

Biographies of Chartered Geographers

Royal
Geographical
Society

with IBG

Advancing geography
and geographical learning

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.

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 8 years' experience in the GIS and Survey industries. I have a Bachelor's Degree in Geomatic Engineering 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 Trimble Devices. After 1.5 years in this role I moved to London where I have been employed for the past year as a GIS Data Analyst in the public sector. My current job involves 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 and Spatial Databases.

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 Worldwise 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 km² 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 Headteacher (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/fluviat 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

AUCHINCLOSS, 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 (<https://www.myguidegalicia.com/>).

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, English Resource Centre, geared to helping businesses and individuals improve their English. In his spare he's a Blogger specialising in the gastronomy of Galicia for a Group of Galician Bloggers known as Galicia Gastro. His next project is to open an Albergue for pilgrims doing the Camino de Santiago.

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.

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 known 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 belief 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.

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 in 2004, she has worked for JBA Consulting as an analyst in their Environmental Risk and Research Group, where she has been involved in the project management of national scale projects including the preparation of national flood mapping datasets. These projects have led to Vanessa gaining many years of experience in GIS related projects, floodplain mapping and 3D visualisation.

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), 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

Lorraine is a Geographical Information Scientist working and researching in the field of GIScience and spatial analysis since 1998. She chose to specialize in GIS early with a degree in Geography with Extended Studies in Europe at Queen's University Belfast followed by a Masters degree with distinction at the University of Leeds in GIS for Business and Service Planning. During the Masters she gained valuable

experience in GIS for business and retail applications through the understanding of GIS and analysis of geodemographics and quantitative statistics. Since then her experience has grown vastly from her position as GIS Researcher and Scientist with Queen's University Belfast. As part of her role at Queen's University she has guided, instructed and provided expert advice in all aspects of GIS, spatial analysis and survey techniques to staff and students within the department and across the University and for collaborative work with external organisations. She is directly involved with creating, designing and producing GIS training materials and contributes high levels of expertise in relation to GIS for a wide variety of environmental, social and demographic research projects. She can tailor GIS training and analysis to suit complex requirements. Ever seeking to further her professional development she is currently undertaking a part-time PhD within the School of Natural and Built Environment at Queen's University Belfast. The main focus of her research is the creation of functional regions from census data using GIS, python programming, spatial interaction modelling and geovisualization. Over the last five years she has specialised in open source geographical data science with a growing expertise in geospatial python programming for the analysis of big or complex data. She is particularly interested in promoting open source geospatial methodologies and open spatial data.

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, landuse 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) 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/>

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 Modeling 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.

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, 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.

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

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.

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, 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 a sustainability professional and urban geographer with a 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 spciaité 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.

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.

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.

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

domains, including space, defence, telecommunications, oil & gas and transport. Highlights of Peter's career include working for Lincoln Laboratory (a federally funded research and development centre of the Massachusetts Institute of Technology) and consulting at the NASA Kennedy Space Center.

COTTRILL, Michael

Mike Cottrill (BSc, MA) has occupied the role of senior technical advisor on GIS at Sellafeld Ltd for over 5 years, balancing time between the overall developments of GIS within the business and leading on GIS software development. Previous experience in the GI space includes postings with MWH, working on water utilities projects; GDC, working on local government projects; and Natural England, working on the 'Open Access' mapping project. He's also held a 3 year voluntary committee post with AGI's Northern Group, assisting in organising numerous events and helping to establish/maintain a 'geocommunity' in the North.

COULON, Pascal

Pascal has developed his Geomatic skills for over 15 years developing a range of technical experience throughout the Europe and Russia. Pascal graduated from National School of Geographic (ENSG) in Paris 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 the Department for Communities and Local Government (CLG). 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 land use planning, housing and forestry policy. At CLG he led the development of the Generalised Land Use Database small area statistics and maps on land cover in England. At Forestry Commission England he has led on the Corporate Plan Performance Indicators for the Annual Report & Accounts, and contributed to the Forest Enterprise Natural Capital Accounts. David has advised on spatial data policy and Open Data. He has led teams delivering maps and statistics for frontline colleagues across the organisation. He has contributed to Forest Research Agency publications on urban and social forestry, and led their team delivering the Official Statistics report on copses, hedgerows and lone trees for the National Forest Inventory.

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.

Development Agency and local Health Agencies, the World Health Organization; the Insitut National de la Santé et Recherche Medicale, 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.

DAVIES, Christopher

Chris is currently a Senior GIS Specialist at WSP | Parsons Brinckerhoff providing geospatial services for Transportation Planning, Highways, Energy Services, Environmental, Rail, and Offshore Teams across in the UK. He has gained experience in both GIS mapping and data analysis for HS2, Network Rail, Argent Property Developers, TfL, 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.

DEGG, Martin

Martin is the Acting Head of the Department of Geography and Development Studies at the University of Chester, where he has been involved with developing the curriculum. Martin has a BSc in Geography and Geology and PhD in Earthquake Hazard in the Middle East, both from University of Nottingham and his research still focuses on hazards and disasters. In 1989 he co-founded the Earthquake Hazard Atlas project for the insurance industry and he has also served on the Editorial Board of Geoscientist.

DIGBY, Bob

Bob taught for 35 years; 24 in three schools in Leeds and London and 11 in Higher Education, working as a Lecturer in Geography / Education at Sheffield, Manchester and Brunel Universities. He now works as a Community Geographer to the Geographical Association, as a leader of fieldwork for the FSC in London's new Olympic Park, as a freelance consultant (e.g. with local authority schools and Teach First beginning teachers), as a GCSE Principal Examiner, and as an author of a range of textbooks across the 14-18 age range. He now runs INSET for teachers, both at conferences and on a bespoke basis for schools, for himself and for organisations such as Philip Allan Updates, Edexcel and Teach First. He visits and speaks to a lot of schools and local Geographical Association networks about topics such as London 2012 and health issues in geography. He enjoys working directly with teachers and schools, and their students.

DIXSON, Ian

Ian is an Advanced Skills Teacher at The High Arcal School having previously been Head of Humanities and Lead Practitioner for SSAT. Ian has a B Sc (Hons) degree in Geography and MA Geography in Education from Institute of Education in London. AST role includes staff training, initial teacher training and curriculum development with both primary and secondary schools. Fieldtrips have included visits to Poland, Iceland, Tunisia, Morocco and Italy. Ian has lead the geography department at The High Arcal School to both Secondary Geography Quality Mark standard and, more recently, Centre of Excellence status. Published works include co-authoring a CD ROM for Channel 4 and articles for Teaching Geography, GA Magazine and Mapping News. In 2006 Ian was awarded the RGS-IBG Ordnance Survey Award for contributions to secondary geography education.

DODD, Stephen

Stephen graduated from the University of Newcastle upon Tyne in 1990 with an honours degree in Surveying Science and has since worked at the Defence Geographic Centre in Feltham. His career has provided him with experience and knowledge in geographic research, capturing geographic requirements,

and managing, exchanging, releasing and licensing geographic information. He is qualified in 3 modern European languages which enables him to translate geographic information and correspondence from countries that speak those languages. He is trained in how UK copyright law is applied to geographic 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.


DOWNES,**Peter**

Peter is currently an Associate Professor in Physical Geography in the School of Geography, Earth and Environmental Sciences at the University of Plymouth, UK, and is course director for the Masters degree in Sustainable Environmental Management. From 2002-2010 he was a consultant scientist at Stillwater Sciences in Berkeley, California, where as Senior Fluvial Geomorphologist he managed geomorphology and other staff undertaking process studies of geomorphology and integrated projects of watershed assessment and river restoration planning and design. He has a B.Sc. from the University of Leicester, a Ph.D. from the University of Southampton, and was previously a Lecturer in Geography at the University of Nottingham (1993-2000). He has published widely on the topics of human impacts on fluvial systems, the sensitivity of river channel morphodynamics, and river restoration and management. In this regard, he co-authored 'River Channel Management: towards sustainable catchment hydrosystems' with K.J. Gregory in 2004.

DOYLE,**Simon**

Simon is a management consultant working for PricewaterhouseCoopers LLP (PwC). He is responsible for managing and delivering advice to clients and for the development of geographic information and data fusion propositions. Simon has a BSc in Archaeology from Bradford University and an MSc in Geographic and Geodetic Information Systems from University College London. Prior to working for PwC, he held posts in Central Government and within the commercial software and data sector. Simon was a member of the Association for Geographic Information's Council from 2003 to 2009; he was Chair in 2006 and Hon. Secretary in 2009. He is an Honorary Research Fellow at UCL.

DREWRY, David

Professor David Drewry is Honorary Fellow at Emmanuel College, University of Cambridge where he was previously Director of the Scott Polar Research Institute. David has research interests in environmental science, particularly glaciology and climate change. He has published three books and more than 100 research papers (including in *Nature* and *Science*). He has led scientific expeditions to the Arctic and Antarctic. David holds a BSc in Geography with Geology from Queen Mary, University of London and a Doctorate in Geophysics from the University of Cambridge. He has honorary professorships at London University, Krakow Academy, Poland and Xiamen University, China. Professor Drewry is a Trustee of the Natural History Museum in London, Vice-President of the European University Association, chairing the Research Policy Group, and is Chair of the South Georgia Association. He was Vice-Chancellor of Hull University from 1999-2009 and previously Director of the British Antarctic Survey, Director-General of the British Council and Deputy Chief Executive of the Natural Environment Research Council. He was elected President of the International Arctic Science Committee, Founding Chair of the Council of Managers of National Antarctic Programs, Vice-President of the Royal Geographical Society (with IBG) and a member of the Intergovernmental Panel on Climate Change. David has been awarded the Polar Medal, the United States Antarctic Service Medal, the Patron's Gold Medal of the Royal Geographical Society (with IBG), the *Prix de la Belgica* Gold Medal of the Royal Academy of Belgium, and several honorary degrees from British and overseas universities. He has a mountain and a glacier named after him in Antarctica.

DUGGAN, Nicholas

Nicholas is a Principal Geospatial Specialist for Garsdale Design Ltd and also European Editor for Flatdog Media publication, xyHt. With almost a decade of geospatial experience working on many of the UK offshore & onshore renewable energy projects, Nicholas, has extensive knowledge of geospatial analysis for mitigating environmental, aviation, infrastructure, insurance and visual constraints to name a few. Having created GIS and geospatial technology solutions to maximise companies use of data, Nicholas is a keen advocate for 3D GIS, mixed reality, virtual reality & augmented reality with GIS. In his current role, Nicholas leads the 3D geospatial analysis and data creation, using his knowledge of the offshore and onshore industry to develop more insightful and intelligent geospatial solutions as well as consulting on integrating 3D within the project life cycle from data capture to visualisation. In his spare time, Nicholas brings the geographic community together under his alter ego, Dragons8mycat, engaging and helping new GIS users and professionals alike to help bridge the gaps in the ever expanding geospatial industry through both social media.

DRINKWATER, Ben

Ben is a GIS consultant with UK and US Defence market experience and wide ranging knowledge of GIS in a variety of sectors including utilities, environmental, reinsurance and defence. Ben obtained a BSc (2:1) in Environmental Science of the Earth and Atmosphere from Reading University in 2007 and a First Class MSc in Environmental Hazards and GIS from Coventry University in 2008.

Specialising in spatial data analysis, spatial data management, and GIS task automation, Ben has nexperience in 3D visualisation having been the technical lead on a number of 3D projects for the MOD regarding 3D visualisation of the littoral zone, as well 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.

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.

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

Graeme is Head of Geography at St. Mary Magdalene Academy in Highbury, prior to which he taught at Anglo European School in Essex. He has a Masters in Geographical Education from the IoE. Graeme was a Geography Champion for the Geographical Association, where he worked with a variety of primary schools, and is also an examiner and moderator for IB and OCR. Graeme is responsible for coordinating the geography element of the training of secondary school teachers on the GTP in Essex. Graeme has had several articles published in GA journals, and has also run a local CPD network for the RGS-IBG.

FARNWORTH, Michael

Michael specialised in urban regeneration and renewal for over thirty years and has now retired from full time employment. During his working life he was closely involved with the regeneration of former industrial towns in the North of England and was involved with regional working groups understanding the changes being experienced in the urban environment. Michael holds an MSc in Urban Renewal (Regeneration and Design) awarded by Liverpool John Moores University and is currently seeking support to undertake PhD research in an urban regeneration subject.

FARRACE, Sabrina

Sabrina has over seven years' experience as a GIS Specialist within various transport planning and engineering teams. Sabrina has an undergraduate degree in Geographic Analysis (GIS) and holds a Masters in Transport Planning & Engineering. Sabrina has been involved as Project Manager and GIS Team Lead within both transport and GIS related project work including: transport assessments, public transport feasibility, location and accessibility planning, town master planning and regeneration. She is experienced in producing supporting documentation for public consultation, marketing and data analysis. Sabrina holds extensive GIS and Accession analysis and information management skills, regularly utilising ArcMap, MapInfo, Arc GIS Server and Arc Online GIS as part of her daily role. Additionally, Sabrina is currently holds the post of BIM Manager at her establishment of employment and is responsible for the development and implementation of current BIM practice throughout her division. She contributes regularly to meetings, events and presentations with regard to GIS, BIM and Young Persons Professional Excellence working groups.



FAULDER, Jacqueline

Jacqui has applied GIS to asset management projects within the water and wastewater utility industry, as well as to contaminated land projects and environmental, engineering and government organisations. Her other areas of expertise include data management and analysis, remote sensing and the earth sciences. She has an MSc in Environmental Remote Sensing from the University of Aberdeen, a BSc (Honours) degree in Earth Science from Liverpool John Moores University and is a registered PRINCE2 Practitioner.

FERGUSON, Nick

Nick Ferguson is a passionate physical geographer. He completed a BSc in Physical Geography at Durham University in 2008 with a focus on glaciology, GIS and remote sensing, and later an MBA with Durham University Business School in 2015 (Distinction). He is Senior Vice President at NM Group, a company that specialises in applying geographical sciences to electricity transmission networks across the globe. A Yorkshireman by birth, he is currently based in Vancouver, Canada, working with utilities across North America. In previous roles he has also worked throughout the Middle East, Australia and parts of Europe and Africa. Nick's areas of technical expertise include consultancy for remote sensing, Geographical Information Systems, SAAS, powerline engineering, vegetation management, and asset management. Commercially, Nick has expertise in the areas of strategic planning, business development, solutions architecture, project management, product management and people management. He is a regular speaker and prolific writer for electricity industry conferences providing education and thought-leadership on the use of geospatial technologies.

FIELD, Kenneth

Dr Kenneth Field has a PhD in GIS and spent 20 years in academia in key positions in UK Universities. He was Course Director for GIS programmes at Kingston University in London where he also developed a world-leading online Masters program in GIS. He has presented and published widely on GIS and 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 plc 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 such as face-to-face interviews and focus groups. My life beyond university began in 2002 when I was gained employment as a geomorphologist working for Halcrow, a large, international engineering and environmental consultancy. My work and responsibilities have been extremely varied, and have included projects on sites at the coast, in rivers, on landslides and on the deep ocean floor. Central themes to my work have been geohazard risk assessment, climate change and communication of science to engineers and the public. During my working life I have maintained a record of publications and attendance at conferences and am responsible for mentoring junior members of staff.

FISHER, Benjamin

I am currently a Senior GIS Consultant at MacArthur Green. In my previous role as senior consultant at RSK, I provided GIS input to consultancy projects for both UK and international businesses. I primarily worked on environmental impact assessment projects for clients in sectors such as renewable energy, transport and utilities. I also had a GIS business development role within the company that involved researching current GIS innovations applicable to the consultancy and its services. The role was recognition of my self-motivation to ensure RSK was at the forefront of GIS within the environmental consultancy field. I am very keen on knowledge transfer and gained experience through conference participation, GIS articles and guest lecturers on topics including GIS in Coastal Zone Management, GIS in Environmental Impact Assessment (EIA) and GIS and Ecology. I am on the Association for Geographic Information (AGI) Scotland committee and an active member of the MapInfo Usergroup. Out with my GIS role I have also undertaken desktop studies on topics including salt marsh management, EIA chapters and ecological background data searches. I have also conducted bird surveys of estuary habitats. Previous jobs have included management of a GIS team within an ecological consultancy and an Environmental Advisor on behalf of Scottish Water.

FLEMMINGS, Richard

Richard has 12 years commercial experience in collecting, processing and managing geographic data. Following graduation from Oxford Brookes University with a degree in Geography and Cartography he worked firstly within the marine survey industry, and subsequently in the airborne survey industry. His roles have been both field based (including airborne surveys of Sudan, Mali, Ethiopia, Benin and Lebanon), and office based (including project management of survey and mapping projects in UK, Europe and the Middle East). Following a year as a consultant within the UK Defence sector, Richard has moved to a new-start company specialising in interpretation of satellite imagery. He is currently responsible for managing the delivery of a land-use, land-cover and habitat map for the Abu Dhabi Environment Agency. Richard has an MSc in Geographical Information Science from Birkbeck, University of London and has research interests in defining vernacular geographies.

FOOTE, Matthew

Matthew is Head of Exposure and Catastrophe Management at Mitsui Sumitomo in London. Previously, Matthew was Research Director at Willis, responsible for the research programme of the Willis Research Network, and a senior director at Risk Management Solutions, the world's leading catastrophe modelling service provider. Matthew has also been a cartographer and remote sensing and GIS specialist, with particular experience in geodemographics and planning. As well as possessing a First Class BSc in Geography, Matthew is currently completing a PhD in coastal processes at Birkbeck, University of London. Matthew has also enjoys collecting antique and unusual maps, as well as regular cycling and coaching at a local junior cycling club.

FOSTER, Ian

Ian is currently Professor of Geomorphology at the University of Northampton. Previously he was the Director of the School Centre for Environmental Research and Consultancy at Coventry University. He has a BSc in Geography from University of London, Kings College and a PhD from Geography, University of Exeter. Ian's research focuses on dissolved and sediment-associated contaminant fluxes and pathways in river catchments over the last 100 years. Current research projects include Badia Research and Development Programme; funding from Defra and the UK Environment Agency researching agricultural land drains and roads in relation to sediment and sediment-associated nutrient pathways; a grant from NERC (URGENT Thematic Programme) researching sediment and sediment-associated contaminant fluxes in the river Tame, Birmingham, UK and a NERC grant researching soil erosion and sediment dynamics in the heavily gullied grazing lands of the S African Karoo. Ian has an extensive publications list and has been involved in supervising and examining a large number of PhD theses.

FOSTER, James

James is Head of Geography at Xaverian College in Manchester. James has strong links with the RGS-IBG and has helped to develop a regional fieldwork network and attended a fieldwork weekend run by the Society. He has worked with the FSC to develop fieldwork resources, and has worked to ensure the FSC visit his feeder schools. He actively encourages his students to get involved in projects such as model UN debates and revision days, and has organised for lecturers from local Universities to talk to his students.

FRANCIS, Phil

It was through a number of surveying jobs that Phil developed an interest in GIS and then undertook an MSc in GIS at Edinburgh University. He is currently a Technical Consultant for Informed Solutions, a firm of spatial information consultants in Manchester, working on projects for government departments as well as for the oil and gas sectors. He has worked on various important surveillance projects since 1998, including being part of the crew that carried out the first multibeam survey to map the bottom of the Aleutian trench. Phil has been a highly active member of the Association of Geographic Information for the past three years and has been involved in many GIS related events since 2002.

FRIEND, Adrian

Major Adrian Friend is a Royal Engineer who has specialised as a Geospatial Intelligence Officer in the British Army. He currently commands the Geospatial Exploitation Wing at the Royal School of Military Survey and has overall responsibility for the provision of all GIS, Remote Sensing & Photogrammetry related geospatial advice and training to deployable Defence forces. Adrian has a BEng (Hons) in Civil Engineering and an MSc in Defence Geographic Information from Cranfield University and an MSc (with Distinction) in Geographical Information Science from University College London. Adrian is an Associate Fellow of the Remote Sensing & Photogrammetry Society, a Member of the City & Guilds Institute for Cartographic Operations and has received medals for overseas operations.

FROST, Shona

Shona began her career in geography or more specifically, cartography by training as a cartographer with the Ministry of Defence. After several years experience and gaining her BTec in Cartography and Surveying, she joined the Ministry of Agriculture where she helped to introduce computers into another manual cartographic environment. Her skills focussed by involvement in the Foot and Mouth outbreak in 2001, Shona joined Staffordshire County Council as an Information Systems Officer in 2003. Her work involved all things land based including rights of way, landscape analysis and plant disease monitoring. From 2005, she has managed a small team of GIS specialists and added Corporate GIS Officer to her job title in 2009. She continues to support colleagues both internal and external to the County Council in using Geography and GIS to understand the issues challenging Staffordshire.

FROSTICK, Lynne

Lynne is currently Director of the Hull Environment Research Institute and the Yorkshire Forward funded Environmental Technology Centre for Industrial Collaboration at the University of Hull and a Professor of Geography. Lynne has a BSc (Hons) in Geology from University of Leicester and a PhD in Environmental Science from University of East Anglia. Lynne's research interests include rivers and tectonics; desert rivers; sediment transport; and waste science. She has been the Editor of several leading journals and is a member of a number of learned Societies. Lynne is also involved in establishing the research facilities at the Deep, a millennium project which includes a large flume facility. In addition to her work within the University Lynne is also chair of the government's Implementation Group for Women in SET, a member of the a member of the NERC Peer Review College and the NE Regional Environmental Protection Advisory Committee

GAIR Brad

Brad Gair is a highly experienced emergency manager with more than 20 years of professional experience on a wide range of disasters, emergencies, special events and planning initiatives. Mr Gair has held public and private sector leadership positions both domestically (United States) and internationally and has expertise in all aspects of emergency management - preparedness, response, recovery and disaster reduction. In all of his endeavours, Mr Gair draws heavily upon his geography background, education and training to understand and address complex issues from a spatial perspective.

GAIR, Nicholas

Nicholas is currently the Chief Executive of the Association of Surgeons of Great Britain and Ireland. Nicholas completed his BEd at Kingston University, Cert Ed from University of London, an MA in Urban Education from King's College London, an MSc in Education Management from University of Greenwich and a PhD in Outdoor Education from Fairfax University, Louisiana, USA. Nicholas has published academic work on expeditions and outdoor education and holds a number of outdoor leadership qualifications. Nicholas has also been the UK Operations Officer for The Duke of Edinburgh's Award, and is still a member of the Award's national Expedition Advisory Panel. He is a member of the Risk Management Committee of the Outward Bound Trust and a founder member of the 'Lessons Learned Group' a small group of practitioners which reviews adventure accidents and incidents and disseminates educational feedback. Nicholas is a Visiting Professor to the Carnegie Faculty of Sport and Education at Leeds Beckett University.

GANDERTON, Paul

Paul is the Senior Geography Coordinator at Sydney Boys High School in NSW, Australia. Prior to this Paul taught geography in the UK, and also achieved an MA from the University of Reading. Paul has presented at numerous conferences and events, and is also an examiner. He has had various research papers and books published, and is also involved in the current introduction of a geography curriculum for Australia. He is actively involved in fieldwork, and also maintains a website, www.ecogeog.com.

GARCIA, Tony

Tony is a former senior officer in the SA Army with sixteen years' experience in the Engineer Corps. His experience includes deployments in two peacekeeping missions in Africa as well as regional and internal missions. As a military/combat engineer, his main purpose was to analyse and modify physical terrain to facilitate landward operations. He is currently a PhD candidate at Stellenbosch University Faculty of Military Science, adjunct faculty at the University of South Africa and a visiting scholar at New York University, Centre on International Cooperation. His research at the Centre on International Cooperation involves the interface of physical geography and peacekeeping.

GARF, Nick

Nick Garf graduated from Moscow State University, Geographical faculty in 2002. His work experience has included scientific research, engineering, construction and oil and gas onshore and offshore pipeline construction projects. He is currently a GIS Specialist at JP Kenny Ltd.

GARVEY, Daniel

Dan is a senior environmental scientist with Arup, based in Cork, Ireland. He is a graduate of University College Cork, with a BA (Hons) in Geography and Public Policy Studies. He has a first class honours MSc in Environmental Protection from the Institute of Technology, Sligo. He won the William Mason Medal in Sligo IT in 2008. He has been a Fellow of the Royal Geographical Society (with the Institute of British Geographers) since 2002. He has lectured in Cork Institute of Technology on sustainable design, and is involved as a design team member in the environmental impact assessment of significant construction and infrastructure projects. Dan is also a Chartered Member of the Institution of Environmental Sciences. His particular interest is in promoting practical sustainability in the design of the built environment.

.....

GAWLIK, Robin

Robin is currently the Property Information Manager at Barrow Borough Council. He has been involved with the use of geography and GIS since 1992, when as a Building Control Officer. He was tasked with the introduction and use of GIS into a joint Planning and Building Control Department. In 1999 he was moved into a full time role managing GIS. In 2012 he was put in charge of the property information team which covers GIS, Land and Property Gazetteer, Planning Validation and Land Charges. He also currently chairs the authorities Business Improvement Team which looks to make better use of technology to improve the efficiency and resilience of the authority.

GENTLEMAN, Alison

Alison joined the Defence Geographic Centre, MOD in 1987. Her career has cover a wide range of geospatial activities, which primarily include geographic research, co-ordinating the collection of geographic information, its management within the DGC geospatial library and providing a customer service in support of UK Defence and other government departments. Alison's current responsibilities lie as a geospatial liaison officer focussing on geospatial data collection and international liaison over an area of responsibility which covers UK, Ireland, United States, Canada, Australia and New Zealand. She has an MA (Hons) in Geography from Aberdeen University, a BTEC in Cartography from Kingston College and I am a member of the British Cartographic Society. She plays an active role in the British Cartographic Society Restless Earth Schools Workshop often taking a lead role in explaining the workshop to students. For the last year she has also been a representative on the BCS membership committee.

GIBSON, Philip

Philip gained a BSc (Hons) in Geography and an MA in GIS from the University of Leeds. For 5 years, Philip worked at the University as a Research Officer and then took up the role of developing online GIS Masters courses. Since 2005, he has worked as an Environmental Consultant and Senior GIS Analyst at Jacobs UK Ltd as a core member of the UK GIS team. He has worked on many interesting projects including waste management strategies, flood alleviation schemes and public transport solutions.

GILES, Anthony

Anthony enlisted into the British Army in August 1991 and joined the corps of Royal Engineers. He completed his recruit training at the Army Apprentices College, Chepstow and during his two years at the College Anthony qualified as a geographic technician. During a further 21 years of service Anthony has provided geographic advice across many sectors of the Ministry of Defence, instructed on the MSc in Defence Geographic Information, Royal School of Military Survey, and seen service on operations in Northern Ireland, Bosnia, Kosovo, Iraq and Afghanistan. During his service Anthony also maintained personal study gaining a BSc through the Open University and an MSc in Internet Computing from Liverpool John Moores University. Outside his day to day working environment Anthony volunteers for the humanitarian mapping charity MapAction.

GILES, Pamela

Pam Giles is a career geographer who read geography at UCL from 1978 to 1981 and has worked for the MOD ever since. She is currently a member of the Management Team at the Defence Geographic Centre (DGC). Her experience spans the full spectrum of geospatial information provision from determination of customer requirement, through production or acquisition of geospatial information, to shipping the finished product and delivering geo services to customers. She has driven through significant business change programmes and has represented the DGC at the highest levels both at home and overseas.

GLEDHILL, Karen

Karen's interest in GIS began whilst she was studying for her degree in geography at the University of Salford. Since 2000, she has worked in the GIS field for various organisations, including Warrington Borough Council, the Farming and Rural Conservation Agency, Department for Environment Food and Rural Affairs, 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.

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.

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 USAFE\MOD 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' experience within GIS and maintaining and improving large geographical datasets. He has previously been the Local Land and Property Gazetteer Custodian at Medway Council and Local Street Gazetteer Custodian at Kent County Council. Several successful GIS projects were also undertaken in these roles which resulted in national recognition (GeoPlace Exemplar Award) for integration of geographical datasets. He is a regular speaker at street events at national and regional events and has both created and advised on numerous technical advice notes and guidance documents, encouraging the improvement and use of geographical data within local highway authorities.

GUEST, Jonathan

Jonathan Guest is a Senior Economist at Atkins. He has a range of geographical professional research interests including local economic development, skills progression and infrastructure. Jonathan has a BSc in geography from the University of Liverpool and a MA in Local and Regional Development from Newcastle University. Jonathan has extensive experience in economic research and strategy development, working with organisations such as the Royal Society, Royal Academy of Engineering and several Government departments and industry organisations. Jonathan has a broad range of geographical interests and has recently been working on projects assessing the role of infrastructure in skills development as well as exploring human linkages to natural capital.

GUPTA, Chitta

Chitta Gupta is a GIS Consultant having more than 15 years of GIS and Data Management experience in sectors like Environment, Renewable Energy, Water, Land Management, Flood Risk Assessment, Transportation, and Water Utilities etc. He has developed strategy, prepared implementation plans, action plans to establish and run GIS services and facilities in private and government organizations. Chitta has designed GIS projects to support agricultural planning and land acquisition. He was involved in developing metadata standard, common data sharing and ownership policy. One of the key aspects of his involvements in GIS sectors is that he has successfully convinced and motivated people to use and implement GIS in their work processes. Chitta has an undergraduate B.Sc. degree in Civil Engineering from Bangladesh University of Engineering and Technology, Bangladesh and a MSc. in GIS from the University of Nottingham, UK. This useful combination of academic qualifications has helped him select appropriate GIS techniques through better understanding of different processes in the natural and built environment. Recently Chitta was involved in an offshore wind farm project as GIS and Data Manager on behalf of TÜV SÜD PMSS. His main responsibilities were to provide GIS and data management supports to the Consent, Environment, Engineering, Land and other general work streams for the project. Chitta was the single point of contact for all the GIS and data issues raised from post Zone Appraisal and Planning (ZAP) process to Development Consent Order (DCO) application submission to the Planning Inspectorate (PINS).

HADLEY, Clare

Clare is a senior manager at Ordnance Survey. Her career in government has included field survey, research, production management, data policy, strategic sales, consultancy, international relations and public affairs. Her current role is Policy and Engagement Manager which involves her in tracking and influencing policy at an international, European and national level. Clare has a MA in Geography from University of Cambridge, a Postgraduate Diploma in Survey from the School of Military Survey, an MSc in GIS from University of Nottingham and a Certificate in HE Archaeological Studies from University of Southampton. Clare is a Chartered Geomatics Surveyor and a Fellow of the Royal Institution of Chartered Surveyors and the British Cartographic Society. Clare is an Editorial Board Member for the Survey Review journal. She has presented at a wide variety of conferences and seminars.

HAGAN, Allan

Allan has had a long career as a GIS professional and has developed his skills as GIS-related technology has advanced. He began working for BT in the mid-1980s and using spatial data. The projects in which he 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

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 11 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 is 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.

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, Amy

Amy has a BSc in Geography from Loughborough University and 7 years' experience working as a GIS Consultant. Amy is currently a Senior GIS Consultant at AECOM. As part of the dedicated GIS team 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 AECOM/URS Amy worked for GIS consultancy and software developers ACTIVE Solutions.

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 is currently Head of Geography at Sir Joseph Williamson's Mathematical School in Rochester, Kent. 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 since then has established links with Canterbury Christ Church University to provide an annual Geography lecture conference for Medway schools. His department was re-awarded the Secondary Geography Quality Mark (with Centre of Excellence) in September 2011.

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 the GIS Manager at London Underground (Transport for London), with responsibility for maintaining and developing the corporate GIS and promoting its use across the business. 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 is also a volunteer for MapAction, providing GIS support to team members who have deployed to disaster zones, in addition to working on several projects to enhance MapAction's capability.

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.

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>.

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.

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.

HODGSON, Paul

I have 15 years' experience of using GIS for environmental and community regeneration projects. I am currently GIS & Infrastructure Manager at the Greater London Authority. Previously, I was Head of GIS for Groundwork, responsible delivering GIS services to external partners either as part of multidisciplinary teams or directly. The GIS team actively promoted the benefits of GIS across the Groundwork Federation (about 2000 staff) and provided training and support in basic techniques for non-GIS specialists. Previous roles have included Manager of the Caine Valley Regional Park, where I used GIS to support the development of strategic plans and create bespoke maps to promote specific facilities. I continue to apply this experience of Green Space management, mapping and spatial analysis to a range of Green Infrastructure projects. I have a particular interest in using GIS in community projects. Many professionals such as planners and consultants now have access to the power of GIS. I have led a number of projects to develop techniques and technologies which use GIS to capture the comments and views of local people and allow them to make more informed comments and play a more active role during the process. This culminated in September 2012, when I led a team that won innovation funding from Ordnance Survey through the Geovation Challenge to develop the www.greenspacemapper.org.uk.

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).

HOOKE, Janet

Janet is Professor of Physical Geography at University of Liverpool. 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

Marc is a Chief Hydrologist with Atkins - a large multi-disciplinary engineering and science consultancy. His principal technical interests are flood risk and water resource management. His professional career with Atkins has included management and technical roles in flood hazard assessment, flood forecasting / warning and catchment management strategies. Prior to joining Atkins in 1997 he worked as a hydrologist for the Environment Agency and National Rivers Authority managing hydrometric networks, developing / maintaining flood forecasting systems and supporting the maintenance and development of flood defences. He also worked briefly as a volunteer water engineer in Guatemala. Marc graduated from Swansea University with a BA in Geography and from Cranfield University with an MSc in Environmental Water Management.

HUDSON, Ray

Ray has a BA, PhD and DSc from University of Bristol and a DSc from Roskilde University. His main teaching and research interests lie in political-economic geography, particularly geographies of production and the politics and policies of territorial development. Ray has an extensive publications list and has been editor or author on 20 published books. In addition to his work as the Director of the Wolfson Research Institute at the University of Durham, has been strongly involved with the Royal Geographical Society with IBG and in 1989 was awarded the Edward Heath Award. Ray has also been involved with the ESRC over the past 10 years.

HUGHES, Samantha

Academically Samantha has achieved an MPhil at Cambridge University and a first class honours from University of East London in Geographical Information Systems. She has experience in Alteryx, programming in several languages, administering spatial databases, project management and the development of systems and applications for geographical information. With ten years' experience now under my belt she hopes to bring knowledge and enthusiasm for GIS and analytical tools to the Royal Geographical Society and continue my journey on learning with peers.

HUGHES, Richard

Richard is the specialist in heritage-related matters for Ove Arup consultancy firm. His specialties are structural evaluation and conservation of historic buildings and archaeological sites. He gives scientific advice to many firms of engineers and architects on engineering practices relating to historic sites, as well as correct use of traditional building materials, especially wood, soil and stone. He is internationally well known for his work on traditional structures in hazard prone areas (affected by earthquakes and floods) and on the

new use of soil as a structural building material. Over the last two decades he has conserved many buildings in northern Pakistan and has won several UNESCO awards for his work. He has been extensively involved with the science of in-situ preservation of archaeological remains and has widely published on this subject.

HUME, David

David is currently a Principal GIS Consultant at URS Ltd. He manages a small team of GIS and Information Systems professionals that are responsible for delivering GIS to internal and external clients. David graduated in 2001 from University of Portsmouth with a BSc (Hons) degree in Geographical Science and has worked in the GIS sector ever since. His role within the company is to promote the use of GIS, manage projects and deliver solutions to clients, manage, analyse, visualise and distribute spatial data throughout the company for both corporate and commercial use. David is always investigating new advances within the field of GIS and actively passes his knowledge on to other GIS users within the company.

HUNT, Glyn

Glyn Hunt has 15 years global survey, positioning, mapping & construction experience. Both public & private sectors, in various locations onshore, offshore & underground. He is the Director of RICS Regulated Firm Hunt Surveys Ltd (HSL, www.huntsurveys.com), which he established in 2013 to allow him to practice independently in his preferred areas of survey, mapping, positioning and construction. This work would be located globally both onshore and offshore, allowing a credible but diverse training plan often impossible with other companies. This training would allow him to continue working across all sectors, under the requirements and best practices of the industries' leading professional institutions. Prior to starting HSL, he was a Senior Engineering Surveyor at the FCBC "Queensferry Crossing" £79M bridge construction project (Rosyth), Senior Hydrographic Surveyor with Fugro Survey Ltd (Aberdeen), and Chartered Land Surveyor at Davies's Surveys (Cardiff). Qualified to MSc level (Satellite Positioning Technology), he holds various construction/offshore licences, and is professionally accredited by the RICS, ICES, IMarEST, RGS-IBG, BCS 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.

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

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

Philip 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.

JARMAN, Mark

Mark has been working for Environment Systems since early 2009 and manages many of the Unmanned Aerial Vehicles (UAV) activities the company undertakes. As part of his Senior Consultant role, Mark is the Project Manager of Project URSULA (UAS Remote Sensing for Use in Land Applications). Project URSULA is an on-going large scale research and development programme exploring the potential for advanced remote sensing, using small unmanned aircraft, for use in land applications, primarily high input arable farming. Alongside his UAV work, Mark has substantial management experience in the delivery of innovative solutions using remotely sensed data by other remote sensing platforms including satellite, airborne and ground based sensing technologies. Whilst working for Environment Systems, Mark has become an accomplished user of many remote sensing and GIS software platforms. The use of these platforms has enabled Mark to deliver many new Earth Observation (EO) products and services into both the agricultural and environmental sectors. Mark is a current council member of the UK Remote Sensing and Photogrammetry Society (RSPSoc) and was principal conference convener of the 2014 annual conference held in Aberystwyth.

JEAVONS, Sarah

Formerly worked in GIS for Local Government and is now a GIS specialist for Ove ARUP and partners, a major consultancy which spans the business areas of environment, transportation, infrastructure and planning. Sarah has a Geography degree from the University of Bristol.

JEFFERY, Stephen

Steve Jeffery has worked within the civil service as a geospatial analyst since 1984 in a variety of roles which has included conventional cartography, stereo data extraction, selection of source materials for map production, production planning, map distribution, system support to Geospatial production systems, writing operating procedures for use in map production, and recently the design, delivery and implementation of major digital geospatial production systems. Currently he is involved in the assessment, design and capture of requirements for a multi-million pound contract to provide the communications, infrastructure, applications, and services for multi-nation collaboration and exploitation of geospatial data and further anticipated geographic capabilities.

JENKINS, James

I am currently an Associate Dean (International) in the School of Life and Medical Sciences at the University of Hertfordshire. This role involves me working with a great team of people to help achieve and advance the international objectives and responsibilities of the School and the wider University. My teaching specialisms sit within the area of Geography and Environmental Management, and as a result I possess extensive experience of teaching on a wide range of environmental issues and trends. I am also the programme tutor (course director) for the University of Hertfordshire's postgraduate programmes in Environmental Management, as well as undertaking the role of admissions tutor for the University's undergraduate programmes in the subject areas of Geography, Environment, and Agriculture. My research interests lie in the area of water resources problem-solving analysis, with a particular focus on drinking water quality, water usage, and consumer engagement. In the past my research has sought to explore the role of politics and organisations in shaping the application of drinking water policy in the context of the European Union. However, my current research is focused on investigating attitudes to domestic and non-domestic water use as well as governmental and community responses to water usage and water quality.

JOHNSON, David

David is a Director of Seascope Consultants Ltd, former Executive Secretary to the OSPAR Commission (2006-2012) and Professor Emeritus of Coastal Management at Southampton Solent University. He currently coordinates the Global Ocean Biodiversity Initiative (www.GOBI.org). David specialises in ocean governance in particular area-based planning and protection. In 2002 he received a short-term Caird Fellowship from the National Maritime Museum and in 2010, on behalf of OSPAR, a Gift to the Earth Award from WWF. David is also a Visiting Professor at the World Maritime University, Malmo, Sweden and regularly contributes to international seminars and conferences.

JOHNSON, Richard

Richard is a Geomorphologist working as a Senior Lecturer in Physical Geography at Bath Spa University, UK, where he also chairs the Changing Landscapes Research Group. He has a BSc in Geography from the University of Nottingham and a PhD in Geomorphology from Durham University. His research interests lie in sediment fluxes in mountainous catchments, flood geomorphology and the palaeo-hydrology of mountain rivers, and the use of Terrestrial Laser Scanning (TLS) technologies to evaluate river and hillslope change. His primary field sites are located in the English Lake District, the Indian Himalayas, and also south-west England. Rich's employment has spanned both academic (UCLAN, BSU) and international engineering consultancy sectors (Halcrow Group Ltd). His research, teaching and consultancy expertise is international, multi-disciplinary, and seeks to deliver the benefits of research to societal stakeholders.

JONES, David

David was Professor of Physical Geography at the London School of Economics and Head of Geography and Environment until his retirement in 2005. He has a BSc (Hons) in Geography with Ancillary Geology from King's College London. His research interests include risk assessment and management, palaeogeomorphology, the character and evolution of alluvial carpets/floodplains, landslide hazard assessment and applied geomorphology, including mapping techniques. David has published books on a range of topics including Landsliding, Landslide Risk Assessment, Applied Geomorphology in Dry Lands and the Geomorphology of Southern England, as well as a large number of published papers and chapters. David was awarded the Cuthbert Peek Award by the Royal Geographical Society (with IBG) in 1982.

JONES, Jeremy

Jeremy is the Corporate GIS Team Leader for Cardiff Council and has an MSc in GIS by distance learning from Salford University in 2003. Jeremy has been heavily involved with all things GIS since its introduction to the Council 1993. With a background in Civil Engineering he worked primarily in the Highways, Transportation and Land and Property arenas until 2000 when he became the Corporate GIS Team Leader and the GIS function was absorbed into a centralised IT. The position gave Jeremy the opportunity to coordinate the Authorities fragmented development and formulated the GIS Strategy for Cardiff. As Local Street Gazetteer (LSG) Custodian for Cardiff Jeremy has promoted the use of the NLPG as its core address database linking to back office systems. Jeremy has worked hard to promote the advantages of geographic information and the open use of data across the Authority, most notably in Cardiff Schools running inset days for geography teachers on 'Geography through IT' and the development of a searchable metadata browser in accordance with INSPIRE containing over 500 Council Corporate Datasets.

JONES, Kelvyn

Kelvyn is Professor of Quantitative Human Geography at University of Bristol. He has a BSc in Geography and a PhD in Geographical variations in mortality: an exploratory approach, both from University of Southampton. Kelvyn's research interests focus on the geography of health, variations in mortality and morbidity and questions concerning how place characteristics interact with individual factors in producing ill-health. Kelvyn has two funded research projects at present; one funded by the Health Education Authority and the other by Wellcome Trust. In addition to his work at Bristol, Kelvyn has also been visiting professor at METHODOS, University of Louvain, Belgium and a visiting professor at Katholieke Universiteit Brussel.

JONES, Mark

Mark is a Senior Lecturer in Education and the Secondary Geography PGCE Tutor at the University of the West of England, Bristol. Mark has a MA in the Sociology and Anthropology of Travel and Tourism. He has been involved in the setting up of TDA funded programmes for teachers in the South West, has worked as a mentor to colleagues within his Higher Education Institution and has also designed modules for an MA Education programme. Previously Mark has been a Head of Geography and Head of Humanities, during which time he worked with partner schools, mentored trainee geography teachers, encouraged cross-curricular links and ran whole school and departmental CPD. He has contributed to numerous conferences, academic journals and articles, and has collaborated widely as a consultant and examiner with numerous organisations and schools throughout the UK.


JONES, Peter

Mr Peter Jones is Assistant Director Innovation Division within the Defence Geographic Centre. He has prime responsibility for the successful introduction of a major project for production and workflow management systems. He leads a team of 58 staff responsible for evaluating current and anticipated geographic capabilities against known and potential future user requirements, the development of prototyping and operational concept demonstrations using both commercial applications and in-house developments. He has worked in the Ministry of Defence for 30 years, the vast majority of which has been spent in the geospatial analysis discipline. He graduated from University College London with a BA in Geography and 20 years after completion he undertook a MA in Library and Information Systems at the 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.

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.

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, 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.

KEYTE, Sarah

Sarah is a Senior GIS Consultant at multi-discipline consultancy Atkins Limited within the Geospatial Mapping and Analysis Team. She has worked on projects for public and private sector clients in the UK and overseas e.g. Highways Agency, Local Authorities, BP and Network Rail. She provides GIS analysis and solutions for a wide variety of disciplines but most significantly for environment, water, highways, rail, planning, nuclear and energy sectors. Some of the most notable projects she has worked on are the UAE Holistic Plan, a spatial planning strategy for the Ministry of Public Works and wind farm layout analysis and Environmental Constraints Assessment for an offshore wind farm on behalf of E.on. She specialises in data management, 2D spatial analysis, 3D modelling and applying cartographic principles to GIS outputs. She is also a fellow of the British Cartographic Society and a member of the BCS GIS SIG. She obtained a BSc Honours degree in Geography at the University of Northumbria. She started her career as a Mapping and Charting Officer at the Ministry of Defence. After a role as an Image Analyst at the Defence Geographic Centre, she transferred to Defence Estates where she was a Geographic Information Officer as part of the Renewable Energy and Statutory Safeguarding Team.

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 appraised and promote the use of GIS.

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 deployed as a survey team leader, Mark was awarded the Queens Commendation for Bravery for his gallantry in helping to evacuate civilians during a military uprising in Guinea-Bissau.

The expansion in GIS capabilities within the MoD in the late 1990's, saw Mark expand his knowledge, later becoming a GIS instructor at the Royal School of Military Survey where he delivered both geodetic and GIS training to both soldiers and Officers on both Foundation and Master's degree courses.

For over 25 years, Mark has provided both geodetic and geospatial advise across a wider spectrum of defence and deployed on many operations including Northern Ireland, Bosnia, Kosovo and more recently Afghanistan. In his own time he has completed a MSc in Engineering surveying and Geodesy through the University of Nottingham.

KIMBALL, Kathryn

Kathryn is a Senior Coastal and River Scientist and Project Manager. Kathryn has significant flood and coastal erosion risk management (FCERM) experience gained from working for engineering and environmental consultants throughout the UK and Ireland. Areas of expertise include:

- Management of FCERM projects
- Coastal and fluvial geomorphology
- Coastal and fluvial optioneering, engineering and modelling
- Coastal vulnerability assessments
- Project Appraisal Reports (the business case for flood and coastal defences)
- Flood risk assessment and flood risk advice
- FCERM Strategies,
- River restoration and WFD
- Climate change assessment
- Economic analysis
- Catchment management

From her on-going project management role, Kathryn has excellent working knowledge of NEC3 Professional Services Contracts (Option A, C and E) and provides NEC3 PSC in-house training to her

colleagues. Kathryn prides herself on ensuring good client relationships and communication which is crucial for delivery of projects to time and budget. As a project manager she is competent in supplying regular time and cost plans showing spend to date against predicted, progress reports and updated programmes to clients. Kathryn is proactive with managing change and identifies possible resolutions from an early stage. Kathryn has managed and taken part in risk and value workshops and actively encourages sustainable and innovative solutions.

KIRKBY, Michael

Mike is Professor of Physical Geography at University of Leeds (Emeritus since 2002). He has a BA in Mathematics and Geography and a PhD in Geomorphology, both from University of Cambridge. Mike's research interests focus on hillslope sediment transport processes; the relationship between hillslope process and form; hillslope and network hydrology and models for landscape evolution and soil erosion at global to hillslope scales. Recent grants include the EC funded MEDALUS, PESERA and DESURVEY projects on Mediterranean desertification, erosion and water quality. Mike was awarded the Gill Memorial Award by the Royal Geographical Society (with IBG) in 1976 and the Founder's Medal in 1999. He is a Fellow of the American Geophysical Union.

KITCHEN, Rebecca

Becky is Curriculum Manager for Humanities and Head of Geography at Aylesbury High School in Buckinghamshire. She has been a member of the Geographical Association's Secondary Phase Committee since 2009 and has presented workshops and research findings at national conferences. In 2011 her department was awarded the Geographical Association's Secondary Geography Quality Mark Centre of Excellence status and in 2009 she was presented with the Ordnance Survey Award for contributions to Geography in Secondary Education. She has authored a variety of articles and resources including Teaching Geography, GCSE Bitesize, Geography Teaching Today and KS3 Geography, a new series of textbooks published by Collins in conjunction with the Geographical Association, and has examined at A level for both Edexcel and AQA. She has just achieved a distinction in her MA in Education at Oxford Brookes, where her 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.

.....

I am a married man with 2 children and live a stone's throw from the sea and a long run from hills in the geologically significant town of Stonehaven, Scotland. I have worked 20+ years with Shell in a Geomatics discipline. My background is Cartography but I moved into the GIS world some years ago now. I have been very lucky to have worked for Shell in GeoInformation as the company recognises GIS and Geomatics as valuable to its business. This has allowed me to progress my career in GIS and constantly develop my skills. GI and GIS in turn, has delivered good value to Shell. The last 10-15 years have been very exciting ones for the world of GIS and GI and it will be interesting to see where we are 10 years from here. Exciting times ahead and it's important to keep learning and developing skills in what is a rapidly changing industry. I have always had a keen interest in maps from a very young age and now they help me to ramble over the Scottish Countryside and plan my marathon training.

LAWRENCE, Vanessa

Vanessa is Director General and Chief Executive Officer at Ordnance Survey, and a Non-Executive Director of the Office of the Deputy Prime Minister. She has a BA (Hons) Geography from University of Sheffield, and an MSc in Remote Sensing, Image Processing and its Applications from University of Dundee. She has been awarded an Honorary Doctorate of the University from Oxford Brookes and an Honorary Degree of Doctor of Laws from the University of Dundee. In addition, she has been awarded Honorary Degrees of Doctor of Science from the University of Sheffield, Kingston University and from the Nottingham Trent University on behalf of Southampton Institute. She is an Honorary Fellow of the Institution of Civil Engineering Surveyors and has also received an Honorary Fellowship from University College, London, 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 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, 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.

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

.....

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.

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.

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 have over 8 years of experience in using my Geographical knowledge and GIS skills on a wide range of projects in the UK and overseas. As leader of the GIS mapping team I use my expertise on many diverse projects such as national power line routing, development feasibility and cumulative visibility assessments. I have developed our three dimensional visibility analysis to use on large scale projects including wind farms and solar farms across the country. I also create bespoke GIS solutions based on the client's requirements.

MERRINGTON, Lynne

I am a Masters qualified GIS professional with over 7 years' experience of spatial analysis and data management within the fields of flood risk management, climate change and service planning. I have previously worked in GIS roles within Local Government and Academia and I am currently working within Flood Risk Management at the Environment Agency. I am a volunteer with MapAction, a charity that provides mapping and data and information services during humanitarian emergencies, and I deployed to the Philippines in 2012 to support the response to the Tropical Storm Washi flash flooding.

METCALFE, Emma

Emma currently works as Subject Leader for Geography at Castle Rushden High School on the Isle of Man. She has a BA Geography awarded by Edge Hill College, specialising in Human Geography and a PGCE

Geography from Edge Hill College. In the past she has worked as an A Level examiner and CPD Trainer for AQA. She is currently enrolled on a (work based) part time Masters course in Geography education with Edge Hill University.

METCALFE, Keith

Keith is currently Head of Geography at Harrow School in Middlesex, where he contributes to the Academic Advisory Committee, mentors NQT teachers, runs a geography society and runs numerous fieldtrips. Keith has an MA in Geography from Cambridge University. His CPD record is impressive, incorporating a wealth of geography based courses and training.

MILLER, Serval

I am a physical geographer and geologist with a particular interest in the application of Geographical Information Systems (GIS) and Remote Sensing Systems to natural hazard assessment and mitigation as well as environment monitoring and management. The natural hazards that I have particular interest in include: landslides, tsunamis, storm surges and floods. My research focuses on the identification, monitoring and modeling of these natural phenomena and studying their socio-economic impacts. The research into natural hazards and its impacts has focused primarily on the island of Jamaica and North Wales. In 1994 I obtained my BSc. (Hons) in Geology from the University of West Indies. I then went on to work full-time for the Geological Survey of Jamaica as a Geologist and as a part-time lecturer at Exced Community College. In 1996, I was awarded a fully funded fellowship by the Dutch Government to study Mineral Exploration at the International Institute for Aerospace Survey. I continued working at the Geological Survey, in a number of capacities including Head of regional geological mapping, where I was able to develop the GIS and Mapping programme and Geo-information based landslide hazard assessment projects. In 2003 I completed an MSc in Geographical Information Systems at Cranfield University. I was awarded a fully funded Scholarship (Gladstone Fellowship) by the University of Chester to pursue a PhD in GIS application to Landslide Hazard Assessment in 2004. The PhD was completed in 2007 after which I was appointed as full-time lecturer and Programme Leader for the Natural Hazard Management programme within the Department of Geography as a Lecturer.

MILLINSHIP, Ian

Ian is a Senior Catastrophe Risk Analyst for JBA Risk Management, a catastrophe modelling company based in Skipton, North Yorkshire. Ian uses a wide range of geographical datasets to design and implement deterministic and probabilistic natural hazard models for insurers and reinsurers. Ian has carried out post-flood fieldwork to collect spatial information and regularly uses remotely sensed imagery to assess the impact of flood, windstorm and other natural perils across the globe. Previously Ian has been a navigation instructor with the Territorial Army and holds a BSc in Physical Geography and an MSc in GIS for Catchment Dynamics and Management, both from the University of Leeds.

MITCHELL, Chrissy

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.

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.

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.

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. She has developed her career with Ove Arup & Partners (Hong Kong) Limited working full-time as a Senior Geomorphologist in a global multidisciplinary engineering consultancy firm. She has a BA (Hons) in Physical Geography and an MPhil in Slope Geomorphology from the University of Hong Kong, and a PhD in Landslide Hazard Assessment from Durham University, United Kingdom. Kit-Ying's research work focused on the mechanisms of shallow rainfall-induced landslides in humid tropical environments. She is also interested in understanding the spatial and temporal distribution of landslides in the geomorphological context. Since completing her PhD, Angel joins Arup and continues to develop and apply geomorphological knowledge and techniques in a variety of geohazard studies, site developments and large-scale tunnelling projects for the government and private sectors. Currently she is a Trainer of two Arup University Professional Modules including Air Photo Interpretation (API) and Natural Terrain Hazard Assessment and Mitigation (NTHAM). Her work has been published in local and international refereed journals and presented at international geography and geomorphology conferences held in Africa, Australia, France, Hong Kong, Spain, UK and the USA. She is a Fellow of the Geological Society of London (GSL) and a Chartered Geologist, mentoring a number of junior staff working towards Chartership. She is an invited Mentor of the University of Hong Kong (HKU) Mentorship Programme from 2012. Since 2013, she has also been appointed as a part-time lecturer in Geomorphology for two undergraduate courses in the Department of Geography at the University of Hong Kong.

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.

O'SULLIVAN, Gerard

Gerard is an Advanced Skills Teacher in Geography at Homewood School, Kent. Gerard has a BSc in Geography with Geology from St Paul's and St Mary's College, a PhD in Marine Geochemistry from University of Cardiff and a PGCE in Geography with History from University of Bath. Gerard works with both Primary and Secondary schools to improve standards of teaching and learning in Geography and has been responsible for raising standards in GCSE Geography at Homewood School.

OVERTON, Thomas

Following his undergraduate degree in Geographical Information Science, Thomas has been able to apply the theoretical knowledge he gained during his university studies in a range of jobs and over a broad spectrum of projects. With 9 years' post-graduate experience, his career has involved extensive work in the water and environment sector particularly water and wastewater modelling- and also GIS analysis.

Beginning his career at Link Interchange Network (later Vocalink), he was brought into the company to introduce GIS procedures and advise on the how GIS could be used to enhance current practices. Following

.....

this, Thomas moved into engineering in order to apply my GIS skills to the more physical aspects of geography. In this field he has worked in consultants and water companies, including United Utilities, AECOM, and Wessex Water.

In addition to hydraulic modelling, Thomas is often required to provide training in GIS to junior colleagues-particularly those from non-geographical backgrounds - and in the work environment he aims to always promote the use of alternative geographical information systems. Thomas is particularly interested in software which is outside of the two main industry standard packages (ArcGIS and MapInfo), an example being his introduction of GeoDa open-source software into Vocalink. Despite working in engineering for the majority of my career he still consider myself a geographer, and by formalising his links with the subject through professional membership of the RGS as a Chartered Geographer, Thomas aims to further promote geographical thinking in the industry.

OWEN, Catherine

Catherine is Head of Geography at The King Alfred School in Somerset. She is an active member of the Geographical Association and sits on the GA SIG. Catherine has presented at the GA conference, has had several articles published in 'Teaching Geography' journal and was a Regional Subject Advisor. She has her own website and her school is linked to a school in Kenya. Working with several other teachers in her area, Catherine has set up the 'Somerset Geographers' group, ensuring teachers in her area receive support and that independent and state schools work together. Her school was awarded Centre of Excellence status by the GA in 2011.

OWEN, David

David is the Managing Director of Envisager (www.envisager.co.uk), a consultancy specialising in policy, regulatory, market and strategic advice to the water & wastewater sectors, advising governments, multilateral institutions, financiers and companies. Current areas of interest include quantifying the spending needed for universal water and sanitation coverage and smart water and demand management strategies. He is an advisor to the board of Bluewater Bio and is on the advisory board of two dedicated water funds. David has a first degree in Environmental Biology from Liverpool University and a DPhil in Applied Ecology from Jesus College, Oxford University. David has published seven books on water issues including the Pinsent Masons Water Yearbook and columnist for Global Water Intelligence. 'The sound of thirst: why urban water for all is essential, achievable and affordable' was published by Parthian Books in 2012. He is a Court Assistant for the Worshipful Company of Water Conservators.

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 visit 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

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. Trained at the School of Geography, University of New South Wales Graham has subsequently worked for the Institute of Transport Studies at the University of Sydney and his transition from an academic role to analytical/research at the Office for National Statistics to policy focussed roles ranging from housing, emergency services, transport and infrastructure 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 an operational role supporting Sydney's large scale infrastructure development. He has responsibility for one of the largest behaviour change travel demand management attempted in the world – Travel Choices – and an ambitious business support program using techniques aligned to temporary placemaking and tactical urbanism.

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 scale 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.

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.

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

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 practitioners 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).

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.

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. Brain 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. 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.

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.

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 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 3rd 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 Institute for Outdoor Learning (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.

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.

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.

SNOWBALL, David

David is a Senior Project Surveyor working within the Oil and Gas hydrographic sector. For ten years David has been working on projects throughout the globe providing hydrographic and engineering support to deep water construction projects. More recently & predominately in West Africa, he has managed survey operations on a varied scope of installation campaigns; subsequently mapping and charting green field sites across the region. As a proficient user of GIS he manages data between client and projects. His experience has been furthered by military survey taskings within the Army to support Britain's interest at home and overseas with boundary surveys within a Geo Sqn. His leadership in this has developed to a role in which he passes on instruction to new recruits and students alike.

SOUTHWELL, Rob

Rob Southwell is a senior consultant, with practical experience of defence consultancy and research, and over 10 years of geospatial experience.

Graduating from Bath Spa University College with a 2:1 in Remote Sensing & GIS, Rob then attained an Msc in Satellite Positioning Technology from Nottingham University.

Focussing on information management and exploitation, Rob has been leading geospatial investigations into a variety of related subjects including standards development, interoperability, and metadata. Most recently research tasks concerning urban 3D environments, Linked Data, data and service quality and modelling of the littoral zone has occupied much of his time.

He 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.

Rob lives in the Forest of Dean, England.

SPEIGHT, Christopher

Chris is a senior environmental consultant working for OHES in the North Environmental Claims Management Team. Previously Chris worked at Arcadis UK, Parsons Brinkerhoff, SLR Consulting and WSP Group managing contaminated land site works. Chris graduated from the University of Manchester School of Geography with a master's degree in Environmental Monitoring, Modelling and Reconstruction; which

followed a Joint Honours Degree in Geography and Geology from the University of Leeds. Having worked in the sector for over ten years, Chris is also a member and fellow of the Chartered Institute of Water and Environmental Management, a Chartered Water and Environmental Manager, a Chartered Scientist and a Chartered Environmentalist. He volunteers for the RGS-IBG where he is a Geography Ambassador, a researcher and writer for the Discovering Britain project and, on the RGS-IBG Council as the Regions Representative (Chair of the Regions). As part of his previous role as Chair of the Yorkshire and North East Region, Chris arranged over 60 regional events including 34 guided walks.

SPENCE, Mary

Mary is a Project Manager at Global Mapping Ltd. Mary has an MA in Geography from University of Aberdeen and a Postgraduate Diploma in Cartography from University of Glasgow. Mary is also a Fellow of the British Cartographic Society including being Vice President 2004-2006. Before working for Global Mapping, Mary worked at GEO Projects for 28 years, producing award winning maps, securing nine BCS Design Awards, thirteen John Bartholomew Awards and four International Map Trade Association Best Map Awards. More recently, Mary has taken on consultancy projects including Head of Content Acquisition for British Waterways in 2003. In 2003, Mary was included in the Top 10 UK cartographers in a review by the Independent on Sunday. The culmination of Mary's career was being awarded an MBE for services to cartographic design.

SPENCER, Ian

Ian Spencer has been a Geospatial Analyst with the UK Ministry of Defence for 25 years. After graduating from Royal Holloway and Bedford New College (University of London) he joined the Mapping and Charting Establishment (RE) as a Graduate Trainee in 1990. His early work focused on product and standards 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

She also co-ordinates the meetings of the Chesil Education Partnership Secondary Geography Teachers Network.

TERRINGTON, Ricky

Ricky is a Geospatial IT specialist with expertise in Geographical Information Systems (GIS), 3D modelling and visualisation for geosciences. His role comprises the development and management of geospatial data for Earth sciences and leading the construction and dissemination of 3D geological models. He graduated with a BSc in Environmental Science, joining the British Geological Survey shortly afterwards in 2001. Subsequently he studied for an MSc in Geographical Information Science between 2007 and 2009, passing with Merit. Over the past 10 years he has developed a specialist role, being the manager of the 3D Helpdesk 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 Newbigin 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.

TOON, Jane

Jane has more than 15 years' experience in the GIS and IT industry working as a technical author, GIS product specialist and GIS software developer. She is currently a GIS Product Engineer at Esri UK, and has also worked as a technical author and GIS product specialist at Esri UK. Before joining in 2002 Jane was technical lead in a global team providing IT knowledge management at Andersen. She has also held roles as a GIS Software developer in Petroleum Services Group at Andersen (now Deloitte Petroleum Services), 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 UCL.

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

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 lead 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, CEN/TC 287. He has also been heavily involved in the AGI, being a long-time member of the Council, and in 2008 Chairman.

WALKER, Stephen

From 1980 until 2005, Stephen was the head of the geography department at the Holgate School, Nottinghamshire. Latterly, he was the co-ordinator for environmental education and environmental management at the school. He managed and promoted global links at the school (and work supporting the International Schools Award) and worked in the ICT faculty before retiring from teaching in 2013. He has worked as a PGCE Tutor in Geography for the Open University. Stephen has a BA (Dual Hons) in Geology and Geography (Sheffield, 1974), a PGCE, a MEd (Educational Studies, Sheffield 1994) and MSc (Environmental Decision Making, Open University 2005). In 2017, he was awarded a PhD from the University of Nottingham for his thesis 'The early industrial revolution in the Leen valley, Nottinghamshire'. His current research interests are in the application of GIS in historical geography, landscape archaeology and environmental management. He retains an interest in the development of 'Learning for Sustainability' in schools. He is actively involved in the management of several heritage and environmental projects in Nottinghamshire.

WALLACE, Stuart

Stuart is currently a Senior Analyst and Team Leader at JBA Consulting where he has worked since 2002. Projects that he has been involved in over recent years include: developing a Flood Warning Database for Network Rail, the inspection, analysis and reporting of over 1,950km of drainage channels and structures for the Shire Group of Internal Drainage Boards, a classification of public rights of way for Yorkshire Dales National Park Authority, and developing an agricultural database application for Snowdonia National Park Authority. Stuart has a BSc in Geography from the University of Hull and an MSc in Spatial Information Technology from the University of Durham. He is a member of both the British Computer Society and the Chartered Institute of Water and Environmental Management.

.....

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.

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.

WILLCOX, Hannah

Hannah is currently a geography teacher at Rookwood School in Hampshire. Hannah has planned extensive fieldwork opportunities for her students, and is an active participant in whole school and departmental inset sessions. She has reviewed and revised her department's schemes of work, and has liaised with other local schools to share resources. She has attended courses run by Ordnance Survey and Southampton University and is also an examiner. At her previous school, Hannah worked with teachers in a local network, and also organised a trip to Kenya for her students.

WILLIAMS, Andrew

Andy Williams is an Army Geospatial Officer who uses professional geographic skills to influence strategic decision makers. Notably, his analysis drove significant investment decisions in Afghanistan, and contributed to a safe and secure London Olympics; coining the question 'Where is the least bad place to shoot down a plane over London?'. He is currently a Senior Instructor at the Royal School of Military Survey where he leads an academic/vocational training department teaching geospatial intelligence to technicians and MSc students. An experienced project manager, he is a member of a cross-Whitehall working group on creating a Government geography profession, and developing a skills framework for promoting synergy between MOD geographers.

