation network options. Before joining the SMART Infrastructure Facility, Dr. Holderness worked as a spatial modeller for the Geospatial Engineering Research Group at Newcastle and was responsible for the development of an open-source integrated modelling environment for urban systems research. He developed a prototype framework that allowed the integration of models to create processing flow-lines and statistical ensembles for land-use change modelling. Prior to this research, Dr. Holderness' PhD thesis analyzed long time series thermal Earth observation data to quantify intra-urban spatio-temporal temperature dynamics in Greater London, UK.

#### **CHESTER, David**

David Chester is a graduate of the Universities of Durham (BA 1973) and Aberdeen (Ph.D. 1978), holds a Diploma in Theology (Dip. Theol.) from the University of Liverpool, is a Chartered Geologist (C.Geol.) and is a Clerk in Holy Orders. Although beginning his career as a glacial geomorphologist, most of his research and teaching has been focused around the impact of extreme events, particularly earthquakes and volcanic eruptions, on societies both at present and historically. He has also researched: religious aspects of disaster response; Holocene landscape evolution in southern Europe - particularly in Portugal and Italy; soils and Quaternary geomorphology. To these are added teaching interests: in the history and current practice of geography and environmental history. Earlier in his career he was involved in consultancy which involved the search for commercial sand and gravel in glaciated terrain. He was employed for 37 year in the Department of Geography at the University of Liverpool and is currently Professor of Environmental Sciences at Liverpool Hope University.

#### **CHILTON, Tim**

Tim is a Principal GIS Consultant at Atkins Limited. The post involves the application of GIS and information management to a wide variety of large infrastructure projects including the London 2012 Olympic Park and planning and development work in the United Arab Emirates. He also supports communities internal to Atkins that encourage the sharing of GIS and information management knowledge and skills around the company. In addition Tim chairs a local resident environment group called the Epsom and Ewell Energy Group (<http://www.epsom-ewellenergy.org.uk>) which aims to encourage local residents to be more energy efficient. This is achieved through sharing knowledge on a wide range of energy topics and advising residents of funding opportunities for their homes and businesses. Tim has an MSc in GIS and BSc in Geography from the University of Nottingham.

#### **CHOI, Rebecca**

Rebecca is an Engineering Geomorphologist/Geologist with more than 15 years' experience in the field of Geotechnical Engineering. She obtained her BA (Geography) Degree from the University of Hong Kong and then subsequently acquired her MEnvStudies Degree from the University of New South Wales, Australia. She is specialised in natural terrain hazard assessment including the development of engineering geological and geomorphological models using aerial photo interpretation (API) and field mapping information, assisted by GIS technology to undertake assessment of hazards from natural hillsides to potentially at-risk facilities. Apart from developing and exploring different applications of GIS, API and geomorphological mapping skills, she is also a mentor to many junior and co-workers in the different companies that she has worked in. She also has very solid working experience with different government departments in developing and compiling different systems/databases for planning purposes such as the Systematic Identification and Registration of Slopes in the Territory (SIRST), Systematic Identification of Features in the Territory (SIFT) and the Enhanced Natural Terrain Landslide Inventory (ENTLI) for the HK Geotechnical Engineering Office; the Road Traffic Noise Modelling Systems for the HK Environmental Protection Department as well as the Environmental Impact Assessment System for a state-owned Industrial Furnace Company in Chongqing, China.

#### **CLARK, Joe**

Joe Clark has over 12 years of specialist applied Geographic skills in the defence field as a GIS Analyst. His role as the Range Safety Services and Weapon Danger Area Lab (WDALab) Manager has led to skills being developed in Land Survey, Cartography, GIS and Geo-demographics. This allows him to analyse the topography of a range complex to calculate the precise ricochet/non-ricochet points and produce individual risk analysis mapping for safe training. This work has led to greater efficiency on military firing ranges by reducing the societal risk and maximising the varying use of the MOD training areas. He has also developed an in house GIS mapping tool (WDALab) for ballistic analysis of all UK Ordnance Munitions and Explosives (OME), which has become the world standard defence GIS tool. AUS, CAN, USA, NZL and various EU countries have adopted WDALab as their national standard and he is currently working toward validating and verifying the model to become NATO standard GIS software. Currently he has 1 MOD Apprentice and 2 MOD Graduate Scheme Students with whom he regularly sets up training/learning events to enhance their

individual knowledge and appreciation of Geography. He has led multiple WDALab training weeks worldwide, including USA and CAN actively promoting geographic use in defence.

#### **CLEAR, Charlene**

Charlene is sustainability professional and urban geographer with multi-disciplinary skills set and a good reputation in built environment research, consultancy and standard development. Her specialisms include sustainable urban planning and design, community regeneration and climate change resilience, development and management of sustainability standards, environmental assessment methodologies and certification schemes (e.g. BREEAM / CSH / HQM / GreenPrint). She is also skilled in the facilitation of stakeholder engagement and collaboration, in addition to 'LEAN' project management and operations.

Her competencies have been applied at varying levels of the urban form (building to site) and at varying political scales (International partnerships to grass root groups) with initiatives successfully delivered in China, Europe and across the UK. Projects of note include the Beijing Green Building Park, the Ebbw Vale regeneration, the BIG Lottery Communities Living Sustainability scheme and the EU's Intelligent Energy Carbon Detectives programme.

Charlene is also a published researcher; subjects have focused on new urbanist planning principles, effective energy management and climate change resilience. She is currently the BREEAM New Construction Scheme Manager for the UK, heading up the team and overseeing the technical development, smooth operation and growth of the world's leading certification scheme for the non-domestic built environment.

#### **CLIFFORD, Nicholas**

Nicholas is Professor of Physical Geography at King's College London. Previously, he was Professor of River Science in the School of Geography, University of Nottingham. He has a BA in Geography, a PGCE, an MA and a PhD all from University of Cambridge. Nicholas' core research lies in the field of fluvial geomorphology: the study of river forms and processes, including sediment transport and storage. Nicholas developed the HARRP group at Nottingham which is dedicated to the research into the (eco-) hydraulic assessment of river rehabilitation projects; and was the chair of the University Water Strategy Group. In addition to this he has an extensive publications list.

#### **CLIFTON, Paul**

Paul is a well-known broadcaster and writer about transport issues. As the BBC's Transport Correspondent for southern England since 1993, he has appeared on all BBC television and radio news programmes, and most frequently on South Today and other regional programmes. Paul is a previous Royal Television Society Regional Journalist of the Year, and Transport Journalist of the Year in 2004, 2005 and 2013. He has written and presented many BBC1 and BBC2 programmes on the broad theme of transport geography. Paul is a columnist for the leading rail journal, Rail, and for Rail Review. He is a judge of the Rail Business Awards. He has a BA in Geography from Exeter and is a Fellow of the Chartered Institute of Logistics and Transport and a Fellow of the Institution of Highways & Transportation.

#### **CLOUT, Hugh**

Hugh is Professor of Geography at University College London, and was Dean of Faculty from 1995 to 2004. He has a BA (Hons) Geography with History, MPhil and PhD all from University College London, as well as a D. de l'Univ spécialité géographique humaine from University of Paris, a DLitt from University of London, a doctorat honoraire from the Sorbonne, and is a membre d'honneur of the Societe de Geographie de Paris. Hugh's research has focused on the historical geography of France, the history of geography, contemporary rural geography and regional developments in Western Europe. He has supervised a number of PhD students and has taught courses on London, ideas in geography, rural geography, Europe and methods in historical geography as well as regular courses on the social geography of France, and the historical geography of France.

#### **COLCLOUGH, James**

James is an Associate Director leading the use of Geographical Information Systems (GIS) in the transportation sector. He manages a team within AECOM's Birmingham office, developing and promoting the use of the latest geospatial technology, including implementing bespoke systems. James plays a pivotal role in promoting the use of GIS within AECOM and with a range of public and private sector clients. A key aspect of his role involves sharing best practice globally and bringing together a variety of geospatial skills to develop leading applications for their clients. This has recently involved utilising webGIS technology to maximise the usefulness of geographic information in aiding decision making for high profile projects across the globe. James has tailored GIS solutions to a variety of sectors, including accessibility planning, traffic modelling, vehicle routing, public transport reviews, highway monitoring, travel planning, freight analysis and asset management. He has delivered papers on accessibility planning and transportation modelling where he has developed innovative solutions to spatial problems using GIS technology.

**COLE, Trevor**

Trevor left teaching in 2012 to pursue interests including photography. Trevor worked at Sandford International School in Ethiopia. Trevor was also the Head of the Humanities Department at the International School of Milan. Prior to that he was the Head of the Geography and IB co-ordinator at the British School of Lome (BSL) in Togo, West Africa for a year, and Head of the Geography Department at the United World College of S.E. Asia for 13 years. Trevor has a BSc (Hons) in Geography and Environmental Science from University of Ulster and a PGCE from University of Sheffield. Trevor has always been involved with extra-curricular activities including outdoor education and expeditions. Trevor has led expeditions and field courses to Indonesia, Malaysia, Thailand, Australia, The Himalaya and Ghana, amongst others. He is a keen traveler and photographer and has published some of his work. He also leads workshops for teachers doing the International Baccalaureate.

**COLES, Joanna**

Jo Coles (Debens) graduated from St. Catharine's College, Cambridge University in 2004 and spent time during her gap year working in the Royal Geographical Society's Expedition Advisory Centre. Jo is currently the Head of Geography and Numeracy Coordinator at a comprehensive school in Hampshire and has been teaching for seven years. She likes to dabble with anything creative and will try to get food, games or 'messy learning' into lessons when possible. She is interested in teaching creatively and through using technology in order to improve engagement and achievement. Jo is also involved with leading approaches to literacy, numeracy and e-learning whole school, including developing student voice and digital leaders. Jo is a proactive member of the Geography Association and is currently writing a new specification GCSE textbook. She is a Microsoft Innovative Teacher and Google Certified Teacher who tweets from @GeoDebs and blogs on jodebens.com.

**COLLINS, David**

David is Professor of Physical Geography at University of Salford. He has a BA from Cambridge, a PhD from Nottingham, a DSc from Manchester, and an MA from both Cambridge and Oxford. David's research interests include climate, glaciers and water resources in high mountain areas; outburst floods from Alpine glaciers; climate change, glacier recession and river flow in the Himalayas (sponsored by DFID) and long term variation of Alpine meltwater quality. David was until recently President of the Geography Section of the British Association for the Advancement of Science. He received the Busk Medal from the RGS-IBG in 1998.

**COLLINS, Guy**

Guy is a Fellow of the Royal Geographical Society (with IBG) and has a BSc (Hons) degree in Geography from Coventry University. Guy has around 20 years' experience of working with various types of geographical information in a diverse range of organisations from public to private sector. He has worked in logistics, environmental risk, mapping and geospatial solution providers. Work has been for organisations such as the National Rivers Authority, South West Water, Landmark Information Group, Ordnance Survey and Infoterra. He has been a key member of teams building very large geographical content databases at Landmark Information Group and at Ordnance Survey. Currently Guy works as a Systems and Business Analyst with Landmark working on and contributing towards a range of geographical web based projects. He works with a number of teams and promotes and works with geographical information in the business. Whilst at work Guy also reviews developments in new technology that could be utilised and adopted to benefit the business further. He is a keen and very active contributor to the OpenStreetMap (OSM) project and helps other users to work with the increasingly complex set of Map Features and promote the map outside of the OSM community. He has worked with local charities promoting an awareness of climate change and peak oil. He continues to follow developments in geography and learn new skills in geographical information. He is interested in promoting geography to new audiences such as to the transition town initiative.

**CONWAY, Brendan**

Brendan is a geography teacher, consultant, lecturer including particular initiatives for Geographical Information Systems (GIS) for education and Initial Teacher Training (ITT). He gained a BSc (Hons) Geography from University College London, a PGCE from the University of Cambridge and MA from Heythrop College, University of London. His teaching posts have been at St Philip Howard Catholic High School, Barnham, West Sussex; Cardinal Newman School, Hove, East Sussex and St Andrew's Catholic School, Ashted, Surrey (Head of Geography) and Notre Dame Senior School, Cobham, Surrey (Head of Geography). He is a visiting lecturer at St Mary's University, Twickenham. He worked for 5 years as a youth officer for the RC Diocese of Arundel and Brighton. Brendan has been a member of the Surrey Heads of Geography Network for over ten years and since 2011 the termly meetings have been held at Notre Dame

Senior School. In 2009, he represented the UK at a conference for teachers in Japan, including visits to Japanese schools of every phase and meetings with senior education and foreign office personnel. In 2014, Brendan successfully led the Notre Dame Geography Department bid for the Geographical Association Secondary Geography Quality Mark (SGQM) and Centre of Excellence (CoE). Brendan is also a Consultant with the Geographical Association and a Specialist Leader of Education for Geography with the Inspire Teaching School Alliance led by St Paul's Catholic College in Burgess Hill, West Sussex. He has many other interests including music, photography, travel and sport and has a breadth of experience in fieldwork and navigation for walkers and mountaineers, including digital mapping and GIS.

**COOK, Andrew**

Andrew is a Spatial Data Analyst with experience in private and public sector. He is currently a PhD candidate and Graduate Tutor at the University of the West of England. Previously, he was an Associate Director at Capita Symonds, and then a Geographic Information Consultant at ERM in Australia. Andrew graduated from Keele University with a degree in Geology and Physical Geography.

**COOK,**

**Miriam**

Miriam finds that Geography continues to hold the keys to unlock the fascination of the world around us and by giving students the geographical skills to understand our world, we are enabling them to engage with society and their environment at all scales. As she continues to learn and broaden her interests within her own discipline she is thrilled to be challenged by young geographers also keen to explore ways to make the subject interesting and vibrant for those who may not consider themselves geographers - yet! She tries to take a creative approach to geography and enable, where possible, students and non-specialist teachers to receive the support they need to make this subject come to life.

**COOMER, Alex**

Alex Coomer graduated with a BSc (Hons) degree in physical geography with human geography in 2000. Since then Alex has pursued a career as a specialist in geographical information systems (GIS), applying his knowledge and expertise on behalf of UK Government. Focusing on projects relating to the environment and sustainable development sectors, Alex has worked for a number of organisations including Defra, Natural England and the Marine Management Organisation where he currently resides as GIS Manager, leading the development and application of GIS in support of business functions such as Marine Planning, Marine Licensing, Conservation and Enforcement. Alex has experience in both terrestrial and marine GIS which has included mapping disease outbreaks during the Foot and Mouth crisis, devising a method for using GIS to pro-actively target suitable customers for Environmental Stewardship grants. More recent work involved the development of the Marine Information System (MIS), a web based GIS portal publishing the first ever marine plans in England.

**COOPER, Martin**

Martin Cooper is Founder Director of experiential tour company, Landed ([www.landedhq.com](http://www.landedhq.com)). He previously worked in a variety of roles in the social and sustainability fields: in fair trade, a think tank, social enterprise and international environmental work placements. He is Non-Executive director of a photography charity, Eye4Change. Martin has an MSc in Globalisation and Development and a BA in Human Geography both from Queen Mary, University of London. He is a winner of the Royal Geographical Society (Urban and Social Research Group) Annual Dissertation Prize. He has studied at the University of South Florida, volunteered in rural Kenya and is a Queen Scout.

**COOPER, Paula**

Paula is the head of geography at King Edward VI Five Ways School in Birmingham where she has taught since 2003. She has a BSc from King's College London, a PGCE from Cambridge University and an MA in Educational Management from the University of Warwick. Paula was involved in the successful application for her school to be granted specialist school status in the humanities with geography as the lead subject. Paula has collaborated with the GA and OS and introduced the Pilot GCSE to her school. She has presented at RGS KS3 CPD days and sat on the panel advising on the development of the new KS3 curriculum. Paula is the author of resources published on the GTT website and in 2007 received the RGS Ordnance Survey Award for excellence in teaching geography in secondary education. She is a regional subject advisor for the GA and CfBT, and most recently has worked with her department to make a programme for Teacher's TV.



with an MSc in GIS. Throughout his education and his professional experience, Pascal has continuously shared his enthusiasm and interest for Geography and more particularly for the GIS industry. Pascal is currently a Principal GIS Consultant with Swift DataPro- Swift DataPro is a UK independent technology solutions company, developing planning and geospatial solution for local government. Prior to joining Swift DataPro in, he worked as a GIS Architect for the Geospatial Division of Scisys, designing / implementing Geospatial solutions for both private and public sector clients. Throughout his career, he also delivered a number of GIS training and white paper to various national GIS events.

#### **COURCHESNE-NORMANDIN, Antoine**

Mr. Antoine Courchesne-Normandin is a public transport expert located in Canada. Antoine has worked on the launch of Québec's first Bus Rapid Transit (BRT) system while employed by the *Société de transport de l'Outaouais*. There, he also developed new analytical methods using data from the electronic fare collection systems to derive passenger behaviour, trip patterns and vehicle loads. In addition, he introduced a new transit network planning process for which he was awarded the Young Transport Professional of the Year Award by the *Association québécoise des transports*. He has provided expert advice on major infrastructure project in the National Capital Region and has worked on guidelines for the implementation of transit-oriented developments (TOD) in the past. He is currently employed by the City of Ottawa and is assisting with the launch of a new Light Rail Train (LRT) system. Antoine holds an Undergraduate degree in Geography and East-Asian Studies at the *Université de Montréal* and a Master's degree in Transportation Studies at Imperial College London. He is a former Canada World Youth participant (Nova Scotia – Indonesia) and, in addition to being fluent in French and English, has studied Mandarin at Shandong University. He has also completed a Canadian Private Pilot Licence and is an avid canoeist.

#### **COWLING, Daniel**

Daniel is Assistant Headteacher and Head of Sixth Form at Orleans Park School. He was previously Head of Year 13 and Deputy Head of Sixth Form at the Charters School in Berkshire. Prior to this Daniel was an Assistant Headteacher and Head of Geography. Daniel has organised and implemented fieldwork opportunities and inset and has published numerous text books and 'Teaching Geography' articles. He is a consultant for the Geographical Association and has visited Mexico as part of the Teachers' International Professional Development programme. He has attended and presented inset.

#### **COX, Andrew**

Andrew is a senior consultant with Atkins Limited within the infrastructural division. He has thirteen years' experience in Surface Water Management Plans, Catchment Flood Management Plans, Geographical Information Systems, River Modelling Flood Risk Assessment Strategies, Project Management, Flood Risk Assessments, Economic Appraisals and report writing. His work has specifically involved GIS analysis, project management hydrological and hydraulic modelling and socio-economic analysis. Andrew has responsibility for the line management and business management, and managing the technical development of the team.

#### **CRABBE, Martin**

Martin is a Geography Teacher and Learning for Sustainability Co-ordinator at Glebe School in Bromley, Kent. Martin has been involved in numerous projects including the Bromley garden project (which involved four schools working together to produce plants to sell at the local farmer's market), a study tour to the Windward Islands to look at the difficulties faced by banana growers, and a 'doorways to Sustainability' project with the WWF. Through these projects Martin has developed a wide range of links with schools both in the UK and abroad, and also with various organizations and universities.

#### **CRABTREE, Robert**

Following retirement from environmental consultants WRc plc in 2013 after 29 years, Bob is now a freelance environmental consultant specialising in catchment management, urban pollution management and river quality modelling. He is also a Visiting Professor in the Pennine Water Group of the Department of Civil and Structural Engineering, University of Sheffield, with a role to support the academic staff in research development.

#### **CRESSY, Kevin**

Kevin is a Geographic Information Consultant with experience in a wide range of private and public sector disciplines. Kevin has considerable experience in the management, planning and implementation of large scale GIS projects. Kevin has a passion for promoting best practice in the field of GIS. Kevin is happy to be contacted by prospective CGeog applicants and happy to discuss his experience of the application process

and the value CGeog brings. Kevin has experience of working as a GIS consultant in the following industries: Rail (HS2, Crossrail), Utilities (Electricity and Waste Water), Telecoms, Water and Environment, Sustainability, Local Government (Corporate IT, Housing, Highways Community Safety, Rights of Way). Kevin's combines his interpersonal skills and knowledge of the geospatial market to build strong client relationships.

**CRISP, Elizabeth**

Elizabeth is currently the Head of Geography at St Margaret's School for Girls in Aberdeen. She is the Vice President and Aberdeen City representative of the Scottish Association of Geography Teachers and is also a Member of the Geographical Association. She has links with various Universities, organizations, and other schools and colleagues locally and nationally.

**CRISP, Paul**

Highly experienced designer/architect specialising in geographical information systems (GIS) within mainstream IT projects, across a range of industries, focussing on the value of properly organised spatial data infrastructures (SDIs) driven by standards, and supported by excellent specialist GIS ability. Particularly interested in the Cloud and GIS, and interoperability. Wide industry background and experience outside the IT sector.

**CROSS, David**

Dr David Cross is Evidence and Analysis Manager at Forestry Commission England. Previously he worked in geographical information systems and social research at what is now the Ministry of Housing, Communities and Local Government. Before that he was a Research Fellow and Assistant Director of the DICE housing consultancy in the Department of Geography at King's College London. Dr Cross was educated in Wimbledon before gaining a first class honours degree and PhD in Geography from King's College London. David has contributed geographical, statistical and social research evidence in support of housing, land use planning, and forestry policy. He pioneered Generalised Land Use Database land cover maps and small area statistics; forerunners of Ordnance Survey's new OS Greenspace products. At Forestry Commission England he has led on the Corporate Plan Performance Indicators for the Annual Report & Accounts, including counts of new planting of trees towards the Government's manifesto commitment. He has contributed to the Forest Enterprise Natural Capital Accounts, and advised on spatial data policy and Open Data delivery. He worked with the Forest Research Agency as Smallwoods Programme Manager to deliver the 'Tree cover outside woodland in Great Britain' National Forest Inventory Official Statistics reports (Forestry Commission, 2017).

**CROSS, Felicity**

Felicity obtained an MSc in GIS at the University of Edinburgh and is now a Principal Consultant responsible for the growth of spatial services within Sweco UK. With over 10 years professional experience Felicity works in a dynamic, client facing role, combining excellent interpersonal and communication skills with a solid background in Environmental Science and GIS, including: spatial analysis, data management, figure production, process management, quality assurance and training provision. Felicity has also been a volunteer for MapAction, a humanitarian mapping and information management NGO, since 2011 with missions to the Philippines and India in 2013 and Haiti in 2016.

**CRUMLISH, Morgan**

Morgan is Spatial Data Systems Manager for Dublin Airport creating a hybrid GIS & BIM model to manage and track asset life cycle. He is currently working on implementing GIS across the airfield, terminals, wider campus and buildings and integrating it with the computerized maintenance management information system. He joined the Dublin Airport team after 15 years working with geographic data and GIS in the Local Authority and Energy sectors. He has been involved in surveying, map production and evaluation, spatial data capture, analysis and visualisation, 3D Modelling, geographical research, geospatial training design and delivery, and latterly in project management and geographic information system design. He holds an MSc from the Dublin Institute of Technology in Spatial Information Management where his special area of interest was Location Based Applications.

**CURRAN, Paul**

Paul has been Vice-Chancellor of City University London since 2010, having served as Vice-Chancellor of Bournemouth University and Deputy Vice-Chancellor of the University of Southampton. Paul has a BSc (Hons) in Geography from Sheffield, an MBA (Dist) from Southampton and a PhD and DSc in remote sensing from Bristol. A former NASA research scientist and advisor to the European Space Agency (ESA), Paul's award-winning work in ecological Earth observation, involving the use of satellite sensors to monitor the environment, is published widely. With a focus on climate change, current research involves the estimation of terrestrial chlorophyll content at regional scales. Paul is currently President of the Remote Sensing and Photogrammetry Society (RSPSoc), Chair of the Universities and Colleges Employers Association (UCEA), a member of NERC Council and a member of two UUK policy committees. He has been awarded the Otto von Gruber Award from the International Society for Photogrammetry and Remote Sensing, the Cuthbert Peek Award and Patrons Medal from the RGS and several awards from NASA, ESA and the RSPSoc.

### **CURTIS, Alexander**

I am delighted to have been accepted as a Chartered Geographer (GIS). I have worked for Ordnance Survey Great Britain's national mapping agency in a number of roles over the last 39 years. Beginning my career in 1973 as a large-scale cartographer; for 3 years I revised and updated 1:1250 and the 1:2500 series large-scale mapping. During the following 16 years I worked through the various scales culminating in small - scales mapping. Here I took the opportunity to work with an external partner and develop what would be the forerunner of Ordnance Surveys raster product portfolio; 1:50 000 scale raster data. I then decided that I wished to develop my skillset and work in areas outside of the immediate production area; I obtained distinctions in marketing (CIM). Over the next 10 years I worked with the OS Education Team and OS International managing a number of mapping related projects. I also worked on bespoke products where I used my mapping expertise to deliver customised products. Due to the nature of the work this provided me with an early opportunity to get involved with both hardware and GIS software in their infancy (both MapInfo and Esri). The last ten years I have worked in Products as a Technical Product Manager and more recently on a 12 month secondment as a Senior Technical Product Manager for Integrated Transport Network product and the INSPIRE programme. During this period I worked on the INSPIRE initiative which OS have taken a lead on; working with UK Location Programme and other European data suppliers in order to harmonize data and produce interoperable mapping across Europe. I am currently the technical manager responsible for a range of vector and raster products including VectorMap Local and VectorMap District; I am involved in their improvement and the development of new ones. Some of the most interesting work I have been done to date is mapping for the Visually Impaired; liaising with RNIB to produce styles suitable for users with colour vision deficiency.

### **CURTIS, Faye**

Faye Curtis is a GIS Consultant at RSK Group, providing GIS input to consultancy projects for both UK and international clients. She works on projects in a number of sectors (such as traditional energy, renewable energy, transport and housing) and across several disciplines (such as archaeology, ecology, geosciences and landscape). Her main specialism is the production of visualisations and undertaking shadow flicker assessments for wind energy schemes. For her previous roles as Development Officer and Senior Technical Officer at Wind Direct, she provided GIS support for the planning applications of both EIA and non-EIA wind energy projects, including taking viewpoint photography, generating photomontage visualisations, generating plans and figures, undertaking shadow flicker analysis and carrying out desk-based noise assessments. Out with her GIS role at RSK she has also gained the Institute of Acoustics accredited Certificate of Competence in Environmental Noise Measurement and occasionally assists with noise monitoring for a variety of projects. Furthermore, she attends geography and GIS related conferences, courses, seminars and focus groups as often as possible in order to keep abreast of what is happening in the world of GIS.

### **CURTIS, Sarah**

Sarah is Professor in Geography at Queen Mary, University of London. She holds a BA in Geography from Oxford University and DPhil in Urban and Regional Studies from the University of Kent. She is a health geographer with extensive research experience in geography of health and health services, especially on: inequalities of health and access to health care; needs assessment in primary and community health care; health impact assessment. Much of this work has been supported by Research Councils and similar funding bodies, and she has also carried out research and consultancy for the UK Department of Health, the Health

Development Agency and local Health Agencies, the World Health Organization; the Institut National de la Santé et Recherche Médicale, France.

**DARWELL, Lee**

Lee is a Geography Teacher at The British International School Bratislava, prior to which he taught at a school in Cambridge. Lee has been involved in the development of his departmental website and is a member of the Geographical Association. He is currently an examiner for the International Baccalaureate and has attended a variety of CPD events throughout his career. Lee is heavily involved in the organisation of events at his school, involving schools from all over Slovakia.

**DAVIDSON, Stephanie**

Stephanie has over 20 years' experience of applied geoscience as a geomorphologist and geologist. Stephanie's PhD research project was funded by the ESPRC and focused on natural channel design approaches to stream restoration and construction methods, erosion mitigation and flood management. The ultimate aim of these methodologies is to design a channel exhibiting natural habitat heterogeneity and a reconnected floodplain. The research involved studying organisations applying these balanced approaches to restoration design which appeared to facilitate cost-effective, low risk projects with long-term success by providing both physical stability and biological potential. Stephanie's qualifications and experience in hydro-morphology, geomorphology and geology enable her to provide a unique cross-disciplinary perspective. Her previous post-doctoral fellowships in sedimentology were focused on the rock record using her knowledge of modern fluvial processes. Stephanie is still actively engaged in ongoing fluvial research in an advisory capacity. Stephanie's work experience as a geoscientist in the petroleum industry has included seismic interpretation, borehole image analysis, core logging, and reconstructing palaeo-fluvial systems. Stephanie has undertaken and contributed to numerous WFD assessments for proposed small- to large-scale development activities on or adjacent to river networks with specific reference to the impacts upon geomorphology and hydro-morphological quality elements.

During the course of her research, work and teaching, Stephanie published several peer-reviewed articles and book chapters, been invited to peer-review specialist articles submitted to a number of prestigious journals, and reviewed numerous technical reports.

**DAVIES, Christopher**

Chris is a Principal GIS Specialist at WSP and leads the Data and Analysis team providing geospatial services for Transportation Planning, Highways, Energy Services, Environmental, Rail, and Offshore Teams across in the UK and internationally. He has gained experience in both GIS mapping and data analysis for HS2, Crossrail, Network Rail, Argent Property Developers, TfL, Highways England, several County Councils and London Boroughs and key UK energy clients including Scottish Power, SSE, Npower and Eon. Following an MSc in Cartography and GIS at the University of Glasgow, Chris has also worked for a renewable energy consultancy and internationally renowned cartographic publishers HarperCollins.

**DAVIES, Christopher**

Christopher is University Dean of Students and Honorary Senior Lecturer at the University of Manchester. Christopher has a BSc in Geography and Geology, an MSc in Computation and a PhD in Computation, all from University of Manchester. Christopher has been involved with curriculum developments at UMIST and has taught courses on COBOL and GIS. Recent research projects include developing GIS support (Speedmap) for Lancashire County; deprivation and the influence on the survival rate of victims of trauma treated in NHS Accident and Emergency Departments and flood prediction and mitigation planning.

**DAVIES, Ollie**

Ollie studied Geography at undergraduate level at University College, London, and subsequently postgraduate level at the University of Oxford, where he gained an MSc in Environmental Geomorphology. He entered the teaching profession through Teachfirst, and started his career at Loxford School in Redbridge, East London before moving to The City of London School, where he is now Head of Geography. He thinks of himself as an all-round geographer, with particular interests in the physical environment, who has a passion for fieldwork and making the subject enjoyable. In his time teaching he has examined for a number of examination boards, at both GCSE and A-Level, written geographical articles for publication on a number of topics, and carried out research in conjunction with the Institute of Education on Student Perceptions of Geography. He leads a department who run at least one fieldtrip for every year group and he has designed and run over a dozen original fieldtrips for both his school and other organisations.



information which enables him to ensure customers make fair and correct use of the information. Stephen is an active participant in the British Cartographic Society Restless Earth Schools Workshop and takes a lead role in explaining the workshop to students.

**DOLLIMORE, Allison**

Allison is a toponymist at the Permanent Committee on Geographical Names (PCGN), an independent interdepartmental body, housed within the Royal Geographical Society. Allison's role involves developing and maintaining policies and principles by which foreign geographical names (toponyms) should be written. She provides advice to the British government on the proper writing of toponyms for places and features outside the United Kingdom, excluding those of the Antarctic. She has over 20 years' experience working as a Geospatial Analyst at the Defence Geographic Centre, Ministry of Defence where she worked in a variety of areas including Geographic Research, Learning and Development and Production. As a member of the British Cartographic Society she visits schools as part of their Restless Earth Schools Workshops for GCSE geography students.

**DOMEK, Rebecca**

Rebecca started her career in the private sector as a Building Surveyor based in Peterborough. After two years working for the Environment Agency she went on to work for local Government in 1998. During her time with local Government Nicola has contributed to the development and strategic progression of Geographical Information Systems and Asset Management Plans. She has worked for a number of Councils, including, Peterborough City, Huntingdonshire, Norfolk, Norwich and Suffolk, with whom she has been a Project Manager for four years.

**DONOYOU, Tim**

Tim is the GIS Manager for the UK's leading ecology consultancy, Thomson Ecology. Tim has a BSc (Hons) in Geography and Environmental Management from the University of Northumbria and an MSc in GIS for Catchment Dynamics and Management from the University of Leeds. He has over 10 years work experience in commercial and government organisations including DEFRA, Scott Wilson, New Zealand Ministry of Agriculture and Forestry, Murray-Darling Basin Commission and Thomson Ecology. Tim and his team provide GIS input to all projects and promote the use and development of spatial information across the company.

**DORNBUSCH, Uwe**

Uwe has started working on the UK in coastal environments in 2000 after several years of Quaternary research in the Alps and Andes while at Berlin Free University. Over the years he has accumulated a wide range of field and desk based research experience involving cliffs, shore platforms, mixed beaches and their interaction with engineering structures with particular emphasis on Southeast England. After leaving his research position at the University of Sussex in 2007, Uwe has spent two years with a coastal engineering consultancy being involved with the design of coastal structures, flood warning systems and beach management activities. He now works for the Environment Agency in the southeast of England where he has supported the completion of Shoreline Management Plans and lead the EA side of the Regional Coastal Monitoring Programme. Uwe is working on the update and improvement of Beach Management Plans and contributes coastal technical expertise to EA and Local Council projects, schemes and strategies as well as national R&D projects.

**DOUGHTY, Sarah**

Sarah is a GIS consultant at Atkins, a multi-discipline engineering and design consultancy, She has an MSc in Geographical Information Systems and Science from Kingston University, London, and BSc (Hons) in Geography from the University of Southampton. Sarah started her career working as part of the Programmes and events teams at the RGS-IBG for two years, before joining the Geospatial Mapping and Analysis team at Atkins. Her areas of expertise lie in data management, high quality cartographic mapping, 3D visualisation and analysis and the use of GPS mobile mapping devices. Sarah works closely with both internal and external clients, across a wide variety of disciplines working on Environmental Impact Assessment (EIA) reports, transport and highway schemes, international flood hazard mapping, rail networks and ecological surveys, all requiring spatial data management, data validation and the production of high quality mapping figures to aid reports. She has experience working on large infrastructure projects including High Speed 2, and the Bristol Rapid-Transit Bys Scheme as well as smaller-scale biodiversity assessments and land-use mapping.

**DOWNS, Peter**



as wider knowledge of 3D interoperability challenges between the BIM, GIS and modelling and simulation domains. He is currently leading a project on the use of crowdsourcing for satellite imagery analysis. Ben has co-authored articles printed within Ranger (Journal of the defence Surveyors' Association) and the Hydrographic Society's publication 'Soundings', and is a member of the British Computer Society.

#### **DURSTON, Ashley**

Ashley studied BSc Geography & MSc Applied GIS at the University of Birmingham & The University of the West of England between 2008 & 2012. An undergraduate GIS teaching post and a year in the renewables industry ensued before he joined the global engineering consultants, WSP, as a GIS Specialist in 2014. Ashley currently specialises in the delivery of spatial technology, analysis and consultancy services to both internal and external clients. He has provided innovative spatial solutions on a number of high profile, multi-disciplinary transport schemes such as East West Rail Phase 2 and HS2 Phase 2B. Furthermore, Ashley has presented at UCLs GIS career development evening and delivered various GIS training programmes within WSP to promote best practice in areas such as spatial & network analysis; mobile data collection & model generation. Ashley has been a Fellow of the RGS since 2014.

#### **DYE, Timothy**

Professor Timothy Dye is a medical anthropologist and social epidemiologist who specialises in applied public health, particularly within marginalized, isolated, and global populations, and with a content focus on social and cultural determinants of health. Dr Dye's research program focuses upon developing and understanding community-driven solutions to public health problems, and has included funded projects around such topics as micro nutrition among women and children in Tibet (CDC), informatics and public health decision making in Costa Rica (NIH), and injury and culture in Antarctica (NSF). In recent years, Dr Dye has led teams around the world, including Lebanon, Turkey, China, South Africa, Ethiopia, Burkina Faso, Tanzania, Nigeria, Tibet, India, Kashmir, Ladakh, Indonesia, Malaysia, Thailand, Costa Rica, Dominican Republic, Grenada, Petite Martinique, Kenya, Antarctica, Northern Ireland, and the United Kingdom. Professor Dye's most recent work focuses upon the use and integration of biological and public health information systems to address the social and medical determinants of high-risk conditions of pregnancy and infancy.

#### **EATON, Martin**

Martin is Reader in Human Geography at the University of Ulster. He has a BA in Geography from Staffordshire University and a PhD in Human Geography from the University of Exeter. Martin has always been involved with teaching and learning methods associated with the advancement of geography and environmental sciences. His teaching is focussed upon modules on geographical disparity, economic and Iberian geographies, and much of his expertise lies in field course tuition in Portugal, Spain, Morocco and the Gambia. As teaching and learning co-ordinator he is now involved with the curriculum-based development of the subject and has implemented a range of E-learning teaching resources for undergraduates. These include international online student collaborative initiatives and the utilisation of virtual field trips to support and enhance the undergraduate learning experience.

#### **EDMENDS, David**

David is a Senior Consultant for Arup with over nine years' experience. During his time as a GIS professional David has developed, managed and delivered a wide variety of projects to public, private, third and utilities sector clients. He is currently working on a number of global projects delivering GIS services to large scale master planning and environmental impact assessments. David has a particular interest in web GIS and the delivery of geographical and statistical information over the internet. David studied for a BSc degree in Geographic Information Science with North American Studies at Manchester Metropolitan University graduating in 2002 and furthered his education with an MSc in Geographical Information Science in 2004 at the University of Nottingham. The majority of David's professional career has been spent working for Groundwork, an environmental regeneration charity where he supplied specialist GIS services to colleagues across the UK.

#### **EDWARDES, Alistair**

Alistair is Economic Geographer at the Department for Business, Innovation and Skills, having previously worked as geographic analyst at the Department of Communities and Local Government applying GIS to analyse and support a range of socio-economic policy issues including; regional economic growth, regeneration, housing and repossessions, social cohesion, and the Big Society. He has also worked as a researcher at the University of Zurich where he investigated the design of geographic technologies for location based services and multimedia information retrieval. Prior to this, he researched the issue of

generalising geographic information for maps and navigation both at the University of Edinburgh and in the private sector. Alistair has a Doctorate from Zurich and a Masters from Edinburgh both in GIS.

#### **EDWARDS, Kevin**

Kevin is Professor of Geography at University of Aberdeen and Adjunct Professor in the Graduate Centre, City University of New York. He has an MA (Hons) in Geographical Studies from the University of St Andrews and a PhD from the University of Aberdeen. Kevin held previous academic posts at the Universities of Belfast, Birmingham and Sheffield. His research interests include palynology, Mesolithic and early agricultural impacts on landscape, vegetation change in Scotland, human-environment interactions in the North Atlantic region and environmental archaeology. Kevin is a founding member of the Northern Studies Centre, Aberdeen, and a research associate of the Macaulay Land Use Research Institute. He is on the editorial boards of a number of international journals and is a Fellow of the Royal Society of Edinburgh and the Society of Antiquaries of London.

#### **EISENEGGER, Mark**

Mark is a Geographer working in the fields of environmental management and sustainability. A keen Geographer and its many facets he has been able to incorporate Geography into his working life. He is an environmental consultant who works with private developers and government authorities alike to assess the impacts of developments and policies on the environment and sustainability. He has been involved in the environmental assessment / appraisal of a wide range of sectors and projects, from sewage treatment works, railways, to housing regeneration. He has been based in offices in London, Brisbane and Hong Kong, and has applied and developed his Geographic skills throughout the globe, e.g. in Thailand, Taiwan, Singapore, Macau, Dubai and Cameroon to ensure sustainability and environmental advice is provided through all policy and project development phases from optioneering, site / process selection through to environmental assessment and planning approval. Mark ensures sustainability is incorporated within the design of development proposals, through development of Sustainable Design and Construction Studies, and government policy e.g. utilising Strategic Environmental Assessments and Sustainability Appraisals. He also has provided training and presented on low carbon economies and environmental / sustainability awareness for the Foreign and commonwealth Office and companies. As a volunteer project manager for a registered charity Mark has been instrumental in the development of an Award winning project to locate, fundraise for, and provide classroom facilities for a school in a local community in Mozambique.

#### **ELLIS, Robert**

Rob has worked for the Environment Agency since 1998. As Principal Officer (GIS), he is the lead user for GIS in the Midlands Region. He provides technical support to 300 ArcGIS users and also arranges and provides training for them. He has produced maps for purposes as diverse as river quality, flood defence, ethnic distribution and funding bids. Rob has a BSc (Hons) in Geology from University of Newcastle-upon-Tyne, an MSc in Environmental Pollution Control from University of Leeds, and a PhD from University of Aston entitled An Evaluation of Remote Sensing to Monitor Gas and Leachate Migration from Urban Landfill Sites.

#### **ELLIS, Victoria**

Victoria was Assistant Student Progress Leader for Humanities at Swanwick Hall School in Derbyshire, but now works at Pocklington School. Victoria is a member of the Hodder Teacher Team and a member of the GA Secondary Phase Committee. She is also an examiner for AQA and has been part of an authoring team for Collins KS3 geography. Victoria has presented at several GA conferences and other CPD events and has also run inset sessions at her school. She is a member of several cluster groups and an active member of the geographical community.

#### **EMMETT, Anne-Marie**

Anne-Marie is Head of Geography at Archbishop Tenisons School in London. Anne-Marie has led countless CPD courses and has built up a great network of teachers in her area. She has had articles published in the OS magazine Mapping News. Anne-Marie has been involved in the QCA review of the KS3 curriculum, and from this had resources published and led CPD. Anne-Marie is a GA Geography Advisor for London, and also a member of the RGS-IBG Education Committee. She has been awarded the RGS-IBG OS award in recognition of excellence in secondary teaching, and has also been nominated for teacher of the year in The Teaching Awards.

#### **ENTWISTLE, Neil**

Neil is a Lecturer in Physical Geography at the University of Salford, where his teaching and research centres around hydromorphology, river restoration, sediment transport dynamics, catchment and floodplain connectivity, land uses changes, flooding and ecohydraulics. Neil uses a variety of methods to research his areas of interest principally using Terrestrial and Aerial Laser Scanning (TLS and ALS), Unmanned Aerial Vehicles (UAVs) and Geographical Information Systems to map and subsequently model spatial and temporal changes in hydraulics.

The temporal and spatial nature of these data often involve investigation into biotope distribution linking to fluvial habitat, the Water Framework Directive and natural flood management, where Neil advises DEFRA and the EA on nationwide problems and case studies.

Neil's expertise in using drones or small Unmanned Aerial Vehicles (sUAV) are often used in collaboration with a wealth of other disciplines; from wetland water level management in Africa, forest ecosystems in Chernobyl, and Nationwide UK river restoration schemes.

Pre- and post- river restoration monitoring has been a specific academic research interest of Neil's and strong links have been formed with the UK River Restoration Centre, the Environment Agency and an example of this is the river restoration partnership project on the River Trent in Staffordshire, which flourished and is so successful that the partnership came runner up in the 2016 European River Restoration 2016 prize.

### **ETHERINGTON, Thomas**

Tom's work involves researching and teaching in the areas of geoinformatics, GIS, spatial analysis, ecology, and geography. This work has taken him around the globe and has involved a wide variety of applications in the UK, Canada, and currently New Zealand.

### **EVANS, Heather**

Heather is currently Head of Humanities at St. Gregory's Catholic College in Bath, prior to which she was the Director of Learning at Brislington Enterprise College in Bristol. She is currently studying for an MA in Education at the University of the West of England. Heather regularly leads workshops at conferences in the Bristol area and has worked with the Kent LA and the Teaching and Learning Organisation. Heather is a PGCE mentor for Geography trainee teachers and is also the Senior Professional Tutor at her school. Heather was nominated for Young Teacher of the Year in 2004 and Teacher of the Year in 2006.

### **EVENDEN, Julie**

I have spent my career in the field of military geography, training and qualifying as a cartographic draughtsman at the Mapping and Charting Establishment in 1977. I have subsequently worked within production, geographic research, information system/protect environments, advancing to leadership level. I have a detailed knowledge of the range and use of source materials, data holdings and the processes employed to produce, manage and disseminate geospatial information to the armed forces community. I work closely with other areas of UK Government International partners and contractors on collaborative programmes of work to progress best practice and innovative techniques for geo information production and training. I spent 3.5 years as the Senior Geographic Liaison Officer to the Americas based in Washington DC, working with the US, the UN and national mapping organisations in South, Central and North America to promote best use of geospatial information, knowledge and services. I co-ordinated the timely provision of critical mapping to the US and Canada following the 2004 Indian Ocean Tsunami, supporting the deployment of emergency teams. I am currently an Assistant Director at the Defence Geographic Centre with primary responsibility for production. I am also leading organisational change to develop geospatial data centric processes to meet the growing demand for data to be exploited and shared through web based services. I have a particular interest in maintaining core cartographic knowledge and skills and I am currently working with Esri UK on developing online tutorial training packages for type placement, symbolisation and generalisation.

### **EWING, Christopher**

Chris is a Catastrophe Model Developer for the Impact Forecasting team at Aon Benfield in London, specialising in the use of geographic information and spatial analysis for catastrophe model development for the insurance sector. Away from work, Chris is a volunteer for MapAction, the disaster mapping charity. Chris is also a Director and Council Member of the Association for Geographic Information, the UK's geospatial membership body.

### **EYRE, Graeme**



cartography and has also keynoted a number of conferences. His research, maps have been recognised by a number of awards. He has supervised PhD students, been involved in numerous international collaborations and been on the steering committees of many geo events. He edited The Cartographic Journal for nine years and is Chair of the ICA Map Design Commission. He co-founded The Journal of Maps, is on the advisory board for the International Journal of Cartography, is a Fellow of both the British Cartographic Society and Royal Geographic Society and is a Chartered Geographer (GIS). He moved to Esri in 2011 where he works in cartographic research and development to support high quality cartography and help develop the next generation of tools to support more intuitive, better map-making. His role internally is to support Esri in making better software to help people make better maps using GIS from Desktop to Online. Externally, he is an advocate for cartography and delivers workshops, training and research support internationally.

**FINLAYSON, Andrew**

Andrew has been a Quaternary geologist at the British Geological Survey since 2005. His work focuses on the investigation of the Earth's surface and shallow subsurface, with an emphasis on three main areas: (i) ancient and modern glacial processes; (ii) three dimensional geological modelling; and (iii) applied Quaternary geology and geomorphology. Andrew has written numerous papers on the glacial geomorphology of the British Isles, and several commissioned reports to inform ground investigation and planning. He has worked extensively in the UK, the United Arab Emirates, and in Iceland. In 2013 he was awarded the Lewis Penny Medal by the Quaternary Research Association.

**FIONDA, Nathan**

I am currently Senior Consultant Hydraulic Modeller at Wessex Water. Previously, I was based within the Waste Water Networks team at Atkins in a position where I applied my wide ranging geographical and engineering skills across a broad spectrum of projects. Using my technical expertise and strong project management skills I have always sought to deliver high quality cost effective solutions to my clients. I have over 9 years' experience within the Water and Environment and have extensive experience of hydraulic modelling, Drainage Area Planning and GIS projects. This experience has been gained through work with Atkins, RPS Group pic and the Environment Agency. I have worked for many water company clients including Scottish Water, United Utilities, Wessex Water, Welsh Water, Severn Trent Water, Southern Water, along with SEPA and the Environment Agency. Within work I personally promote the use of open source GIS software packages through my involvement with ongoing project work. I am fan of QGIS as an alternative to ArcGIS and MapInfo and have been involved in raising awareness of this product and delivering training to colleagues.

**FISCHBACHER-SMITH, Denis**

Denis Fischbacher-Smith is Professor of Risk and Resilience at the University of Glasgow. A graduate of the Universities of Manchester and Glasgow, the Open University and the CNAA, Professor Fischbacher-Smith holds bachelor's degrees in Geography/Environmental Science (BEd) and Science (BSc), Masters degrees in Pollution and Environmental Control (MSc), Applied Psychology (MSc), Management (MBA) and Public Health (MPH). He holds doctoral degrees in Science and Technology Policy (risk assessment) (PhD) (from the University of Manchester) and Crisis Management (DLitt) (University of Glasgow). His main research interests span the main areas of the UK's policy around resilience and converge around issues of prevention, protection and preparation. He is the editor-in-chief of Risk Management: an International Journal and is a member of the editorial advisory boards of Disaster Prevention and Management, the Security Journal, the Journal of Contingencies and Crisis Management, and Public Money and Management. He is a Fellow of the Chartered Institute for Personnel and Development, a Companion of the Chartered Management Institute, and an elected Academician of the Academy of Social Sciences.

**FISH, Paul**

Following A-levels, my geographical training continued at Royal Holloway University of London where I studied Physical Geography, focusing on Quaternary climate change, and geomorphology. My undergraduate dissertation was based on field research in the high Himalaya of India, and led me to develop a love of mountain regions and travel, particularly in India. My academic interests led to PhD research on the Quaternary glaciation of lowland Britain at the University of Brighton. This involved learning a wide range of analytical techniques ranging from micropalaeontology, to GIS and the basics of physical geology. Following my research, I spent an enjoyable 18 months working as a Research Officer at Brighton where I was involved in a Defra-funded project investigating water-based sport and recreation. This work was a change from the themes of my PhD and allowed by to develop my GIS skills and also learn new research techniques









the Countryside Agency and Natural England. During this time Karen has also studied for a Master's in Geographical Information Systems at the University of Leeds. Her experience includes analysis, cartography, data management, programming, technical support, applications management and training. Karen's current role is for Natural England and involves managing and developing their internal online GI application and providing support to the MAGIC website.

#### **GLOVER, Sarah**

Sarah is a GIS specialist, currently employed within the environment division of the engineering consultancy, Mott MacDonald. Sarah's first GIS related employment was as a cartographer for DEFRA in 2000. This sparked Sarah's interest in maps and cartography and led Sarah to study for an MSc in GIS at the University of Edinburgh. Since completing the MSc Sarah has worked in a variety of GIS roles, within both public and private sector, within the UK and in Australia. Sarah also successfully established her own GIS consultancy called Longitude153 GIS in which she provided GIS support and services to an ecological consultancy based in Brisbane, Australia. Sarah has most experience in using GIS to support environmental teams and projects, particularly environmental impact assessments. She also has a strong interest in GIS training and is actively involved in developing and promoting training to colleagues. Outside of work Sarah has provided GIS services to the local wildlife trust, an arts charity and an environmental consultancy established by her brother in the USA.

#### **GOLDUP, Graham**

Graham is currently an Assistant Headteacher and the Subject leader for Geography at the Cardinal Newman Catholic School in Hove. Graham has a BSc Hons in Geography and a PGCE. At Cardinal Newman, Graham is responsible for their Humanities Specialism, fieldwork and humanities CPD. He works extensively with schools in his local area (along with the LA) to run regional conferences and twilight CPD meetings for teachers. Graham has been involved in writing bids for the school to win the Secondary Geography Quality Mark and also become a *Centre of Excellence for Geography*. He has an extensive CPD record, both attending and presenting, and has been involved in several Action Plan for Geography events. Graham won the *Ordnance Survey award* for excellence in teaching geography at secondary level in 2009.

#### **GORDON, John**

John has worked in the field of geodiversity and geoheritage conservation for over 30 years. He has an MA (Hons) in Geography and a PhD, both from the University of Aberdeen. His research interests also include glacial geomorphology, Holocene glacier fluctuations, the geomorphology of South Georgia and the Quaternary of Scotland. John was awarded the Bruce Medal from the Royal Society of Edinburgh for contributions to glacial geomorphology in polar regions. He is currently an Honorary Professor in the School of Geography and Geosciences at the University of St Andrews.

#### **GOSLING, Paul**

I am a Geospatial Analyst from the Defence Geographic Centre (DGC), but currently embedded within the Defence Geospatial Intelligence Fusion Centre (DGIFC) at RAF Wyton. I took up post in March 2013 and am providing map products and geospatial analysis support to meet Defence customer requirements. I have 18 years' experience working in a variety of posts at DGC, with my primary areas of expertise being in the Geodesy and Geographic Research sections, providing advice to enable DGC production and advice to MOD customers, and in my previous post as the UK & Ireland Geospatial Collection Officer I managed relationships and commercial contracts with national mapping agencies, Government departments and commercial suppliers, ensuring collection of all hardcopy and digital mapping to meet MOD requirements over the British Isles. I hold a BSc (Hons) degree in Surveying Science from Newcastle University.

#### **GOWLING, Richard**

Richard has over 20 years' GIS experience, a BSc in Environmental Science and an MSc in Geographical Information Systems. He has previously worked for Yorkshire Water Services and joined British Waterways in 2001 which became the Canal & River Trust in 2012, where he has held a number of roles including GIS Developer and is currently the GIS Manager. The Trust is one of the country's newest and largest charitable organisations with responsibility for over 2000 miles of England and Wales "canal" network, much of which is over 200 year old and highly dependent on the use of geospatial systems for its management. His primary role as head of GIS is to oversee the delivery and strategic direction of geospatial intelligence across this complex multi-disciplinary organisation, through the provision of systems, processes and management of a nationwide team of highly skilled GI Specialists. To enable the collection, collation and enrichment of data and its subsequent analysis and exploitation for the wider benefit of the Trust, its customers and stakeholders. Empowering them to deliver the Trust's vision of "living waterways that transform places and

enrich lives" in an as efficient and engaging way as possible whilst safe guarding the canal network for future generations.

**GRAHAMSLAW, Thomas**

Tom graduated from the University of Leeds with a degree in Geography with Transport Planning and went on to develop a career with WSP where he has progressed from Graduate to Principal Consultant within the Intelligent Transport Systems (ITS) group. Tom works with a variety of clients to develop solutions to network challenges and applies geographic approaches and thinking, enabling continued consideration of the wider human impacts transport has. He has been instrumental in the development and delivery of the Smart Motorways concept, this includes lead author of the safety assessment and operations lead for schemes on the M6, M62 and M1 in the UK. His innovative approaches to consultancy in the ITS sector led him to being recognised as the 'ITS (UK) Young Professional of the Year' in 2014. Following this accolade he has continued to enhance his professional development and share his geographical expertise through roles on technical leadership and peer-to-peer groups within the industry.

**GRAY, Damian**

Damian is a geography teacher at Guru Nanak Sikh Academy. He has an MSC in climate change and has been heavily involved in CPD throughout his career.

**GREGORY, Kenneth**

Ken is currently a Visiting Professor at the University of Southampton, and Emeritus Professor University of London. Ken has been involved in higher education for the whole of his professional life. He was a lecturer/reader at the University of Exeter from 1962 to 1976 and then moved to the University of Southampton where he rose from being Professor of Geography to Dean of Science and then Deputy Vice-Chancellor. He was Warden of Goldsmiths College, University of London from 1992 to 1998. Ken received a Leverhulme Emeritus Fellowship for 1998 to 2001, to study patterns of river channel adjustment, has published more than 30 books, and has a D.Sc University of London. He was Chair of the Organising Committee for the International Geographical Congress held in the UK in 2004, has also chaired committees of the NERC, and for the Research Assessment Exercise (UFC, HEFCE). Ken was awarded the Back Award and Founders Medal from the Royal Geographical Society (with IBG), the Linton award and medal from the British Geomorphological Research Group, was made CBE in 2007, and is currently President of the British Society for Geomorphology.

**GRIFFITHS, Lynne**

Lynne is a GIS Analyst with experience in Geographical Information systems for Atkins, United States Air Force (USAFE) and MOD and 10 years earlier experience in CAD design for water and wastewater engineering for Atkins. While working for the USAFEMOD Lynne was part of a multi-national GIS team working alongside the US military developing a standardised GIS platform spanning US bases through Europe. Lynne trained the military in the use of GIS and mobile mapping to enable sustainment of the GIS platform. Since returning to work at Atkins in 2006 Lynne uses GIS to support a diverse number of disciplines, Civil Engineers, Environmental Scientists, Hydrologists and Ecologists with spatial analysis, mobile mapping and cartography to aid with strategy, policy and impact reporting in such areas as flood risk/habitats assessment/climate change and pollution on national and international projects.

**GRIMWADE, Gordon**

Gordon operates a heritage management consultancy firm in Queensland, Australia. Gordon has a BA from WAIT, Perth, Western Australia, an MLitt from JCU, Townsville, Queensland and a Certificate from the Australian School of Pacific Administration. As a Patrol Officer and Aboriginal Affairs Manager in north Australia Gordon frequently undertook remote area expeditions into Central Australia and to Cape York. Gordon's current interests lie in cultural heritage tourism, regional development, and historical site management and conservation. His major research work has focused on Chinese sites in north Australia, cemetery conservation and remote area mining. Gordon has been awarded John Herbert Awards for Cultural Heritage Conservation several years running together with associated tourism awards. He has published widely both in Australia and overseas. Gordon is currently a member of the Australia ICOMOS Cultural Tourism Committee.

**GROOMBRIDGE, Richard**

Richard is currently the National Street Gazetteer (NSG) Coordinator for GeoPlace providing technical and procedural advice to both local and central government bodies on the use of NSG within differing operational environments. Richard has a BA (Hons) in Geography from the University of Plymouth and has over 8 years'



has been involved in focused on developing software that has resulted in highly successful systems that continue to be used today. One of his current projects is to design the system to deploy OS Master Map within BT.

#### **HAJOK, Alexandra**

Alexandra is a GI Adviser at Natural England where she is responsible for managing their internet GI presence. Her experience includes geographical data management, analysis, GIS development, technical support and training. She is particularly interested in the use of GIS for physical geography and environmental applications, and has previously held GIS roles at Worcestershire County Council and on the Habitat Biodiversity Audit at Warwickshire Wildlife Trust. Alexandra has a BSc in Geography from the University of Hull and an MSc in Geographical Information Systems from the University of Leicester.

#### **HALE, Daniel**

Daniel specialises in the everyday human costs and challenges of economic and environmental change. His PhD research, at the University Of Leeds School Of Geography, articulated the concerns of those caught up in the shift to neoliberalism, and the multiple and dynamic ways in which workers challenge and adapt to large-scale economic change. Professional work outside academia has focused on the ways in which changes in economies and the environment impact the poorest and most vulnerable in society (both in the UK and around the world). Much of this work has taken place in a variety of leadership roles in NGOs and INGOs, providing opportunities for people in the UK to critique current policy and support practical solutions for a more equitable and sustainable world.

#### **HALOCHA, John**

John is Head of Geography at Bishop Grosseteste University College in Lincoln. John has a BEd in Geography from University of Cambridge and an MA in Education from Open University. John has published 2 sole authored books, 9 book chapters, 16 journal articles and 25 conference papers. John has recently been using ICT to develop geographical understanding and pupil's awareness of the wider world. He has published research that has been used to develop policy at the QCA and has worked with the TTA to prepare teaching materials for the national curriculum. In addition to his research John is also an officer and council member of the Geographical Association and is a committee member of the IGU Commission for Geography Education British Sub-Committee. John Halocha is President of the Geographical Association for the year 2009-2010

#### **HALSALL, Jamie**

Jamie P. Halsall is a Reader in Social Sciences and Subject Leader in Sociology in the School of Human and Health Sciences at the University of Huddersfield, UK. He joined the institution in September 2008 and also worked at Edge Hill University and Liverpool John Moores University as an Associate Tutor and Research Assistant respectively.

Before becoming an academic in 2003 Jamie gained a BA (Hons) degree in Geography from Edge Hill University. The following year he gained a Masters degree in the Geographies of Globalisation and Development. In 2010 he completed his Doctorate of Philosophy while studying at the University of Liverpool. His academic career has included research with the International Centre for Development and Environmental Studies (ICDES), which was based in the Department of Natural Applied Sciences at Edge Hill University. Jamie is a Fellow of the Royal Society of Arts and the Royal Geographical Society, and in January 2017 he was awarded Senior Fellowship of the Higher Education Academy.

Jamie's research interests lie in the field of communities and he has published on the subject area. His recent book Sociability, Social Capital and Community Development: A Public Health Perspective with Professor Ian G. Cook and Professor Paresh Wankade critically explores global debates on aging, governance and institutions, emergency services and public health provisions, and community activism and involvement. In this book the authors relate eight geographical case study examples(United Kingdom, The United States, China, India, South Africa, Bangladesh, Japan and The Netherlands).

#### **HANCOCK, Paul**

Paul Hancock read Geography at Oxford University and on graduating in 1975 joined the UK Ministry of Defence's Mapping and Charting Establishment. During his career he has worked in most areas of the Defence Geographic business including the UK Hydrographic Office. He is a graduate of the Royal College of Defence Studies and a Fellow of the Royal Geographical Society (with IBG). In March 2011 he was appointed Director of the Defence Geographic Centre which is responsible for providing comprehensive

global geographic support to the UK Armed Forces, Defence, Security and Intelligence communities. He is also Head of the Geospatial Analyst profession in the UK MOD.

#### **HARDCASTLE, Nick**

Nick is a Geographical Information Systems (GIS) professional with 13 years' experience. Nick holds an MSc in GIS from Leeds University and began his career plotting planning applications in 2004. Since then, he has had various progressive roles including GIS Coordinator for the Regional Development Agency Yorkshire Forward. In his current role as GIS Manager for the JBA Group of Companies (with 500 staff and a £20m turnover) he manages all aspects of GIS software, hardware and data. He is in charge of providing GIS facilities and infrastructure as JBA and is the first point of contact for GIS within the organisation. He has played an instrumental role in various high-profile consultancy projects and delivered both internal and external training courses. Nick has extensive knowledge of both MapInfo and ArcGIS products and has experience in both the public sector (Local and Central Government) and private sector.

#### **HARDING, Jenny**

Jenny is Principal Scientist at Ordnance Survey (GB) with special interests in user focused research and geographic data quality. Current responsibilities include leading research in these areas to contribute to data improvements and process efficiencies. She has worked both with geography and geographic information science throughout her academic and professional development. Following a first degree in geography with subsidiary in surveying, from UCL, she began her career directly building on this as a surveyor with Ordnance Survey. Her research career began by completing a PhD at the University of Sheffield, then returning to Ordnance Survey in applied research and project management roles. This experience, together with an MSc in Information Systems has come together in her present position. Jenny has fostered links between geographic information science, computer science and human factors disciplines, in both academia and industry, through instigating workshops on usability of geographic information. Links with universities are also developed through advising on MSc and PhD projects. She is an active member of the International Cartographic Association Commission on Use and User Issues.

#### **HARDMAN, Angela**

Angela works at Parris Wood Technology College. Prior to this, Angela was Head of Geography and Travel and Tourism at Rivington and Blackrod High School in Lancashire. Prior to this she has worked in a High School in Hexham, Northumberland and at an Environmental Education Centre in Georgia, USA. Angela was appointed as an Advanced Skills Teacher in 2003, with an initial focus on 'Thinking Skills' and more recently student voice and practitioner research undertaking her own research projects with BPRS and CARA 2 awards. She joined the National Teacher Research Panel (NTRP) in 2005 which aims to champion the teacher perspective in educational research, she is now Chair. Angela is also a TLA leader and leads a Geography network for teachers in Bolton. Angela has experience of GCSE Geography exam board marking for OCR and now marks A level for AQA. She is currently leading her school on its ambitions to achieve UNICEF's RRSA award.

#### **HARDY, Ben**

Ben is a Senior Transport Consultant working in the Strategy and Sustainable Transport team in Mouchel. Ben has an honours degree in Geography and a master's degree in GIS, both from the University of Leeds. He started his career in 2004 as a Geographic Analyst for the world's leading Satellite Navigation company where he created and maintained the GIS database. Since 2006 Ben has worked for Mouchel, applying his knowledge in Geography and GIS to the Transport Planning team, specialising in Strategy and Sustainable Transport.

#### **HARGREAVES, Phillip**

Phil manages the cartographic GIS and remote sensing capabilities of Spectrum, a supplier of seismic surveys to the oil and gas industry. Here he provides a connection between the "above surface" hydrocarbon exploration landscape and the "below surface" geological and geophysical environment. Phil is actively involved with the design and delivery of Spectrum's seismic acquisition campaigns and seismic reprocessing programs. In 2015 Phil celebrated 10 years of professional experience, starting his career with Infoterra (now Airbus Defence and Space). Phil has an MSc in Earth Science, with a final project focussing on the paleogeographic reconstruction hydrocarbon source-forming environments. He has continued this research theme at Spectrum with publications based on satellite slick studies that aim to de-risk hydrocarbon source

presence in several different basins including the Croatian Adriatic, Northern Campeche (Mexico) and the Spanish Balearic.

**HARPER, Gillian**

Gillian is Operations Director of Mayhew Harper Associates, providing consultancy on geographical data management and analysis specialising in local population estimations and service planning intelligence. She has over 10 years' experience of working with administrative datasets for household level analysis in the local authority, PCT and research environments, including the London Borough of Brent and Birkbeck College. Gillian obtained a distinction in Geographic Information Science from UCL with a Master's thesis on using administrative data to model local conditions, and has recently completed an UPTAP Research Fellow at Cass Business School.

**HARRIS, Kato**

Kato is Deputy Head and Educational Visits Co-ordinator at St George's School, Ascot. He was previously Assistant Head, Head of Geography and Educational Visits Co-ordinator at South Hampstead High School. He has a BSc in Geography and a PGCE in Secondary Geography from Exeter University and a PGC in Geography in Education from the University of London. He is part of the RGS Geography working group which is reviewing the National Curriculum. His professional interests include glacial geomorphology and climate and he has visited Iceland fourteen times, sometimes on his own, researching the avalanches in Neskaupstaður, Suðavík and Flateyri, and sometimes as a guide, introducing over three hundred schoolchildren to Iceland. He has written for PSHE and Citizenship on the links between geography and citizenship. He has presented the sceptical view of man-made global warming for the Geographical Association. His annual lecture on the geographical significance of Eurovision prompted an article in The Independent. He is currently researching the memorialisation of disasters in communities.

**HARRIS, Simon**

Simon teaches at Sir Joseph Williamson's Mathematical School in Rochester, Kent where he was Head of Department for twelve years. He studied a BA degree in Geography at the University of Kent at Canterbury, and a PGCE at Canterbury Christ Church University before joining the Geography Department at Tunbridge Wells Girls' Grammar School. Simon helped his school gain Humanities Specialist School Status in 2007, and established links with a local University to provide an annual Geography lecture conference for Medway schools. The department continues to offer a wide range of fieldwork for all key stages. Simon has been the lead teacher in the successful bid for the Geographical Association Secondary Geography Quality Mark (awarded for the fourth time) in September 2017.

**HART, Paul**

Paul is an experienced Information Management consultant with strong GIS, database and scripting skills. Paul has worked on all stages of a project's lifecycle from start-up and execution, to exit strategy and project close, making management, financial and technical contributions at all stages. He has also developed strong communication skills and has maintained excellent working relationships with colleagues, contractors and clients at both technical and personal levels. Motivated by doing things better, Paul is an innovative, driven and quick learning team leader. Paul has developed a broad knowledge of the GIS workplace having an expert knowledge of GIS theory and its application in today's software packages including the use of server, online and mobile technologies. This includes the use of scripting languages to extend out the box software to meet high standards of analysis, output and automation.

**HARTLEY, Richard**

Richard Hartley is a GIS Manager at Transport for London, with responsibility for maintaining and developing the Rail & Underground GIS. Richard has worked at Transport for London since 2005, starting on the transport planning graduate scheme before specialising in GIS. This led to his appointment as manager of the Surface Transport Olympic Games GIS team. In this role Richard worked collaboratively with the GIS teams at the Olympic Delivery Authority (ODA) and the London Organising Committee of the Olympic & Paralympic Games (LOCOG). He led a large team of GIS specialists in the production of operational maps, spatial analysis and GIS datasets for the temporary road changes required for the Olympic Route Network, Games Road Events and Central London Zone. He holds an MA (Oxon.) in Geography from Oxford University and an MSc in Applied GIS from Kingston University. Richard also chairs the Transport for London Geographical Information and Systems Collaboration Group,

which brings together representatives from across the business to promote the use, and steer the development of, geographical information within the organisation.

#### **HARTLEY, William**

William has spent most of his career with HM Prison Service although he has worked as an inspector of probation and as a project manager for the National Lotteries Charities Board, carrying out a strategic review of accommodation. He has been able to apply his geographical knowledge notably in the field of change management. William has a BA Geography from Huddersfield Polytechnic and an LLB from Liverpool Polytechnic. Research interests and publications have focused on the historical geography of coal mining in West Yorkshire and the development of the railway industry. He is a Fellow of the North of England Institute of Mining and Mechanical Engineers.

#### **HASLAM, John**

John is Head of Geography at Lancaster Girls Grammar School, where he has also been Director of Teacher Training which led to links with the University of Cumbria. John is heavily involved in his schools' links to other schools around the world through the Comenius Project, including schools in Portugal, Madagascar and Finland. He has an MA in Educational Management, and several qualifications from the National College for School Leadership.

#### **HAY, Iain**

Iain Hay is Mathew Flinders Distinguished Professor of Geography at Flinders University, South Australia. He completed his PhD at the University of Washington as a Fulbright Scholar and recently received a LittD from the University of Canterbury for 20+ years of post-doctoral work on geographies of domination and oppression. He is author or editor of over a dozen books including *Money, Medicine and Malpractice in American Society* (Praeger 1992); *Qualitative Research Methods in Human Geography* (3rd edn Oxford 2010); and *Geographies of the Super-Rich* (Edward Elgar 2013); is Editor-in-Chief of *Geographical Research* (Wiley) and has had other editorial roles with journals that include *Applied Geography*, *Ethics*, *Place and Environment* and *Social and Cultural Geography*. Iain is a past President of the Institute of Australian Geographers and recipient of the Prime Minister's Award for Australian University Teacher of the Year. He is also a Fellow of the Academy of Social Sciences (UK) and a Principal Fellow of the Higher Education Academy. He is currently Vice-President of the International Geographical Union. His webpage is at: <http://www.flinders.edu.au/people/iain.hay>.

#### **HAYNES, Heather**

Heather holds degrees in Geography BSc (Leeds), MSc Oceanography (Southampton) and PhD in Civil Engineering (Heriot-Watt) and is currently a Lecturer in Water Engineering and Director of the Hydraulic Research Laboratory at the University of Glasgow. Her research focuses on fluvial sediment transport, including projects on traditional particle entrainment, fine sediment siltation in salmon spawning gravels, biostabilisation of river beds and wider research into pollutant studies in Sustainable urban Drainage Systems and urban flood modelling systems. By looking outside-the-box at instrumentation, she was also one of the first researchers to employ medically-based Magnetic Resonance Imaging to examine the internal structure of river bed sediments. She supervises a range of related PhD research activities involving external funding from EPSRC, Nuffield Foundation, Royal Scottish Geographical Society, British Society for Geomorphology, Scottish Natural Heritage and industry. She also has collaboration with HR Wallingford, Scottish Environmental Protection Agency and a number of national and international universities. Her related undergraduate and postgraduate teaching activities include Sustainable River Management & Engineering, Hydrology, Water Engineering (floods, geomorphology & coasts) and Design (canal restoration) where she actively promotes fieldtrips and flume-based learning.

#### **HAYWARD, Peter**

Peter Hayward is a Principal Consultant with the global sustainability consultancy Environmental Resources Management (ERM), based in Manchester, UK.

Peter has a BSc in Geography and Cartography and MSc in Environmental Pollution and Control. He worked for the School of Geography, University of Oxford as a Senior Cartographer in the 1990s before working in environmental consultancy initially as a Technical Illustrator before becoming an environmental consultant in 2003.

Peter manages international projects with leading global organisations, helping them to develop and implement effective sustainability-related programmes.

His areas of expertise use geographical and cartographical skills & knowledge in the areas of environmental, health and safety (EHS) management systems, EHS auditing, contaminated land management, Mergers &

Acquisitions, supply chain management and supporting organisations developing Corporate EHS Standards. Peter has worked in a wide range of sectors including chemicals, aerospace, automotive, pharmaceuticals, food and drink, light and heavy manufacturing, waste management, metals, and printing and packaging. ERM is a corporate benefactor of the RGS and Peter is the Project Manager responsible for the day to day RGS relationship, aimed at supporting the Society's work to advance the professional development of geographers and those working in geography, including teacher-training days on the latest approaches to fieldwork, together with continued professional development workshops & seminars. Peter recently joined the Scout Association as an Assistant Cub Leader to help develop young people especially in the outdoor environment. He also likes to spend time with his young family walking in the countryside.

### **HEATH Raphael**

Raphael Heath is Head of Geography at Royal High School Bath, GDST. He was presented with the Royal Geographical Society Ordnance Survey Award for Excellence in Secondary Education in 2015. He also won the Esri UK Best Community Project Award for the 2014 GIS Day World Record Event. He is a GDST Lead Subject Champion promoting collaboration in Geography across a network of 26 schools around the UK. He is one of Esri UK's Centre of Excellence in GIS Education. He is a fellow of the Royal Geographical Society. He has presented at conferences, published articles and run courses in various aspects of Geography teaching.

### **HETHERINGTON, David**

David works for Ove Arup and Partners as a fluvial geomorphologist and flood risk manager, with a strong interest in spatial data and advanced measurement techniques including lidar. He has a Bachelors degree in Geography, a Master's degree in Catchment Dynamics and Management and a PhD in the use of remote sensing in river environments. His PhD tested and developed appropriate methodologies for terrestrial lidar scanning for use in geomorphology, hydrology, geography and river surveying. David has expertise relating to meander theory, pool-riffle hydraulics and sediment transport. David coordinates the Remote Sensing and Geomorphology groups within his organisation, which employs around 10000 people globally. David is part of the Arup European Water Management Team. David's day to day project work relates to River Restoration, Geomorphological Appraisal, Flood Risk Management, Hydraulic modelling (HEC-RAS, ISIS), Flood Forecasting (ReFH, FEH), Sediment Transport and general Geomatics. David has strong University links and is part of active international research groups conducting projects relating to geomorphology, hydraulics, lidar, surveying and interpolation, sedimentology, 3D visualisation and forestry. David's current Arup research projects have developed skills and services relating to visual flood simulation, 3D flood risk mapping, and CFD modelling of channels. David has reviewed for the IEEE IGARSS (International Geoscience and Remote Sensing Society) Symposiums and the International Journal of Remote Sensing. He sits on the Ordnance Survey and Remote Sensing and Photogrammetry Society (RSPsoc) lidar special interest committee. David is a Member of RSPsoc, and the River Restoration Centre (RRC). David is a full member of CIWEM (MCIWEM) with CSci and CEnv statuses.

### **HIDDERLEY, Jeremy**

I have over eight years' experience in the geospatial and civil engineering industries. This is underpinned by a BSc (Hons) in GIS and Remote Sensing, a skill set complemented by studying for an MSc in Rural, Environmental and Land Management. I am currently a Data Analyst for AECOM Ltd providing GIS support to the water asset management business within the UK. I have previously worked for the Halcrow GIS team, working on mapping and modelling projects for a range of clients in addition to supporting the wider business. Much of my fundamental knowledge of data capture, quality assurance and visualisation was developed during my two years as a Land Surveyor with BLOM Aerofilms.

### **HILL, James**

Jim is the Director of the Geospatial Intelligence Directorate (GID), Marine Corps Intelligence Activity (MCIA) located in Quantico, VA. He manages a staff of 94 professionals providing GEOINT support to the Commandant of the United States Marine Corps, Operational Marine Forces, and the Intelligence Community. He provides strategic direction, technical mentorship, resource management, and is responsible for fostering GEOINT collaborative relationships with the international GEOINT community. Jim is a Fellow of the Royal Geographical Society (RGS), Member of the American Society of Civil Engineers (ASCE), and a licensed Professional Engineer in Virginia, Maryland, and Florida, USA. He holds a MSc in Defence Geographic Information, Royal School of Military Survey, Army Survey Course, Cranfield University; a MSc in Coastal and Ocean Engineering, Texas A&M University; and a BSc in Civil Engineering (Water

Resources) from The Ohio State University. Mr. Hill has been honored with the receipt of two National Intelligence Meritorious Unit Citations for his engineering/geospatial efforts during Operation IRAQI FREEDOM and the Simpson-Leica Prize upon graduation from the Army Survey Course in 2008.

**HILL, Jennifer**

Jennifer is a Senior Lecturer in Geography at University of West England, Bristol. Jennifer has a BA in Geography from St Anne's College Oxford, an MA in Geography and a PhD from University of Wales Swansea. In addition to her research and teaching commitments Jennifer also delivers lectures through the local Geographical Association and regularly publishes in material aimed at A-level students. Most recently Jennifer has been elected as a Member of the Faculty Board within the Built Environment and Applied Sciences at UWE.

**HILLIER-BROWN, Heather**

Heather is currently Head of Humanities at St. Gregory's Catholic College in Bath, prior to which she was the Director of Learning at Brislington Enterprise College in Bristol. She is currently studying for an MA in Education at the University of the West of England. Heather regularly leads workshops at conferences in the Bristol area and has worked with the Kent LA and the Teaching and Learning Organisation. Heather is a PGCE mentor for Geography trainee teachers and is also the Senior Professional Tutor at her school. Heather was nominated for Young Teacher of the Year in 2004 and Teacher of the Year in 2006.

**HINCHLIFFE, Graham**

Graham is GIS and Remote Sensing Specialist at Bluesky International Ltd, based in Leicestershire. Focusing on R&D he works to develop new products, explore innovative techniques and solve geospatial problems. He is the developer and technical manager behind the creation of Bluesky's flagship National Tree Map, fusing optical and terrain datasets using advanced geoprocessing to map nearly every tree in England and Wales (Scotland coming soon!) Past roles include development of lava flow risk models at the USGS Hawaiian Volcano Observatory, GIS volunteering in South India and over 6 years at EADS Astrium Infoterra (now Airbus Defence and Space) as Senior Geo-Information Analyst. Graham has an MSc in GIS from the University of Edinburgh, where he won an RICS prize for his dissertation/and a BSc in Geology with Physical Geography from the University of Southampton. He has a keen interest and extensive experience in ESRI geoprocessing, Land Cover Classification and Object Based Image Analysis (OBIA).

**HITCH, Stuart**

Stuart is currently Head of Geography at King Edward VI Grammar School in Chelmsford, where he has been instrumental in promoting the use of ICT within the curriculum. He has worked with a variety of organisations including Staffordshire Learning Net, Manchester Metropolitan University, Ferl, Philip Allan Updates and the RGS-IBG. He has also developed his own geography resources website, along with a departmental website.

**HOARE, James**

James is a Senior Hydraulic Modeller for a large multidisciplinary engineering consultancy specialising in 2D and integrated catchment modelling. He has nine years of experience and during this time has spent over two years seconded into one of the UK's Water and Sewerage Undertakers managing property flooding. He has also overseas experience of master planning in both Europe and the US along with the more conventional drainage area planning, UID and flooding investigations within the UK. Outside of the workplace, James enjoys walking, mountaineering, rock climbing, country sports and pretty much anything that gets him outside!

**HOBSON, Jane**

Jane is a Social Development Adviser at the Department for International Development (DFID), currently working on the AIDS and Reproductive Health Team. Previous posts in DFID have included working on governance issues in fragile states, on DFID's Sierra Leone country programme and on policy teams focused on social exclusion and on urbanisation. Prior to joining DFID she worked as a planner for the NGO Shelter Associates in Pune, India, working with slum dwellers on low-cost housing, infrastructure and GIS-based surveys. She has also worked as a teacher, including teaching Geography at the United World College, Pune, India. She has a BA in Geography from University of Cambridge and an MSc in Urban Development Planning from University College London, and studied South Asian studies as an exchange student at Heidelberg University.



Fitzwilliam College, University of Cambridge and a PhD from Durham University. In 2002 he was awarded a prestigious NERC Independent Research Fellowship. In 2007 he received the Philip Leverhulme Prize in 'compelling recognition of outstanding research achievements' and he also became the youngest Professor in the UK at the time. In 2011 he was awarded the Gordon Warwick Medal by the British Society for Geomorphology. Joseph has led dozens of major research projects, published over 120 papers, chapters and reports. He has edited a major geography textbook published by Pearson Education, now in its 3rd edition, an interdisciplinary textbook on water published by Routledge and written 'Physical Geography – the basics' published by Routledge. He has made regular appearances on TV, radio and newspapers on his research and has had a major piece of government policy launched which supports green investments by businesses to fund restoration of degraded peatlands.

### **HOLLAND, Simon**

To me geography is everything, everywhere and has been a huge part of my life from a very early age. I inherited my love of the subject from my parents and have developed my passion throughout my life, education and career. After completing a degree in geography at Lancaster University I took two years out to explore the World, working in a wide range of paid and voluntary positions from Colorado to New Zealand. This really inspired me and confirmed my long-standing desire to train as a teacher and share my love of geography with the next generation of geographers. After returning to the UK for teacher training I was appointed as a geography teacher at Bilborough Sixth Form College in Nottingham where I have worked ever since in a range of positions, but always teaching as much geography as possible. In my time at the college I have run student expeditions all over the world including to remote Greenland, the very far northwest of Iceland and Mt Toubkhal in Morocco to name just a few. As a teacher I have always taken every opportunity to stay up to date through high quality CPO and have been an examiner, consultant, RGS Data Skills Champion and coursework adviser alongside my teaching role. Throughout my life I have retained my passion for travel and spend as much time as possible travelling and exploring the incredible natural and human world, constantly refreshing my love of geography and teaching it to others.

### **HOLLINSHEAD, Rob**

Rob Hollinshead is a Senior Consultant in the Environment division of Mouchel, with a wide range of geographical experience and specific expertise in monitoring of the water environment. Having read Physical Geography at the University of Wales Aberystwyth, Rob went on to work for the British Geological Survey and Entec UK (now Amec Foster Wheeler), before joining Mouchel in 2006. Throughout Rob's education and consulting career, he has developed a range of experience across all aspects of Geography. This includes specialising in hydrological monitoring, covering - logistical planning and fieldwork, staff training, reporting, data validation and quality assurance, through to the technical side of monitoring devices and systems. Experience of this is demonstrated through performing both project management and lead technical roles across a number of high profile projects including 'Hydrological Monitoring of UK Wetlands' (Environment Agency), 'North West Regional Groundwater Quality Monitoring Network' (Environment Agency); 'National Hydrological Quality Monitoring Network' (Department for Food, Agriculture and Rural Affairs) and 'Upper Colne National Environment Programme Hydrometric Monitoring' (Affinity Water / Amec Foster Wheeler). Rob has also worked on various Environmental Impact Assessment (EIA) projects with specific focus upon the soil and water components of EIA's incorporating field work assignments and desk based studies into proposed wind farms and highway developments. Additionally, Rob has successfully completed a number of training courses and has achieved external qualifications covering technical learning, health and safety, and project management.

### **HOME, Rollo**

Rollo has been an enthusiast of Geography since his youth, inspired initially by the landscape while traipsing over his native Dartmoor. From these sojourns, an interest in expeditionary travel developed. With the experiences gained from the British Schools Exploring Society (Yukon 1990), he worked as a member of a number of independent (some even RGS-IBG registered) climbing expeditions to mountain regions of, Norway (1991), Iceland (1992), Svalbard (1993, 1999), Pakistan (2001), Greenland (2003), Finland (2004) and Morocco (2005). It was a natural decision for Rollo to read Geography at Queen Mary College, University of London (BA). However it was subsequently while studying at University of California, Santa Barbara (UCSB) that he was first introduced to GIS. Upon graduation he undertook an MSc in GIS at the University of Edinburgh, and has worked in the GI sector ever since. He has been fortunate to have worked on GI applications around the world and in a range of sectors for both large corporations (Halcrow Group Ltd, COWI A/S) and a small start-up (the Austrian based CityGRID GmbH), and more recently as the Senior Product Manager, 3D for Ordnance Survey. Rollo has been involved with the Association for Geographic

Information (AGI) for a number of years, (re)establishing the #AGI\_NG and working on the GeoCommunity and W3G conferences. He established and continues to coordinate the #Geo\_SW group. He presents a personal (if somewhat infrequent) slant on 'all things GIS' at his blog #SpatialNeeds ([www.rollo-home.co.uk](http://www.rollo-home.co.uk)).

**HOOKE, Janet**

Janet is Professor of Physical Geography at University of Liverpool and the John Rankin Chair of Geography. Janet has a BSc (Hons) in Geography from University of Bristol and a PhD from University of Exeter. Janet's research interests include fluvial geomorphology, coastal geomorphology and environmental management. In addition to the work Janet does within the academic realm, she is also involved in research consultancies, providing practical geomorphological advice to agencies.

**HOPKINS, Theresa**

I am a highly qualified and exceptionally motivated geographical information systems specialist with 12 years' experience in the public and private sectors involved in major transport and environmental projects; including the 2012 Olympic Games; that have contributed to a culture of quality and professionalism in all the roles I have undertaken. Demonstrating meticulous attention to detail and accuracy in managing complex geographic data, producing high quality cartographic layouts and providing advanced spatial data analysis, I am acknowledged as a focussed and target driven individual. Proficient in working both in teams and autonomously, I am exceptionally well organised and prioritise my workload skilfully, exhibiting an exemplary work ethic and consistently exceeding expectations. I take pride in my outstanding research and analysis skills which, combined with experience in utilising a wide range of industry specific software, enables me to confidently work on large scale multi-disciplinary projects.

**HORNBY, David**

Currently working as a Flood Risk Mapping and Data Management Officer for the Environment Agency.

**HORNER, David**

David is a Board member of a housing association and of a workspace project in Glasgow. Until recently he was the Project Manager working on long term strategic planning of housing for the eight local authorities which comprise the Glasgow & the Clyde Valley Strategic Development Planning Authority. During his career in the public and not-for-profit sectors, he has developed extensive experience of urban regeneration, including providing strategic leadership to regeneration programmes in Glasgow and Leeds. He has also been a guest lecturer and published a number of papers. David has a BSc (Strathclyde), MSc (Leeds Metropolitan), MEd (Glasgow), and is a chartered planner (MRTPI) and surveyor (MRICS).

**HOUGHTON, Frank**

Frank is MPH Program Director & Associate Professor at Eastern Washington University. Previously, he was a Lecturer at the Limerick Institute of Technology. He has a PhD in health/medical geography from the National University of Ireland – Maynooth, which explored the impact of the social environment (particularly social differentiation/ inequality) on health.

**HOWARD, Barry**

Barry is Director of Hunter Outdoor Training, an outdoor education and training company based in Leigh on Sea, Essex. He was a geographer teacher for over 30 years, including a Head of Department, in secondary education. His specialism was and still is fieldwork techniques, having led courses across the UK and in Iceland. After significant lobbying he persuaded the school to establish a new Outdoor Education Department which saw every one of the 1800 pupils undertake timetabled outdoor pursuits. This was repeatedly praised in three successive Ofsted inspections, and gained recognition from the Institute for Outdoor learning, and The British Sports Trust. In 1997 Barry was appointed Britain's first 'Outdoor Education Champion' by the then National Association for Outdoor Education. A major work has been compiling and maintaining the first UK Educational Visits National Accident Register. Barry is a Churchill Fellow (2002). This included incorporating his accident research in a study of Norwegian, Swedish, and Finnish education systems' visits safety. To date Barry has led over 170 residential courses and expeditions, and over 3,000 day courses. Over 2000 young people pass annually through the residential centre that he manages. The most recent (2008) initiative is being appointed Project Manager for a Centre of Excellence in Outdoor Education in south Essex, which includes a fully curriculum-linked investigation of a school site as a living environmental laboratory.

**HUBAND, Marcus**



and UK Engineering Council. His MSc dissertation investigated the then emerging geodetic changes within the OSGB regarding their height datums, the first major study into this area.

#### **HUNT, Paul**

Paul is currently Head of Geography at The Appleton School. Prior to this he was Head of Humanities at St Peter's High School and Technology College. He has a BSc in Geography from Queen Mary, University of London, a PGCE from the University of East Anglia and an MA in Geography in Education from the Institute of Education. Paul has produced several Geography CPD toolkits for the Specialist Schools and Academies Trust. Current interests include developing Podcasts for GCSE students and interactive whiteboard materials for KS3 and 4. Paul is an active member of the Mid Essex Geography Network meetings.

#### **HUNT, Simon**

Simon currently works in London as a Senior GIS Professional for the global engineering and project management consultancy Jacobs and has over 15 years' experience providing GIS data management, spatial analysis, database development and mobile mapping expertise as well as bid and proposal support. During his career, he has supported projects across a wide range of disciplines, including environment, water, highways, rail, transport and urban planning and has been seconded into positions on high profile infrastructure projects such as the London 2012 Olympic Games, High Speed Two (HS2) and public-sector clients including Transport for London.

#### **HURT, John**

John is a geography and History teacher at Seoul International School in Seoul, South Korea, prior to which he was a High School Social Studies and Geography Teacher in Colorado, USA. John has a BA (Hons) in Geography from University of Durham, a Teaching Certificate from Department of Education State of Missouri, a Master of Education and MA in History from University of Missouri. In addition to his role as a teacher, John is an active member of the Colorado Geographic Alliance and the National Council for Social Studies. John received international recognition when he received the National Council for Geographic Education's Distinguished Teaching Award in 1999. John is also an endorsed consultant with The College Board in the United States, and in this capacity conducts workshops at both the western regional and national level for new and experienced Advanced Placement Human Geography teachers. He has also recently published an Advanced Placement Human Geography Test Prep book, which he co-authored with his wife, Shanna Hurt (listed as a 2008 publication: ISBN-13: 978-0-13-173210-0). This is a test prep book for the Advanced Placement Human Geography examination specifically to accompany 'The Cultural Landscape: An Introduction to Human Geography,' 9th. edition, Pearson Prentice Hall, by James Rubenstein (one of the major Advanced Placement Human Geography texts).

#### **HUSSEY, Margaret**

Margaret Hussey is a Geospatial Analyst employed by the MOD's Defence Geographic Centre. She joined the organisation in 1978 and has experience in conventional and digital cartographic production delivering a wide range of maps, charts and geographic data products. She has been involved in the development of product flowlines and has delivered training to support the production of digital geographic data, as well as being responsible for the procurement of equipment, goods and services in support geospatial operations. She has also represented the organisation at multi-national co-production working groups. Her current post requires a good in-depth knowledge of DGC's products and processes in order to facilitate Continuous Improvement activities across the organisation to streamline processes. She is also supporting the implementation of a major project to improve the way geospatial information is advertised/disseminated to customers. She is a Fellow of the Royal Geographical Society (with IBG) and Member of the British Cartographic Society.

#### **IMMS, Eseld**

Eseld has an MSc in GISc from Birkbeck University of London. She works currently as a GIS Specialist in the Environment Division for Mott MacDonald - a global engineering, management and development consultancy – in a dynamic, client facing role, combining excellent interpersonal and communication skills with a solid background in environmental management, EIA and GIS, including spatial analysis, data and information management, figure production, process management, mobile data collection, quality assurance, project and team management and provision of training. Eseld lead the Data and Information Management GIS team across a consortium of three companies and numerous sub-contractors working on the EIA for High Speed 2 and she is involved in a number of activities to raise the profile of Geography and use of Spatial Data across Mott MacDonald and beyond. In her spare time Eseld provides GIS support to conservation efforts, protected area management and biodiversity monitoring projects on a number of Caribbean islands and works as a

volunteer for MapAction, a humanitarian mapping and information management organisation providing rapid response to disaster hit areas. She has a BA (Hons) in Geography with Cultural and Community Studies from the University of Sussex and more than fifteen years' experience working in project management, consultancy and development roles for commercial and not-for-profit organisations, internationally and in the UK.

**INCE, Matthew**

Matthew holds a BSc (Hons) degree from the University of Exeter and an MSc in Catchment Dynamics and Management from the University of Leeds. He has been working in the Atkins Rivers & Coastal team based out of Bristol since 2008. Matthew's expertise is primarily with delivery of hydrodynamic modelling (1D/2D), flood risk assessment and Geographical Information Systems (GIS) solutions for a range of public and private sector clients. Aside from his experience in flood risk management, he has also been involved with projects on water resource management, habitat creation, climate change and strategic flood and coastal management. Matthew is a proficient GIS user with significant experience in ArcGIS, SAGA, QGIS and MapInfo for flood risk mapping, data analysis and management applications. He also has a particular interest in the development of open source GIS solutions.

**INKPEN, Robert**

Robert is a Senior Lecturer in Geography at University of Portsmouth. He has a BA in Geography from Hertford College, Oxford and a PhD from University College London. Robert's research interests focus on geomorphology and weathering, and he has recently published a book on the philosophy of physical geography. Robert uses photogrammetry and DEM to investigate landslides and more recently has begun focusing his research on historical geography, looking at stone degradation.

**IRVINE, Louise**

Louise is an experienced GIS and Information Management professional with 13 years' GIS experience in a variety of sectors including engineering, highways, utilities (water, power and telecomms) and government. Louise has been involved on projects for central government agencies (e.g. Highways England, the Environment Agency (EA)), local authorities and the water and power utility companies providing consultancy, support and analytics at a range of scales from national to local. Louise's work has focused on the bringing to bear the benefits of spatial analysis and awareness and good data management for cost-effective business strategies and operations. As a spatial solutions specialist, Louise uses her knowledge of GIS capabilities and applications to identify and assess business problems and to provide efficient and robust solutions to support the client's needs. Louise is a champion for the implementation and understanding of appropriate QA/QC processes and the importance of standards and governance to really support deliver sustainable quality within projects and across enterprise asset information systems and the use of GIS in delivering BIM.

**JACKSON, James**

James is an Urban Designer / Landscape Architecture / Artist / Educator based in Bristol & East Midlands. He has over 16 years' experience in community and third sector regeneration and is a Registered Practitioner of the Urban Design Group; Academician and Mentor of Academy of Urbanism; Practitioner of the Urban Design Group; Fellow of the Geological Society; Associate of the Institute of Environmental Management and Assessment; Ambassador for Education for the Landscape Institute and Member of the Geological Association. He has led and designed schemes all across the UK, Germany, USA and Canada. He has significant experience of community engagement, environmental education, master planning and urban design, brownfield regeneration, street sports, natural play and third sector landscape / urban designs. He represents the South West region upon the National Judges Association for the governments Green Flag scheme. Currently he is the Chairman of the Place group which was part of Bristol's European Green City Partnership for 2015 and beyond.

**JAMES, Phillip**

Phillip James is a Senior Lecturer in GIS at Newcastle University. After graduating with a degree in Japanese he worked for Nissan as an interpreter before returning to academia as an IT advisor. Working with colleagues in the then Surveying department he developed extensive experience in the use and development of range of GIS systems, software and data leading to a formal academic role within the department. Currently his work centres on the application of geospatial technologies to engineering problems in climate change adaptation, transport modelling and urban systems. He is interested in the fusion of crowd sourced geospatial data and urban sensor systems as geographical tools.





.....

same institution. During his time in the DGC he has worked on a wide variety of projects in many different roles. During the first Gulf War he was the lead for RAF Operational Support at the DGC, in recognition of which he was invested as a Member of the Order of the British Empire (MBE). He was the UK lead for a major joint US/UK project, spending eight months in Valley Forge Pennsylvania, working on system familiarisation and course design. More recently he enjoyed a temporary promotion to the post of Director International, during which time he travelled extensively on a global basis to negotiate access to geospatial material from other countries. He became President of The British Cartographic Society in November 2012.

**JONES, Simon**

Simon is currently Associate Dean, Student Experience in the Faculty of Business and Law at Leeds Beckett University. Previously he was Senior Lecturer in Environment and Technology at the University of Wales. He holds a PhD in Geography and MSc in Estuarine and Coastal Science and Management from the University of Hull, and BSc Geography from the Polytechnic of North London. Simon's interests are diverse and range from the subject specific (coastal and environmental science, environmental politics and the media interpretation of environmental phenomena/hazards) to the pedagogy and practice associated with geography and environmental sciences and thus student experience. As a member of the RGS Regional Committee for the South West and South Wales, Simon regularly organised lectures and field courses to promote geographical topics in the general public; and is regularly invited to publish and broadcast on topical geographical issues. Simon's research continues to be diverse, and includes investigating UK/Dutch/EU coastal zone policy, marine environmental conservation in the tropics, and the Welsh Assembly Government's implementation of coastal environmental law.

**JONES-EVANS, Alice**

Alice is an Engagement Manager at Esri UK working within the Professional Services Central Government Practice. Prior to this Alice has worked as the Corporate GIS Coordinator for English Heritage, at Atkins and the Veterinary Laboratory Agency. Alice has a BSc in Geography and an MSc in Geographical Information Science both from the University of Edinburgh. Alice is a RGS Ambassador and was an AGI council member 2008-2010.

**JORDAN, Russell**

Russell has over 10 years' experience of working with GIS in both public and private sector environments following the completion of a BSc in GIS and Computing in 2002. As a Senior GIS Consultant for RPS he provides input to a wide variety of projects including offshore renewable energy assessments, radiologically contaminated land investigations, ecological impact assessments and environmental monitoring programmes for operational energy and waste facilities. The role requires a clear understanding of data management, analytical techniques and cartographic visualisation with typical activities including thematic mapping, 3D modelling, automated data manipulation and constraints assessments. Russell provides software training, best practice methodologies (including quality assurance), and technical guidance on a regular basis in addition to GIS project management and support with knowledge and understanding of a number of mapping and data management software packages. In previous employment Russell worked for the GIS department of the Welsh Government supporting with a wide range of national initiatives that included travel time analysis for emergency health services, analysis of free school bus catchments and contributing to the mapping input of the Welsh Index of Multiple Deprivation. Russell has also worked for a contracting company of Dwr Cymru Welsh Water (DCWW) supporting the periodical sampling and refurbishment of the region's water and sewer main network.

**JOSEPH, Margaret**

As a member of the Model Product Management group (part of Model Development) at catastrophe modelling company Risk Management Services (RMS), Margaret is responsible for RMS tropical cyclone models for the Asia-Pacific, including Japan Typhoon, China Typhoon and Australia Cyclone, and also works on models under development in the western North Pacific. At RMS she has worked in the Catastrophe Response team for significant global natural catastrophe events through 2010 to 2013. Margaret holds an MSc in Remote Sensing from University College London and a BSc in Physical Geography from the University of Southampton.

**JOY, Suzanna**

Suzanna Joy is an Associate within Ove Arup and Partners International Ltd, leading on Cultural Heritage. Suzanna undertakes research and assessment work providing advice to a range of clients within the UK and

overseas, on the archaeological and cultural heritage implications of developments and other projects undertaken by Arup. Suzanna is experienced in the use of GIS software providing mapping and undertaking site analysis using various GIS packages. Suzanna develops and manages strategies for mitigating the impact of large scale infrastructure projects on archaeology and has recently worked on Crossrail and Thames Tideway Tunnel. Before moving to the UK, she was employed for six years as a cultural heritage consultant in Australia working throughout Queensland with local indigenous groups.

#### **JUSTHAM, James**

Jamie Justham founded Dotted Eyes in 1990. As a marketing consultant, he found himself creating a spreadsheet of business information for each client, and realised that there was always an associated map on the wall. Sometimes the map would show sales territories which were being reorganised, sometimes the response rate of regional advertising campaigns, sometimes the physical distribution premises and logistics. The Dotted Eyes business is the result of Jamie's determination to connect the information held in spreadsheets with the associated objects portrayed on maps. The company continues to specialise in the services of consultancy and development in the market for Geographic Information Systems (GIS). In 1993 Jamie conceived and created The Times World Map and Database, a pioneering consumer product which paved the way for interactive maps on CD-ROM and later on the World Wide Web. In 1995 he radically simplified the process of ordering raster images of Ordnance Survey maps by creating a promotional CD-ROM which included a graphical tile selector as well as sample tiles in a wide range of formats. Dotted Eyes then became one of the earliest resellers of value-added products based on data sets such as those published by Ordnance Survey, and the company has generated substantial and continuing growth by opening up new markets for digital mapping solutions. Dotted Eyes has introduced many innovations in the way geographical information can be collected, shared and used over the Internet. Jamie's passion for standards-based interoperability is widely acknowledged, and under his leadership Dotted Eyes has developed software which enables hundreds of organisations to make the most of their investment in data sets such as OS MasterMap.

#### **KAGAWA, Ayako**

Ayako Kagawa is a Geographic Information Officer at the Geospatial Information Section of the United Nations (UN). She delivers geographical solutions into the UN peacekeeping operations and sustainable development issues; provides guidance on international boundary and disputed territorial issues and produces cartographic and geospatial services to United Nations senior management. She served as the first Chief GIS in the United Nations Disengagement Observer Force (UNDOF) where she was involved in developing the first topographic maps by the UN. In her first assignment with the United Nations, she served with the United Nations Office on Drugs and Crime (UNODC) developing geospatial products to demonstrate the potential use of remote sensing (RS) technology in illicit crop monitoring. She has over 20 years of working experience in geographical issues both at national and international level. After obtaining a Geography degree with a focus on cartography and urban planning, she provided international conference management service to Japanese national geospatial authority. Following her graduate degree in GIS for urban planning and management for developing economies, she taught GIS and RS to mid-career professionals from developing economies but also carried out research on urban land and tenure and its socio-economic impact for low-income groups due to her interest in linking socio-economic and geographical perspectives.

#### **KARPINSKA, Alicja**

Malgorzata Alicja Karpinska started her cartographic career by independently designing her first 1:50000 Tourist map while still at the University. She holds an MSc degree in Cartography and is also a keen photographer, certified to National BTEC Level3 Diploma. She has worked for 13 years internationally as a Cartographer for Ordnance Survey and other cartographic companies. She is responsible for updating, editing, generalising and quality controlling databases and production of Explorer maps. She uses different GIS applications to investigate, extract and manipulate data in order to apply the relevant information. She cooperates closely with other carto-designers offering expertise in cartographic design and visualisation of spatial data, assisting in their projects. She wrote papers, made posters, hosted workshops, and presented at numerous carto & geo events. Currently she is working with software developers on best practice for the new GIS, ArcMap based editing system to achieve most efficient working methods using automation techniques and creating new tools. She is also now involved in hosting a series of Carto-design and GIS workshop at the Geovation Hub.

#### **KAVANAGH, James**

James Kavanagh BSc (Hons) MRICS C.Geog CEnv is a Chartered Land Surveyor, Chartered Geographer and Chartered Environmentalist. James studied Geo-Survey at DIT, Ireland and Surveying & Mapping at UEL. He has worked on some of the largest civil engineering projects in Europe, including Canary Wharf and Broadgate - London and spent several years mapping refugee camps in the Middle East whilst working for the United Nations. James has broad experience of surveying in many countries around the world, including the Seychelles, Belgium, Palestine, Philippines, Syria, and Egypt. James is currently Director of Land, within the professional Groups and Forums department of The Royal Institution of Chartered Surveyors (RICS). The Land Group contains the professional practices areas of Environment, Geomatics, Minerals & Waste Management, Rural and Planning & Development and contains over 26,000 members.

**KEDAR, John**

John Kedar is Director Strategic Business Development for Ordnance Survey International, a two year old LLP selling Ordnance Survey knowledge and expertise on a Government to Government basis. He is responsible for offering long-term support to overseas government agencies, including working to embed fit-for-purpose and cost-effective national mapping, addressing and information sharing solutions as an important building block in a knowledge-based economy. John left the British Army to join Ordnance Survey International in 2013. He has 30 years' experience across a range of intelligence, geospatial and operational positions, including as the first UK Chief J2 in Afghanistan and commanding the 650 strong Joint Aeronautical and Geospatial Organisation responsible for delivering geospatial support and aeronautical information to Defence in peace and war. He has seen service in Central America, the Balkans, Cyprus, Afghanistan, Iraq and across the Gulf and attended both the Army Survey Course and Army Command and Staff College. In 2012, as deputy to the British Army Engineer-in-Chief, he led the design and implementation of one of the four new Army Capability Directorates established to deliver a battle-winning Army of the Future. John has developed government policy and strategic direction for geospatial intelligence and played a key role in furthering the role of geography on successful military operations, disaster relief and the London 2012 Olympics. John is married with two children and lives near Pangbourne in Berkshire. He has just ended his tenure as Vice Chair of the National Autistic Society, a £90 million turnover charitable business. He was a contributor to the United Nations Future Trends in Geospatial Information Management published in 2013, is a Fellow of both the Royal Geographical Society (with IBG) and the Institute of Royal Engineers and is a Chartered Geographer.

**KELLY, Amy**

Amy has a BSc in Geography from Loughborough University and 7 years' experience working as a GIS Consultant. Amy is currently a GIS Consultant at URS Infrastructure and Environment UK. As part of the dedicated GIS team at URS Amy works on a wide variety of UK and international projects for both internal and external clients, involving data creation, data management, data visualization, spatial analysis, mobile GIS and web GIS solutions. Prior to working at URS Amy worked for GIS consultancy and software developers ACTIVE Solutions.

**KELLY, Owen**

Owen is the team leader of the Statutory Processes team within the Environment Division of Mouchel Limited. He manages teams working on major infrastructure projects who are responsible for the collection and collation of land ownership and occupier details during the planning and consultation stages of projects to ensure legal compliance in terms of the statutory documentation required, as well as providing support during the development and construction of these projects once the powers have been gained by ensuring that affected parties are correctly notified in accordance with the relevant legislation. This involves the managing the data input and data manipulation on the dedicated database and GIS systems used for these projects. Major infrastructure projects that he has been involved with include High Speed 2, the redevelopment of Birmingham New Street Station, Thames Tunnel project, Crossrail and the Thameslink Programme.

**KEMELING, Ilona**

Ilona is a consultant in the water industry with a background in agriculture and physical geography. Ilona has worked in development and research projects in Africa, Asia, the US and many countries in Europe, as student and postgraduate researcher. Her fields of expertise are geospatial analysis and interpretation and management of large datasets, using relational databases, GIS and statistical methods. Ilona has MSc degrees in 'Erosion and Soil & Water Conservation' and 'Geographical information Science', both from Wageningen University in The Netherlands. For her PhD at the Geography Department of the University of Durham, she developed a subsidence model and tested Remote Sensing technology for a mining company in the UK. For her current employer MWH, Ilona has worked on a number of asset management projects for

different water companies in the UK. Her responsibilities include leading and developing methodologies to process and analyse geographical data. She is an active member of the international GIS community and is currently based in Edinburgh.

**KERVELL, Andrew**

Andrew is a Masters qualified engineer, with over 12 years' experience in the application of spatial technology and data management within hydrology, infrastructure engineering and humanitarian development. Andrew has worked around the world, including four years in Cambodia, where he worked on a capacity building project training local government staff in the use of GIS and GPS within landmine clearance planning. Andrew currently works for Arup (consulting engineers) integrating the use of spatial technology and techniques in large civil infrastructure projects such as Crossrail. Andrew is also a deployable volunteer with the disaster rapid response charity MapAction, and was deployed to Pakistan in support of the 2010 flood humanitarian response.

**KEYWORTH, Steve**

Steve is a Director of Environment Systems with strategic and technical consultancy skills in GIS and remote sensing combined with demonstrated project management expertise. His experience ranges from strategic European landscape scale projects to large scale, parcel level studies. Steve has a BSc in Geographical Science from the University of Portsmouth. After graduating he joined Adas (a government agency within the Ministry of Agriculture, Fisheries and Food which was then privatised in 1999). In 2003, Steve and two colleagues set up Environment Systems Ltd, a geographic and environmental information consultancy, as a spin out company from the University of Wales Aberystwyth. He currently has responsibility for business development activity and the development of strategic partnerships. Steve is a past Chair of AGI (Association of Geographic Information) Cymru and provides industry support to Masters programmes in GIS and remote sensing at Aberystwyth and Leicester.

**KHAN, Saeed**

Saeed is Associate Director and GIS Manager at RPS Group Ltd Ireland. He has a BSc Degree in Forestry from Pakistan and holds an MSc Degree in GIS from Wageningen University in the Netherlands and a Post Graduate Diploma in Management of Technology from Dublin Institute of Technology Ireland. Saeed joined RPS Group in 2000 as a GIS Analyst and worked on a variety of engineering and Environmental projects. In his current role he is leading a team of GIS Specialists and is responsible for GIS Helpdesk, spatial data capture, maintenance, management and is providing GIS training, staffing and budgeting for GIS related activities in various projects. Saeed has been nominated as GIS Manager for major environmental and engineering projects and delivered GIS and mapping support to multi-disciplinary project teams. He has gained broad experience in managing the GIS sector and promoting the use of GIS within the organisation and in the wider community. He has designed and developed number of spatial and relational databases such as landownership database and farms and environmental surveys databases and holds first rate experience of working with the terrain analysis, remote sensing and digital cartography/mapping. Saeed has also been involved in the production and management of legal mapping for Compulsory Purchase Order, Compulsory Acquisition Order and Wayleaves. He is actively involved with the GIS community in Ireland and abroad through attendance in conferences and symposia in order to stay apprised and promote the use of GIS.

**KHALFAOUI, Ava**

Ava is a teacher of Geography at South Island School in Hong Kong. Ava has a BSc (Hons) in Environmental Management and a PGCE in Secondary Geography both from Durham University and recently completed an MA from Kings. Ava is currently studying for an EdD at Durham University. Ava has also completed an Open University course entitled Learning for Schools Programme.

**KIERAS, Mark**

Mark enlisted into the British Army in November 1989, joining the Corps of Royal Engineers. His early years saw him qualifying as a Field Surveyor where he deployed on survey tasks around the world, including Cyprus, Oman, Norway, Brunei, Trinidad, and numerous countries within West Africa. In 1998, whilst



.....

dissertation investigated Year 7s perceptions of geographical knowledge, and is hoping to embark on an EdD at the University of Cambridge in October 2012.

**KITSELL, Adrian**

Adrian Kitsell has worked for the UK Ministry of Defence since 1988, starting out as a Cartographic draughtsman. He was also trained in aerial survey techniques and kept pace with technology, progressing through analogue plotting machines to digital map production. In 1995 he moved from series mapping to develop 3D Scene Visualisation products in support of Military planning and Operations. With considerable experience in photogrammetry and remote sensing, Adrian has filled various advisory and management positions over recent years. Currently he heads the Geospatial Science department of the Defence Geospatial Intelligence Fusion Centre, in Cambridgeshire.

**KNIGHT, Peter**

Peter is Senior Lecturer in Physical Geography at Keele University. Peter has a BA in Geography from University of Oxford and a PhD in Geography from University of Aberdeen. Peter has a significant number of publications and has received research grants from the Royal Society, the Leverhulme Trust and NERC. He is also actively involved with the Geographical Association and has recently published a book in their "Changing Geography" series aimed at 16-18 year olds. Peter was awarded a Higher Education Authority National Teaching Fellowship in 2008.

**KULKARNI, Amol**

Amol is a GIS Professional working in the Water/Wasterwater industry with a Civil Engineering, Remote Sensing and GIS background. His areas of expertise are geospatial analysis and interpretation and management of large datasets, using GIS, relational databases (RDBMS) and Fleet Management, Amol has M. Tech (Master of Technology) degree in 'Remote Sensing and GIS; from India's premier institute, Indian Institute of Remote Sensing (IIRS), Dehradun affiliated to Andhra University. He has done research and development projects in India on different levels of involvement, from high level technical to grass root level socio-economic data collection, as a student and postgraduate researcher. He worked on Hydrological Modelling and Conservation Planning using a Geo-spatial approach for development of a planned township for a construction company in India. In his current role with MWH as Sr. GIS Analyst, Amol worked on many asset management projects for different water companies in the UK, US and Asia Pacific. He is currently managing a GIS team of four GIS engineers and his responsibilities leading and developing methodologies to process and analyse geographical data. He is based in Pune and active member of the international GIS knowledge community in MWH.

**KYTE, Peter**

Peter has dual Chartered Town Planner (1985) and Chartered Geographer (2004) status, has been a town planner for 20 years and is the Principal of the planning consultancy, Peter D Kyte Associates, and Planning Director of Enabling Projects Ltd. He is also an approved assessor (2007) for the EcoHomes and Code of Sustainable Homes methods of assessing the sustainability of residential developments. His broad ranging work focuses on the formulation, submission and negotiation of a wide range of urban projects, addressing development problems, resolving issues and creating community benefits. More recently he has set up a new initiative as an Urban Photographer, which he has called FOTOG. Peter seeks to photographically celebrate all that makes up our urban and social environment - cultural events, festivals, people in the street, people at work, people at play, architecture and open spaces, regeneration and community action projects.

**LAMBLE, Darren**

Darren is an experienced GIS Analyst and Project Manager currently responsible for managing geospatial projects and data analysis for a UK/Europe-based group of information businesses owned by a global media company. As part of this role, Darren investigates the whole data lifecycle from initial evaluation through to implementation and configuration for new innovative business products and data solutions. Darren is a PRINCE2 practitioner, a GIS postgraduate and a keen geographer with professional interests in: Geo-spatial data; GI project design and mobile technologies. Darren's professional background is varied and includes appointments in both private and public sector organisations including: South West Water; Dartmoor National Park Authority; and more recently the UK's leading supplier of land and property search information, Landmark Information Group, who provide digital mapping, planning and environmental risk information.



where until recently she was an external examiner. She is a Visiting Professor at the Department of Geography in the Faculty of Science, Kingston University, and at the Department of Geography at the University of Southampton, where she was appointed a member of the Council in 2002. She is a Companion of the Chartered Management Institute, a Fellow of the Royal Institute of Chartered Surveyors, and a member of the Council of the Royal Geographical Society.

#### **LEAVER, Matthew**

Matthew is a GIS professional with nearly 12 years' experience in the GIS industry. He is currently the GIS lead for Hyder Consulting UK. My remit is to develop the use of GIS across the business and develop a centre of GIS expertise. Matthew leads the UK GIS team and our work covers GIS and data management support for ecology, environment, contaminated land, highways, geosciences and flood risk. He also manages GIS projects for external and internal clients. Matthew has worked with ESRI, MapInfo, Cadcorp and open source GIS software, including both desktop and server side technologies. He has excellent knowledge of SQL Server and PostgreSQL (PostGIS) and has used both for spatial data management and analysis. He has a great interest in database technology and enjoy applying this to provide innovative solutions for projects. Matthew is interested in applying GIS and data management to the built environment and is currently leading a number of development projects for Hyder related to the integration of GIS, BIM, geotechnics and land quality information. Matthew lives with his wife and son in Bristol and in his spare time enjoy gardening, walking, brewing, music and reading.

#### **LEE, Andrew**

Andrew is Head of Juniors at St Paul's School (Colet Court), London. He has a DPhil in Social Geography from the University of Oxford, having been supervised by Professor David Harvey, a BA (Hons) (Sydney) and a PGCE (Geography) South Bank, London. He has taught at Hertford College, Oxford where he was College Lecturer in Geography and in the Department of Geography at St Paul's College at the University of Sydney. He has also taught at Westminster School, London, The Dragon School, Oxford and Cranbrook School in Australia. He sits on the Geographical Association's Independent Schools Committee and runs professional development courses/lectures for the Geographical Association, SATIPS (Geography) and the IAPS. He is currently also organising school expeditions and developing curriculum material. He runs a geography website [www.thinkinggeography.com](http://www.thinkinggeography.com) and is an Apple Distinguished Educator. He is also the Editor of the Philip's Australian School's Atlas.

#### **LEE, Janette**

Janette Lee graduated with a BA (Hons) degree in Geography in 1985, MSc in Computer Science in 1986, and a PhD in Geography (GIS) in 2004. With combined skills in geography and computer science she has been involved in the development and application of GIS for over 25 years. Working as a support consultant for a GIS software company and subsequently as a university lecturer in GIS and a senior GI scientist, Janette has a broad range of experience within academia, local and national government, and the commercial sector. From 2002 to 2007 she was employed by the Ministry of Defence at the Royal School of Military Survey where she was head of the GIS training department. More recently, from 2007 to 2016, Janette has been the senior GI scientist at Centre for Environment, Fisheries & Aquaculture Science (Cefas) where she provided technical GIS leadership, training and advice to UK government and in support of commercial contracts. In April 2016 Janette established Leegis Consulting Limited, a specialist consultancy offering data and environmental consultancy services.

#### **LEE, Wai-Ming**

Wai-Ming (known as Ming) is the Manager of Online Operations at Esri UK - developing and commissioning a range of cloud based GIS services and plays a central role in further delivering these services to the GIS community. He has also held roles as a consultant, trainer and technical lead at Esri UK since joining in 2002. Prior to Esri UK, Wai-Ming has also for 6 years as a GIS consultant for World Bank, DfID and UN projects at Hunting Technical Services (now HTSPE Consulting) in Africa, Asia and South America. In addition to his work, since 2004, Wai-Ming has been a member of MapAction, a unique mapping charity specialising in GIS and information management during humanitarian disasters. This group deploys volunteers on site to assist with the immediate relief efforts. Wai-Ming has deployed to many countries, including Sri Lanka, Pakistan and Philippines. Wai-Ming has a BSc in Environmental Management from the University of Durham, an MSc in Geographical Information Systems from the University of Edinburgh and an MSc in International Development Management from the Open University.

#### **LENGTHORN, Elena**

.....

Elena gained her BSc Geography at Brunel University, which she followed with postgraduate teacher education at Goldsmiths College, London. She later gained an MSc in Science Media Production from Imperial College, whilst working in Secondary science education in South East London. She became a Fellow and Chartered Geographer of the Royal Geographical Society in 2014 and was awarded the Think Global 'Educator of the Year Award' in 2016.

Elena began her career in higher education after 15 years in Secondary Education, where she worked in roles including Teacher of Science, Teacher of Geography, Eco-Schools Co-ordinator, Global Learning Programme Expert Centre Co-ordinator, Charities Co-ordinator and Associate Assistant Head Teacher, with responsibilities for SMSC and managing Business and ICT.

Elena teaches both geography and science education across the primary and secondary centres on undergraduate and postgraduate courses. She is currently working on two L&T projects on 'Embedding the SDGS in ITE' and 'Education at the Hereford Water Works', as well as supporting a Flood Education Initiative in conjunction with Lancaster University, HWF&R, the Environment Agency and the Met Office.

### **LENON, Barnaby**

Barnaby is Head Master at Harrow School. Barnaby has a BA in Geography from Keble College Oxford and a PGCE from St Johns College Cambridge. Barnaby has taught at Sherborne School, Eton College and been Deputy Head at Highgate School and Headmaster at Trinity School, Croydon. Barnaby has produced a number of textbooks on London, the UK and Fieldwork Techniques. Barnaby has led expeditions to Tunisia, Jordan, Iran, Iraq and the Yemen. Barnaby is Chairman of the Education Committee of the RGS, and was Chairman of the Young Members Committee of the RGS and a Council member of RGS.

### **LEVY, Steve**

Steve was founder of a wind energy company serving North America to provide expertise and utility-scale wind turbines for onshore and offshore wind projects. He also consults and advises for wind projects globally, especially in Vietnam, where he has worked over many years and recently started a new company in Lithuania to promote renewable energy, agro-tourism, sustainable forestry and production of value-added wood products in the Baltic states and Ukraine. Steve has been a physical and cultural geography instructor at several colleges and also developed a number of field courses. He earned an MSc degree in geography at Portland State University in Portland, Oregon and has worked as a geographer at the National Geographic Society and for the U.S. Forest Service.

### **LEWIS, Debra**

Debra Lewis is a Principal GIS Consultant with 17 years experience in the management and production of graphics for Environmental Impact Assessment. She graduated in 1999 with a BSc (Hons) 2:1 Mapping Information Science focussing on cartography and geomatics. She has considerable experience in the use of GIS systems to record, analyse, evaluate and present detailed data.

She has specialist skills using ArcGIS, ArcGIS Online, MapInfo GIS, ReSoft WindFarm, and Adobe Photoshop and Illustrator. Supporting EIA, Planning & Design and International Projects Group teams with all their technical mapping requirements. This has included capture, collation, analysis, management and presentation of detailed environmental and geotechnical data.

She has worked on numerous projects to date, including GIS and graphic production for the Environmental Assessments of pipelines, cable routes, wind farms, power stations and housing developments. Creating interactive GIS in desktop and WebGIS form.

Her role includes data management; creation of web applications; creation of customised GPS field survey sheets; querying data and spatial analysis; thematic mapping; application of symbology and styles, presenting data using map, app and graphic formats.

Debra is responsible for the production and technical review of 3D visualisations and uses industry leading modelling software to produce photomontages and zone of theoretical visibility (ZTV) figures for visual impact assessment.

With excellent presentation skills, organisation and project management skills, she has a vast experience of project managing and coordinating the production of visualisations and other graphics following current best practice guidance.

### **LEWIS, Michael**

Michael is Head of Geography at Pitsford School in Northamptonshire. He is a Fellow of the RGS-IBG and also the Royal Meteorological Society. Michael is heavily involved in his local community, and spends much of his time working on the Pitsford Hall weather station. For this, Michael produces local weather reports and has made the weather station one of the country's leading sources of weather and climate data. He has

published several articles around his work with the weather station, and has contributed to numerous websites and online resources.

#### **LEWIS, Shaun**

Shaun graduated from Aberystwyth University in 2009 with a Distinction in GIS and Remote Sensing (MSc). Shaun spent the first 6 years of his career working at Brecon Beacons National Park Authority as their lead GIS Officer. Here, he managed their spatial data infrastructure, conducted complex analysis, project managed spatial related projects, liaised with managers, stakeholders and contractors, and provided technical support and training to colleagues and volunteers. Shaun's main legacy at the National Park will be the improvement of the spatial data infrastructure and the delivery of Geographical Information using Open Source solutions. This included replacing all MapInfo Professional software with QGIS, and migrating Geographical Information from flat files to a PostGIS database. Shaun recently joined the Water Services Science team at Dŵr Cymru Welsh Water, and is looking forward to the challenges ahead in the next chapter of his GIS career, where he'll be helping to develop GIS and remote sensing models to identify the source of water quality risks.

Shaun is keen to learn from, and work collaboratively with others, and being actively involved in the steering group for AGI Cymru allows him to do this. Shaun is proud to have been one of the first local authorities in Wales to migrate from propriety to open source GIS. He helped to set up and co-organise an open source GIS user group in Wales, which has benefited both public and private sector organisations for the past 4 years.

#### **LEXARTZA-ARTZA, Irantzu**

Dr Irantzu Lexarta-Artza is a Senior Scientist in the Hydro-Geomorphology team, part of the larger Water Environment and Flood Risk team in Arup. Irantzu has over ten years of professional experience, having worked in academia at the Catchment Science Centre at the University of Sheffield, where she was based at the Department of Geography and worked mostly on catchment processes with a focus on hydrological and sediment connectivity. After a short stint in the public sector, she then moved to a career in consultancy, where she currently works on a range of projects applying geomorphological principles and collaborating with other disciplines in areas such as: River Restoration and Rehabilitation advice, design and site supervision; morphological aspects and implications of Flood Protection; erosion protection and management; Water Framework Directive (WFD) compliance assessments, etc. Irantzu regularly participates in networking activities with other professionals in the field and she also provides mentoring to younger colleagues and undergraduate and graduate Geography students.

#### **LIM, Michael**

Michael graduated with a degree in Geography from Durham University where he continued to conduct doctoral research into coastal cliff behaviour. Following a post-doctoral research position at the School of Civil Engineering and Geosciences at Newcastle University where he developed new approaches to detect and predict failure in earthworks, Michael returned to Durham for 4 years in order to further his research on coastal slope geomorphology. He then continued his research at Northumbria University, expanding the application of his research to new environments. The various aspects of his work remain unified under a common aim to quantify and analyse the geomorphic responses of slopes to variations in controlling conditions. Michael has considerable experience in the application and integration of approaches such as terrestrial and airborne laser scanning, digital photogrammetry, field-based environmental monitoring and numerical modelling in order to provide more complete assessments of the precursory, failure and post-event behaviour of slopes.

#### **LINLEY, Kathrine**

GIS practitioner with a broad range of experience in minerals, mining and geology related project work. Has held various posts within the BGS and traveled widely.

#### **LINNELL, Andrew**

Andrew has studied at the Universities of Salford & Keele and Mid-Kent College of Further & Higher Education, Rochester. He has taught since 1978. He was the headteacher of Reading School (from 1997 until 2005) which became one of the first specialist geography schools in 2005. From 2005 he has been headteacher of Desborough School, a boys' comprehensive school in the Royal Borough of Windsor and Maidenhead. This school holds an International School Award from the British Council/DCSF and has the Prince of Wales Teaching Institute Mark (awarded November 2009). Andrew was elected an Associate Member of RGS in 1977, has been a Fellow of RGS-IBG since 1983 and a Chartered Geographer since

2002. He was the Vice-President (Education) of the RGS-IBG from 2006-2009. He has been one of the Final Assessors for the Chartered Geographer Scheme for the past 5 years.

#### **LIVINGSTONE, David**

David is Professor of Geography at Queen's University, Belfast. David has a BA (Hons) in Geography, a DipEd and PhD all from Queen's University Belfast. David's main research interests are the history and theory of geography, cartography, and scientific culture. David was awarded the Royal Geographical Society (with IBG) Back Award and the Centenary Medal of the Royal Scottish Geographical Society. David has been on the editorial boards of Annals of the Association of American Geographers, Transactions of the Institute of British Geographers, Isis, Ecumene, Progress in Human Geography, Journal of Historical Geography. David is also a Fellow of the British Academy, an Academician of the Academy of Learned Societies for the Social Sciences, and a Member of the Royal Irish Academy. David is also a Member of the Academia Europaea and got an OBE for services to geography and history.

#### **LONGMAN, Matthew**

Matt has over twenty years' experience working in the GIS industry for both the public and private sector. His career started as a land surveyor and soon progressed to managing digitisation projects for local authorities and utility companies. He then moved to the software division of CDR Group as an accredited MapInfo Software Engineer, where he took over responsibility for technical support of a range of bespoke GIS software applications and MapInfo products. During his time at Ashfield District Council he represented the East Midlands region within LOGGIC, won numerous awards for his work supporting the creation of the National Land and Property Gazetteer and received the prestigious Ordnance Survey award for Innovation in 2010. Matt joined Dotted Eyes in 2011 and managed the professional services team of consultants delivering consultancy engagements for a diverse client group. In 2014 he joined DNV GL as Lead Consultant within the Asset Integrity Management team supporting energy producers and distributors to manage their assets more effectively through location based damage prevention measures.

#### **LORENZ, Katharina**

Katharina Lorenz obtained a degree in cartography from the Technical University Dresden, Germany specialising in GIS and thematic cartography. She is now working as a Senior GIS and Remote Sensing Specialist at Environmental Research & Assessment Ltd., applying her skills to a range of projects covering research, commercial and NGO activities. To deepen her knowledge Katharina successfully completed a distance learning course at the University of Twente, Netherlands in 'Environmental Impact Assessment and Strategic Environmental Assessment Using Spatial Decision Support Tools'.

Katharina's expertise lies in utilising GIS for environmental management and environmental impact assessments in remote environments such as Antarctica and Africa. During her time at ERA Ltd, she has provided GIS support for various different projects ranging from the identification of Important Bird Areas in Antarctica for BirdLife International, to work for the extractive industry in Uganda and Kenya for Tullow Oil, Total and CNOOC.

Katharina is also a volunteer for MapAction, having joined the Operational Support Team in 2014 and transferred to the Deployable Team in 2016. Katharina has delivered training on behalf of MapAction in the UK and abroad and has participated in several earthquake simulation exercises providing a mapping cell.

#### **LOVELL David**

Dave is currently President of the Global Spatial Data Infrastructure Association, Chair of the Joint Board of Information Societies, a Board Member of the Association of Geographic Information, and a member of the UN-GGIM Expanded Bureau. Dave started his career with Ordnance Survey (Great Britain) and spent forty years with them in a variety of roles in Surveying, Sales and Marketing and concluded his time with them as their Head of Public Affairs. Between September 2007 and October 2015 he was Secretary General and Executive Director of EuroGeographics the International not-for-profit association representing 61 National Mapping, Cadastre and Land Registry authorities in 46 countries in Europe. EuroGeographics focuses on international knowledge exchange, delivery of the European Location Framework and a programme of strategic communications with the United Nations and European Institutions. He has been on the Council of the Association for Geographic Information and was an active Steering Committee member of the Intragovernmental Group for Geographic Information and was until 2014 a member of the British Geological Survey advisory committee.

#### **LYON, John**

John Lyon is currently Programme Manager at the Geographical Association (GA) and formally an Assistant Head at a large 11-18 comprehensive school in Rotherham. He taught geography for almost 30 years and has an NPQH qualification. He is responsible for the leadership and management of the GA's programme of support for teachers' professional development, including a range of projects such as the Paul Hamlyn 'Making My Place in the World' project and the development of the Secondary Geography Quality Mark. He has created and presented numerous CPD sessions including 'curriculum making' 'GIS', 'Cross curricular ways of working' and has contributed articles to journals and magazines, developed teaching resource packs and authored a chapter in a text book on 'Living Geography'.

**MAANI-HESSARI, Lewis**

I have an honours degree in Environmental Science and a Masters in Geographical Information Systems with specific expertise in the application of GIS to a variety of fields which include Flood Management, Risk Assessment, Transportation Management and Coastal and Environmental Management, in addition to the integration of GIS and Hydraulic modelling using HEC-RAS, HEC-GeoRAS and ISIS. As a GIS specialist and Ireland based GIS lead for the Global Jacobs Information Management & GIS team I have provided technical input to a wide variety of UK and Ireland based projects. With more than 6 years' experience in academic and consultancy environments I have been responsible for introducing efficiencies and streamlining processes through the use of GIS tools and systems to key public and private sector clients. A key driver behind my work the continuous development and application of GIS systems and processes to different projects and specialisms (Flood Risk Management, Environmental Management) and to increase knowledge/awareness of the application and benefit of the use of Geographical Information across these disciplines.

**MACVINISH, NINA**

GIS and BIM Specialist

**MADYAUSIKU, Kenneth**

Kenneth has five years' experience in applying Geographical Information Systems (GIS) to agricultural land use planning gained in Zimbabwe and more than three years GIS experience working for both Local Authorities and an Environmental Consultancy firm in the UK. Kenneth has a MSc degree in GIS with Remote Sensing from the University of Greenwich.

**MAHON, Andrew**

My current role is with the Metropolitan Police Service as a Senior Technical Specialist, focusing on GIS systems and processes. I have fifteen years' experience of working with geographic information. Before working for the MPS I have worked for a number of local authorities, including Vale Royal Borough, Stroud District Council, LB of Enfield and Dartford Borough Council. I worked on the Olympics to deliver a number of strategic mapping applications, which have subsequently been rollout out across the MPS. I have helped to develop central address gazetteers, enterprise GIS systems and large scale data capture projects. With Dartford Borough Council I collected an NLPG Exemplar award in 2008, 2007 and 2006. I have represented the Emergency Services on the Census addressing work group, been the NLPG deputy chair for the South East, and been on the evaluation panel for the Mapping Services Agreement for England and Wales. I have been ALO for the Metropolitan Police Service, and represented the Police Service on the PSMA Board. I have an MSc in GIS from Manchester Metropolitan University a BA (Hons) from the University of York.

**MAJOR, Daniel**

Daniel is Head of Humanities at Prenton High School for Girls in Merseyside. He is an ITT professional mentor and has an MA in Educational Leadership and Management. He has been involved with the Wirral Humanities Network and has also set up a Geography Global Club at his school.

**MANNING, Adrian**

Adrian is currently studying for a PhD at UCL. Prior to this, Adrian was Subject Leader: Geography and Lead Teacher: Geology at St Helena School in Colchester. Adrian has extensive experience of CPD, both within his school and externally. He is a member of the Suffolk LA Geography network, where he has been asked to present a variety of workshops on using the Action Plan for Geography resources. Adrian works with local schools, and plans to run an RGS CPD network in the near future. He is heavily involved in the GA's Worldwide competition, and has also written and reviewed articles for the GA's journals. Adrian is also a consultant for the GA. He completed a term's secondment to UCL in London to undertake the Fawcett Fellowship in September-December 2011 developing GIS resources and teaching materials. Adrian is also a Patron Member of the Royal Scottish Geographical Society and an Associate Fellow of the Royal

Meteorological Society, as well as undertaking work for a number of other educational and charitable organisations.

**MANSBRIDGE, Benjamin**

Ben is currently Technical Services Consultant at Helyx. Previously, he was GIS Team Leader at the Canal & River Trust, responsible for corporate data management, GIS project management, and driving efficiencies through the use of GIS. Ben has worked in the GIS industry since beginning as a GIS technician at Chiltern District Council in 2003. Prior to this he completed an MPhil research degree from the University of Wales, Aberystwyth, on glacial landform reconstruction using GIS. This followed a BSc (Hons) degree in Geology from the University of Portsmouth. He is a member of the Association for Geographic Information (AGI), and is a former Chair of the Pan Government Agreement (PGA) User Group and member of the PGA Steering Group.

**MANSELL, Judith**

Judith retired from full-time work in 2010 having been appointed the RGS-IBG's first Education Officer in 1999. Prior to this Judith was a Head of Geography and Head of Humanities at various schools in Hertfordshire. Throughout her career Judith has been a member or Chair of various committees for the Geographical Association and the Hertfordshire Geography Teachers Association. She has written text books for a level and Key Stage 2 and 3. Her role at the Society involved the development of resource based websites such as 'Discovering Antarctica' and 'Discovering the Arctic', liaison with numerous organisations on behalf of the Society, supporting the Society's core CPD provision for teachers and managing the work experience programme and careers resources. She continues to develop the web-based resources for the Society and other educational publishers and leads a local CPD network in the Watford area.

**MANTERFIELD, Elizabeth**

I am a geography graduate from Kings College London. I worked for the MOD's Defence Geographic Centre from 1975 as a Geospatial Analyst. My career has included a variety of roles from managing map collection, cataloguing and retrieval of geo materials, analysing the accuracy and content of maps, including names and boundaries, selecting source materials and writing guidance on their use for map production, negotiating international geospatial standards, and managing copyright in geo products. My most recent role was Head of Learning and Development at DGC where I was responsible for identifying the skills Geospatial Analysts require and facilitating training to acquire them.

**MARKHAM, Andrew**

Andrew is Director of Hydrobiology Pty Ltd environmental consultancy in Australia. Andrew has a BSc (Hons) in Environmental Science from University of East Anglia and a PhD in Geography from Queen Mary, University of London. Andrew is a fluvial geomorphologist, surface water hydrologist and Chartered Environmental Scientist. Outside of Australia, most of Andrew's work is in Papua New Guinea and South East Asia.

**MARLOW, Richard**

Richard specialises in the development of GIS and other desktop applications within the river, coastal and marine environment sectors having spent over 10 years working in this industry for various consultancies. Over this time he has developed skills in a number of different programming languages including Python, VB.NET and VBA, and use these to create innovative products to streamline marine GIS and data workflows. Richard has written a large number of GIS tools for Esri's ArcMap software during his career to extend the available functionality in the standard software package, both for internal use and as part of a product portfolio. Richard is also passionate about developing functional and modern webGIS applications that incorporate the latest Esri technologies. He has developed a number of applications that make use of the ArcGIS JavaScript API, HTML5, CSS3, PHP and toolkits such as jQuery and Dojo to create user-intuitive web pages for the visualisation of, and interaction with, river, coastal and marine data. Moreover, Richard makes use of available libraries and toolkits to ensure that his web applications take into account browser compatibility and seamlessly transmit to mobile devices. Additionally, he also has a history of constructing web-based document management systems that integrate within both webGIS portals or as standalone systems. Richard's other skills include desktop GIS mapping and cartography, spatial and 3D analysis, and spatial database design and implementation all of which he has been exposed to consistently during the course of his career so far.

**MARTIN, Esmond**

Esmond is an historical conservationist from Kenya. Esmond has a BSc in Agriculture from University of Arizona, an MA in Geography from University of Arizona and a PhD in Geography from University of Liverpool. Esmond's work focuses on the trade in wildlife products in Asia and Africa. Esmond is on the Council of the East African Wildlife Society and is the Chairman of the committee that oversees the Swara magazine. Esmond is also Chairman of the Kenya Past and Present journal and is an active member of the IUCN African Rhino Specialist Group.

#### **MARTIN, Richard**

"Choose a job you love, and you will never have to work a day in your life" Confucius.

Richard is a self-confessed mapping-geek who loves the use of Geographical Information Systems (GIS) to help solve problems and provide innovative solutions. His skills and experience have been developed from working in the public, private and non-profit sectors, both in the Middle East and the UK. Formal qualifications include Geography BSc and GIS MSc. Nottinghamshire Fire and Rescue Service provided a fantastic introduction to the GIS industry as the technology was used throughout the organisation. Maps, analytical reports and technical solutions could be found at Fire Stations, Fire Engines, Headquarters and in the Control Room. The role required a high standard of technical delivery, a great deal of responsibility and played a major role in shaping Richard's career. The lure of sunshine and warm weather called as a move to Qatar materialised. Richard's main objective of introducing and implementing GIS into a private consultancy company that had no previous experience of the software was achieved. It was an exciting time to live in Qatar as the country had just been awarded the 2022 Football World Cup and projects worked on included football stadiums, railway implementation, highway designs, land use analysis, and tourist attractions.

Richard now works in the slightly less exotic location of Swindon, for the National Trust, relishing in the forward thinking environment and proactive use of GIS. The role is responsible for analysing a wide range of internal and external data that helps the Trust understand its assets, provide insights and make strategic decisions about how to manage them. Richard describes himself as a technically minded GIS Analyst, with key skills in problem solving, communication, innovation, 3D modelling and working in high pressured environments. Outside of the GIS world, Richard is currently working his way up the Swindon Squash League.

#### **MARTIN, Roland**

Roland is a GIS Engineer for Arup in Los Angeles, California. He joined Arup in 2005, and has experience of a wide variety of projects, from acoustic and flood modelling to transport planning, geotechnics and rail engineering. His GIS experience includes spatial and 3D analysis, web development and central data management. Roland studied Geography with German at Aberystwyth University, graduating in 2002, before going on to complete an MSc in GIS at Leeds University in 2005. His career has included time working in the UK, Spain and Germany, and has been based in Arup's Los Angeles office since 2010.

#### **MARVELL, Alan**

Alan is a Senior Lecturer in Events Management at the University of Gloucestershire. His research interests focus on teaching and learning, event management, destination marketing and the creation of place identities. He has a BA (Hons) in Geography, an MA in Landscape and Society and a PhD in Geography from the University of Gloucestershire and also a PGCE in Geography from the University of Southampton. Alan's PhD research is based on the construction of suburban residential identity in developers' promotional material: with specific reference to North Swindon. Alan was re-elected as a Member of the Governing Body of the Geographical Association (2015-18) and serves as Director/Trustee. He is also Vice-Chair of the Geographical Association Post-16 and Higher Education Committee and is on the editorial advisory board of the Geographical Association journal 'Geography'. Alan is also a member of the RGS-IBG Higher Education Research Group (HERG).

#### **MATHER, Peter**

Peter is a Geography teacher and Head of Training and Staff Development at Greenford High School in Ealing, West London. He is responsible for Initial Teacher Training; Newly Qualified Teacher's and coordinates all levels of the school's Continuing Professional Development for all staff. He is responsible for the successful Teach First programme in school (accredited as an Advanced Mentor in 2011 and on the Advisory Group) and also acts as the in-school liaison for the Teaching Leaders Programme that the school has been involved with since its introduction in 2008. He has also been a cluster facilitator for the National College Middle Leader's Development Programme since January 2012. Peter has an MA in Intercultural Education: 'Race', Ethnicity and Culture. He has participated in numerous geography related CPD activities

including a Glaxo Wellcome sponsored Earthwatch expedition to the Czech Republic (looking into the effects of acid rain), a study tour to Japan and two visits to China working on a partnership with a school in Beijing. Peter was awarded Advanced Teacher Status in 2002, was Head of Geography between 2009 and 2011 (see <http://www.goodpractice.ofsted.gov.uk/index.php> that shows how OFSTED used the school as an example of an outstanding geography department with regard to professional development) and has been a member of the RGS Education Committee since 2010.

### **MATHEWS, James**

I am an Environmental Scientist working at Atkins providing GIS mapping and technical support for the Water Management Consultancy team. With over 6 years' experience I have worked on a wide range of projects providing technical support for all aspects of a project lifecycle; including idea generation, data collection, processing and presentation. Work has included environmental assessments, water company resource management plans, international work, water company resilience planning and the development of new digital initiatives. Clients have included all the major UK water companies, government bodies including the EA and Natural England and international organisations such as the World Bank.

Prior to joining Atkins I completed the BSc (Hons) Geography course at Northumbria University and the MSc GIS course at the University of Nottingham.

### **MATOSSIAN, Christian**

In late 2006, Christian returned to live in Montreal, Canada where he has two roles: the Director of Social Performance & Stakeholder Engagement for EEM Inc., and the Sustainability Strategy Consultant for ALCAN Inc. Before this he was Corporate Responsibility Projects Manager for RWE Thames Water in London where he was seconded to the Water and Sanitation for the Urban Poor (WSUP) multi-sector partnership and responsible for building the partnership, developing its projects, securing funding, and managing external affairs. He led projects in Brazil, Madagascar, and Mozambique and provided general support to the development and implementation of Thames Water's environment & CR programme. Previous jobs include a Project Advisor to the E7 Secretariat, a partnership between 10 major electricity companies from G7 countries to promote sustainable energy development, and Project Manager in Environmental Affairs for RWE AG in Germany. Christian is passionate about finding solutions to address poverty and human suffering in Africa, Asia and Latin America, and mobilize others to collaborate and contribute resources to further this cause. Since 2004 he has been the Director for World Water Source in Canada which fundraises for water and sanitation projects in developing countries.

### **MAY, Ilka**

Ilka is a Senior GIS Consultant and GIS Manager for the Infrastructure Division at ARUP in London. She leads the GIS team and her day to day responsibilities range from external client projects, internal GIS development and project support to the delivery of GIS training and research and development projects. She is also involved in the development and implementation of GIS strategies internally and for external clients. One of her current roles is the position of the Arup GIS Manager for the London 2012 Olympic Park Development. In addition to her daily tasks Ilka is involved in a number of activities to raise the profile of Geography and use of Spatial Data across Arup and beyond. Ilka studied Geography in Frankfurt/Main, Germany, and has the German equivalent degrees to BSc and MSc in Geography. She made her PhD at the Technical University of Berlin about updating procedures for digital maps in SatNav Systems using new remote sensing technologies and published a series of papers and books. Before joining Arup Ilka gained four years' experience in Business Development and Consultancy.

### **McALORUM, Christopher**

Chris McAlorum is a chartered geographer, surveyor, designer, and a product lead at the national mapping authority for Northern Ireland, producers of Ordnance Survey of Northern Ireland branded digital mapping.

### **McCABE, Stephen**

Stephen works on the Research Impact Team at Queen's University Belfast. He was previously the Senior Policy Officer at NI Environment Link, leading the policy team and specialising in the physical environment (climate change, fresh and marine waters, coastal environments, landscape weathering and change). He exploits synergies between policy and academic spheres to sharpen research impact, and is interested in Knowledge Brokering between academic and user communities. He is active in geomorphological and weathering research, where he has published widely (40 papers) and presented internationally on natural stone weathering and the decay of stone-built heritage. After completing his PhD in 2007, he worked on a series of high-profile projects on the decay and conservation of stone-built heritage, most recently on the impact of climate change on natural stone buildings (funded by EPSRC and Historic Scotland). He gives

lectures and seminars regularly on a range of environmental issues, as well as in physical geography and Heritage Science. Stephen sits on the Council for Nature Conservation and the Countryside, and the Steering Group for Climate Northern Ireland.

#### **McKEVITT, Aaron**

I have always had a keen interest in geography and was first introduced to GIS whilst applying to join the British Army. I went on to spend 8 years travelling the world providing geographic support to a number of national and international organisations; this support ranged from data collection (via geodetic surveys) to small scale contingency planning maps, multi-criteria decision analysis to 3D visualisation.

Upon leaving the military, I had a short period working with the UK's leading onshore engineering geophysics company, gaining an extremely useful insight in to sub-surface surveying, interpretation and visualisation. Since then, I have held several additional appointments focussing on data collection, processing, analysis and dissemination of geographic information.

Presently, I am working for a harbour construction company where I utilise an array of different data acquisition tools (multibeam echosounders, GPS, total station theodolites, UAVs) to help key stakeholders make crucial decisions.

It has not always been plain sailing; however implementing GIS in to these organisations have proven successful.

I am also currently studying my MSc in Applied GIS via distance learning with the University of Salford where I hope to graduate spring/summer 2019. I have a keen interest in remote sensing technology and how this can be applied to the construction industry.

#### **McCLOUD, Damien**

Damien is Senior Analyst and GIS manager for the London Planning Group of ARUP. He runs the GIS team and supports the group as a whole's GIS needs and requirements. He takes a vital role in promoting and managing the use of GIS across the company, including helping to write the company's global GIS strategy. The day to day GIS work he is involved in covers from Planning Policy and Economics, Urban Design, Transport and Sustainable Solutions. Damien has a BSc (Hons) in Geography from the University of Sheffield and an MSc in Land Information Management and Mapping from the University of Portsmouth. He then had a various GIS posts for the Environment Agency, Transport for London, Robertson Research International, Halliburton KBR and currently ARUP.

#### **McGUIGGAN, Suzanne**

Suzanne is Head of Geography at Sandford International School in Ethiopia, prior to which she was a teacher in the UK and also worked on Eco-Schools Scotland. Suzanne's specialism is outdoor education, and she has a wide variety of qualifications based around the topic. She is an Accredited Practitioner of the Institute of Outdoor Learning, has led expeditions for World Challenge, is involved in Duke of Edinburgh, is involved in Girl Guiding and is a published author of several academic papers.

#### **McGUINNESS, Ian**

Ian works as Geospatial Specialist within the Research Team of leading estate agent Knight Frank, where his work is used to provide a clearer understanding of spatial, demographic and economic factors affecting the housing market. His professional interests include spatial analysis, experimental visualisation techniques and predictive modelling. Ian has previously worked in the Planning Team at the London Borough of Newham during the 2012 Olympics, and for market demographic data provider CACI. He holds a BSc (Hons) in Geomatics from the Dublin Institute of Technology. Ian is interested in promoting more engaging Geography in education and is an RGS-IBG Geography Ambassador, as well as being a Chartered Land Surveyor and an Army Reservist attached to the London Officer Training Corps.

#### **McINERNEY, Malcolm**

Malcolm is the Immediate Past President of the South Australian Geography Teachers' Association and the Chair of the Australian Geography Teachers' Association (AGTA). He has taught in South Australia secondary schools since 1976 and is presently Humanities Senior at The Barton Senior College in Adelaide. Malcolm has been involved in teaching and developing classroom materials using spatial technologies in Geography since 1997. In an effort to introduce GIS into classrooms around Australia Malcolm developed a 'GIS skill development course' for secondary students and a range of across the curriculum resource materials which are used in over 1,000 schools across the world. With the development of the national geography curriculum in 2009, Malcolm is finding his focus more on the work of the AGTA and the need to develop a state of the art contemporary geography curriculum for Australian students in the 21<sup>st</sup> Century. He

is presently involved in writing the new Australian Curriculum for geography with the Australian Curriculum, Assessment and Reporting Authority (ACARA).

**McINTOSH, Caroline**

Caroline currently works at Buckinghamshire County Council as a GIS team leader where she uses GIS to develop corporate GIS strategy and policy. She completed her undergraduate degree in cartography at Oxford Brookes and after graduating she worked at West Oxfordshire District Council and was responsible for the maintenance of map layers that were used to make planning decisions. While working at West Oxfordshire District Council she also studied for an MSc in Geographical Information Science at University College London.

**McNALLY, Laura**

After completing her Bachelor's degree in Geography and Geology in 2005, Laura worked in a number of local authorities and housing associations as a GIS and LLPG Manager as well as a brief period with CADCorp as a GIS Technical Specialist. Completing her GIS Career at the London Borough of Hounslow, Laura joined the Royal Air Force in 2009 as an Intelligence Officer. She completed her intelligence training in 2010 and there followed a series of postings across the UK, each with associated deployments and detachments. These included deployed support to operations in Helmand and Kabul, Afghanistan, and in support of the Libyan campaigns. She has also been detached to support major UK exercises, UK contributions to coalition exercises in Alaska, and EU exercises in preparation for the UK lead-period of the European Union's Battlegroup.

Throughout her time in Defence intelligence Laura was responsible for assessing the likely future actions of populations, providing advice based upon demographic, environmental and cultural factors. In addition her work has included support to and tasking of internationally-owned remote sensing aircraft, leadership of large teams utilising space-based remote sensing assets and consultation on the procurement of remote sensing aircraft. Her military leadership courses have included significant study of international and political relations, cultures and economic development.

Recently, Laura left the Service to join the Environment Agency as a Field Operations Team Leader, managing a team responsible for river channel and bank maintenance, and responding to flood and pollution incidents.

When she can, Laura enjoys rowing, skiing and walking her dogs, Fidget and Bronte, with husband Chris.

**McMILLIAN, Anneley**

Anneley is currently a Consultant at a leading end to end Geographic Information System company predominantly focused on the Defence space. She has varied experience, receiving her doctorate from Birmingham University applying GIS based coupled climate-vegetation models to map palaeoenvironmental change in southwest Turkey. Prior to this she worked at a Risk and Disaster Management company providing time critical mapping information derived from satellite and aerial imagery. She also holds a Masters in Remote Sensing from UCL.

**MEE, Christopher**

Christopher has been involved in one form or another within the Geomatics industry since 1995. Firstly in the British Army, followed by employment within several land surveying companies. He is currently a Field Surveyor for Ordnance Survey living and working in Newcastle-upon-Tyne. He has a BSc (Hons) Geography degree from Manchester Metropolitan University and an MSc Surveying degree from University College London. He is a Fellow of the RGS-IBG and is also a Chartered Land Surveyor through membership to the RICS.

**MEADOWS, Neil**

Neil is a Senior GIS Consultant with Mouchel Consulting (part of the Kier Group) and has over 20 years' experience in GIS. His role involved advising on and setting up and managing GIS projects and promoting best practice to others in his team. He also develops bespoke GIS applications and extensions for desktop, web and mobile. During his career he has applied GIS to many different areas including highway schemes, heavy and light rail schemes, retail developments, staged closures of oil refineries, air and noise modelling, network surveys and Environmental Impact Assessments.

**MEDDINGS, Harriet**

Following my graduation from University of Bristol in 2004 with BSc (Hons) Geography, I have worked as a GIS Analyst and Geospatial Data Manager at Wardell Armstrong LLP, a multi-disciplinary consultancy. I



Chrissy is a Flood Risk Management National Principal Research Scientist within the Environment Agency, which allows her to research flood forecasting, incident management, asset management, reservoirs as well as modelling and risk. She works within the Joint DEFRA/Environment Agency flood and coastal erosion risk management research and development programme. In previous roles she has been climate change policy advisor as well as business development manager at the Flood Forecasting Centre; setting up the Joint Met Office and Environment Agency National Forecasting Centre. She is a geology graduate of Aberystwyth, has a Masters in Environmental Science from University of East Anglia and a Ph.D from Exeter evaluating the potential for using 2D and 3D models to simulate flooding and contaminant transfer. She sits on the Editorial Board for the International Journal of Flood Risk Management and is a chartered member of the Institute of Water and Environmental Management (CIWEM). She is currently Junior Chair (progressing to Chair) of the CIWEM Rivers and Coastal Group.

**MOFFAT, Andrew**

As well as being a Chartered Geographer Andrew is a Fellow of the Royal Institution of Chartered Surveyors, having originally qualified as a rural practice surveyor, and a Chartered Environmentalist. He is a career civil servant working for the Ministry of Defence in a senior management position. He has a MA from Kings College, London having earlier studied at the Royal Agricultural College, Cirencester and at the Joint Services Command and Staff College. Andrew's main skills and interests are in strategic real estate management, operational planning, sustainable development and conservation. He is currently Chairman of the Leicestershire and Rutland Wildlife Trust and Honorary Secretary of the Shackleton Scholarship Fund and Executive Secretary of the United Kingdom Falkland Islands Trust.

**MOLLISON, Alice**

Alice is Head of Geography at James Allen's Girls' School in London. Alice has led a British Council funded trip to China for some sixth form students, and has managed to raise her student numbers at GCSE and A level to very impressive numbers. She has organised and led a range of local and international fieldtrips, and is also involved in her school's Duke of Edinburgh scheme. Alice works with teachers from other schools and has also been involved in some consultation with the Natural History Museum.

**MONK, Philip**

Philip is a UK-qualified teacher based in Essex and since qualifying in 2002 has worked in a range of secondary state schools in the South-East, including 2 years in a special school. He is also qualified to teach in New Zealand, and has spent a year backpacking since completing his first degree in Economics at the University of Warwick in 1999. He completed a second degree, in Environmental Studies, in 2012, achieving First Class Honours with the Open University, and furthermore qualified as a Mountain Leader in 2014. He is currently working towards further qualifications - Mountain Bike Leader and Single Pitch Award (climbing) - that will further enhance his ability to lead groups in wild country. He is a keen supporter and participant in the Duke of Edinburgh's Award for which he is training to be an assessor. Philip has particular interests in the use of technology in the classroom and outdoor learning, and strongly supports the views of the GA, RGS and Field Studies Council that fieldwork is both an essential and enriching component of geographical education. He supports the work of the Geographical Association by attending the annual conference and with his involvement in two Special Interest groups (relating to Physical Geography and Fieldwork).

**MOODY, David**

David Moody began his career with Land Registry (LR), processing registration applications, based on title deeds. In 2004, he changed roles within LR to become a Land Surveyor. This involved completing small topographical updates to Ordnance Survey (OS) mapping, and writing reports to help LR caseworkers and senior technicians make decisions on issues such as boundary disputes and adverse possession claims. In 2013, he left LR to join OS. His primary role was to undertake fieldwork to complete topographic site surveys which populate the National Geographic Database from which all OS products originate from. He uses traditional graphic survey methods, along with GNSS and Total Station equipment.

**MOORE, Adrian**

Adrian is Professor of Geographic Information Science at University of Ulster, where his research focuses on GIS, Medical Geography and Spatial Epidemiology. In addition to this he is also Managing Director of Causeway Data Communications Ltd, Coleraine. Adrian has a BSc (Hons) in Geography from New University Ulster, an MSc in Geography and DPhil both from University of Ulster. He is an Elected Council

Member and Director of the Association of Geographic Information (UK) and Chair of the Association of Geographic Information, Northern Ireland. Adrian has numerous publications and conference proceedings.

**MORETON, Alex**

Alex is Head of Geography at Loughborough High School. Alex has participated in a range of CPD opportunities including Council for Learning Outside the Classroom training, various mountain leader and first aid courses, several RGS-IBG courses and exam board training sessions. Alex has a wealth of experience in leading expeditions overseas and is also involved in the Duke of Edinburgh scheme.

**MORETTO, Filippo**

I hold a MSc in Environmental Sciences from "Ca' Foscari" University of Venice, with a thesis on environmental and economic consequences of port development and shortsea shipping implementation, and I am presently responsible for Environmental Service in a local Authority (Comune di Occhiobello) with the principal task of assessing and managing relationship within people, urban landscape and environment. More, I hold another position in a private consultancy company specializing in quantitative environmental analyses and control.

**MORGALLA, Paul**

Paul is Geographical Information Systems (GIS) expert, currently employed in the role of Senior Scientist within the water management consultancy practice at multi-discipline consultancy Atkins. Having joined Atkins as a graduate in 2005, Paul is currently the Technical Authority for Environmental GIS, providing technical delivery and expert solutions in GIS, spatial modelling / analysis, data management and BIM; with a focus in the water management sector, including flood risk, water resources and climate change resilience. He has successfully worked on a number of complex projects in the water, transportation and energy sectors, both in the UK and overseas in Africa and Asia, including assignments overseas in Botswana, Nigeria and Sri Lanka. He holds a 1st class BSc in Geography from the University of Liverpool and an MSc in Geographical Information System from the University of Leeds. He is also a Chartered Scientist and Member of CIWEM.

**MORGAN, Alun**

Alun has been an active member of the Geography Education community for the last 20 years. He graduated with a BSc in Geography from Swansea University in 1987 and gained a PGCE in Geography Education (with Integrated Science) from Cardiff University in 1988. He then taught Geography in secondary schools in England and Wales for the next 10 years. During this time he undertook a range of PG study in Environmental Education and Education for Sustainable Development gaining an MSc in 1997. He undertook a one year secondment as Education Director of the Cardiff Environment Centre before becoming the teacher advisor for Education for Sustainable Development for Worcestershire CC in 1999. In 2002 Alun moved into Higher Education becoming a Lecturer in Geography Education at the Institute of Education, London and then, in 2009, Senior Lecturer in Education for Sustainability at London South Bank University where he directs the MSc in Education for Sustainability. Alun gained his PhD through the University of London in 2007. His Thesis was entitled 'Minding the World: Integral Transformative Learning for Geographical and Environmental Wisdom'. After an initial focus on Geography Education in the secondary phase, Alun has extended the scope of his work over the last 20 years to lifelong learning in Geographical and Environmental Education. He is particularly interested in empowering learners at whatever phase (primary through to Higher Education/Adult) and sector (formal, informal and non-formal) to become critically reflective and active citizens in the pursuit of Sustainable Development. He is currently involved in developing the London Regional Centre for Expertise in Education for Sustainable Development.

**MORGAN, Matthew**

Matthew is Deputy Headmaster at Sir Thomas Rich's School in Gloucestershire, prior to which he was an Assistant Headteacher at The Royal Latin School. Matthew has participated in numerous geography CPD courses and has also had several articles published in journals such as Teaching Geography. He is the author of some fieldwork resources on the Action plan for Geography website, Geography Teaching Today. Matthew has worked with numerous schools and organisation, and has led inset on many occasions.

**MORGAN Richard**

Richard has worked for the Environment Agency since the beginning of 2008 and is currently a Technical Specialist with a Groundwater and Contaminated Land Team in the Anglian Region. Richard previously worked as an Environmental Consultant for companies in the East Midlands Region where he specialised in human health and controlled water quantitative risk assessment. Richard graduated from Lancaster

University with a BSc in Environmental Science and from Leeds University with a PhD in Atmospheric Chemistry.

**MORRIS, Gyles**

Gyles is the Director of Naturesbase Education Consultancy, an organisation he founded several years ago. Prior to this Gyles was the Chief Executive of The Magdalen Project. Gyles provides initial teacher training, CPD and pupil workshops through Naturesbase, with a focus on sustainable development, environmental fieldwork and fieldwork in the school grounds. He has recently led inset for the RGS-IBG, Devon County Council and the Institute of Education. Gyles has been heavily involved in Learning Outside the Classroom matters, and also advises other organisations such as Farming and Countryside Education, School Farms, Growing Schools and the Soil Association.

**MORRIS, Robert**

Robert recently retired from geography teaching after working for 37 years. He worked in a number of schools and colleges, both in the state and independent sector, in many different roles. Robert has had many articles published and has contributed sections to various text books for a number of publishers. He has extensive experience as an examiner for several awarding bodies. He is now an educational consultant having recently done work for the Geographical Association, awarding bodies and local authorities. He is now the Administrator of the GA's Independent Schools group and edits their newsletter 'Notes & Queries'. He also is a part-time PGCE tutor for two teacher training providers and presents INSET for external providers.

**MOULD, Lewis**

Lewis is a GIS Analyst for Atkins (SNC Lavalin) based in Bristol. He lives with his wife and two children in South Wales where they enjoy camping, archery and exploring the British countryside. Lewis is passionate about encouraging geography and digital technology in education and continues to work with teachers to encourage GIS use throughout the curriculum.

**MULDER, Andrew**

After many years of working within GIS, I've seen the mapping revolution gaining pace through many businesses, not least in my own water utility sector. Spatially referenced data now underpins decision making for financial investment, emergency incident management and long term business plans. Working for Welsh Water, I have been fortunate enough to have played a part in the development and evolution of the company's GIS and still there is a sense that there is so much more that we can do.

**MUNDAY, Paul**

Paul is currently an Environmental Consultant with the Strategy, Assessment and Management (SAM) team at multi-disciplinary engineering consultancy Atkins. Paul has a background in academia, graduating with a PhD in environmental science and GIS in 2010 from the University of East Anglia before starting his consultancy career with Land Use Consultants. His expertise lies in GIS, data visualisation, spatial analysis and database design particularly within the fields of water and environmental resource management, ecosystem services and climate change. Paul works on projects relating to strategic assessments of catchment management and hazard risk assessments to a range of public and private sector clients. He holds a BSc in Geography and Physical Geography from Oxford Brookes University, an MSc in Climate Change from the University of East Anglia, Norwich and a PhD from the same institution.

**MURDOCK, Andrew**

Andy is Director of APMgeo, a consultancy he set up in 2013 that builds specialist teams to deliver geospatial projects. Andy has over 15 years of GIS and remote sensing experience in a wide range of sectors, but with emphasis on environment and international development. For over 10 years prior to setting up APMgeo, he was the GIS Manager at the GeoData Institute, Southampton University, where he led a group of GIS analysts and developers working on a variety of research projects, consultancy and GIS training. Notable project experience includes project lead for national habitat mapping programmes (Defra, Environment Agency, Scottish Natural Heritage), advanced spatial analysis (Natural England, Forestry Commission, TESCO) and GIS strategy / review (Sussex Downs AONB, Crown Estate, Ordnance Survey). International experience includes GIS training and capacity building projects for World Bank and UN agencies in Tajikistan, South Africa, Malawi, Ethiopia and Kenya. Andy's recent work has included GIS auditing, strategy development, GIS modelling and analysis related to contaminated land and aircraft noise.

**MURPHY, Colin**

Colin has recently joined the global technology consultancy organisation Critigen, where his new role will be as GIS manager on the Thames Tunnel project. Prior to joining Critigen Colin was a project manager with Mouchel where he specialised in managing GIS and Land Acquisition projects. Colin has over 11 years' experience with companies including TerraQuest, WS Atkins, TeleAtlas and Mouchel, where he has worked on a multitude of geographically focused projects. In recent times Colin has been the Lands Project Manager on Network Rails Thameslink Programme and the A5WTC road scheme in Northern Ireland, where he managed a team of GIS and Land Referencing professionals, providing leadership to the teams and promoting Land Information Management to clients on these multi-disciplinary infrastructure projects. Colin completed an Honours degree in Geography and a Post Graduate Diploma in GIS & Remote Sensing from the University of Ulster.

**MURPHY, James**

James graduated from Manchester Metropolitan University in 2007 with a BSC in Geography with GIS. Since then he has worked in consultancy, the public sector and the military including a 6 month tour of Afghanistan where he used his GIS skills to create a geodatabase of the Helmand Primary Canal system.

**MUTTON, James**

James is the Lead Teacher of Geography at a large inner city school. He has always taught in London following his teacher training in Cambridge. Ever since he can remember, he has had a profound love for the subject, even if he did not initially want to be a teacher. So much so, that whilst doing an Environmental Chemistry degree at the University of Edinburgh, he sought out the Geography department and begged them to take him back into the fold. Thankfully for him, they agreed. James has a particular interest in teaching with technology and uses any excuse to get computers or iPads out in his classes. He was the recipient of an Innovative Teaching Grant from the RGS to introduce iPods into his classroom and has spoken at the GA Annual Conference and at BETT on his classroom experiences. He enjoys learning outside of the classroom and is keen to encourage all of his students to see the geography all around them in the wider world.

**MYTHEN, Eamon**

Eamon works in the Planning Directorate of the Department of Communities and Local Government, where he works in the Minerals and Sustainable Waste Strategy Team. He has a BA (Hons) in Sociology from University of Leeds, an MA in Sociology from City University London, an MPhil in Town and Country Planning from University College London and an MA Geography from King's College London. Eamon has been employed as a planner since 1991 and qualified as a Chartered Town Planner in 1995. He has held a variety of posts in Local Government prior and after training as a planner, worked in the NGO sector for five years after leaving Local Government service and since 2002 has worked in Central Government as a planner.

**NEWMAN, Claire**

I am a geography and geology graduate from Brunei University. I have worked as a Geospatial Analyst for the MOD's Defence Geographic Centre since 1991. The majority of my early career has been in the map production field, utilising conventional and digital cartographic techniques. In the last 6 years my career has encompassed other roles including managing geographic library materials, both in hard and soft copy formats and evaluating and selecting these as sources, leading to writing instructions on their use for map production. I am also a qualified trainer, supervisor and assessor for the Duke of Edinburgh's Award Scheme facilitating expeditions at bronze, silver and gold levels, encouraging young people to study geography in the British countryside.

**NEWMAN, Stephen**

Stephen is Senior Lecturer in Education and Continuing Professional Development at Leeds Beckett University, working with both undergraduate and postgraduate students. He was formally Senior Lecturer in Education at Bradford College and, prior to that, taught geography in secondary education for over 25 years, becoming a Head of Geography and Examinations Officer. Stephen has a BEd in Geography from the University of Exeter, an MEd in Philosophy, Education and Curriculum, and a PhD in Teacher Education and Professional Development, both from The University of Sheffield. Stephen has led INSET-day sessions and has authored a book and several papers and articles in educational journals.

**NG, Kit-Ying**

Kit-Ying (also known as Angel) is the first Chinese awarded the Chartered Geographer status. Angel is a senior geologist / geomorphologist at Arup. She is a Chartered Geographer (Specialising in

Geomorphology) and Chartered Geologist with over 17 years' of postgraduate research and consultancy experience in landslide hazard and risk assessment, and geotechnical appraisal for site developments and infrastructure projects from feasibility through planning, investigation, design and construction stages.

Angel is currently based in the Arup London office. Prior to this she was team leader in the engineering geology of Arup in Hong Kong. Angel has also been externally appointed as a part-time Lecturer at the University of Hong Kong from 2013 to 2017 to co-teach an MSc course in the Department of Earth Sciences and two undergraduate courses in the Department of Geography.

Angel has provided geomorphological and geological assessment in a variety of site-specific to large regional scale development and infrastructure projects including geohazards mitigation strategies. Her project study areas covered China, Japan, Nepal, the Philippines, South Korea, Saudi Arabia, United Arab Emirates, Sierra Leone, Tajikistan, France and Switzerland.

#### **NICHOLS, Adam**

Adam is the National Strategy Teaching and Learning Consultant for Sunderland LEA. He has a BA (Hons) in Geography from University of Durham, a PGCE from University of Leicester and an MA in Applied Geography, University of Newcastle Upon Tyne. Adam has been teaching since 1974 and spent several years as a Lecturer in Geography Education and the Environment at University of Durham. He has worked with the RGS-IBG, GA and the Ordnance Survey over the past 15 years, being involved with consultations and conferences. Adam has a number of articles and has also produced a number of teaching resources.

#### **NOLAN, James**

James was educated in the UK and US and obtained a post graduate qualification in Geographical Information Systems before embarking on environmental research and working on GIS software development in Europe. He has spent the past 15 years in the commercial sector. Work has included targeting resources for multi-site discount and convenience food retailers, coffee shops and retail leisure operators. He spent several years within the property acquisition department of a major UK retail group. More recently he has spent time working in the mobile telecommunications sector supporting network and retail store development programmes across the UK. He is employed as a senior analyst with an international property consultancy.

#### **NORBURY, Mark**

Mark has been actively involved in the design and development of Geographic Information Systems since 1990. His approach is in the analysis of business processes and how geographic information can support and improve them. He worked for 14 years for the Environment Agency of England and Wales in map production, the management of corporate geographic information and the development of GIS. He was then self-employed as a GIS consultant for three years, after which he emigrated to Canada where he now works for ESRI Canada as a GIS Consultant. Based in Vancouver, BC, he provides classroom instruction in the use of web-based GIS software and continues to provide advice and guidance to clients in the best use of GIS and geographic information. Mark has a Bachelor of Science degree in Mathematics and a Master of Science degree in GIS, for which his dissertation was in the effectiveness of Spatial Data Infrastructures for the sharing of geographic information. He is also a Microsoft Certified Professional in the development of dotnet applications and an ESRI System Design Associate.

#### **NOTTAGE, Michael**

Michael is a Chartered Surveyor, Management Consultant and Academic. Michael has a BA (Hons) in Geography from University College Swansea (University of Wales), a Postgraduate Diploma in Land Surveying from University College London, an MBA from University of Warwick and a PhD in Business Studies, also from Warwick University. Michael has mostly worked in the oil and gas industry since first graduating and has undertaken many activities, primarily as a land and hydrographic surveyor, in areas including South America, the Middle East, Africa, Europe, South East Asia and Australia. His last full-time position as a surveyor was with Total in France for ten years. Subsequently, Michael completed a full time PhD course of study at Warwick Business School where his research interests centred on strategic change in the oil and gas industry and the implications for geographical time and space. He is continuing his academic interests through teaching and tutoring of university students at Warwick Business School, as a Teaching Associate, while, at the same time, undertaking research and consultancy projects in the oil and gas industry. He lives in Spain.

#### **NUNN, Jamie**

I am an expert in Geographical Information Systems through the use of highly specialised tools and techniques. I am experienced in a range of prominent GIS software packages including MapInfo and ArcGIS,

as well as an appreciation for spatial and cartographic representation. As part of my degree and masters courses I have learnt how to program using the following languages; Java, Visual Basic, SOL and MapBasic. Through my positions at Transport for London and AECOM I have applied my GIS knowledge to deliver a range of projects including Barclays Cycle Hire and the Olympics. My work has received a range of awards from ITS (UK) and ESRI.

### **NYONG, Anthony**

Anthony is a Senior Programme Specialist for the International Development Research Centre of Canada's Climate (IDRC). Working on climate change projects in Africa he is also working with DFID to establish similar projects in Latin America and Asia/Pacific. He gained a BSc and MSc in Nigeria before moving on to earn his Ph.D. from McMaster University, Canada, for which he was awarded a Canadian International Development Agency Scholarship. Upon completing his Doctoral studies Anthony returned to Nigeria where he pursued research into global environmental change and international development. Previous to his work for IDRC he worked for the University of Jos in Nigeria where he was a Senior Lecturer in the Department of Geography and Planning. Anthony has also worked as an adviser to the FAO and the United Nations Framework Convention on Climate Change, for which he is a member of an expert committee on Technologies for Adaptation.

### **OLLERENSHAW, Angela**

Angela has worked as a Geospatial Analyst for the Defence Geographic Centre (MOD) since 1986.

She was trained in Cartography at the Defence Geographic Centre and Kingston College.

The majority of her early career has been in the map production field, utilising conventional and digital cartographic techniques.

She then spent time in the DGC's Geospatial libraries acquiring (including attending and purchasing at international events) managing geographic library materials, promoting and providing geo information. She has liaised with other libraries to make best use resources in support of DGC's geo activities and provided geo material to other professional establishments (e.g. RGS, Universities). Angela then spent time in a research office where she evaluated geo sources and promoted human geography by supporting the co-ordination of the first International Social / Cultural Workshop Conference.

In her later career Angela worked with other UK mapping establishments, international partners and contractors in the GIS field. She combined strong interpersonal skills and knowledge of the geospatial environment and has built strong client relationships. She assessed and provided geo sources, managing external co-production mapping programmes, performing/managing and writing instructions for Quality Assurance for map production across the DGC.

### **O'LONE Marielle**

Marielle is a GIS Manager working in the Engineering and Environment division of Mouchel. She has over 13 years' experience in the planning, management and implementation of medium and large scale GIS and Land Information Management Projects, within public and private sector disciplines. Marielle has championed the application of GIS on major infrastructural planning projects, most notably the A5 Western Transport Corridor, the largest roads project undertaken in NI. She works closely with multi disciplinary teams and is proficient in managing a varied portfolio of geospatial data, derived by environmental, drainage, transport planning, geotechnical and engineering specialists during their desk studies and field-based activities. Marielle was project manager on the East Border Region - GIS Development Project. Working closely with Down District Council, as lead partner, on behalf of the East Border Region (EBR) Interreg IIIA Partnership, she led the team in designing and implementing a GIS across eight local authorities in NI and the ROI. Marielle has a BSc (Hons) in Geography and an MSc in GIS, both from University of Ulster. She is a member of the AGI Northern Ireland Executive Committee for the past 7 years. Marielle is also a founding member of the RGS Northern Ireland Regional Group and has acted as Secretary of the RGS NI Regional, where she plays a significant role in developing RGS in the region.

### **ORFORD, Julian**

Julian is Head of Department at Queen's University Belfast. Julian has a BA in Geography and Sociology from University of Keele, an MSc from Salford and a PhD from Reading. Julian's research interests on coastal research concentrated on the dynamics and development of gravel beaches and barriers in Britain and eastern Canada, with respect to sea-level changes. More recently moving in to the wide range of coastal morphology (barriers, dunes and marshes) to both sea-level change as well as to increased storminess related to climatic change, spatial and temporal mesoscale approaches to studying coastal development is currently focusing on the role of extreme events in coastal morphology in particular beach/dune interactions and shoreline management.



is anticipated that 'Water funding: New approaches for safe, secure and affordable supplies' will be published by Palgrave Macmillan in 2019. He wrote 14 editions of the Pinsent Masons Water Yearbook (1999-2012) along with InDepth, for Arup in 2016.

He has followed the water sector since 1989, previously at BNP Paribas and Ecofin Limited and is a member of the Advisory Board for the Pictet Water Fund and is an Ambassador for Pump Aid. He read Environmental Biology at Liverpool and has a DPhil in Applied Ecology from Oxford (Jesus College), holding Chartered Environmentalist (MCIEEM, CEnv) and Chartered Geographer (FRGS, CGeog) status and is a Court Assistant of the Worshipful Company of Water Conservators.

#### **PACE, Andrea**

Andrea Pace is a geographer with experience in geographic information systems, land use surveys and traffic data collection. He has been working in environmental and planning consultancy since 2009. He has a passion for cultural heritage, history and archaeology and in his free time loves hiking. His main research interests are historical geography, urban studies and geodemographics.

In his Masters degree he has researched the relationship between social indicators in the education and health fields and urban development densities over time. He has assisted in lecturing modules on basic skills in cartography at the University of Malta.

He is currently a M.Phil/PhD candidate at the University of Malta. His research project is entitled 'Land Use Changes and Landscape Evolution in the Maltese Islands Using Historical GIS' and will be a case study in historical geography. The research project will link historical spatial information gathered from archival and cadastral sources to geographic features. This will be facilitated through the use of GIS and remote sensing, which will make it possible to establish spatial relationships and create sequential historical maps.

Andrea is a consultant at Adi Associates Environmental Consultants Ltd and has worked on a wide range of projects related to the environment and planning. He was part of a multidisciplinary international team (Adi Associates and Epsilon International), that worked on the creation of management plans for the Natura 2000 sites in the Maltese Islands. He was also involved in the GIS component of the National Risk Assessment for the Maltese Islands.

#### **PALLARIS, Kyriaki**

Kay Pallaris is Spatial Researcher and Urban Planning Strategist at Mapping Futures Ltd. After completing her BSc and MSc at King's College, London, Kay lived and worked as a researcher for two years in Colombia. In 2000 she started to work for the London Borough of Tower Hamlets as a Technical Officer. In 2004 she moved to work for EDAW Plc as an Associate Director. Throughout her time with EDAW Kay made significant contributions using her GIS expertise on a diverse range of national projects. From 2006 Kay worked for London's Olympic Delivery Authority. As well as other roles she managed the implementation of GIS and shaping a strategy for shared geographic information and mapping services. She has also conducted fieldwork in Madagascar, Spain and Colombia and is a member of the Association of Geographic Information (AGI) and Intra-governmental Group on Geographic Information (IGGI).

#### **PALOT, Iain**

Iain was a Geography lecturer at Chichester College, having taught in schools since the mid-1960s. He is involved with his local GA branch and the regional RGS as well as contributing to activities for other regional branches. During his career he has been, and in some cases still is, an A level examiner, has contributed to A Level text books, GA journals and magazines and has led INSET and fieldwork sessions for various organisations and schools. As a firm believer in fieldwork education he has visited various parts of the world including a recent visitor to China. He feels that everybody should go out and see for themselves what is happening and if you cannot go to China then get out into your local "field" and see what is going on there. He has just been elected chair of the Post-16/HE committee for the GA and is a member of the GA Education Committee. He has just been elected chair of the Post-16/HE committee for the GA and is a member of the GA Education Committee.

#### **PAPPER, Richard**

Richard is currently Head of Geography and Head of Humanities at Chosen Hill School. Richard was Head of Year 11 at Bispham High School in Blackpool, and also worked at Patchway Community College in Bristol. Richard has been an Environmental Education Coordinator, and a KS3 Assessments Coordinator. He is a keen member of the Geographical Association and has been involved in a number of their projects. He has been involved in resources production for the Bristol Alliance, has been an examiner, and has written articles

for a geographical journal. Richard has also mentored ITT students and has forged links in the past with local schools.

**PARHAM, Martin**

Martin currently works at the Royal Russell School in Croydon, having recently moved from Lingfield Notre Dame School. Martin is currently studying for a PhD in hazard mitigation, his main interest being tectonic hazards. Martin has written resources for the RGS-IBG based on volcanoes, and has presented CPD on tectonics for the Society. He is an examiner, has helped commercial tour companies to develop their resources for tectonic locations, has developed and led a variety of international fieldtrips and has led CPD linked to his examining work.

**PARKINSON, Alan**

Alan spent three years working as Secondary Curriculum Development Leader at the Geographical Association, having spent twenty years as a teacher in Norfolk. Alan was a member of the Geographical Association's Secondary Phase Committee for 6 years, and remains the GA's Curriculum consultant. He is currently working as a freelance author and geographer, and had numerous articles, resources and books published. He wrote the 'Language of Landscape' resource which was part of the OS Free Maps scheme for 2009, and more recently has worked on the RGS-IBG From the Field resource and the Discovering the Arctic website. He is a founder member of the Geography Collective, creators of Mission:Explore. Alan was awarded the Ordnance Survey award for "excellence in geography teaching in secondary education" in 2008.

**PARR, Duncan**

Duncan is a Town Planning Consultant and Director of Hephher Dixon Ltd. He has a BA (Hons) in Geography from Staffordshire University and Postgraduate Town Planning Diploma's from Westminster University. He is a Member of the Royal Town Planning Institute. Duncan's work involves use and analysis of a range of spatial, economic, environmental and social information at both macro and micro scale. Duncan regularly acts as a professional witness in planning cases. Duncan is actively involved in numerous brownfield regeneration projects particularly in London, including for public bodies. Recent projects worked on include the location of new secondary schools, leisure facilities in the countryside and advising a government quango on the impact of developments on national heritage buildings.

**PARRY JONES, Ashley**

Ashley is the divisional director of the environment division of Mouchel. He leads and provides technical direction to a team specializing in gaining in land, environment and planning consents for development projects in the UK and beyond. This team comprises geographers, surveyors, GIS professionals, IT specialists, a range of environment, planning and sustainability professionals and rights of way experts. Ashley has a BA in Geography from University of Kent and a BSc in Estate Management from Heriot-Watt University and became a Chartered Geographer in 2002. He has been working in the land information management field in UK, Ireland and elsewhere for over 17 years, principally in the site assembly and provision of the necessary powers for a variety of infrastructure and development schemes. Major projects he has been involved with include Crossrail, Thameslink, Thames Tideway Tunnels, West Coast Route Modernization, the Channel Tunnel Rail Link (HS1), the Discovering Lost Ways project for Natural England and a wide variety of other rail, light rail, highways, utilities and development projects. He has also recently provided land registration advice in the UAE. He is a Final Assessor for the RGS's Chartered Geographer programme and is also a validator for the Geography & Development Department's courses at Chester University.

**PARSONS, Helena**

I hold over 15 years' experience as a fluvial geomorphologist. I have extensive experience in catchment management, river and floodplain habitats, species- habitat relationships, habitat suitability modelling, fluvial audit and River Habitat Survey, demonstrated through numerous projects and publications. I have developed tools, techniques and applications for river management, including classification tools for designating water bodies for the Water Framework Directive (WFD). I was a technical specialist in an EU working group contributing to the development of CEN standards for hydromorphology. I hold an extensive track record for managing and delivering large and complex projects with budgets in excess of £1 M. I am an expert in data management and database development and have been the driving force behind several database development projects for river and lake geomorphological and ecological data. More recent projects that I am technical specialist for include: a slope stabilisation for an ancient landslide; fluvial erosion control to protect a water utility asset; CAR licence applications and hydromorphological advice and assessments for major

road schemes; providing technical advice on culvert and bridge design for several river crossings, and various WFD compliance assessments for various road schemes. My current role also includes promoting the application of geomorphology to a wide-range of projects from construction, river and catchment restoration, flood risk management, erosion protection and habitat improvement.

**PARSONS, Sue**

Sue is Subject Leader for Geography and ESD at Joy Lane Primary School in Whitstable, Kent. She is a Primary Geography Quality Mark moderator for the GA, and her school has been awarded the Gold Quality Mark. Her work has been published by the GA, and she has undertaken inset for cluster schools. She is a Primary AST for Curriculum and Geography.

**PATTON, Selena**

Having gained a HND in Land Surveying at North East London Poly I have worked as a site engineer, surveyor and CAD designer. I now work for the Defence Geographic Centre which produces maps for all our British forces. I work in the geographic application section which creates flow lines, specifications and operating procedures for our production offices. I develop the DGC's GIS databases and solve problems and issues that production staffs come across. I research new tools and ways of working to develop and enhance the product lines to make the production work simpler. In my many year of making maps I have seen technology grow, especially in the new GIS world and hope to develop my skills still further in coming years.

**PAYNE, Carrie**

Carrie is a GIS Analyst for Natural England. She has been a cartographer for the last 20 years now specialising in GIS. Carrie's role involves providing GIS support in the form of maps, analysis, statistics, data release and acquisition and GPS surveying and training. Carrie has predominantly worked in the environmental field and has been involved in a wide variety of projects from landscape impact assessments for public enquiries to mapping the incidence of heart disease in deprived areas and how the natural environment can help alleviate various health conditions. Carrie thoroughly enjoys creating bespoke GIS courses, the highlight being a course which was rolled out nationally for fellow GIS colleagues within Natural England. Carrie was also part of the Wildlife Regulation Team that won the 'Excellence in Policy Making' ward in the 2006 Defra Team awards.

**PENN, Maria**

Maria has over 25 years of experience working with diverse sources of geographic information in the private, public and academic sectors. She has worked for and closely with central government, multi-agency partners locally and nationally, environmental risk data management companies and with community and voluntary groups creating systems and processes to make information more accessible. She has worked on multidisciplinary projects and cross-partnership initiatives in public and private sectors including leading a team comprising local strategic partners to create an award-winning online Local Information System currently providing all partners with much-needed efficiency savings. Whilst employed by Plymouth City Council as Corporate GIS Project Manager and OS Principal Contact, Maria also worked extensively with Civil Protection and Community Safety teams from blue-light services in planning and incident response. This required tactical incident GIS data analysis, creating Emergency Plans and working in close partnership with all service providers to ensure that appropriate communication channels were used to inform the public, with particular emphasis on the identification of the location and the needs of vulnerable people to inform emergency services for evacuation from premises during incidents. Maria has a BSc (Hons) in Geographical Sciences, an MPhil in Soil Hydrology and Nitrate Distribution and an MBA and uses her experience currently as a consultant Business Analyst providing organisations, including the University of Plymouth, with advice for business improvement.

**PETERS, Neil**

Neil Peters is a Geospatial Analyst employed by Defence Geographic Centre. He joined the organisation in 1977 and has experience in conventional and digital cartographic production delivering a range of mapping and geographic data products. He has been involved in the development of IT platforms to support the storage and production of digital geographic data. He has supported the organisation in the development of partnerships with overseas mapping organisations and commercial partners critical to the collection of geographic information to meet government requirements. Neil has designed and delivered geographic training and education for DGC recruits and to ensure the continued development of other Geospatial Analysts both at DGC and more widely within Government. He now works in DGCs Human Geography team

delivering research and mapping. He is a member of the British Cartographic Society and works on the Restless Earth Schools outreach programme.

**PETLEY, David**

David is Wilson Chair in Hazard and Risk in the Department of Geography at the University of Durham and Director of the International Landslide Centre. David has a BSc (Hons) in Geography from King's College London and a PhD in Geological Sciences from University College London. David's main research interests focus on landslide mechanics; material deformation processes; hazard and risk assessment; and the application of remote sensing technology in geomorphology. He is involved in a range of projects with an emphasis on assisting less economically developed countries overcome natural hazards.

**PHILLIPS, John**

Dr John Phillips leads the Flood Incident Management team in the Wessex Area of the Environment Agency and is responsible for ensuring the provision of an effective flood warning service for river and coastal flooding. John holds a BSc (Hons) in Geography from Lancaster University and a PhD in Geography from Exeter University awarded for a thesis investigating the particle size dynamics of fluvial suspended sediment. John has Chartered Member status of the Chartered Institute of Water and Environment Management, is a Chartered Scientist and member of the British Hydrological Society. Since joining the Environment Agency in 1999 John has worked as a hydrologist on water resource, hydroecology, flooding and hydrometric projects. John represented the Agency locally on the national NERC Lowland Catchment Research (LOCAR) Project and also spent a year working in the national science team as a Senior then Principal Scientist with responsibility for water resource hydrology and hydromorphology. After completing his PhD and prior to working for the Environment Agency, John worked for three years in a post-doctoral research post at Exeter University as part of the Natural Environment Research Council funded Land Ocean Interaction Study (LOIS), assessing the magnitude and associated uncertainties of the land-ocean flux of a wide range of river born loads. John has published the findings from both his PhD and post-doctoral research work in peer reviewed journals.

**PICKSTONE, Jonathan**

Jon Pickstone is the Assistant Director for Economic Geography at the Department for Business, Innovation and Skills (BIS), promoting geographical analysis and greater consideration of place. This role has included being the policy lead for developing the 2014-2020 Assisted Areas Map. This Map designates which areas of the UK are eligible for certain types of additional state support used to catalyse economic development and regeneration. Following national consultation, Jon advised Ministers on which parts of the UK should be included on the Map based on a combination of relative economic need, the potential to benefit from Assisted Areas status, and the European Commission guidelines under which the Map is drawn. At Jon's direction, the 2014-2020 Map was the first to utilise interactive online mapping as a tool for consultation and presentation. Prior to joining BIS, Jon was the Homes and Communities Agency's strategic lead for the Thames Gateway, Europe's largest regeneration project. His work there included strategies for promoting the area in international capital markets, identifying priority places for investment in the Gateway, and assessing the geography and rate of housing supply. Jon began his career in economic development and strategic town planning consultancy, where projects included local economic development and regeneration strategies, innovative GIS techniques for assessing infrastructure demand, and spatial economic analysis for the 2003 Aviation White Paper.

**PILLEY, Vanessa**

With an academic background in geology & geography, and a post-graduate degree in disaster management, specialising in risk perception, Vanessa has worked in the public sector since 2009. She originally started on the Ministry of Defence's prestigious Science & Engineering Graduate scheme, as an environmental & sustainability officer on various defence projects. In 2013, Vanessa transferred to Defra, as a geography evidence advisor & programme manager of the Met Office Hadley Centre Climate programme. Vanessa's most recent posting is working on the North-West Europe Interreg programme for DCLG. Outside work, Vanessa has been a STEM ambassador, engaging with outreach projects in the South West, and is a ranger volunteer at Bristol Zoo Gardens. Given a deep-rooted interest in environmental conservation & sustainability, especially in relation to natural & man-made disasters, Vanessa also started, and is the environment lead for, a not-for-profit organisation, HazAware, which aims to provide bespoke hazard & risk workshops to developing communities. She also loves to travel!

**PLAYFAIR, James**

James Playfair is a Technical Leader in waste water and storm water modelling within Atkins Water. He has a B.Sc. in Environmental Geoscience from the University of St Andrews and an M.Sc. in Remote Sensing and Applications from the University of Dundee. He has over ten years' experience in water and wastewater engineering strategy and planning which includes extensive use of GIS packages (MapInfo and InfoWorks), planning and undertaking surveys, assessing environmental impacts and client and public liaison. His job involves assessing, analysing and surveying the built-up environment and how waste water networks interact and are affected by the natural environment. James has undertaken two dissertations as part of his university career and has also undertaken a pollution impact assessment from Combined Sewer Overflows and presented the results at a WaPUG conference. He has recently used 2D flooding models, which are relatively new to the industry to assess the interactions of overland flooding and flooding from sewerage systems and their impacts on Coleford. James has travelled extensively and undertaken two treks in Canada and Iceland. In addition, he has undertaken work with the National Trust for Scotland and the Derbyshire Wildlife trust as well as assisting in an environmental awareness day for a local school. James has recently returned from a long term secondment to the Atkins Bangalore office where his role was to develop an off shore centre of excellence in the field of Hydraulic Modelling. James would like to continue his geographical career and feels that membership of the Royal Geographical Society (with IBG) will allow him to gain a wider perspective of geographical applications in addition to providing him with opportunity to take his geographical career in a different direction.

**POINTER, Graham**

Graham is an urban geographer who has worked across a variety of public service roles in the UK and in Sydney, Australia, and recently joined WSP as Key Account Manager – Planning and Strategy. He was trained at the School of Geography, University of New South Wales and subsequently worked for the Institute of Transport Studies at the University of Sydney. Graham transitioned from an academic role to analytical/research at the Office for National Statistics to policy focussed roles ranging from housing, emergency services, placemaking, transport, infrastructure and travel behaviour change policy areas. Graham also enjoyed his time focussing on applying behaviour insights techniques as a founding member of the NSW Behavioural Insights Unit.

Graham is currently in a leadership role for WSP, a global engineering professional services consultancy, where he is applying his geography skillset to help create better places alongside an infrastructure boom in Sydney, Australia. He is passionate about integrated transport, infrastructure and land use outcomes and the role of new mobility to create better places for communities.

**POPLAWSKI, Konrad**

Konrad is a GIS Professional with over 17 years' experience in GIS services across sectors such as environment, utilities, construction, and defence. Konrad graduated from Cracow University of Technology in Poland with a M.Sc. in Environmental Engineering. He started his professional career in the governmental unit Regional Water Management Authority in Krakow as a Water Management Specialist, and then continued his work for the consultancy companies CH2M HILL and CRITIGEN as a GIS Analyst. He was involved in over dozen large scales worldwide delivery projects like the London Olympic and Paralympic Games 2012, the Masdar City Development in Abu Dhabi and Thames Tideway Tunnel in London. His duties included data management, data migration between CAD and GIS environments as well as 3D and spatial analysis.

**PORTHOUSE, Ewan**

Ewan is a Senior Marine Superintendent with a ship management company specialising in the offshore oil and gas industry. Having commenced his career by studying a traditional Deck Cadetship with a UK shipping company, Ewan is a qualified Master Mariner with 11 years world-wide seagoing experience on various vessels and 11+ years shore based employment with an international maritime law firm and a ship management company. As well as investigating and advising on a wide range of casualties and providing legal opinion to clients on wide ranging nautical subject matter, his current senior management role sees him responsible for all aspects of Operational management of a fleet of diverse offshore support vessels. Ewan's works to promote Geography have included; developing training schemes in celestial navigation for Deck Cadets, organising ship visits for sea school trainees in Madang and Tarawa, participating in voluntary marine weather reporting schemes, charting ports, working with a wide range of international regulatory organisations, leading the continuous development of company Safety Management Systems and procedures, regularly producing reports and briefing notes considering amendments to relevant legislation and industry best practice as well as attending industry seminars and

networking events. Outside of work, he has also recently provided advice to a UK Harbour Master and given informal talks on navigation to local walking clubs.

**POTTER, David**

David Potter is a Climate and Environment Adviser at the Department for International Development. He holds a BSc in Geography, an MSc in Environmental Management and a PhD in Geography, from the University of Nottingham. David has nearly 10 years' experience working for central government, including the Cabinet Office and the Treasury. Recently, David has worked on international climate issues in the Department of Energy and Climate Change and now in the Department for International Development. He has worked in Ethiopia, India and Bangladesh and is a member of the government's Climate and Environment Cadre, a group of expert advisers. David's academic interests include landscape interpretation and cultural geography, in particular of British exploration in the second half of the twentieth century. David's professional interests are in disaster resilience, urban development, international climate finance and air pollution.

**POTTS, Jonathan**

Jonathan is the Senior Specialist in Marine Environment and Policy at the National Maritime Museum. Jonathan has a BSc (Hons) in Geography from University College London and a PhD in Marine Geography from Cardiff University. Jonathan leads the Museum's academic portfolio (research, publication, education, interpretation and sponsorship projects) that relate to contemporary maritime issues - in particular those that focus on marine and coastal geography, environmental studies and public stewardship and community participation. Jonathan is also a Chartered Marine Scientist.

**POWELL, Jonathan**

Jonathan is Deputy Headteacher and Head of Sixth Form at Clitheroe Royal Grammar School, a specialist Language College in Lancashire, having started work there in September 2008. Previously he was a Geography Advanced Skills Teacher at The Priory LSST in Lincoln, where he was also Head of Upper Sixth. He has overseen the successful achievement of the British Council/DCSF International School Award at CRGS, as well as at his former school and has recently led a reciprocal Sixth Form exchange with a partner school in Basilicata, Southern Italy. 2009 also saw Jonathan participate in a reciprocal school exchange with Xiwai International School in Shanghai. Jonathan has introduced and co-ordinates the AQA Bacc and Extended Project Qualification at CRGS and has been busy training staff as the EPQ develops and the number of participating students grows. He is especially interested in sharing good EPQ practice with colleagues.

**POWELL, Olivia**

Olivia has nearly twenty years' experience in both physical and human geography using geographical information systems (GIS). She graduated from La Sorbonne University, Paris, France with a BSc degree in Geography in 1999 and an MSc in Applied Environmental Sciences and GIS in 2002. In 2001, she started her professional career working in the Environment Agency in Flood and Coastal Management (South West Region) as a GIS Officer where she gained extensive knowledge of modelling flood risks using GIS (ESRI). In 2004, she applied her GIS skills into the field of Criminal Intelligence Analysis within Avon and Somerset Constabulary as a Senior Criminal Intelligence Analyst. During this time, she took on the role of GIS champion for the organisation and provided bespoke GIS training to the analytical profession as well as showcasing the value of GIS and spatial analysis in understanding criminal activity and behaviours. In 2014, she became the first GIS Manager appointed in Avon and Somerset Constabulary and she is now leading the organisation towards a comprehensive and integrated GIS and spatial information management solution. She is also the principal Public Sector Mapping Agreement contact. Through her various roles, Olivia has become skilled in a number of different areas including GIS (principally ESRI ArcGIS, MapInfo), gazetteer and address Information, spatial information management, modelling, partnership working and information sharing.

**PRATT, Andrew**

Andrew is currently Professor of Cultural Economy at City University London. Prior to this he was Professor of Culture, Media and Economy at King's College London, and Reader in Urban Cultural Economy at London School of Economics where he taught for 14 years. His specialist field is the social organisation of economic development, cities and economic space. Current research is concerned with the social aspects of the economic processes of agglomeration (institutions and networks), which involves both work on 'industrial

policy, creativity and innovation' and economic organisation. He has published widely and regularly presents at conferences around the world. Andy has produced a definition of the cultural sector that has been taken up and used by national and regional agencies in the UK and a variant of it for UNESCO. He is a member of an interdisciplinary research group at LSE interested in the analysis of the media, and he recently established an Urban Research Centre at LSE. Outside LSE he is interested in the relationship between policy and practice in the field of the cultural industries. He has acted as a consultant and advisor for the London Development Agency, South East Development Agency, the Arts Council, the Department of Culture, Media and Sport, Department of Trade and Industry and outside the UK in Hong Kong SAR, Barcelona, Catalunya, Bilbao and for the EU, UNESCO and UNCTAD.

**PRICE, Peter**

Peter is currently Head of Geography at Charterhouse School in Surrey. He believes that he is unique in world geography by teaching CIE Pre-U and IBDP. Peter is currently an IGCSE examiner for Edexcel and a Pre-U examiner for CIE, with examining of IBDP for the IBO hopefully starting in 2012. He runs a local network of Heads of Geography from Prep schools and is on the GA Independent Schools Special Interest Group, Post-16 & HE and Guildford Branch committees. Peter has presented at conferences for the RGS, GA (national & ISSIG) and IAPS. He was honoured to be asked to serve on the RGS National Curriculum review working party this year. He completed the Pembrokeshire Coast Path this year and is soon to start the return journey from north to south.

**PROVENZALE, Felipe**

Felipe has a BSc and an MSc degree in Geography from the Federal University of Uberlandia (Brazil), and has always worked with GIS. He started his professional career after completing a master's program in Geography in a sugarcane mill in the countryside of Brazil, being responsible for monitoring and surveying with GPS and making digital maps for agriculture. He encountered an environment where geographical information was extremely important but underused. He implemented the Geographic Information System using open-source GIS software. Today he is Corporate Supervisor of the Geotechnology and Modelling environment, where he works with the ArcGIS proprietary platform. He also devotes time to spread the word about the importance of the use of geographic information in different business spheres for non-professional geographers.

**PYATT, Sarah**

Sarah is a GIS specialist within the environment division of Mott MacDonald. This role has provided Sarah with a lot of opportunities to put her interest of geographical data and analysis in to practice. She has worked on environmental impact assessments, constraints mapping and engineering feasibility projects using GIS and spatial data, working with multidisciplinary teams to understand the complex interactions of people and their environments. She has combined this with being an active member in the wider geographical community including on the committee of the AGI East regional group and giving talks in local schools and organisations. Sarah has a great interest in how people can use and access geographic data in order to improve and add value to decision making, and she enjoys exploring new ways of providing this information to people.

**RAE, Alison**

Alison is Head of Geography at Roedean School in Brighton. She has a MA in Geographical Studies. Alison is currently an ATL Branch Geography Subject Consultant, and ATL Examinations Committee member, and has examined for OCR and AQA. She has produced numerous publications, and is a freelance series editor for 'Geofile'. Alison is a member of the Geographical Association and regularly attends their annual conference.

**RAINS, Tim**

Tim is an experienced GIS professional, with a background in transport and retail property research and a keen interest in spatial data collection, analysis and technology. Tim graduated from the University of Plymouth where he completed a BA in Geography. Since then, he has worked within the transport data collection and analysis field in the UK and Australia, covering all aspects of survey design and administration for transport modelling, engineering, planning and urban design consulting projects for private and public sector clients. He provided GIS expertise and survey management at transport planners SKM Colin Buchanan between 2006 and 2012, being actively involved in the promotion of GIS throughout a variety of projects. In September 2012, he moved into the property department in Sainsbury's where he provides GIS

support and analysis for the network planning and property insights team. He has an MSc in GISc from Birkbeck University.

**RAYADURGAM, Hrishikesh Mahadev**

Mr. Hrishikesh from India has more than 14 years of experience in GIS applications in water, climate change and overall environmental sector with a double masters in GIS from Indian and French institutions. He has been involved in designing, modelling of GIS based water supply, and storm water networks for various government and private agencies. He has used GIS in planning new industrial parks, retrofitting of existing industrial parks into green and climate resilient industrial parks including climate risk analysis while working with Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ). He has been involved in developing Industrial Information systems and watershed information systems. He has used GIS as decision-making tool for identifying locations for common effluent treatment plants and waste management for industrial parks. While working with Jamshedpur Utility and Services Company Ltd., (JUSCO), he has applied GIS in mapping water distribution networks mapping and designs and sewer network mapping. With The Energy and Resources Institute (TERI), he has gained experience in watershed modelling covering land use land cover mapping, ground water monitoring and mapping for providing solutions for ground water recharge structures. He has also carried out independent GIS based projects such as WebGIS-based intranet mapping. He has training many government and private agencies such as industrial associations, companies on GIS and GIS based applications related to water, climate and environmental management.

**READING, Alex**

Alex Reading graduated with a BSc (Hons) in Surveying Science from the University of Newcastle Upon Tyne in 1987. After working in private industry as a surveyor and then technical sales representative, in 1991 he joined what is currently the Defence Geographic Centre in and has worked as a Geospatial Analyst in a variety of roles ever since. He is experienced in the international military geospatial community, having spent much of his career representing UK Defence interests in a range of fora.

**REID, Alastair**

Alastair is the GIS Manager/Analyst at Registers of Scotland in Edinburgh. In his current role he is responsible for the development of GIS within the Land Registration/Cadastral sector. He developed an automated housing classification method used as part of the Registers of Scotland's official housing statistics and continues to work on house price statistics. He has a BSc (Hons.) in Chemistry from Heriot-Watt University, a postgraduate diploma in Conveyancing from Abertay University and an MSc in GIS with distinction from City University.

**REID, Fraser**

Fraser is currently a Principal consultant and team leader for the Transport Planning team at Parsons Brinckerhoff in Bristol. He has an honours degree in Geography from the University of Lancaster and a Post Graduate Certificate in Urban Design from the University of Westminster. Throughout his career to date, Fraser has applied his knowledge in Geography to the transportation and built environment industry across Europe.

**REWHORN, Sonja**

Sonja Rewhorn (FRGS) is a Visiting Lecturer for the Department of Geography and Development Studies and is in the early stages of her PhD on 'Rural Proofing' - Has the mechanism of rural proofing become effective and inherent in policy development process in England? Previously Sonja was a volunteer researcher at the University of Plymouth and Bournemouth University (November 2010 to September 2011). Since June 2003 (until June 2011) Sonja worked for the UK Government. Sonja was the Assistant Director for regional strategies across south east England and was Head of socio-economic rural policy for northwest England. Prior to working for the UK Government Sonja worked for local government developing and implementing environment and rural policies across unitary authorities of Bradford Council and the London Borough of Merton. Sonja's research interests are; rural proofing and rural socio-economic policy; community governance and community engagement in policy making; reflective and experiential research in democratic decision making; rural systems; developing policy in the digital age; pedagogy with practioners through action learning, particularly Japan.

**RHIND, David**

David is Chairman of the Nuffield Foundation and government's Advisory Panel on Public Sector Information plus Deputy Chair of the UK Statistics Authority. Previously he was Vice Chancellor of City University

London, and a member of the Geographic Information Science Group in the department. He has also been Director General of Ordnance Survey, a member of the Court (governing body) of the Bank of England and Chairman of the Board of a large NHS hospital. David has a BSc Special Honours in Geography with Geology from University of Bristol, a PhD in geomorphology from University of Edinburgh, a DSc from University of London and ten honorary DSc degrees from different universities. His research interests include Information policy, interaction effects between different policies impacting on GIS and International collaboration in GI and GIS. David was awarded the Centenary Medal of the Royal Scottish Geographical Society in 1992, HM Queen the Patron's Medal, Royal Geographical Society in 1997 and a CBE for services to geographical and social sciences New Year's Honours 2001. He is a Fellow of the Royal Society and an Honorary Fellow of the British Academy.

**RICHARDS, Keith**

Keith is Professor of Geography and Fellow of Emmanuel College at University of Cambridge. Keith has an MA and PhD from Jesus College, University of Cambridge. Keith is a fluvial geomorphologist with interests including river channel forms and processes in a wide range of environments; hydrological processes and sediment production and transfer processes in drainage basins; modelling of fluvial and hydrological systems. Keith's current research projects include modelling fluvial processes at a variety of time and space scales (river reaches to catchments) interactions of fluvial processes and floodplain ecology and the restoration of European floodplain forest ecosystems changes in the sediment delivery system and the channel forms of rivers in the Indo-Gangetic plains and the Himalayas applying photogrammetric, image analysis and GIS methods in the development of hydrological and fluid dynamic models.

**RICHARDSON, Paula**

Paula currently has several professional posts including the European Director of International Student Teaching for the University of Minnesota, USA, tutor on the ITT programme/PGCE at Goldsmith's University, independent advisor in Humanities, writer for BBC TV and BBC Active Education and also as a consultant for the Geographical Association. Paula has an MSc from the University of Surrey and is currently working towards a PhD. She has been a Fellow of the RGS-IBG since 1989 and is also a member of the Geographical Association. She has won several awards from the GA, and has also participated in numerous CPD and training opportunities.

**RIGBY, Robert Nicholas**

Brigadier Nicholas Rigby is Director of the Directorate of Defence Intelligence Joint Environment. Nicholas has a BSc in Geography from King's College London, a Postgraduate Diploma in Land Surveying from University College London, an Army Survey Course and Army Staff Course. Nicholas is a member of the Royal Institute of Chartered Surveyors (Geomatics) and has been awarded several military medals for his service. In addition to this Nicholas sits on a wide range of government, NATO and Commonwealth geo/environmental committees.

**RIGGAL, Jonathan**

Jonathan Riggall has extensive experience in working across the land development and infrastructure sectors. He undertook his undergraduate degree at Edinburgh University in Environmental Archaeology which mixed a range of geography, environmental, and archaeological modules from across departments. In undertaking the degree Jonathan travelled extensively through Europe and the Middle East working on archaeological excavations as an environmental analytics lead. Following this Jonathan started his professional career as an environmental and geographical consultant. My speciality is working between traditional infrastructure investment and land development projects providing project management and consultancy advice on technology, development viability and carbon management. This included work in the oil and gas sector, including working on new gas pipelines associated with Sakhalin and offshore wind farms, such as Triton Knoll, Through to developing new low carbon infrastructure investment models for regeneration projects such as Whitehall and Borden, Hampshire. As an owner of Peter Brett Associates (PBA) he leads a team of geographers practising development and infrastructure planning using a wide range of technical skills developed from degrees in geography. Jonathan has also supported the development of PBA's Young Consultants Forum and has worked alongside the RGS in developing professional standards of geographers in industry.

**RITSON Wendy**

Wendy graduated with a BA Honours in Geography from the University of Strathclyde, before completing an MSc by research in GIS at the University of Edinburgh. Since graduating in 2006 she has specialised in GIS and worked for a range of employers including a Local Authority, a water company and a fire and rescue

service before she moved into the renewable energy sector. She has a strong background in the development and management of GIS systems and has successfully translated business requirements into working solutions. Her work has involved reviewing systems and requirements, making recommendations for GIS development and subsequently implementing these. Other day to day tasks also include GIS analysis for high profile projects, preparing budgets, quality assurance, liaising with internal and external stakeholders, technical support and training.

**ROBERTS, David**

David is currently Deputy Headteacher at Middleton Technology School in Manchester. During his career David has been involved with exam boards and has had two periods on the Geography Subject Committee. He has also been involved in the training of teachers for various specifications. For the last 10 years David has been a member of the Geographical Association Secondary Committee, during which time he has represented the GA at QCA as part of the Geography Subject Committee. David has also been a Lead Practitioner for the SSAT.

**ROBERTS, Judith**

Judith is currently Head of Geography at Thurston Community College in Suffolk, prior to which she taught at St Benedict's Catholic School and Beyton Middle School. Judith is a Key Practitioner for Geography, organising Western area network meetings and supporting schools. She is also a Key Practitioner for Assessment for Learning for Suffolk. Judith is an active member of the SLN network, and has presented at numerous CPD events and conferences. Her previous school was a geography centre of excellence, and she hopes that in her new role at Thurston Community College she will also be able to achieve a Geography Quality Mark.

**ROBERTSON, Michael**

Since the beginning of his career at Ordnance Survey in 1976, Mike Robertson has been actively involved in the creation and manipulation of geographical information. He started as a traditional cartographer working on many of the scales of mapping produced by Ordnance Survey, migrating into digital mapping and then GIS. He helped to introduce digital mapping techniques into a traditional manual cartographic environment, before specialising in small scales mapping. This cartographic role started with system management of the small scales database, followed by the introduction of GIS into the Small Scales production environment to be used as a production tool. He has been involved in the creation of both the Euroregional and Euroglobal INSPIRE mapping projects. He then changed job role to become a cartographic developer, where he applied GIS to develop and instigate production efficiencies through the creation of new editing environments and flowlines using automation techniques. He is currently a software engineer within a cartographic production setting designing and developing automated production environments for cartographic map production and digital data products.

**ROBINSON, Damien**

Damien is a GIS Developer with the Northern Ireland Housing Executive. He has almost a decade of experience in GIS in both a professional and academic capacity and several years' experience as a commercial and public sector software developer. He has a PhD in Geography, specifically in geostatistics, and a BSc in Geography, both from Queen's University Belfast. He specialises in the design, development and testing of web and mobile mapping applications and is a supporter of open data and open source technologies.

**RODGER Thomas**

Thomas currently works as a GIS Technical Manager for the London Borough of Hackney where his role includes managing and developing GIS applications for the distribution of spatial information both within the council and to the community, managing a central database of the entire council's spatial data, and providing technical support to GIS users throughout the council. Prior to this, Thomas has been involved with producing and presenting spatial data and mapping for Surry Police, Map Marketing Ltd, Lovell Johns Ltd and Map Studio Ltd. He has a BA in Geography & English from University of the Witwatersrand, South Africa, and a Postgraduate Certificate in Geoinformatics from the University of Johannesburg (Rand Afrikaans University).

**ROE, Nicholas**

Nicholas is Deputy Director of Learning (Humanities) and Head of Geography at Maesteg Comprehensive School. Nicholas has been an examiner and teacher governor, and was awarded the Japan Foundation

Scholarship in 1998. He took part in an expedition to Iceland with Earthwatch as part of their scholarship in 2001. He has produced resources for ZigZag Education, which have been published online.

### **ROGERS Anthony**

Studying at Brighton Polytechnic and graduating with a Geography Hons degree from the University of Sussex in 1983 a short period of post-graduation international travel and employment led to Anthony's training as a teacher of Geography in 1986. Anthony spent seven years as a Geography teacher in the secondary sector from 1987 and from then to date continued the same in the tertiary sector. As a teacher he is a Geography A-level specialist, currently in a department with over 200 A-level Geographers, and has carved niches of expertise in field work, expeditions, GIS, sustainable transport and energy. In the past he has led school expeditions to India which combined community projects with adventure tourism. All of these were organised through our Indian partners meaning he worked directly with those who delivered the projects rather than through an intermediary. Most recently, after 17 years of leading field work in the Massif Centrale, he is working with a company in Croatia, Schools Own, to develop fieldwork opportunities for our students. He works beyond his main employment role at fostering local links themed around sustainability. He has trained both as an educational inspector of sixth form Geography departments for the peer inspection programme named EQR and as a trainer for NGB British Cycling, training cycle coaches.

### **ROGERS, David**

David is Curriculum Leader: Geography at Priory School Specialist Sports College in Portsmouth. He is a Regional Subject Advisor for the CfBT Trust and also a member of the Geography Collective. David sits on the GA's Secondary Phase committee and also helps to edit their magazine. David has won several awards for his work in the geographical community. He has been involved in presenting and attending numerous CPD opportunities, and has also been filmed for Teachers TV.

### **ROGERS, Peter**

Peter Rogers works as a Senior Developer within JBA Consulting, a multi-disciplinary Consultancy firm based in Skipton, North Yorkshire. He holds a BSc in Physical Geography and an MSc in GIS, both from Leicester University. Since joining JBA in 2002 Peter has used his geography background for a variety of clients across a wide range of sectors.

### **ROGERS, Rosalind**

Rosalind is an Analyst at JBA Consulting, and has over 6 years' experience in using and developing Geographical Information Systems, handling large geographic datasets including use of bespoke databases and data cleaning tools. She has a BSc in Physical Geography from the University of Hull.

### **ROLLS, Ian**

Ian began his career as a GIS Officer for GeoData at the University of Southampton where he worked for 6 years. In this role, Ian developed a broad foundation of knowledge in serving the geographic data requirements of both the GIS community and non-technical stakeholders and produced and taught revolutionary GIS training courses to internal geography students and external delegates. Ian's next role was as a Senior Consultant for Fugro EMU Ltd where he worked for five years before joining Ordnance Survey. In this role, Ian was solely responsible for project managing several consultancy projects for marine aggregate and renewable clients and helped to implement new data management and metadata policies working with MEDIN (Marine Environmental Data and Information Network) and developed a web mapping capability for the delivery of Fugro EMU's survey data using ArcGIS Server. Ian Rolls is now a Senior Consultant based at Ordnance Survey. Ian is currently managing the Production Engineering team which supports eleven production departments. In this role, Ian provides technical leadership for production system improvement, undertaking and guiding development, and influencing decisions that ensure appropriate GIS technologies are chosen, developed and implemented. The work Ian undertakes include technical development and research projects which test emerging technologies and enable production departments to take advantage of appropriate technical advances. When guiding his team Ian's focus is on efficiency saving, risk reduction and potential for bringing new value to the business. Ian also acts as an 'ambassador' for technical development when sharing information both within OS and externally.

### **ROONEY, Paul**

Paul is a Senior Lecturer in Geography at Liverpool Hope University. Paul has a BA in Geography and Environmental Studies, a Diploma in Landscape Interpretation and an MSc in Environmental Impact Assessment, all from University of Liverpool. Prior to becoming a Senior Lecturer at Liverpool Hope, Paul

was a Project Officer on the Sefton Coast Life Project and a Coastal Ranger for Sefton MBC working on coastal dune management.

**ROSE, James**

Jim is Emeritus Professor of Geography at Royal Holloway, University of London and a Visiting Research Fellow at the British Geological Survey, having previously held the Gordon Manley Chair of Geography at RHUL, and been head of Department at RHUL and Birkbeck, University of London. Jim has a BA and DSc in Geography from the University of Leicester and is recipient of the Murchison Award and Victoria Medal from the Royal Geographical Society and Coke Medal from the Geological Society. He has also been elected as an Honorary Member of the Quaternary Research Association and Life member of INQUA. Jim's main research interests focus on Quaternary Science with special reference to glacial history of Britain and northern Europe, palaeosols, Quaternary river development, environmental and sea-level change of the Mediterranean region and the climate and environment of early Humans in northern Europe. He is also heavily involved in studying the processes of cold climate Geomorphology and Sedimentology. He has been a member and Deputy Chair of the Geography Panel of the HEFCE RAE in 1996 and 2001 respectively, and was Deputy Chair of the Earth Sciences Panel for the Netherlands Universities Research Assessment Exercise in 2002. Jim was Editor-in-Chief of Quaternary Science Reviews for 14 years until 2008 and is now Editor-in-Chief of the Proceedings of the Geologists' Association, as well as a member of the Editorial Board of Quaternary International, Boreas and Journal of Quaternary Science. He is a member of the Natural England Science Advisory Committee covering the area of Earth Science, and is Chairman of the Charmouth Heritage Coast Centre, a geological charity located along the UNESCO Jurassic Coast World Heritage Site and based in the village where he now lives.

**ROSE, Stephen**

Steve is a Technical Director with JBA Consulting in Yorkshire. He has a BSc in Geography and Topographic Science from University College Swansea and an MSc in Engineering Hydrology from Imperial College, London. Steve has 25 years' experience of undertaking applied research and consultancy into the environmental impacts of agricultural and rural land management on water and soil resources. He has also led on a number of projects focusing on rural land drainage, strategic flood risk assessment, losses of agrochemicals and pathogens to surface waters and wetland restoration. Over the last 10 years Steve's work has become more concentrated in assessing, evaluating and promoting natural flood management and a working with natural processes approach for a range of clients across the UK. He has also published a number of scientific papers related to the findings of some of these research projects.

**ROSENTHAL, Robert**

Robert is a PGCE Tutor and Partnership Co-ordinator for the Schools of Education and Social Work at the University of Sussex. Prior to this, Robert was a geography teacher at a variety of schools and Sixth form centres. He has an MA in Sociology and Anthropology of Travel and Tourism, and has also been awarded the Fawcett Fellowship at University College London. Robert is also an external examiner for the Canterbury Christ Church University Geography PGCE course, and has attended and presented at numerous CPD events

**ROYLE, Stephen**

Steve Royle is Professor of Island Geography at Queen's University Belfast. He is a graduate of St John's College, Cambridge and has a PhD from Leicester University. Steve's main research focuses on the geography of islands, and settlement, including historical settlements, with extensive research undertaken in Ireland. He has been President of both the Geographical Society of Ireland and the Ulster Society for Irish Historical Studies. Steve also represents Ireland on the Council of British Geography and is Secretary of the Royal Irish Academy Committee for Geographical Sciences. He is a Member of the Royal Irish Academy.

**RUFF, Tony**

In 1983, Tony started his geographical career training for 2 years to become a cartographic draughtsman in the Civil Service at the Mapping and Charting Establishment (Royal Engineers) in Feltham, Middlesex. Throughout the eighties and early nineties he drew maps by hand, at scales from 1:1M to 1:5K to support UK Defence on operations and exercises. Moving into the digital era he became more involved with the training and development of geospatial analysts, facilitating tailored training courses for groups of newly recruited staff in the fundamentals of cartography, imagery interpretation and elements of map research. In 2006 he was seconded to the Royal School of Military Survey, Newbury where he studied for an MSc in Defence Geographic Information. After a spell in the private sector he returned to the Civil Service at the Defence Geographic Centre, Feltham. For four years he was responsible for maintaining the UK Defence's database

of vertical obstructions which was used to provide air crews with up to date flight safety critical digital geospatial data of powerlines and obstructions. Now he is responsible for the replication of digital geospatial data and oversees the scanning and plotting of thousands of maps each month to support UK Defence's ever growing need for geospatial information.

#### **RUSHMER, Lucy**

Lucy Rushmer is a Senior Geomorphologist and Hydrologist with over 10 years of environmental consultancy, research, teaching and field based experience. Her geomorphology expertise includes river processes, geomorphological field surveys and assessments, gravel bed river sediment erosion, transport and deposition studies, catchment scale management, fluvial audits, and Water Framework Directive (WFD) assessments. She has worked in a range of urban, rural, fluvial and coastal environments across the UK, Iceland and New Zealand. Lucy has developed strong technical hydrology skills and have experience of working on Catchment Flood Management Plans (CFMPs), Strategic Flood Risk Assessments (SFRAs), site specific Flood Risk Assessments (FRAs) and Flood Risk Management Appraisals. Catchment hydrology is important for the assessment of process based geomorphology, using a catchment scale approach to investigate site and reach scale flood risk issues in accordance with hydromorphological processes. I use the principles of geomorphology to manage flood risk issues. For example, she is currently using natural flood risk management techniques to help flood risk in an urban area of a catchment in South Yorkshire. The delivery of excess sediment from agricultural catchment land uses is reducing channel capacity and causing sediment deposition downstream, and exacerbating flood risk. Natural flood risk measures can be implemented in the upper catchment to reduce the amount of sediment reaching the watercourse and help to reduce flood risk further downstream. Before consultancy, Lucy was a Physical Geography Lecturer and Researcher in New Zealand. My teaching focused on fluvial processes, sedimentary processes and research methods, and included field based teaching. She worked in some large-scale braided river systems and alpine glacial environments. Her research involved scaling high magnitude field floods to a controlled laboratory flume environment to enable sediment transport processes and hydraulic processes to be observed and monitored, which cannot be achieved during field floods. I have published articles on fluvial processes, flood geomorphology and sediment dynamics during floods.

#### **RUSSELL, David**

I have worked for Ordnance Survey for twenty six years in a number of different GIS related roles. My current role is Senior GI Consultant in the Pre and Post-Sales Support team. I am responsible for leading a team of consultants working in the Local Government sector. My role is all about encouraging customers to get the most out of Ordnance Survey products by actively looking for best practice and sharing this with the larger community. I see myself as an evangelist for the use of geographic information and I'm continually looking to develop my knowledge and skills to ensure I can help others get the most out of geographical information.

#### **RUSSELL, Gillian**

Gillian is a Subject Leader of Geography at Abbot Beyne School in Burton-upon-Trent. She has a degree in Geography and Geology, and an MSc in Mineral Exploration. Gillian is a firm believer in fieldwork and has participated in and led various opportunities. She has led summer schools for Gifted and Talented students, which have involved links with numerous organizations. Gillian has led inset, both within her school and externally, and has mentored non-specialist teachers and NQTs. She has been a member of the Geographical Association for many years, and her school is a member of the RGS-IBG.

#### **RUTTER, John**

John Rutter is Headteacher of Inverness High School and former Principal Teacher of Geography at North Berwick High School. He has also been involved in the development of Scottish national qualifications in geography and GIS. Previously he worked as a scientist for the UK government's overseas development programme and as a tour leader for Explore Worldwide, spending many years in South and Central America, Africa and India. John has authored and contributed to several geography textbooks and writes for Nelson Thornes' Geofile and GeoActive and the TESS as well as various adventure travel magazines. He is a Scottish Mountain Bike Leader, GoMtb instructor and Forest School leader.

#### **SALES, Jake**

Jake's academic background lies in both geography and conservation which he used to great effect managing a challenging conservation project for the Wilderness Foundation UK on farmland in the heart of rural Essex. Prior to this, Jake was a Senior GIS Consultant at Roger Tym & Partners for almost 6 years. In this role, he worked on over 200 projects around the UK helping plan for housing, employment, retail, energy and the environment. A major achievement of Jake's was the creation of a custom GIS tool for a major

energy supplier to assess the cumulative environmental impacts of a 50km of proposed power lines (Consenting Risk Model). The tool found the optimum route with least environmental damage. In addition to this work, Jake teaches GIS to MSc and MA students at Writtle College; helping them to apply mapping and analysis to landscape architecture and design. Jake also owns his own GIS consultancy offering mapping and GIS analysis to planning consultants. He has a small client group who he works closely with on a range of projects.

#### **SAMUELS, Brian**

Brian recently retired from his part-time lecturer post at Nottingham Trent University in the Education Department (Secondary and Tertiary Department). Brian has a BA (Hons) in Geography from University of London and an MPhil from University of East Anglia. Brian has taught Geography for a number of years and has most recently moved into training teachers for PGCE and BSc (Hons) students. In addition to his teaching, Brian has been Vice Chairman of the OCR East Midlands Consultative Committee, a member of the Qualifications Committee of OCR and the Court of the University of Nottingham representing the National Association of Head Teachers; and has written for a number of educational publications. Brian has also just been elected Chair of the East Midlands Consultative Committee of OCR and also Chair of the (National) Life Members Committee of the National Association of Head Teachers. He has also been awarded the first Honorary Life Membership of the Association. Brian was awarded an M.B.E. for Services to Education and to the Community in East Midlands in the Queen's Birthday Honours of 2008 and is also a Member of the Court of the University of East Anglia.

#### **SANDELL, Mary**

Mary is currently Deputy Head at The Forest School in Wokingham, prior to which she was a Senior Teacher at Windsor Boys' School, and an Advanced Skills Teacher. She has led fieldwork in North Wales, Shropshire, Devon and Cornwall.

#### **SANDERS, Richard**

Richard is a Senior Catastrophe Risk Analyst for Willis Limited and is based in Singapore. Richard has a BSc in Geography from Birkbeck College, University of London and an MSc in Geographical Information from City University. Richard's work has mainly focused on managing a variety of catastrophe risk projects including flood modelling programs in the UK and Asia, earthquake risk assessment system for Turkey and Algeria, a UK coastal flood model and windstorm models for the UK and Japan. Although Richard has been the manager for these projects his work has also included detailed technical research and development. Richards work is now focused on flood, typhoon and earthquake risk in Asia, as well as a specialised and global role in catastrophe risk to Ports. Richard has published many of his findings in scientific papers in the UK and USA and has presented at a number of EU and international conferences.

#### **SAWYER, James**

James works as Director of Programmes for CDP, an environmental organisation utilising investment assets under management to drive disclosure for companies on climate change, deforestation and water impact. Prior to this James worked as Programme Director for Disaster Management at World Animal Protection and as Director of Operations for Coral Cay Conservation and has held posts with a range of development and conservation NGO's both overseas and in the UK. James is also an explorer and has led 14 expeditions and has experience of managing projects in over 40 countries. In 2009 James organised and led a team the first exploration of the interior of the North Negros Natural Park providing the first scientific evidence of the Visayan Spotted Deer (the world's rarest) in over 25 years. This was followed up in 2012 with a return to gain the first photos taken in the wild of the world's second rarest deer and wild pig species. In 2016 James and his team completed the first exploration of the Andravory Forest in Madagascar. He is a committee member of the British Animal Rescue and Trama Association and a trustee of the Ridge2Reef trust. He has a BSc (Hons) in Geography and an MSc in Emergency Planning and Disaster Management.

#### **SCACE, Robert**

Bob, a Consulting Geographer and Environmental Advisor for over 45 years, is President of Scace Environmental Advisors Inc. and for 25 years (1990-2015) was Regional Manager, then Senior Consultant, Environment to Stantec Consulting (International) Ltd., Calgary, Alberta, Canada. Bob has a MA (Hons) in Geography from University of Aberdeen, and MA and PhD in Geography from University of Calgary. His technical research and writing and multidisciplinary project management services have been directed across Canada and internationally (Caribbean, Latin America, Nigeria, New Zealand) to an array of commissions – in settings from urban centres to wildlands. Subject sites and landscapes have variously included parks and

protected spaces (national and provincial parks, historic sites, heritage rivers), First Nations lands, linear facilities (pipelines, highways, transmission lines), lakes and river basins, dams and reservoirs, mines, oil and gas fields and related infrastructure, airports, recreation facilities, urban green/brown spaces and contaminated sites. The range of clients is similarly broad-based: examples include: public sector - Governments of Canada, Peru, Barbados, Alberta and other Canadian provinces/territories; private sector - Canadian Pacific (Hotels, Railway), Devon Canada Corporation (energy); international agencies - Canadian International Development Agency (now DFATD), and institutional and community-based - EcoCanada, City of Calgary, Calgary Airport Authority. Bob helped found various entities (Canadian Environmental Industry Association, National and Provincial Parks Association of Canada (now CPAWS) in Southern Alberta), planned several international conferences, continues to supervise graduate students and has authored/edited papers, monographs, conference proceedings and books. He received the National Parks Centennial Award from the Government of Canada.

### **SCHEMBRI, John**

John coordinates the Geography Division within the Mediterranean Institute of the University of Malta. He has a BA in Contemporary Mediterranean Studies and History from the University of Malta and an MA and a PhD in Geography both from the University of Durham. Creating links with British and other and other universities, helped him to work towards developing the Geography Department at the university, expanding its capacity and promoting the importance of the subject to attract more students. John's research and lecturing interest is in the population geography of walled towns in terms of demographic change, migration and housing, and coastal zone management in urban coastal areas integrating field studies to most courses. Walled Towns in Malta have become an important part of the undergraduate programme with students having the opportunity to undertake fieldwork experience. John has presented his research about the Maltese Islands and Mediterranean coasts in conferences and academic publications. John contributes regularly to the Training Programme on Regional Ocean Governance of the International Ocean Institute. He is also active in the National Board of Examinations (MATSEC) in Malta and has maintained professional development through a number of meetings and seminars organised by the board.

### **SCHOLES, Ronald**

Ronald has a Certificate in Education from University of Birmingham, a Diploma of Advanced Study in Education from University of Keele and a Masters in Education from University of Manchester. Although now officially retired, Ronald continues to write a number of travel books, including illustrated talks on the UK and overseas. He has planned and completed many long distance walks, including routes from Cape Wrath to Lands End, from Cardiff to Conway, from Ravenglass in Cumbria to Berwick-upon-Tweed in Northumberland and from the Isle of Wight to the Isle of Anglesey. He has provided the hand-drawn route maps for the new publication of A Pennine Journey, a walk of 247 miles from Settle to the Roman Wall and back to Settle. Ronald is an Honorary Member of the Wainwright Society.

### **SCRAFTON, Derek**

Derek Scrafton's career covered all aspects of transport policy, planning, research, operations, finance and administration, initially in the Canadian Department of Transport's Policy & Research Branch (1966-1971), then as South Australia's Director General of Transport (1972-1997). Other appointments included the Canadian Council on Urban & Regional Research, SA Railways Advisory Board, State Transport Authority, City of Adelaide Planning Commission, and Commissioner of the Australian National Railways Commission. Membership of federal inquiries included the National Transport Planning Taskforce, the Railway Industry Council, the Industry Commission Inquiry into Urban Transport, and the Productivity Commission Inquiry into Progress in Rail Reform. Since retiring in 1997, Dr Scrafton has been associated with the Transport Systems research group at the University of South Australia as Adjunct Professor of Transport Policy & Planning.

### **SEABOURN, John**

John is currently Senior Mapping and GIS Manager at the Department of Energy and Climate Change. Previously, John worked as a Geospatial Analyst at the Defence Geographic Centre (part of the Ministry of Defence), which supplies the UK armed forces with geospatial data. He was part of a team creating bespoke mapping and foundation data from stereo imagery for use in Afghanistan. John graduated from Leicester University with a BSc Geography and Geology in 2004. He joined the Defence Geographic Centre (DGC) in 2005 as a Geospatial Analyst. In 2006 he joined the National Air Traffic Service (NATS) training as an Air Traffic Controller before returning to DGC in 2010.

### **SELDON, Clare**

Clare is Principal Consultant at Steer Davies Gleave and leads the Cartographic Design offer within the Design for Movement team where she has developed the mapping standards across both print and digital media. A graduate of Oxford Brookes cartography degree programme, she has spent her career developing effective transport and wayfinding mapping and exploring opportunities where cartographic design can be implemented in new digital media solutions. Her breadth of work ensures Clare's continual development in the current market for sustainable travel solutions and has led to several commendations of her work in the BCS Annual Awards as well as winning the 2013 Avenza Award for Electronic Mapping for the Swindon Travel Choices Journey Planning map. Since 2000, Clare has been a volunteer with The British Cartographic Society (BCS), arranging the Annual Awards until 2008, contributing to the Society Magazine and re-developing the website to increase awareness of cartography. This led to the creation of a new blog and developing the BCS social networks to grow membership numbers and maintain the Society's outreach programme [www.cartography.org.uk](http://www.cartography.org.uk). In 2009 Clare was asked to develop and lead one of the sessions in the Better Mapping Seminars, to talk about web mapping and has continued that success in the more recent seminars across Britain and Northern Ireland. Clare plays a very active role in The BCS and is a regular invited speaker at events delivering CPD programmes to delegates of BCS and AGI, and was invited to speak at the International Cartographic Association workshop on User Issues in Geospatial Public Transport Information in Paris in July 2011. Clare is also a regular volunteer with the successful Restless Earth Schools Workshops that BCS developed for Year 10 students.

**SELLICK, Jessica**

Jessica is a Director at Rose Regeneration where she takes a leading role in the development of physical regeneration projects in rural and coastal communities. Jessica has previously worked in the agriculture programme at the new economics foundation (nef), the food and farming division at Defra, and for Maplecroft Maps. Jessica has a BA Honours in Geography and Environmental Studies from the University of the West of England; and an MSc in Society and Space and PhD in Geographical Sciences from the University of Bristol. In her spare time, Jessica works for UTASS (Upper Teesdale Agricultural Support Services) in a voluntary capacity. UTASS provides a wide range of support services to communities in Teesdale and specialises in agricultural matters.

**SELMES, Ian**

Ian is a Geography Teacher, Staff Tutor and Professional Tutor at Oakham School in Rutland. Ian is an Independent Schools Team Inspector for the Independent Schools Inspectorate, and also is heavily involved in the Geographical Association. He has links to the University of Cambridge and University of Loughborough via PGCE partnerships, and has been involved in work with the General Teaching Council for England. He has given numerous lectures and organised many CPD opportunities.

**SENYAH, Francis**

Francis is part of the Public Health England GIS team, a key area of the wider Emergency Response Department. The GIS team works across the whole organisation to provide a strategic lead relating on the effective use of GI, providing specialist training, central geospatial information management and solution delivery capabilities. Central to the GIS teams' function is the provision of customised tools and applications to identify, analyse and respond to potential public health threats derived by infectious disease, hazardous chemicals, poisons or radiation. The team also utilises a range of resources to advise government on potential health hazards, and aims to positively help inform healthcare decision making.

**SERCOMBE, David**

David is GIS Development Manager at Teignbridge District Council. David has a BSc (Hons) degree in Marine Geography from Cardiff University and a PgDip in GIS from the University of Glamorgan.

**SHAHEED, Asad**

Asad is a planner and architect and Director of Halcrow Group Ltd. Asad has a degree in Architecture from Washington University and a Masters in Architecture from Pratt Institute New York. Asad has been responsible for the International Development Planning and Urban Design activities at Halcrow for over 10 years. Asad has worked on a range of UK work including integrated town centre studies, urban regeneration, master planning and conservation projects. Asad has also worked on a number of overseas projects including most recently working in Dominica, British Virgin Islands and Anguilla.

**SHAHID, Rizwan**

Rizwan has PhD in Geography and Master's in GIS (MGIS) from the University of Calgary. He also has a Master's degree in Computer Sciences. Rizwan has over 20 years of international experience utilizing his

GIS and remote sensing/image processing skills in a variety of projects in South Asia, Middle East and North America. Rizwan is Adjunct Assistant Professor at the Department of Geography, University of Calgary and has also been working as Geographic Information Scientist at Alberta Health Services where he is actively involved in applied geography research and in the design and development of GIS since 2005. He also leads a GIS group there. Rizwan has also been providing GIS services to Stantec Consulting for over 10 years where he was awarded GIS Team Award of Excellence in 2013. He is also certified GIS Professional (GISP) and had served on GISCI (GIS Certification Institute) Reviewer committee from 2006 to 2015. Rizwan is recipient of prestigious Dr. Jean C. Nelson Memorial Award (2009), Queen Elizabeth II Doctoral Scholarship (2007), and Alberta Graduate Scholarship (2005) for academic excellence. He organized GIS Day events and actively participate in Geographies of Health group. He has served on Communication Committee of GeoAlberta annual conferences and was invited a number of times for guest lectures at the University of Calgary and SAIT (Southern Alberta Institute of Technology). Rizwan has a number of publications (peer reviewed, conference proceedings, book chapter, maps, and posters) and attends conferences and workshops regularly as part of the ongoing professional development.

**SHANKSTER, Michael**

Michael is Principal Officer (GIS) at the Environment Agency. He has worked within the water industry for the last 20 years initially as a person creating the datasets and producing the maps, latterly as the Regional GIS Coordinator working on both Regional and National GIS projects. His role has changed from a specialist providing a mapping service to a Technical advisor assisting a wider audience of staff to make better use of the software available to them.

**SHAPLEY, Paul**

Paul is currently the GIS and Admin Supervisor, LLPG custodian and Ordnance Survey Contact within the planning department at Neath Port Talbot County Borough Council. His previous ten year career as a Chartered Designer slowly gave way to his emerging interests in Geography as more digital mapping was required as part of his daily work. He graduated with both a PGc and PGd in (GIS and the Environment from the Manchester University Consortium (UNIGIS Distance Learning Programme) in 2003 and later with an MSc from the University of Glamorgan in 2008 researching Spatial Literacy and GIS skills in Community Involvement in order to help understand how the local development consultee would adapt and understand geographical information contained within web maps. It was during this research that he developed an interest in Public Participation using open source GIS Solutions would seem a natural coupling. The loss of a propriety server skill set from within the Authority I.T. Division would eventually prove to be the perfect opportunity to present the ideas around the OSGIS products the uptake of which would prove extremely successful in terms of productivity and cost savings. Paul has worked with Planning (Development Control) and Policy, Business Rates, Countryside and Central I.T on an interesting and diverse range of projects over twenty years which include among them GIS and Cartography, Urban Planning, Local Development Framework, Line of Sight Surveys to 3D Modelling of proposed new housing developments and the potential for wind energy. His other interests (aside Spatial Literacy with Public Participation GIS) include Geomorphology and Remote Sensing.

**SHARMA, Dinesh**

Dinesh is a Principal GIS Consultant in David Lock Associates. He has over 10 years of experience in a variety of GIS projects. He has been involved in planning and management of spatial data for urban planning and environment projects, spatial analysis, providing GIS mapping support and delivering GIS training to staff. He has a Bachelor's degree in Urban and Regional Planning and Post Graduate diploma in GIS from Indian Institute of Remote Sensing. He is a recipient of prestigious Commonwealth DFID scholarship and holds M.Phil. in GIS and Remote Sensing from Cambridge University.

**SHEARS, John**

Dr John Shears FRGS is a polar geographer and environmental scientist. In 2017, he established his own company, Shears Polar Limited, and provides expert lecturing, expedition guiding, and consultancy services for projects in the polar regions. Currently, he is leading and organising the logistics for a major British scientific expedition sailing to the Weddell Sea, Antarctica in January 2019.

He graduated from the University of Southampton with a First class honours degree in Geography in 1984. He continued his geographical studies at Southampton and was awarded a PhD in " The Environmental Assessment of Oil Pollution" in 1990.

John has over 25 years of experience of working in both Antarctica and the Arctic, first with the British Antarctic Survey, then with the Scott Polar Research Institute at the University of Cambridge, and now with

his own small consultancy. John is an expert in the Antarctic Treaty system and acted as environment, safety and operations adviser to the UK government in Treaty discussions for more than 20 years, and was a UK Antarctic Treaty Inspector in 2005, 2012 and 2015.

In 2016, John began working with the polar tourism industry. He was an invited guest expert speaker with the US operator, Polar Latitudes, on their Shackleton Centenary Cruise to South Georgia and Antarctica in November 2016. The Canadian tour operator, One Ocean Expeditions, have asked him to be a presenter and guide on their Arctic voyage to Baffin Island and Greenland in September 2018.

John volunteers with several UK geographical, polar and mountaineering charities. He is a long-standing Fellow of the Royal Geographical Society and has worked closely with them on many polar education and expedition projects for over a decade. He was the RGS Vice-President for Expeditions and Fieldwork from 2014 to 2017. He retains close links with the Scott Polar Research Institute and is the Treasurer of their volunteer Friends group. In 2017, he became the Chairman of the Trans-Antarctic Association, and also a RGS nominee and Chairman of the Management Committee of the Mount Everest Foundation.

### **SHIPTON, Matthew**

Matthew is an environmental scientist specialising in geospatial analysis. He has a Geography BSc from the University of Southampton (UK) and a Master's in Water Resources Management from the University of Adelaide (Australia). He has also studied GIS at a Master's level and has had several publications in geospatial literature. Matthew has 7 years professional experience working for a large multidisciplinary engineering consultancy. His work has primarily been in the UK but he also has international experience on projects concerning: EIA for city master planning (PWA, Doha, Qatar), future proofing water supplies (South Australia Water, Adelaide), improving water efficiency in heavy industry (EBRD, Russia), catchment management (Iricambi, Brazil) and water and sanitation strategy (EIB, Kenya and Tanzania). Matthew has also worked in Bangalore where he led a geospatial team that spent three months investigating the risk and consequence of sewer flooding. Matthew has participated in and project managed a range of geospatial studies for environmental assessments and options appraisals. He enjoys managing data intensive environmental projects which typically require custom geospatial analysis and may involve: spatial statistics, suitability mapping, utility network analysis (including hydraulic modelling), risk mapping, surface water runoff routing and deterministic interpolation. His experience means he is able to grasp complex engineering, economic, social and environmental concepts and produce practical and innovative solutions to difficult challenges.

### **SHORTRIDGE, Richard**

Richard is a Senior GIS Consultant at WS Atkins. He has a B.Sc. (Hons) in Zoology from the University of Edinburgh and an M.Phil. in Spatial Ecology from the University of Manchester. During his studies Richard worked as a voluntary researcher on three projects, one in the North of Scotland looking at the spatial distribution of Water Voles, another investigating Eider Duck nesting distribution on the Ythan Estuary, Aberdeenshire and finally oak plant gall distribution in the Northern Uplands of Hungary. For Atkins Richard specialises in GIS analysis, data management, data conversion, 3D visualisation, World Heritage Site Assessments and socio-economic analysis. These skills have enabled him to work on prestigious projects such as EU Flood GIS, London Olympics and the Heathrow 3<sup>rd</sup> Runway Investigation.

### **SIMM, David**

David is a Senior Lecturer in Physical Geography in the Department of Geography at Bath Spa University, where he has taught since 2001 after moving from St Mary's University College in London. He has also been the Course Leader for Development Geography at Bath Spa University. David studied for a BSc Joint Honours in Geography and Geology at Aberystwyth University and a PhD at the University of Exeter, which looked at patterns of flooding and overbank deposition on the floodplains of lowland rivers using sediment traps and radionuclides. He continues to research and teach on fluvial Geomorphology, in particular river restoration and River Trusts. He is also actively involved in pedagogic research, in particular the teaching of research methods using problem-based learning and the benefits of experiential learning on fieldwork. He is a former member of the British Society for Geomorphology's Executive Committee, and a former editor of the BSG's newsletter *Geophemera*.

### **SIMMONS, Ian**

Ian is Professor Emeritus and Hon Research Fellow at University of Durham. Ian has a BSc and PhD from the University of London, a DLitt from Durham University and an Honorary DSc from Aberdeen University. Ian's research interests have included the palaeoecology of the Mesolithic period in northern England and the environmental history of the moorlands of England and Wales. He is currently working on the medieval landscape evolution of South Lindsey. He also writes on the broad-scale global relations between ecology, economy and values in environmental history. He is still active in research and publication, with forthcoming

publications on the environmental history of East Lincolnshire. Ian was awarded the Victoria Medal of the Royal Geographical Society in 1998. Ian is also a Fellow of the British Academy, a Member of Academia Europaea and an FSA.

### **SIMONS, Gideon**

Experienced in the application of GIS to the design, engineering, P3 management and cost and risk consultancy, Gideon has enabled and facilitated organisations to gain more insight and achieve their business aims through a geographic, data driven approach. In this vein Gideon has designed, developed and deployed a wide range of solutions to promote digital strategy, improve business processes and enhance stakeholder engagement. He is a keen advocate of community and education and is involved in the Key Stage 3 curriculum with the BGS and UCL and their networking events and GIS open days.

### **SIMPSON, Richard**

Now semi-retired, Richard is sought out as an independent Outdoor Learning Adviser, canoe coach and mountain leader. He has previously been successful as Outdoor Education Adviser for Service Children's Education; advising schools throughout Germany, Cyprus and in rest of the world locations. His teaching career was marked by considerable achievement in a variety of roles in addition to those in the classroom, these included Head of Geography, Head of Humanities and Assistant Headteacher. Richard has a BSc. (Hons.) in Geography from Lanchester Polytechnic and a PGCE in Geography and Outdoor Education from UCNW Bangor. He is a Leading Practitioner of the (LPIOL). Geography underpins Richard's daily life and work in promoting and developing fieldwork and outdoor learning, in supporting others in their development in the outdoors and in his own outdoor adventures throughout Britain and elsewhere.

### **SKENTOS, Athanasios**

Athanasios is a Land Consultant within the advisory, programme and delivery division of Mott Macdonald. He has honours degrees in both Geography and Geology and he is currently a Phd candidate in Geography. Athanasios specializes in Land Registry, Spatial Analysis, Cartography and geomorphological mapping. Part of his work has been published in journals and presented at international conferences.

### **SLADDEN, Claire**

Claire specialises in geography and assessment. She is a Fellow of the Society, a Fellow of the Chartered Institute of Educational Assessors, a Chartered Educational Assessor (CEA) and a senior member of Trinity College, Cambridge. Her main involvement is with international examinations in geography, post-16, which she sets, examines, moderates, revises and inspects and for which she works as a training consultant internationally.

### **SLOGGETT, Gayle**

Gayle is a geography teacher at Felpham Community College. She has a geography degree from the University of Reading. Gayle is a member of the Geographical Association and works for Oxford University Press reviewing Geofile articles. She is an examiner for AQA and was awarded an Earthwatch teacher award in 2007. Gayle has developed links with the Environment Agency and Bournemouth City Council. Gayle attended the Science in Society course at Southampton University in 2014. She has also led CPD for teachers in her local area and been involved in geography sessions at a summer school for primary students.

### **SMIT, Hendrik**

Commander Hennie Smit is a Lecturer in Military Geography at University of Stellenbosch, South Africa. Hennie has a BA in Geography and an MA in Geography and Environmental Science both from University of Stellenbosch. Hennie has recently submitted his PhD proposal. Hennie teaches undergraduate courses in climatology, meteorology, geomorphology, political geography, urban geography and environmental studies. He has a number of publications and has attended many workshops, conferences and seminars as part of his ongoing continuing professional development.

### **SMITH, Alastair**

Alastair is Head of Geography at Gateacre School in Liverpool, having worked in schools across the North West of England. Alastair has held several leadership roles during this time including Head of Year and Head

of Sixth Form. Alastair is also a Specialist Leader of Education (SLE), working with schools across Cheshire, with expertise in the effectiveness of leadership and management; quality of teaching, learning and assessment and improving outcomes for children. Alastair is also the founder of the Liverpool Schools Geography Network which brings together over 80 Heads of Department, Teacher and Trainee Teachers of Geography across Liverpool. Alastair also supports schools across Liverpool in conjunction with School Improvement Liverpool (SIL) as a School Improvement Partner and has been recently appointed as the Chair of the SIL Geography Network Hub supporting Middle Leaders in improving teaching and learning within their departments. Alastair and his department hold the Secondary Geography Quality Mark (SGQM) and Centre of Excellence Status awarded by the Geographical Association (GA).

### **SMITH, Christopher**

Chris enlisted into the British Army in January 1996 joining the Royal Engineers and training as a Topographic Surveyor and gaining a HND. He deployed to Norway, Kuwait and Jordan conducting geodetic surveys supporting host nation and UK requirements. In early 2000 he chose to undertake a new role in the British Army because of his interest in GIS and has subsequently been employed in many positions within the defence geospatial community including analyst, data manager, training officer and subject matter expert. These roles have seen him deploy worldwide including the conflicts in Iraq and Afghanistan. Over the last 6 years he has been responsible for mentoring both Regular and Reservist geospatial soldiers ensuring that they are effectively trained to support UK Defence and Government requirements. In 2011 he started studying towards an MSc in GIS and Science through Kingston University which he was awarded in 2015 and in 2016 he was also awarded Chartered Management status in 2016. Chris has led Battlefield Studies in France, Belgium, Greece and Bosnia looking at the impact of terrain on the British Expeditionary Force during WWI and UN/NATO forces during the Balkans conflict. Outside of work he volunteers with his local Scout group often teaching map reading and navigation and he volunteers as a GeoMentor for schools. He is an Engineering Technician with the Engineering Council, Member of the Institute of Royal Engineers, Chartered Manager with the Chartered Management Institute, and Fellow of the Royal Geographical Society.

### **SMITH, Elizabeth**

Elizabeth is Curriculum Leader for Geography and Head of Humanities at Seaford Head School. Elizabeth writes her own geography blog and has delivered CPD on using mobile phones in teaching to the Brighton and Hove Geography Network. She visited Ethiopia as part of a 'connecting classrooms' visit run by the British Council and is a member of the Geographical Association. Elizabeth was also awarded an Earthwatch grant to sail around the Outer Hebrides and create education resources with a group of other teachers - these have been published online. She is a member of the GA's Special Interest Group on Sustainability.

### **SMITH, Heather**

Dr Heather Smith is an Academic Fellow in Water Governance at Cranfield University. Her research examines the intersections between science, policy, social drivers and management decisions around water services, with a particular emphasis on the adoption of innovative technologies and practices in the water sector. In broad terms she seeks to understand if and how water services can be made more resilient. She holds an MSc in Water Science, Policy and Management from the University of Oxford, and a PhD in Geography from the University of Aberdeen.

### **SMITH, Jean**

Jean Smith has an MA in Geography and Psychology from Dundee University, an MSC in Physical Geography from the University of Toronto, Canada and a postgraduate business diploma. She joined the MOD Mapping and Charting Establishment in August 1981 as a map researcher and has specialised in geographic research and terrain analysis in a number of posts during her career. She also has held posts in inhouse libraries and spent several years establishing policy and agreeing customer requirements for geographic support and how they should be satisfied. She spent 7 years in York as a corporate planner and manager of a private business college between 1995 and 2002. She has led elements of DGC's geographic research activities since November 2005 and has headed DGC's Human Geography team since its inception in 2008, working closely with UK and international partners to develop human geography approaches to complement topographic mapping in a military context. She was awarded an MBE in June 2009.

### **SMITH, Michael J.**

Mike J. Smith has received a B.Sc. (Hons.) degree in geography from the University of Wales, Aberystwyth, an M.Sc. degree in geography from the University of British Columbia and a Ph.D degree in palaeo-glaciology from the University of Sheffield. He is currently a Reader in Remote Sensing in the School of

Geography, Geology and the Environment at Kingston University, principally lecturing to bachelor and masters programmes on the application of remote sensing in the geosciences. His research interests are based around the application of digital elevation models in geomorphology and specifically focused upon the visualisation and geomorphometric modelling of glacial landscapes. Recent interests also include field spectroscopy of loess. He is the founder and Editor of the Journal of Maps.

**SMITH, Michael J. C.**

Michael has more than 30 years' experience, using his specialist skills in GIS and surveying to solve complex spatial problems. He joined Web GIS specialists Astun Technology Limited in 2010 after 3 years with addressing specialists Aligned Assets Limited and 7 years with GDC and then Pitney Bowes MapInfo. During his career he has worked on a number of projects, most notably Enterprise GI and Addressing solutions for more than 50 local authorities. Michael is a former Council Member (Director) of the Association of Geographic Information (AGI) where he represented the Welsh GI community. He is an active member of the AGI Cymru Steering Group and is also a member of the Royal Institution of Chartered Surveyors.

**SMITH, Robert**

Robert is a Director of Archaeo-Environmental Consulting in Manchester. He has an MSc in Wetland Archaeological Science and Management and a PhD in Geography, both from the University of Hull. After completion of his PhD, Robert became a Research Associate and then a Research Fellow, working within the Wetland Archaeology and Environments Research Centre (WAERC) at the University of Hull. He was responsible for managing a range of archaeological and environmental projects. Robert is currently an Associate of WAERC, and is involved in a number of ongoing commercial projects.

**SMITH, Peter**

Peter Smith has taught geography at school, polytechnic and university levels, including a period in a school of architecture using his town planning background. As one of Her Majesty's Inspectors of education [HMI] he was the national adviser for geography. He also managed the LEA inspection division of Ofsted. Now retired from full time work he is still active as a consultant in educational and environmental matters. He is a member of RGS-IBG Council, and chairman of the NE and Yorkshire branch of the RGS. He is an assessor for the C Geog applications. He is president of the National Association of Field Studies Officers [NAFSO], a trustee of the Field Studies Council [FSC], and a member of Brathay Exploration Group. In 2007 he was a judge of the RGS's Young Geographer of the Year Award and the Geographical Association's Worldwide competition. He is still actively involved with the Duke of Edinburgh's Award, and also travels widely to supervise young US trainee teachers on their placements in other countries. Peter sadly passed away in September 2013.

**SMYTH, Conor**

Conor studied at Queen's University Belfast, where he gained a BA (Hons) in Geography and a PhD which investigated the environmental impacts of land-use change in Rio de Janeiro State, Brazil, then as a Research Fellow he led research into the use of GIS at the micro-scale for agri-environmental modelling. In mid-August 2016, Conor was appointed to a key operational role to support the CEO of a recently formed cloud-based Earth Observation Analytics company to develop their international strategy promoting the development and use of machine learning, artificial intelligence and patented algorithms for sectoral business insight and actionable intelligence. Previously, Conor was Head of Research and Geodata services at EDINA, a national service centre, based at the University of Edinburgh with responsibility for strategic direction, development and provision of online geospatial services to the UK academic sector. Conor has also worked significantly in Operational GIS and network accessibility modelling in the public transport sector, with later responsibility for Corporate Divisional GIS activities. Throughout his professional career, Conor has been actively involved in promoting geographical skills and GIS as well as undertaking a variety of advisory roles. He travels extensively and has extensive experience and knowledge of Brazil and Latin American region. Conor is a former Chair of the AGI Northern Ireland Executive Committee and served on AGI Council, in London (2004-11). Conor was awarded the AGI 'Volunteer of the year' award in 2007. He also is a founding member of the RGS Northern Ireland Regional Group. Since inception, Conor continues to work with RGS-IBG on the CGeog (GIS) CPD Programme, as a final assessor and mentor.

**SNELLING, John**

John is currently the Head of Geography at Trinity School in Croydon, Surrey. He has previously taught in schools in Wolverhampton, Bogota (Columbia) and Norwich. John has had articles published in 'Teaching Geography' journal, and has recently produced some resources for the fieldwork strand of the Action Plan for Geography. He works within the GA's Outdoor Learning Working Group.



development and he later represented the Ministry of Defence in the DGIWG (Defence Geographic Information Working Group), and the geospatial standards organisations within NATO, BSI, and ISO. In 2002 Ian achieved a distinction in the Master of Business Administration programme at the Imperial College of Science, Technology and Medicine. Concurrently he led a multi-disciplinary team in the then Defence Geospatial and Imagery Intelligence Agency, providing the agency-wide customer engagement in the first part of the PICASSO equipment programme. Ian joined the Defence Geographic Centre Management Team in 2004 and held a variety of roles including leading capability planning, delivery and integration; business and resource management and corporate planning; learning & development; information management; and most recently geographic research. Since 2008 Ian has led the development of Human Geography concepts and capability, and championed the role of geospatial analysis in the development of wider Defence and Intelligence Community (IC) doctrine and procedures. He chairs the UK Defence Human Domain Community of Interest and co-chairs an international Defence Human Geography working group. He also leads the annual international conference on spatial socio-cultural knowledge at the Defence Academy. In October 2015 Ian was appointed as Director of the Defence Geographic Centre and Assistant Chief of Staff for Foundation Geospatial Intelligence within the Joint Forces Intelligence Group. Ian is a Chartered Geographer and Fellow of the Royal Geographical Society; a Chartered Manager and Member of the Chartered Management Institute; and a member of the British Cartographic Society.

#### **SPENCER, Robert**

Robert is Business Line Director – Sustainability at URS Infrastructure & Environment UK Limited. He has a BA in Geography from the University of Southampton and an MSc in Land Use and Forestry from the University of Oxford. Robert specialises in integrated resource management and has over 12 years' experience managing complex, multi-disciplinary projects and programmes in the UK and overseas. These have included several programmes for the UK's Department for International Development (DFID) in Central America, Nigeria and China where Robert has provided technical advice on state institutions and reform, environment policy, community-based management, capacity development and rural livelihoods and civil society partnership building. In the last three years Robert has involved himself in the emerging field of industrial ecology and the practical application of that discipline through the UK's National Industrial Symbiosis Programme (NISP). He is currently Programme Coordinator for NISP in South East England.

#### **SPILLER, Colin**

Colin Spiller has worked for the Environment Agency for over 10 years in Flood and Coastal Risk Management with a strong emphasis on risk analysis, GIS, mapping and incident preparedness & response. An interest in geography, geology, maps and GIS lead him to successfully complete an MSc in Applied GIS from Kingston Upon Thames University in 2011 and coupled with a back ground in Incident Management joined MapAction (Humanitarian mapping and information management NGO) in 2011. He continues to support MapAction as a deployable member of this unique organisation having completed missions to Africa (Congo), Indonesia (Western Sumatra) and the Philippines in 2013 (Tacloban City). He is also currently the Sussex Local Resilience Forum mapping champion for Resilience Direct. (The emergency services collaboration and incident response extranet).

#### **SPIVEY, Diane**

Diane is Director of SPV Consulting, a company she established in 2009 to provide economic and commercial development analysis and advice to the public, private and voluntary regeneration sectors. She combines this with visiting lecturer work at the University of Chester applying her regeneration knowledge to support the Housing and Regeneration Masters programmes work based learning modules and contribute to undergraduate teaching. A physical geographer by background with strong field research and Geographical Information System experience she has a BA (Hons) from the University of Brighton, Master's degree focused on permafrost research in the sub-arctic from Carleton University, Canada and a PhD which used GIS to model badland farm in South East Spain (University of Liverpool) funded and jointly supervised by University of Chester. She has worked as a lecturer at Liverpool Hope University and moved into the field of Environmental Due Diligence working for RPS Group Plc primarily in the French corporate mergers and acquisitions market. Over the past 12 years she has applied her skills in the field of economic development and commercial property regeneration in Liverpool and other areas of the Northwest.

#### **STANGER, Katherine**

Katherine is a Senior Air Quality Consultant, with over 15 years' experience in air quality assessment and policy analysis. Katherine joined Atkins in 2017 and has provided consultancy advice to private and public sector clients, on environmental impact assessments and policy appraisals. Prior to this, as a consultant and co-founder of Green Sphere Ltd., she provided programme management and technical consultancy to the

Low Emission Partnership, a group of local authorities working to reduce transport emissions. Technical work focussed on emission assessment and low emission planning. Katherine's previous roles include project leader for Air Quality Policy at Canterbury Regional Council, New Zealand, and consultant for both Entec UK Ltd. (now AMEC Foster Wheeler / Wood Group) and TNEI Ltd.

**STANTON, Paul**

Holding charterships in computer science, IT and transport planning, I specialize in the application of geospatial technologies to business analytics, development and location planning, accessibility analysis, network demand forecasting and sustainability best practice. For the past decade and a half, I have been engaged mainly on transportation studies, both in the UK and abroad, devising and applying several novel GIS applications along the way. More recently, I have concentrated my efforts on process improvements, project management and business development. Throughout this time I have promoted the use of GIS and spatial statistics: to realize efficiencies in the structuring, combination and application of data; to extract greater richness and insight from complex and voluminous data; and to help render the entire planning and decision process more transparent and open to non-specialists. Having spent more than a decade in commercial consultancy, I recently set up my own company, GeoSpecial. This has allowed me to spend more time pursuing my research interests (e.g. currently Membership Secretary for the BCS's Geospatial specialist group and reading for a research masters at Cambridge) and to extend my campaigning activities (e.g. opposing the relentless spread of 'BigBox' developments and co-founding the Trellis group, which aims to promote alternative energy futures amongst built environment professionals).

**STAPLETON, Rob**

Rob started his career in Geographical Information Systems (GIS) in 1991, later graduating from Kingston University in 1997 with First Class Honours in GIS. In 2003 he was appointed as GIS/LLPG Manager for Carlisle City Council where he worked to develop corporate awareness of the benefits of geography and GIS. For example, procuring and implementing an ArcGIS based corporate GIS solution, drastically revolutionising their geographic information management and analytical methods. Rob's GIS skills were of key importance during the 2005 Carlisle floods, in which the maps he produced greatly helped the emergency reaction to the flood. In March 2010 Rob joined Spatial Consultants Ltd as Senior Consultant, specialising in Public Sector and Telecoms projects, and in 2013 Rob took up the role as GIS Developer/Senior Consultant for the Water Research Centre (WRc) in Swindon. Rob is continually advancing his GIS skills, having participated in numerous related professional courses, as well as working to improve the skills of others.

**STARKE, Timothy**

Tim is currently Head of Geography at Glyn School in Surrey. He has a degree from the University of Surrey and an MSc in Quaternary Science. Tim has participated in a local network for geography teachers in his area, alongside a network developed by his own school. Tim shares his resources and expertise online, and has mentored PGCE students. He has participated in numerous CPD opportunities including RGS-IBG CPD events, and is working towards the GA Quality Mark for his department.

**STEDMAN, Stephanie**

Stephanie is a GIS Specialist who currently works at Transport for London. She has been working in the field of GIS since graduating from University of Nottingham with a 1st Class Hons BSc in Geography. Previously she has held GIS roles in environmental consultancy, and for local authorities and other public sector bodies. Skilled in GIS analysis, geospatial data management and web mapping technologies she enjoys using her skills to help keep London moving. Always up for learning more about her field, she is also passionate about promoting GIS to the wider community and the next generation, possibly over a few GeoDrinks!

**STEELE, Robert**

Robert works as the GIS Manager for Mole Valley District Council in Surrey. His role encompasses all aspects of GIS including those of provision, development, administration and best use of GIS throughout the authority. He is also involved in peripheral (IT) elements such as service strategy, design and provision, systems development and technical planning. He has developed the prominence and understanding of GIS among officers, senior management and elected members and helped to improve the efficiency and accuracy of decision-making at a corporate level. GIS now underpins all major business systems, is available to all staff and is integral to the daily operation of most services. Robert is the Deputy Project Lead for the authority's long term emissions reduction plan, which targets the carbon footprint of the organisation, its partners and the wider community of Mole Valley. He has been instrumental in the preparation and application of remedial measures drawn up in the authority's Carbon Management Plan 2010-2015. Robert

holds a BSc in Geography and Environmental Management from the University of the West of England Bristol. He is interested in 3D visualisation and preparing terrain models for environmental impact assessment.

#### **STEVENS, Martin**

Martin is currently Head of Learning and Development at the MOD's Defence Geographic Centre with responsibilities for the provision of training and skills development for all Geospatial Analysts across the MOD. During his career Martin has undertaken a wide variety of roles across the organisation, from conventional map compilation through photogrammetry, GIS production management, and the development of geospatial web services. Martin is also a member of the British Cartographic Society.

#### **STEYL, Ilse**

Ilse is a physical geographer and GIS specialist working in the field of environmental management & GIS analysis. She received her BA (Hons) degree from the University of Stellenbosch in South Africa, as well as her research Master's degree. Ilse went on to work at the Department of Water Affairs & Forestry in South Africa, where she did spatial analysis and managed GIS projects for afforestation and Strategic Environmental Assessment projects. In 2004, Ilse received her PhD from the University of Southampton in the UK, on examining the use of GIS in modelling water resources over a catchment-wide context. The knowledge gained through her research stood her in good stead working on a number of projects on international water management in countries such as China, Kazakhstan, the Philippines and Tanzania, whilst employed by the University of Southampton. Through her employment at the engineering consultancy Arup as Senior Scientist, she was involved in a number of projects ranging from river restoration, flood management and railway track drainage. In 2012, Ilse started her own geospatial company, Vista Spatial.

#### **STILEMAN, Mark**

Mark has been employed by Ordnance Survey since 2000 where he has worked in various roles. He is currently a product manager within the Imagery and Height portfolio. From 1997 to 2000 Mark worked for the Bermuda Government where he managed the conversion of the paper map sheets in to a seamless geographic database and a set of orthophotography. Before this Mark worked for Halcrow where his work involved the development of shoreline management plans and a database of coastal flood risk by postcode for the insurance industry.

#### **STIRRAT, Natalie**

Natalie Stirrat is a Senior GIS Specialist with over 10 years professional GIS experience, working on a wide range of GIS projects with a particular focus on data quality, data integrity, GIS data analysis and environmental GIS. She has extensive experience of the Middle East having worked in Abu Dhabi for 4 years, she now lives in the UK and works on a variety of GIS projects across the UK and Middle East. She holds a BSc (Hons) in Geography, Surveying and Mapping Science and an MSc in Geographical Information Science.

#### **STONE III, Eric**

In addition to being a CGeog, Eric is also Licensed as a Professional Land Surveyor within the State of California, USA (PLS8967); Licensed as a Registered Professional Photogrammetrist within the State of Oregon, USA (RPP80351); Certified as Geographic Information Systems Professional (GISP58978); and Certified as a Professional Photogrammetrist (CP1555) within the ISPRS-ASPRS. In August 2012, Eric was appointed by the Governor of the State of Oregon, USA; to a four year appointment on the seven member State Board of Examiners for Engineering and Land Surveying (a position he relinquished on moving to Saudi Arabia). Eric holds both Bachelor and Master of Science Degrees in Geography & Remote Sensing, and is currently looking for prospective PhD thesis topics, so as to continue his career following his work with the world's largest petroleum producer, Saudi Aramco (as a Surveying Specialist within the Geomatics Division). He aspires to continue his passion for Geography by teaching at a University level, where he can bring his practical hands on experiences in mapping from around the globe to new students in the field.

#### **STONE, Laura**

Laura is Assistant Principal at Burlington Danes Academy, prior to which she was Head of Humanities and Head of Geography. Laura is heavily involved in the ARK network and has presented many CPD sessions to its network of teachers. She has been involved in mentoring colleagues, and as a previous school was lead teacher for their Duke of Edinburgh. Laura has been on the Royal Geographical Society's Education

Committee, and is also currently its Honorary Secretary for Education. She won the TES Inspirational Teacher of the Year award in 2013, and was the winner of the ARK School Award also in 2013.

#### **STREET-PERROTT, Alayne**

Alayne is Research Professor of Physical Geography in the Tropical Palaeoenvironments Research Group at Swansea University. Alayne has a BA (Hons) from University of Cambridge, an MA in Geography and Geology from Colorado, an MA from Cambridge and an MA from Oxford, and a PhD in Late Quaternary Lakes in the Ziway-Shala Basin, Ethiopia from Cambridge. Alayne's research interests include Palaeoclimatology, palaeolimnology, tropical palaeoenvironments, stable isotopes, long-term changes in the carbon cycle in the tropics.

#### **STRONG, Tamarin**

Tamarin is a Senior GIS Consultant for the Midlands Campus Office of ARUP. She leads a team to provide GIS support to the wide range of engineering disciplines within the office. GIS work ranges in size and complexity from small site environmental assessments to large major infrastructure projects. Tamarin is committed to promoting a wider use and increased awareness of GIS and the availability of geographic data. This has been achieved by giving presentations and running training courses, both internally and to clients. Tamarin has a BSc (Hons) in Geology from the University of Southampton and an MSc in Mineral Exploration from Imperial College, with a dissertation focused on the cost effective use of GIS for desk based exploration. Previous roles have included GIS posts at the Environment Agency and a Local Authority transport and planning department.

#### **STUBBS, Gemma**

Since attaining a BSc (Hons) in Geography from Staffordshire University, Gemma has accumulated 15 years of experience across a range of business sectors and industries, both public and private, all of which have had an environmental and geographical emphasis. Gemma's current role is as an environmental advisor and GIS consultant within the sustainable development and environmental compliance department of MWH UK which involves working in partnership with a variety of different clients primarily within the water industry. Gemma guides the departments' application of GIS, which includes implementing protocols and standards in data management and production of outputs, as well as instigating process improvements. This includes advising and undertaking a wide range of projects for the different disciplines that make up the department, including ecology, landscape, water resources, land quality and planning.

#### **STUDDEN, Luke**

Luke is the LLPG & GIS Officer at the London Borough of Harrow where he has responsibility for both the Local Land & Property Gazetteer (LLPG) and all elements of GIS ranging from consultancy, project management, training and GIS Infrastructure. Luke has a BSc (Hons) in Geography from the University of Birmingham and an MSc in GIS from the University of Nottingham. Together with his PRINCE 2 practitioner qualification, he has proven to run successful GIS projects within the council, five of which have won several national "GeoPlace Exemplar" awards for their demonstration of innovation, financial savings and integration capabilities. Within the LLPG industry, Luke is an authority on LLPG Integration techniques and strategies and has presented on this subject extensively to a range of audiences. He has a keen interest in GNSS, positioning and pedestrian movements which stems from his time in academia where he presented at GISRUUK 2009 and co-authored a paper on the subject. Luke was also awarded AGI student of the Year in 2008 for his MSc, in addition to the RGS-IBG Alfred Steers Prize in 2007 for a highly commended undergraduate dissertation. He continues to further his skills in the field and keeps up to date with recent developments in order to enhance his capabilities.

#### **STUDLEY, John**

John has been interested in international forestry since the early 1970s. He undertook a number of qualifications in Forestry interspersed with work as a community forester in Nepal before his MA in Rural Social Development at Reading University and PhD at Loughborough University which involved research on ethno-forestry in Tibet. John combined his PhD studies with consultancy work for organisations including DFID, TNC and CSF in China, Tibet and Nepal. His work has included forestry research, conservation, curriculum development, forestry education and training, and community forestry. John is passionate about High Asia and he can speak Nepalese, Jumli (a Nepalese dialect), Tibetan and Mandarin. He has been privileged enough to be granted permission to visit areas of China normally off limits for Westerners. After a period in the UK, he is hoping to return to High Asia again in the near future.





providing expert support to projects using GIS and 3D modelling software and leading the training in these programmes both in the UK and overseas. In many projects he is the technical lead providing advice for project tenders regarding the use of GIS and 3D geological modelling software. These projects are wide ranging and include detailed urban geological models for assessment of ground conditions and local hazards in cities in the UK such as London and Manchester and overseas such as Abu Dhabi. He is the data manager for UK 3D, a national scale model which is used for resource evaluation and screening. In these projects much of his time is used to prepare data, provide expert advice during model construction and the delivery of these datasets in GIS or visualisation software. He currently uses a wide range of software to provide solutions to projects at BGS such as ArcGIS, FME, GSI3D, GOCAD-SKUA and GeoVisionary.

#### **TERRY, Alan**

Alan is currently Senior Lecturer in Geography at the University of the West of England. His research and teaching focuses on rural development in the Third World, particularly participatory development and community-led development. Alan is also involved in producing geography teaching materials for Key Stage 3 and is currently working towards establishing a regional centre of excellence for geography for the West Country to reinvigorate the subject at both AS/A level and KS3.

#### **TERRY, Richard**

Richard is a consultant for a GIS defence company with over five years GIS experience in the defence and public sectors. Graduating from the University of Southampton with a 2:1 in Oceanography and Geology Richard decided to further his education with an MSc in Coastal Engineering before seeking employment in the public sector. Richard joined the team at Helyx from Thames Valley Police, where he was the senior GIS technician and subject matter expert for the organisation. With a proven track record in GIS implementation Richard worked for several high profile clients including Olympic Planning Teams and the Home Office. At Helyx Richard provides ESRI software implementation and exploitation delivery for MoD clients and is currently the Lead Technical Consultant on specialist consultancy projects for ESRI Inc. Richard lives near Cheltenham, England.

#### **THOMAS, Allison**

Allison is EQMS Manager for the JBA Group with responsibility for maintaining, monitoring and improving the Environmental and Quality Management Systems in use across the JBA Group. Prior to taking up this role, Allison specialised in the economic assessment of flood risk management proposals. She was involved in this area for over 20 years at JBA and the Environment Agency and presented many courses on the subject. Allison is an experienced Project Manager having managed a wide range of flood risk and emergency planning projects including several multi-agency training exercises. She has a BSc in Geography and Landscape Studies from Southampton University and a Post Graduate Certificate in Management from the University of Northampton.

#### **THRIFT, Nigel**

Nigel became Vice-Chancellor of the University of Warwick in July 2006. Prior to that he was at the University of Oxford where he held posts as Head of the Division of Life and Environmental Sciences at Oxford and Pro-Vice-Chancellor for Research. Nigel has a BA (Hons) in Geography from University of Aberystwyth, a PhD from University of Bristol and a DSc from University of Bristol. Nigel's main research interests include money and finance, new forms of capitalism, the cultural impacts of information technologies, the history of time and time consciousness, non-representational theories, performance in all its forms and cities as foci of spatial and temporal experiment. Nigel was awarded the Heath Award from the Royal Geographical Society with IBG in 1988, the Newbiggin Prize from the Royal Scottish Geographical Society in 1998, the Medal of the University of Helsinki 1999, Victoria Medal of the RGS/IBG 2003, Fellow of the British Academy 2003 and been made an Academician by the Academy of Learned Societies for the Social Sciences in 2000.

#### **TIES, Stephanie**

Stephanie is a Geospatial Data Consultant at Environment Systems, a position that she has achieved following over seven years of commercial experience, built upon her MSc in Remote Sensing and GIS and a degree in Geography, in Geographical Information Systems (GIS) project management in various sectors of the environment and agriculture.

Stephanie has championed the application of GIS and Earth observation on major projects, most notably the COBWEB Project, an €8 million European-funded project, and the £6.2 million DFMS project, a UK Space Agency funded project mitigating drought and flood in Uganda. She works closely with multi-disciplinary teams and is proficient in managing a varied portfolio of geospatial data.

Stephanie has set up links with Aberystwyth University, which involve opportunities for geography and computer science students, through various work experience openings. Stephanie regularly hosts work experience students and has a particular interest in the movement of students from school to Higher Education and beyond in Geography and other environmental disciplines.

#### **TOON, Jane**

Jane has more than 20 years' experience in the GIS and IT industry working as a Software Test Engineer, Technical Author and Software Developer. She is currently a Software Test Engineer and Technical Author at Chameleon Information Management - a provider of Clinical Information Systems. Previously to that Jane worked as a Technical Author and GIS Product Engineer at Esri UK. Before joining Esri UK Jane was technical lead in a global team providing IT Knowledge Management at Arthur Andersen. She has also held roles as a GIS Software Developer in the Petroleum Services Group at Andersen (now Wood Mackenzie Upstream Oil and Gas), and as technical coordinator for the 'Cities Revealed' aerial photography range at The GeoInformation Group. Jane has a BSc in Geographical Information Systems from Kingston University, and an MSc in Remote Sensing from University College London.

#### **TOOR, Jeevan**

Mr Jeevan Toor gained a BSc (Hons) in Physical Sciences and computing then trained as a specialist Meteorologist and Oceanographer gaining a diploma in applied meteorology and oceanography. He was employed to provide specialist physical oceanographic support and practical data gathering in many oceans and littoral areas before managing a small government meteorological and oceanographic training section. Gaining further qualifications as a Cat B trained Hydrographic Surveyor he has worked in remote locations providing practical GIS disaster management support for some littoral communities and he has also worked inland providing meteorology and climate based anthropological and agri-meteorological advice to government representatives. He is now the Director of a Geo technology and sensor company based in Scotland.

#### **TOOTH, Stephen**

Stephen is a Professor in the Department of Geography and Earth Sciences, Aberystwyth University, Wales (formerly University of Wales, Aberystwyth). Stephen has a BSc in Geography from the University of Southampton, a PhD from the University of Wollongong, New South Wales, Australia, and a Postgraduate Certificate in Teaching in Higher Education from the University of Wales, Aberystwyth. Stephen's research interests include geomorphology and fluvial sedimentology, especially in the drylands of Australia and southern Africa. Particular research themes include: anabranching rivers; floodplains and floodouts; wetlands in drylands; channel-vegetation interactions; bedrock-influenced rivers; controls on gully erosion; long-term fluvial landscape development; palaeoenvironmental change; and the use of Earth analogues for interpretations of the geomorphology of Mars.

#### **TUCKER, Elizabeth Ann**

Following a Masters of Research in Ecology and Environmental Management, Elizabeth-Ann started a career within the Civil Service as a Scientist in 1999. This has allowed her to follow an interesting and varied career, although always focused on the interactions between place and environmental policy.

Liz has had posts as a field officer and also geographic analysis posts. Latterly she has been focused on improving how geography is applied within the policy making and delivery process. She has led on the development of a geography strategy for the Defra network, moving towards a skills and profession approach. This has developed towards a government approach. Elizabeth-Ann has also led Earth Observation policy, which included the EU Earth Observation policy (GMES).

She is now responsible for the Geographic Evidence Team, working with Defra and its bodies to use geography more effectively in policy and operational delivery. I represent Defra, and its interests, on various forums including the UK Environmental Observation Forum (UK-EOF) and the Cross Government group on UAV's. Liz is also responsible for management of the Met Office Hadley Centre contract for Defra.

#### **TURNBULL, Iain**

Iain Turnbull was originally educated as an ecologist and forester at the University of Edinburgh (BSc in Ecological Science and MPhil in Forestry Research). In 1986 he began working as a seasonal Countryside Ranger with the National Trust for Scotland (NTS) at Inverewe Gardens. Following further postgraduate study at the University of Edinburgh (MPhil in Forestry Research) he moved to Skye (1990-1991) to take up a post as a Research Assistant with Habitat Scotland and Skye Forum gathering data for the Skye Resource Data Atlas. In 1992 he moved back to Edinburgh as Senior Management Planner with the NTS and has since gravitated towards a significant geographical bias through his employment with the NTS Property

Manager (since 1996) and finally through an MSc in Geographical Information Systems at the University of Southampton (plus the University of Leeds and Penn State's World Campus). Iain is currently manager of Balmacara Estate, a 2550 hectare crofting estate in Wester Ross, and a part time GIS Consultant ([www.ruralgis.com](http://www.ruralgis.com)).

#### **TURNER, Matthew**

Since graduating from his GIS BSc in 2007, Matthew has worked in GIS roles within the utilities industry. Starting off at an electricity company who were trying to move their asset management away from CAD and spreadsheet datasets and into a bespoke GIS database, he gained experience in electricity management, schematics and training CAD operatives in using GIS. Then moving to an engineering company who were also trying to use GIS solutions to help manage their huge overhead line engineering projects including introducing the use of mobile tablet GIS platforms and online solutions for projects; as well as helping to automate their existing processes with routines and tools. He now works at a Land Agent / Chartered Surveyors company – providing the business with data management solutions, and plans for their wide variety of projects across the firm. Since joining, Matthew completed a MSc in GIS, taught online by the University of Leeds in conjunction with Penn State University in the USA. He is managing the GIS work for his company for some nationally significant infrastructure projects. The small GIS team are raising awareness of the capabilities of GIS and data management and constantly looking for new advancements and opportunities to improve the way the company deals with any geographical information. Outside of his role, Matthew has set up a link with a local school to introduce GIS work to their curriculum and hopefully get youngsters interested in a GIS career.

#### **VAN ROOYEN, Cobus**

Cobus is a GIS Consultant working in Aerospace, Defence, Security and Technology at Atkins. He provides geospatial analysis, WebGIS and mapping support on various large projects. Projects he has been involved in include High Speed Two, Thames Tideway Tunnel, London 2012 Summer Olympic Games and the National Traffic Control Centre (NTCC) project for the Highways Agency. Cobus has a degree in Urban and Regional Planning from the Cape Peninsula University of Technology (formerly Cape Technikon) and a MSc in Geographical Information Science from Birkbeck, University of London. He is currently a PhD researcher at Birkbeck and his research interests include the study of urban complexity through the application of agent-based simulation. Further interest includes the studying of the emergence and evolution of global cities, through the application of complex systems science. He is a member of the Institute for Science and Technology, the Complex Systems Society, the European Geosciences Union, the New England Complex Systems Institute and a Chartered Scientist with the UK Science Council. He also collaborates through his website ([www.complexsystemstheory.net](http://www.complexsystemstheory.net)) with international institutions, such as the Complexity Academy and Santa Fe Institute, for the distribution and sharing of knowledge in complexity science.

#### **VANN, Jonathan**

I work for the Environment Agency in Nottingham as a technical specialist in flood risk management. My role involves providing technical guidance to planning authorities and other partners in relation to new developments and determining permissions for works affecting watercourses such as new bridges, flood alleviation and hydropower schemes. I am involved in the programming and design of new flood alleviation schemes and partnership projects with local authorities to reduce flood risk and improve the quality of our rivers.

#### **VEENENDAAL, Oliver**

Oliver is currently a principal GIS Consultant within the Information Management Team at Black & Veatch. He has over 12 years of domestic and international consultancy experience with a comprehensive knowledge of applying GIS methods and techniques. Supported by strong database, programming and graphic design background, Oliver has applied his expertise to support clients from a range of backgrounds whether be outlining Asset Management Plans for water utilities, flood risk advice to the Environment Agency or providing spatial analysis for disaster recovery in Indonesia. Oliver continues to expand upon his expertise through various CPD activities and ongoing promotion of GIS to colleagues and clients.

#### **VESCOVI, Fabio**

Fabio Domenico Vescovi is a Remote Sensing Consultant with Airbus Defence and Space. Agronomist, he specialised in space applications to land mapping, agriculture, water management and precision farming. Particular focus on African environments, where he carried out surveys and tutorial activities for local

students. He developed his career in Geographic research institutions and private companies, spending some years in Italy, Germany and currently UK. He studied and applied the Earth Observation (EO) techniques to vegetation mapping and water resource monitoring in Kenya (1999) and in the Volta Basin (2000-02, Ghana and Burkina Faso). He was also engaged in developing commercial EO-based services for the hydropower companies in Europe (2004-08). Currently working as senior technical expert, his typical topics are the EO data applications for land use/cover change, water resource management in arid lands and precision farming. He is also fully engaged in COPERNICUS for quality evaluation of satellite images (CQC) and harmonization activities across satellite image providers and geographic data providers. He is technical expert consultant for agriculture by the European Commission.

#### **VINALL, Brian**

Brian is the Operations Manager in the Flood Forecasting Centre (FFC) – a joint partnership between the Environment Agency and the Met Office. He has a BSc in Geography from the University of Greenwich with a post graduate GIS qualification from UNIGIS. Employed by the Environment Agency since 1997, Brian started in Water Resources licensing and became a team leader in Flood Warning in the Kent Area. For both roles he engaged in GIS technology and techniques to change the way spatial data was handled. At this time Brian was also the GIS representative for the Area – helping many colleagues apply GIS techniques to their work problems. Since 2008 he has been working in the Met Office headquarters in the FFC. As the Operations Manager, Brian is responsible for a team of 15 Hydro meteorologists, delivering flood forecasting products to all Category 1&2 responders in England and Wales. Having been involved in the inception of the FFC Brian has created this team from scratch, including the formation of a professional accreditation of Hydrometeorology. In his operational role he is responsible for providing briefings on flood risk to senior stakeholders – including up to Prime Minister chaired COBRs. As Operations Manager Brian has let several contracts for provision of software solutions – most of which include a GIS element to allow us to visualise and analyse our data spatially. As a Geomorphologist Brian has a love of landforms and processes. He uses his hobby of Geocaching to allow him to explore and promote as much of our countryside as he can.

#### **VOGIATZAKIS, Ioannis**

Ioannis is currently a Research Fellow at the Centre for Agri-Environmental Research (CAER) in the School of Agriculture Policy and Development at the University of Reading. He has lectured extensively at Reading, Greece and Italy on Biogeography and GIS. His research interests include plant ecology and biogeography of Mediterranean islands and mountains, the application of GIS and remote sensing for vegetation and habitat modelling; landscape ecology and landscape character assessment. He has been consultant to UNEP on Mediterranean Landscape Management and UNIDO on GIS and Remote Sensing and he is the chief editor of "Mediterranean Island Landscapes: natural and cultural approaches" by Springer publishing

#### **WAIN, Peter**

Peter is GIS Manager in Kent and is Chair of the Kent GIS Group whose current membership includes all local authorities in Kent, Kent Police, Kent Fire and the NHS. He has been a Fellow of the Royal Geographical Society (RGS-IBG) and Member of the Association of Geographic Information (AGI) since his BSc (Hons) Geography Degree from Loughborough University in 1999. Peter has a personal website: <http://www.KentGIS.co.uk>. Connect with Peter on LinkedIn: <http://uk.linkedin.com/in/PeterWain> or follow him on Twitter: @KentGIS.

#### **WAKEFORD, David**

David has been a key member of the team responsible for the creation and development of the States of Guernsey Digital Mapping Service since its inception in 1996. He designed the digital mapping datasets for the Guernsey Bailiwick Islands and was responsible for its implementation, maintenance, and further developments. As manager of the Guernsey 'Digimap' his responsibilities include, maintenance of the existing mapping, GIS and GNSS, ensuring all new real world features are surveyed and entered into the GIS database, maintaining the corporate address data products, procuring aerial photography, business continuity of the IT systems, staff training, departmental procedures, and future developments and enhancements. All data products are provided through a commercial business partner, with annual licence fees ensuring that the mapping service is a net contributor to States of Guernsey Treasury revenues. In 2008 the States of Guernsey introduced a property tax system entirely based on their GIS and is now planning to introduce a state of art Land Registry. David has aimed to develop systems and data products that enable true corporate data sharing across both business and government GIS user communities. This commitment to developing the 'big picture' GIS has been very successful and the team has won a number of awards for their approach, the most recent being the 2010 AGI award for Innovation and Best Practice (Central

Government) award. Other awards include a Special Achievement in GIS, which was presented by Jack Dangermond at the 2003 ESRI International User Conference in San Diego.

#### **WALFORD, Nigel**

Nigel is Professor of Applied GIS in the School of Earth Sciences and Geography at University of Kingston. Nigel has a BA (Hons) from University of Sussex, a PhD from University of London and is a Fellow of the Higher Education Academy. Nigel's teaching and research interests include geodemographics, data and statistical analysis, land use and planning, geographical information systems, agricultural and rural geography. Current research projects relate to the application of geographical information systems to developing mobile GI tools to help older people navigate around unfamiliar spaces and to improving analysis and mapping of British population census statistics over time. Nigel is Treasurer of the Council of British Geography and British Association Recorder for the Geography Section.

#### **WALKER, Adrian**

I have been employed within a Local Authority since 1985 where I immediately began working with Ordnance Survey data and creating bespoke mapping. I began my first formal training in Geographical Information System (G.I.S.) in 1996, which led to the successful completion of an MSc in GIS in 2008, this alongside extensive experience of using GIS within a Local Authority has provided me with knowledge/experience of the issue/problems associated with Local Authority projects. I'm currently the Authority Liaison Officer (ALO) who is responsible for all mapping data supplied by the Mapping Services Agreement to the Authority. Additionally I'm joint ALO chair of the Yorkshire and Humberside G.O.R. Authority Liaison Group. My role throughout my career has been as an 'enabler', recent GIS projects include developing within a core group of staff including IBM/SERCO the Local Authorities Corporate GIS ICT infrastructure, developing a Decriminalised Parking Application with ESRI UK in 2008/09, worked with a select number of Local Authorities, IDeA (LGIH) and consultants on the creation of national standards for the creation of Basic Land and Property Unit Polygons, the successful implementation of an LLPG, including bespoke development of 3rd party software, being one of the first Local Authorities to capture all historical land use pertinent to Part IIA Environmental Protection Act for the entire district at all Ordnance Survey scales and managing a multitude of data capture projects for the Planning/Building Control, Land Charges and Highways. Finally I take a proactive lead for the Planning Service on the management and organisation of geographically based information and systems. Provide high quality mapping and spatial data analysis. Design and develop Geographical Information System applications. Lead on procuring the services of consultants/contractors and managing contracts.

#### **WALKER, Peter**

Peter currently works for Natural England in the field of marine data management and GIS. He is involved in the standardisation and management of the Organisation's marine evidence base, working between the marine and GIS teams and developing guidance for staff on data management issues. He also works to develop staff capability within the organisation around the application of GIS to marine spatial data through training courses and workshops.

Prior to this, he spent 4 years as a marine mapping scientist at the Countryside Council for Wales (Now Natural Resources Wales) in Bangor. Initially working on the HABMAP project to produce predictive habitat maps for the Southern Irish Sea, and then concentrating on mapping European designated marine habitats. CCW gave Peter plenty of opportunities to participate in fieldwork and learn about marine data gathering techniques, both on survey vessels and ashore, and it was here that his specialism in marine GIS began.

Peter has a BSc Honours in Geography from the University of Southampton, and a NS cub Geographical Information Science from the University of Edinburgh. He has also had experience in a small consultancy, a Natural Environment Research Council (NERC) research facility and as a volunteer field assistant in the arctic.

#### **WALKER, Robert**

Rob is a mathematician by training, holding an MA, MSc and PhD, and also being a Chartered Mathematician. He became involved in mapping in 1974 through work at the Meteorological Office where he wrote software to plot weather observations on maps. Since the early 1980s he has been involved in digital mapping, particularly for the utilities. After nearly twenty years of employment in the GI sector, he became an independent consultant and now works primarily on strategic studies and business and data analysis. Rob is heavily involved in Standards for geographic information, participating in the work of the International Standards Committee for GI, ISO/TC 211, and is Chairman of the corresponding European committee,



been involved in include, AS Western Transport Corridor Northern Ireland, Rhondda/Wyndham areas rising minewaters studies, A30 Five Miles Hills, and Khalifa Port Abu Dhabi.

**WARD, James**

James has spent the past sixteen years in the geography industry undertaking a land surveyor role with Ordnance Survey. Large scale topographic revision is his professional core content at OS whilst also maintaining a number of OS datasets which complement 1:1250/2500 scale mapping. His work is heavily influenced by GIS, which he uses for managing and collecting geospatial data, with GIS continuing to be a driving force with his CPD aspirations. Throughout his career James has undertaken numerous voluntary secondments within the organisation. James is particularly interested in new technologies and data portals which can aid geospatial data collection whilst supplementing current working practices. In particular James continues to engage with publicly Open Data in order to benefit the public service work he practices.

**WARD, Laura-Jayne**

Laura-Jayne studied Geography at St Catharine's College, Cambridge and stayed on to complete a PGCE in 2005-2006. She taught Geography in three inner London comprehensives for nearly 10 years including time spent as a subject leader for Geography, as a Head of Humanities and as an Assistant Head. During this time she studied for an MA in Geography Education at UCL Institute of Education, graduating in 2011, and as part of a project with the British Council. Both visited and hosted teachers from Rwanda in 2010/2011 to set up a joint project for students to focus on comparing daily lives and the environment in Rwanda and the UK and to work with the Geography teachers to support their classroom practice. Moving to Whitley academy in Coventry in January 2016 as an Assistant Principal, Laura-Jayne now leads the Humanities faculty and supports other local schools. She is a member of the Geographical Association post-16 and HE phases committee, regularly attends the Annual Conference and has participated in study tours to Ethiopia, Singapore and Malaysia.

**WARE, Ruth**

Ruth is Faculty Leader for Creative Environment at Bishop Justus C of E School in Bromley, Kent where she originally set up and managed the Geography Department from scratch. She led the Department to success in gaining the Geography Quality Mark Centre of Excellence Gold award in 2011. In 2009, the Geography Department achieved a Bradfords Award for innovation in Geography Teaching. She has presented a range of inset for teachers and trainees in the Borough as part of the Bromley Geography Project Chartered Geographer (Teacher) scheme including ecosystems fieldwork techniques and Aegis. Ruth is committed to outdoor learning both home and abroad and has worked with Kench Hill Education Centre, China People Promotions, Plan Ed, Bromley Rangers, The Wildlife and Wetlands Trust, The Commonwork Organic Trust, Hadlow College, Medway Council, Thames Water, Kew Gardens, the Kent Wildlife Trust, The London Docklands Museum and Environment Agency. She is involved in ITT and provides inset for NQT's and PGCE students from Christchurch Canterbury. In 2011 Ruth was awarded the Ordnance Survey award for excellence in teaching by the RGS-IBG.

**WASTLING, Toby**

Toby is an Environmental Consultant working for Temple Group, an Environment, Planning and Sustainability company.

He has always been interested in geography and the way in which people interact with the environment. Studying Geography (BSc) and Environmental Monitoring for Management (MSc) at Loughborough University developed his geographical knowledge, having studied a range of topics, and provided a strong understanding for a career in the geographical sector.

After graduating, he worked for AECOM as an Ecologist before moving to Temple Group in 2010 to undertake environmental impact assessment, primarily for new infrastructure. He is now a Principal Consultant having worked on a number of high profile projects. The core principle of his role is to understand and influence the social and environmental impacts of new infrastructure from the highest strategic level all the way through to site specific construction and operation. He works within multidisciplinary teams that not only include a range of environmental specialists but also Design Engineers, Constructability Engineers, Consultation and Engagement Specialists and Business Case teams.

**WATSON, Allan**

Allan is a lecturer in Human Geography at Staffordshire University. His main research interests are in urban cultural and economic geographies and global cities, centred on the cultural and creative economy. He is especially interested in culturally creative clusters and their knowledge networks; the spaces of cultural creativity within cities; creative labour; and the role of cultural and creative industries in the competitiveness

and sustainability of cities. He has a BSc in Geography and an MSc in Global Transformations both from Loughborough University, and is currently studying part-time for a PhD, also at Loughborough University. Allan is a research fellow of the Globalisation and World Cities Research Network.

#### **WATT, David**

David has been a geospatial analyst working at the Defence Geographic Centre, Ministry of Defence since 1986. He specialises in geographic analysis, initially operational research into the content and quality of civilian and military topographic mapping and then geographic data collection, initially over the British Isles then Asia Pacific regions. He now heads a team of six in the Africa, Middle East & Antarctica region of the MOD Geospatial Library. David has a BA (Hons) in Geography from Newcastle Polytechnic and Diploma in Cartography from University of Glasgow. David has been active in the British Cartographic Society since 1987, participating in Map Curator and Historical Military Mapping Group events and has been a Council member since 1997. He joined the Charles Close Society for the study of Ordnance Survey mapping in 1986 and was its Publications Manager between 1991 and 1997. He also has an interest in cartographic ephemera and the Soviet Cold War mapping of the United Kingdom.

#### **WESTOLL, Alun**

Alun Westoll is a Geospatial Analyst employed by the MOD's Defence Geographic Centre. He joined the organisation in 1988 and has experience in conventional and digital cartographic production delivering a wide range of mapping and geographic data products. He has been involved in the development of IT platforms to support the production of digital geographic data as well as being responsible for the update and maintenance of the organisations website(s) hosted on Defence Intranets providing electronic dissemination of geospatial data to UK Defence. He has supported the organisation in the development of partnerships with overseas mapping organisations and commercial partners critical to the collection of geographic information to meet MOD requirements. Currently acting in the high profile role of focal point of contact between DGC & Defence users of Geospatial Information ensuring customers receive the most appropriate products, services & advice to meet their requirements. He is a Fellow of the RGS.

#### **WHARTON, Geraldene**

Geraldene is a Senior Lecturer in Physical Geography at Queen Mary, University of London. She has a BSc in Geography from Sheffield and a PhD from Southampton and her research interests since 2002 have focused on a NERC-funded project LOCAR (Lowland Catchment Research Thematic Programme). Geraldene has an extensive publications list and has advanced geographical knowledge by giving sixth form lectures on river process and river management. In addition to be Secretary of the Geography Section of the British Association for Advancement of Science (1993-1998), Geraldene was Honorary Secretary (Education) of the RGS-IBG and served on the RGS-IBG.TTA Steering Committee; and since 2000, Geraldene has been Director of the River Restoration Centre (RRC).

#### **WHITE, Alison**

My interest in geography has lead me to study the discipline at university and forge a career in which I can apply and develop expertise in water and environment, underpinned by technical skills in GIS; this has provided me with what I believe is a foundation to become a Chartered Geographer. Having studied Geography at the University of Aberdeen, I developed an interest in flooding, which lead me to gear my degree towards related modules in hydrology and environment and I delivered a presentation on flood risk management in Cambridgeshire. Following graduation, my first role was as a Digital Cartographer for a nautical chart publishing company. In this role I used specialist GIS software to digitize leisure charts. I was then able to utilize these skills, along with the water and environmental knowledge gained in my degree, to develop a career in Hydraulic Modelling for an Engineering Consultancy. In this role I build hydraulic models of drainage networks to undertake flood risk and water quality assessments; this role requires continued use two main GIS software packages with which I have developed a proficiency that now allows me to deliver training in their use. I have taken on additional responsibilities outside of my employment which have contributed to my continued professional development; I have prepared and delivered a workshop to school children in which I spoke about how my Geography degree had lead me to a career in Hydraulic Modelling. I am also an active member of the CIWEM Scottish Branch and committee.

#### **WHITE, Catherine**

Catherine is a Senior Lecturer in Geography at the University of Northumbria in Newcastle upon Tyne. She has a BA from the University of Liverpool, a MLitt from the University of Northumbria and a MPhil from the University of Northumbria. She has a PGCE and taught for ten years in two secondary schools in South

Tyneside. She has been active in the Tyne and Wear branch of the Geographical Association since 2002 and was elected Chair in 2011. She has organised conferences since 2009 aiming to engage pupils from 10-18 with geography. She organises a series of lectures based on A Level syllabuses to provide additional case studies for these examinations. She has enabled 30 Geography Ambassadors to be trained in 2009, 2010 and 2012. They assist with the A Level marking workshops, the GA conference and with STEM funded fieldwork. Catherine has been a Fellow of the Royal Geographical Society (with The Institute of British Geographers) since 1994. She is interested in how students learn from fieldwork and has given papers on this topic at the RGS-IBG conference in 2011 and at the AAG in 2012. In her RGS-IBG papers she discussed her use of podcasting and flipcams in fieldwork. In her AAG paper in 20102 she showed how the student voice could be heard through the use of reflective diaries and open ended questions in questionnaires.

**WHITE, Karen**

Karen is a Principal Environmental Consultant with Royal Haskoning and has focused her 15 year career on the applied nature of physical geography. Karen has a Bachelor of Science (Honours) degree in Geography from the University of Melbourne and her expertise is broad, ranging from providing geomorphological advice on flood alleviation, bank stability, sedimentation and water abstraction issues to developing Water Framework Directive (WFD) hydromorphology guidance and creating bioengineering designs for river banks. Her strength is in integrating environmental science into engineering design based on her technical background in freshwater science, geomorphology, hydrology and river restoration. She has designed and advised on over 60 river restoration and enhancement schemes throughout the UK and Australia and has also worked on a number of overseas EIA projects in Europe, Australia, Liberia and Kenya. Karen is an associate member of the Institute of Environmental Management and Assessment (IEMA), a member of the River Restoration Centre and a member of the British Society for Geomorphology and the International Association of Geomorphologists.

**WHITE, Matthew**

Since 1996, Matthew has held various posts in the GIS field and is currently employed by the Ordnance Survey as a Senior Data and Services Relationship Manager, responsible for leading on Ordnance Survey's products engagement with partners and developers. He is a very self-motivated person who thrives on new opportunities and challenges. He is committed to developing business awareness about the importance of geography and using geographic information as a tool in the corporate world. He is an elected committee officer for the Association for Geographic Information's System and Service Providers Special Interest Group (SIG). As membership secretary, Matthew has led on the strategic direction and vision for the SIG, working closely with other committee officers and professionals across the geographic information industry.

**WHITEHEAD, Daniel**

Daniel is an environmental analyst for the State of New York, Department for Environmental Conservation. His primary tasks include project management for the environmental review of large scale projects, GIS training for staff and GIS support for visual impact assessments. Before taking on this role, Daniel worked as the Director of GIS for a landscape architecture company and he also spent ten years working as a geography teacher in London. He has a BA in humanities from Wolverhampton Polytechnic, a PGCE in geography education from Goldsmith's and an MA in geography.

**WHITEHEAD, Peter**

Peter is Principal Consultant with responsibility for dredging and process assessment for ABP Marine Environmental Research Limited (ABPmer), Southampton. Peter has a BSc (Hons) in Geography from University of London and is a chartered water and environmental manager (MCIWEM). Peter is responsible for management and undertaking of design and environmental studies with emphasis on dredging, navigation, hydrodynamic, geomorphic and sedimentation assessment. Peter continues to develop his work through attendance and presentation at courses and seminars along with in house research.

**WHITEHOUSE, Richard**

Richard is a Technical Director in the Coasts and Estuaries Group at HR Wallingford Ltd working on marine sediment transport and the geomorphology of coastal/estuary/offshore areas. He is responsible for UK, European and international project work including consultancy and research on the interaction of marine structures with the seabed and scour in the marine environment. Richard has a BSc (Hons) in Geography

and PhD from Royal Holloway, University of London. He publishes papers in conference proceedings and journals and has written two books for the Department of Environment Transport Regions (Scour at Marine Structures and Dynamics of Estuarine Muds).

**WHITELEY, Helen**

Helen is currently a GIS analyst for The Coal Authority, after working in the Geospatial Mapping and Analysis team at WS Atkins. She has an MSc with merit in Geographical Information Science from the University of Nottingham and a BA (Hons) degree in Geography and Archaeology / Ancient History from the University of Birmingham. She has worked in GIS for a number of public sector organisations such as Councils, the Police and the Environment Agency, giving her a wide scope of its applications and valuable experience in geospatial analysis, map production and data management. She has been highly involved in the Environmental Statement mapping for HS2 phase 1.

**WHITFIELD, Catherine**

I am an Associate and Technical Manager within WSP's Intelligent Transport Systems (ITS) business. Over my career I have applied my knowledge, skills and experience to support the delivery of studies, research, projects and business development activities relating to the application of technology in the transport environment. I have used my geographical skills to improve and enhance my work, applying a range of qualitative and quantitative techniques and analysing and researching the root cause of issues to underpin the development of solutions and provide strategies to support business growth. I have worked closely with a range of clients both nationally and internationally, including Highways England, the Department for Transport, Transport Scotland, the Dubai Roads and Transport Authority and the Abu Dhabi Department of Transport, helping formulate and deliver strategic programmes of work aimed at implementing a step change in the manner in which clients interact with their customers and deliver excellent outcomes. I specialise in the operational, driver interface and business elements of ITS, helping clients understand and formulate the outcomes they need and acting as the interface between those needs and detailed technical and operational solutions that meet them.

**WHITWORTH Michael**

Michael is a Senior Engineering Geologist/Geomorphologist with over 10 years of experience in Britain, Europe, Asia, Africa and the Middle East. He has been involved in a wide range of engineering projects, specialising in the evaluation of natural hazards (landslides and storm surges), engineering geomorphological surveys of mining/infrastructure projects and the supervision and reporting of large scale site investigation including overwater investigation, highways, marine structures, oil and gas and Nuclear Licensed Sites. His other areas of expertise include geological/geotechnical mapping, walkover surveys, land quality assessments, geotechnical design and construction. I am also an authority on ground anchorage installation and maintenance. In his previous role at Devonport Royal Dockyard Ltd he was the responsible engineer for the assessment and investigation into the geological aspects of the Nuclear Licensed Site. As part of Michael's work at Devonport, he also underwent Nuclear Safety Engineering training, producing a range of safety category justifications. As part of a collaboration with Plymouth University, he spent 12 months investigating landslide complexes in Sorbas, SE Spain using techniques including the interpretation of aerial photography and satellite imagery, geomorphological mapping and the use of Geographical Information Systems. This project led to him undertaking a part-time PhD (Passed with minor correction in December 2014) and he continues to collaborate on projects including a potential project investigating landslide processes in Central America and the use of low cost unmanned aerial vehicles (drones) to support geomorphological investigation and surveys. Michael has presented at several international conferences on a wide breadth of topics including landslides, ground anchorages and storm surge hazard assessments.

**WILCZEK, Magdalena**

Magda has over 10 years of experience in designing and developing geographic information processing, analysis and management workflows. She has worked across the geospatial value chain, from research and product development, through to development, implementation and management of geospatial data and workflows including project management. She has extensive experience in GIS, LIDAR, image processing, spatial analysis and report writing. As part of her current role she is responsible for managing GIS and providing technical management to projects. Magda has a BSc in Geodesy and Cartography, an MSc in Geoinformatics and an MSc in IT.

**WIDDOWFIELD, Sarah**



Outside of School work Matthew regularly takes part in online CPD and uses resources from Twitter and Ning sites. He helped to temporarily establish the Worcestershire GA branch in 2011 which included successful events from the likes of Alan Parkinson. He has helped to support educational training with groups such as Friends of the Earth.

#### **WILLIAMS, Neil**

Dr Neil Williams is a Principal Consultant (Geomorphologist) and AECOM's Practice Area Lead for Geomorphology. Neil's principal expertise are river and catchment processes, channel form and function, fine sediment mobilisation, transport and fate, flood risk assessment, sustainable river and catchment management and implementation of the Water Framework Directive (WFD). He has worked extensively with local authorities, water companies, developers, regulators and academics, in a broad range of catchment environments across the UK and overseas, bringing international experience to local projects. Neil has previously held two Postdoctoral Research Fellowships in Geography and Environmental Sciences, in the UK and in Canada. He retains active collaborative linkages in the research of channel form, particle dynamics, cohesive sediment transport, and the source, distribution and fate of nutrients and contaminants. Neil is a regular invited peer reviewer of submissions to major international journals, including research from the UK, USA, Canada, Brazil, India and China, and he has a series of publications on physical processes and sediment dynamics in river systems.

#### **WILLIAMS, Rachel**

Rachel Williams is an Asset Performance Team Leader in the Kent and South London Area, Flood and Coastal Risk Management department at the Environment Agency (EA). With a First Class BSc. Honours in Geography and receiving the Gregynog and James Fairgrieve Prize in Geography (Science) from The University of Wales, Aberystwyth, Rachel joined the EA in 2002 and spent the first 10 years of her career specializing in flood and coastal risk modelling, mapping, GIS and data management (FRM&DM). Building to a technical specialist level in the first five years, she has provided technical supervision to a team on National broadscale modelling to local detailed flood risk mapping. The mapping has underpinned the areas flood risk management decisions and activities from development and planning, incident management, emergency response and asset management. Following a successful technical career in the field, she has since led a number of FRM&DM teams across the South East. Today, she manages a team of 10 engineers and officers, responsible for overseeing the EA's flood risk management assets to protect thousands of people and properties at risk from flooding in South London.

#### **WILLIAMS, Vida**

Vida Williams is a Principal GIS Analyst for the design and engineering firm Jacobs. In this role Vida oversees the GIS team operations across five offices in the south of the UK, providing technical expertise and also team leadership. Vida is currently the GIS lead for a major 'Development Consent Order' to replace an aviation fuel pipeline from Southampton to Heathrow for the client Esso. Working on this multi-disciplinary project Vida leads a team of 6 GIS staff to ensure a robust and innovative common data environment to aid project progression. Web-apps, ArcGIS Collector, Story Maps, SDE and Portal, spatial and 3D analysis are all implemented on this and other projects.

Vida promotes geography and GIS outside the workplace through involvement in STEM activities, guiding work experience students and interns, and in particular through membership of an 'Active Travel' action group at a local school where Vida has used GIS to create walk and cycle time maps and to create an online travel questionnaire. Vida is a member of the RGS and ESRI GeoMentor programme. Prior to her position at Jacobs Vida worked at Steer transport consultancy and at Transport for London, using GIS for strategic planning work, and earlier in her career Vida was a GIS Consultant for Arup and worked as a Transport Planner for Mott MacDonald. She has an MA in Geography from the University of Cambridge and an MSc in Geographic Information Science from the University of London.

#### **WILLIAMSON, Kate**

Kate is Lead Teacher of Geography at The Maynard School, Exeter, which achieved the SGQM in September 2014. She began her teaching career in 2005 after graduating from the University of Bristol with a BSc and PGCE. Kate worked at a state boarding school in Somerset where she had a number of roles including Head of Geography and Extended Curriculum Co-ordinator Post-16, teaching AS citizenship and piloting the Extended Project Qualification. During this time Kate developed outdoor education at the school and became the DfE Co-ordinator and also running the Ten Tors expedition. She holds the Offsite Safety

management qualification and Walking Group Leader award as well as DfE Assessor. Kate completed an MEd in 2010 and has completed a breadth of INSET, more recently the Goldsmith's 'Science for Society' course at Southampton University. She has also supported PGCE students from Exeter University as ITEC and mentor. Kate is also in charge of running overseas expeditions at her school and has an interest in travel, exploration and fieldwork. She is currently a Fuchs Foundation Scholar and is currently planning research in Greenland in 2016.

#### **WILLIAMSON, Michael**

Mike is currently employed as a Senior Analyst at JBA Consulting which is an environmental, engineering and risk consultancy. Mike specialises in GIS analysis, integrated catchment modelling and rainfall-runoff modelling for clients including the Environment Agency, United Utilities, Yorkshire Water and several local authorities. Prior to joining JBA, Mike completed a BSc in Physical Geography at Liverpool John Moores University where his Thesis looked into the inundation of Spartina Anglica on the Sefton Coast using soil chemical analysis. Mike followed his BSc with an MSc in GIS at the University of Leeds which included a work placement with the Forestry Commission mapping the geomorphological features and temporal change of the River Liza as part of the Wild Ennerdale Partnership. Previous employment included the role as GIS and Research Specialist for the Open Spaces, Green Places project for the charity Friends of the Lake District; and as a GIS Consultant for AECOM (Faber Maunsell) working primarily in the fields of ecology and flood risk management. This included a four month secondment to Watershed Concepts in North Carolina, USA working on fluvial flood mapping projects.

#### **WILLIAMSON, Wendy**

Wend Williamson joined the Ministry of Defence, Defence Geographic Centre in 1986, completing a year of conventional cartographic training and a BTEC in Cartography and Surveying. Following 8 years of map production, she moved into computing, providing technical software support and development on Intergraph, Bentley and ESRI systems, covering flow line creation and data capture to map publishing. Summer 2004 she became the UK technical lead for the Multinational Geospatial Co-production Program (MGCP) with responsibility for writing the Extraction Guide, a 200+ feature document, describing geographic features, their attributes, geometry and relationships with each other, for inclusion in a worldwide database. Here she had the good fortune to meet many likeminded international counterparts. In November 2009 she was promoted to Head of Europe Branch. Here she assumed responsibility for the international relationships and bilateral arrangements, for the exchange of geospatial information between the UK and over 30 European partners. Throughout this work, she has written many Map Collection reports and frequently provides geospatial briefs to numerous visitors. Outside work, she is involved in Scouts, providing training for Map Reader, Navigator, Hiker and Environment badges, as well as organising activity trips to the Swiss Alps. She also volunteers time to attend the British Cartographic Society, Restless Earth events, taking geography in to secondary schools.

#### **WILLISON, Kate**

Kate is a Senior Spatial Consultant at Jacobs UK with over 7 years of experience in GIS, spatial analysis, data management, web mapping, mobile data collection and remote sensing (image processing, interpretation and analysis). Kate joined SKM Australia (now part of Jacobs) in 2007 and spent the next 5 years developing strong spatial analysis, mobile data collection and remote sensing skills with her work on large multi-disciplinary mining, climate change and infrastructure projects for clients such as Melbourne Water, the Department of Climate Change, BHP Billiton Iron Ore, Woodside Energy Ltd. and Rio Tinto Iron Ore. In 2011 Kate moved to the UK where she has worked on wind farm EIA's for Infinis, SSE, NBW Wind Energy Ltd and as project manager for the Landmarc Natural Capital Decision Support Tool. She has also worked on geothermal, mining and UK MOD projects in Kenya and Liberia with significant web mapping and data management/coordination components. Kate has a MSc in Carbon Management from the University of Edinburgh, a BGeomEng (Hons) in Geomatic Engineering and a BSc in Meteorology from the University of Melbourne.

#### **WILLS, Matt**

Matt has over 10 years' experience working with Geospatial Datasets and Systems and is currently Senior GIS Analyst with Britain's largest provider of land and property search information, Landmark Information Group. Matt has worked with mapping and geospatial datasets from a range of public and private sector bodies and is familiar with the issues that must be overcome in order to offer accurate, up to date and innovative products to a commercial audience of GIS professionals and non-technical end users. As well as

evaluating new datasets and understanding the technical requirements necessary to implement them, Matt also plays a key role in developing and promoting solutions to the business that increase the range of products that Landmark Information Group are able to offer. Over the years Matt has also been involved with a wide range of spatial data capture and classification projects, and has intimate knowledge of current and historic Ordnance Survey mapping and data products. Matt's current area of interest lies with data translation and GIS/CAD interoperability, as new ways are sought to provide GIS mapping, services and products to users outside of the traditional GI community. Examples of this include the development of a range of products to increase access to the Environment Agency's Digital Elevation Models, as well as offering Ordnance Survey vector mapping in ready to use packages for CAD users.

#### **WILLY, Tessa**

Tessa was the Education Visits Co-Ordinator for Langford Primary School, London where she was also the Humanities Co-ordinator, a Year 6 Class Teacher and member of the senior management team. She previously worked as head of Junior Outdoor Education at Ibstock Place School, Roehampton where she was responsible for setting up extra-curricular activities, adventure weeks and overseeing all school visits and residential field trips. She has also worked as a Geography teacher in secondary education, as a resident tutor in an environmental field centre, and overseas in Malawi. Tessa currently works as a Primary ITT Trainer at Roehampton University.

#### **WILSON, Alan**

Sir Alan Wilson FBA FRS graduated in Mathematics from Cambridge but converted to the social sciences through research on cities. He is best known for his pioneering work on spatial interaction methods and dynamical systems theory in transportation and urban modelling. His academic career was as Professor of Urban and Regional Geography at the University of Leeds in 1970 and was also the university's Vice-Chancellor from 1991 to 2004. From 2004-2006, Alan was the Director-General for Higher Education in the Department for Education and Skills. He is now Professor of Urban and Regional Systems in the Centre for Advanced Spatial Analysis at University College London. He was elected as FBA in 1994, AcSS in 2000 and FRS in 2006. He was knighted for services to higher education in 2001. He has honorary doctorates from the Pennsylvania State University (2002), Bradford, Leeds and Leeds Metropolitan Universities (2004) and Teesside University (2006) and honorary Fellowships from University College London (2003) and Corpus Christi College, Cambridge (2004).

#### **WINNING, Keith**

Keith is a Chartered Engineer, Environmentalist and Geographer, with over 25 years' experience in the field of pipeline design for major pipeline projects across the UK, Europe, Africa, the Middle East and the Former Soviet Union. He is a Member of the Institution of Mechanical Engineers and a Fellow of the Institution of Engineering Designers and the Royal Geographical Society. He holds Master's degrees in both Mechanical Engineering and Geographical Information Science and a PhD in the 'Application and Development of Advanced Engineering Geographical Information Systems for Pipeline Design.' He has authored and reviewed a number of peer reviewed papers across the fields of pipeline engineering, environmental engineering (soil erosion) and GIS. He specialises in the management and application of Geographical Information Science within the field of onshore pipeline routing and design to provide robust and innovative engineering solutions utilising the tripartite fields of engineering, design and GISc. He is also a corporate representative for the Pipeline Open Data Standards (PODS), with significant experience in the application of PODS to pipeline design.

#### **WITHERS, Charles**

Charles is Professor of Historical Geography at the University of Edinburgh. He has degrees from the University of St Andrews and from the University of Cambridge, and is a Fellow of the British Academy, the Royal Society of Edinburgh, the Royal Historical Society, an Academician of the Learned Societies for the Social Sciences and a member of the European Academy. His main research focuses on the historical geographies of science and of geographical knowledge, mainly in the Enlightenment, on the history of mapping and on the cultural geography of Gaelic Scotland. He has published extensively in these fields.

#### **WOOD, Peter**

Peter Wood obtained his BSc and PhD from the University of Birmingham. He is Emeritus Professor of Geography at University College London, and was Head of the UCL Department of Geography between 1997 and 2002. He held a number of other positions at UCL, including responsibilities for student recruitment, schools liaison and student welfare, and for some years was a member of the UCL Council. His original research interests were in manufacturing change and regional development, but his primary focus

from the 1980s became the service sector, especially the growth of producer and business services. Research projects supported by the ESRC and the European Commission included investigations into the growth of business services in England and Scotland; the regional conditions influencing their expansion to overseas markets; their role in providing clients with technical and managerial expertise and its regional implications; and the impacts of the use of business consultancies on client innovation. In the 1990s this work extended to studies of the qualities supporting economically successful cities in service based economies. Recent research includes studies of the internationalisation of UK higher education. Peter Wood was Vice-Chair of the RGS-IBG Chartered Geographer Final Assessors Committee between 2002 and 2014, and has been Hon Secretary of the Council of British Geography (COBRIG) since 2010. He is also Trustee of the Soddy Trust.

**WOODHEAD, Sylvia**

Sylvia was formerly a Senior Lecturer in human geography at Edge Hill University. Sylvia has a BSc (Hons) from the University of Leeds and an Advanced Diploma of Educational Management from the Open University. For many years Sylvia had an interest in developing innovative student assessments through group discussions and peer assessment, and had research interests in sustainability, environmental policy, heritage and countryside issues. Since retiring in 2005 Sylvia has used her geographical skills in a number of planning activities. These have included researching and writing a Community Plan for a Cumbrian parish, writing booklets of the geology of some Lakeland quarries, and membership of Cumbria Local Access Forum. Through consultation work with the latter she is advising organisations such as Natural England on strategies for implementation of coastal access.

**WOOLLISCROFT, Justin**

Justin is Programme Director for Secondary PGCE at the University of Hull and also runs the PGCE Secondary Geography course, teaching also on the Primary PGCE geography programme. Through the Action Plan for Geography, from 2007-11, Justin managed the Secondary Geography Quality Mark for the Geographical Association and remains heavily involved. For twenty-five years prior to this he had been Curriculum Leader for Geography at an 11-18 high school in Staffordshire. Justin also works as an Education Consultant and INSET trainer and has done recent work with the Geographical Association, OCR, Oxford University Press, Hodder and Stoughton, Heinemann and Lighthouse Professional Development. Justin is Chief Examiner and Principal Moderator for an innovative GCSE Geography specification and also is a Fellow of the Chartered Institute of Educational Assessors.

**WORSLEY, Ann**

Ann is a Senior Lecturer at Edge Hill University. Ann has a BA in Geography and a PhD in Palaeoecology both from University of Liverpool. Ann's research interests include environmental change in Mid-Wales, pollution histories and patterns of disease from various sites in Merseyside, Sediments and recent environmental change at the Sefton Coast and palaeoecological change at Formby. Ann is also currently the Chair of the Education and Research Task group of the Sefton Coastal Partnership and has recently organised two 6th Form conference on coastal issues.

**WORSMAN, Robin**

Robin completed a PGDE in Geography in 2009 and is currently teaching at Banchory Academy, Aberdeenshire. During 2009 she also continued to work as an environmental consultant and delivered lectures at the University of Aberdeen's Department of Geography and Environment. Robin uses her previous experience of working as a lecturer in aquatic ecology, a hydrologist, hydro-geologist, and project management in sustainable housing, to enhance her teaching of geography. She has contributed to a number of onshore wind farm environmental impact assessments; hydrological reports for SNH, quarry owners and housing developers.

**WORTHY, Kimberley**

Becoming elected as a Chartered Geographer provides formal recognition of my achievements and qualifications to date. It has enabled me to connect with like-minded geographers and expand my professional network, allowing access to further support, knowledge and opportunity.

**WRIGHT, David**

David is a geography graduate of Cambridge University, and has an MA (Geography in Education) from London University. He taught in Stevenage, Pittsburgh and Norwich. For 12 years he was the Geography Education lecturer at UEA, Norwich, before becoming a self-employed author, school inspector, adviser and consultant. He is a past chairman and president of the Norfolk branch of the Geographical Association. He is

author of *Maps with Latitude* (GA, 2000), of *Mapping Our Globe* (GA website, 2007), of 40 published articles on world maps, and 100 other articles on geographical education. He encourages the use of equal-area maps which do not distort shapes badly; his [W]Right World Map was launched in 2007. He is co-author of 15 books, including *Philip's Children's Atlas* (D&J Wright; 12<sup>th</sup> edition 2007); all atlases show the RGS-IBG logo. Over a million copies have been sold worldwide. He has written several articles on international textbook research, and he includes a geographical perspective in his writing on his leisure enthusiasms, including world travel, philately, hymns, and railways. David sadly passed away in late 2009.

### **WRIGHT, Philip**

Philip works at Cheadle Hulme School in Cheshire, having previously worked as a teacher of environmental education for the Peak District National Park. He was also previously a secondary geography teacher and head of house at Portsmouth Grammar School. Philip has a BA in Geography from University of Cambridge, a PGCE in Geography from University of Hull, an MA in Geography from University of Cambridge and a PhD in Geography from University of Southampton. In addition to his teaching Philip has devised schemes of work, attended residential conferences and been involved with the development of teaching resources and new methods of assessment such as the Decision Making Exercise, improvement of ICT skills and other INSET work. Philip advises on the Duke of Edinburgh's Award for Portsmouth Grammar School and is an accredited wild country assessor in the expeditions section.

### **WRIGHT, Malcolm**

Malcolm became a part time regional coordinator for the GA and cfbt in September 2007 working on the implementation of the then new KS3 geography curriculum. He gave a workshop on globalization at the SE regional conference at Gatwick in 2008. Since then he has been a consultant for the GA with the Kent coastline and Thames gateway issues as special areas of interest. As well he has worked in several local schools where there has been a need to fill geography positions including several short term covering as Head of Department or Head of Faculty and in positions where his advice has been sought to raise the profile/standards prior to Ofsted inspections including in underperforming schools. He is a local parish Councillor working on amongst others the planning and environmental committees. He has given talks to local organisations and last summer to the general public in the local library about the local geography and history of his area. He is a published author with a new local history of where he lives due out later this year.

### **WYSE, Stephanie**

Stephanie completed her undergraduate and Master's degrees in geography and history in her native New Zealand, before completing a PhD at King's College London, on women's social networks of wealth in New Zealand, c.1890 to 1950. Since graduation she has worked in a range of project management and administrative roles, most recently for the Royal Geographical Society (with IBG) where she works with the community of academic geographers in the UK through: supporting the Society's sub-disciplinary Research Groups, organisation of the Society's annual international conference, and, more recently, the development of teaching and learning resources for the wider HE geography community. A qualified PRINCE2 Practitioner, Stephanie also has a professional interest and skills in business process analysis and change management for software development and implementation projects, which she has put to good use across a variety of projects for the RGS-IBG and other organisations.

### **YOUNG, Andrew**

Andrew is currently GIS Manager in Oman for Atkins Acuity and is managing geospatial elements of the Oman National Spatial Strategy. Previously, he was Master Data Manager at Amey in Qatar, ICT Project Manager (Spatial Technologies) at Durham County Council, Chair of the Regional Chairs Address Group and the local authority representative on the Authority Executive Group for the National Address Gazetteer. He has been involved with GIS since 1995 when he developed a passion for Geographic Information whilst developing a GIS in Durham City Council. His involvement with gazetteers began with the inception of the National Land and Property Gazetteer in 1999 and he has played a major role in its development and evolution up to 2014 when he moved to Qatar. Andrew has presented on GIS and asset management, the use of gazetteers and geographic information, gave a state of the nation Gazetteer address at the GeoPlace conference each year and wrote a technical blog on addressing and spatial information called Addressing Everything.

### **YOUNG, Gareth**

Gareth qualified with a BSc (Hons) in geography from Queen's University Belfast followed by an MSc in

Geographical Information Systems from the University of Ulster in 2002. Following a period of voluntary work in East Africa, Gareth joined Land & Property Services (formerly Ordnance Survey of Northern Ireland (OSNI) in 2009. Since then, he has been seconded to the Rural Development Council and the Strategic Investment Board as a geospatial consultant. In these roles, he completed advanced spatial analysis which was used to inform and influence policy decisions within the rural sector and for major infrastructure projects. Gareth moved to take up the position of Spatial NI manager in 2014 and is currently responsible for managing OSNI's online mapping services and applications along with the Northern Ireland INSPIRE portal. Gareth is also member of the Association for Geographic Information (AGI) NI board.

**YOUNG, Helen**

Helen is a geography teacher at The Friary School in Lichfield, Staffs. Prior to this she has taught at Park Hall School in Solihull, St Mary Redcliffe & Temple School in Bristol and Writhlington School in Bath & N E Somerset. Helen has held an assortment of roles including Head of Geography, Second in Geography, Geography Outreach Leader and Gifted and Talented Coordinator. She has vast experience of carrying out fieldwork and she has provided outreach to geographers across the country on matters such as coaching staff to produce better resources, improving assessment systems, Gifted and Talented, ICT and GIS. Helen is also a freelance geography advisor to the BBC and she authors and reviews software for Boardworks. Her website can be found at [www.geographygeek.co.uk](http://www.geographygeek.co.uk). In 2011, Helen authored a textbook called Success With AEGIS 3 Basic Kit.

**YUILLE, Peter**

Currently Geographic Analyst at The Defence Geographic Centre.

**ZMUDA, Andrew**

Andrew is a Remote Sensing and GIS Scientist with over twenty years of experience in the use of airborne and satellite optical, SAR, and InSAR data and GIS for land applications. He currently works for Serco S.p.A. in Rome as a senior remote sensing application specialist and has previously worked for QinetiQ, Remote Sensing Applications Consultants Ltd, and Hunting Technical Services Ltd. Andrew has a BSc in Geology and Physical Geography from the University of Sheffield, and a MSc and PhD in Remote Sensing both from Cranfield University.