

# SECTION 5 BIOGRAPHIES



BIOGRAPHIES

Hosted by:



**Jared Abraham** is currently a Senior Research Geophysicist with Exploration Resources International (XRI). Mr Abraham was a geophysicist with the U.S. Geological Survey for 16 years. Prior to the USGS he was a geophysicist with the Department of Energy contractor at the Grand Junction Project Office. Before entering public service Jared was involved seismic acquisition with Northern Geophysical, Inc. Over the past 22 years, his research has focused on the application of geophysical techniques for mapping water, energy, and mineral resources as well as engineering and environmental problems. His research interests included the use of airborne geophysical survey techniques to construct 3-D geological and hydrological framework models. He is a leader in the application of Nuclear Magnetic Resonance measurements for groundwater exploration. He has worked extensively throughout the world on geophysical surveys including Africa, Antarctica, Australia, Central Asia, Europe, and the Middle East. He has served as a technical expert for many government agencies. Mr Abraham received his Masters in Science in Geophysics from the Colorado School of Mines in 1999. He received his Baccalaureate in Science in Geology from Mesa State College in 1994 after concluding a research internship with the University of Alaska Fairbanks, Geophysical Institute.  
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**Mirza Naseer Ahmad** received his M.Sc. in exploration geophysics from Quaid-I-Azam University, Pakistan and Ph.D. from Hokkaido University, Japan. He has 13 years experience of E&P industry and academia. He is experienced in seismic interpretation, reservoir characterisation and G&G evaluation studies. He has broad experience in various computer interpretation technologies and worked as trainer mentor of advanced geophysical techniques. Currently he is working as research geoscientist in Petroleum Geoscience Program of Chulalongkorn University, Bangkok, Thailand. His main research interests are attribute analysis, seismic inversion and spectral decomposition techniques.  
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**Alan Aitken** has been recently appointed as the Goodeve Lecturer in geophysics at the University of Western Australia, Alan's key research interest is the application of geophysics to understand tectonic processes within the continental lithosphere, and he has experience in studies from small-scale to continent scale. He is a member of the ASEG, AGU and GSA.  
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**Sahereh Aivazpourporgou** has a bachelor degree of Physics and a master degree of Geophysics, both from Tehran University, Iran. Sahereh started a Ph.D. at Monash University in March 2009, which will be finished by the end of July 2013.  
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**Takao Aizawa** is a principal geophysicist at Suncoch Consultants Co., Ltd. of construction consulting company. He has been engaged in geophysics for geo-technical application for constructions, coal resources surveys and development of geophysical instruments. His major research subjects are: (i) Seismic 2D-tomography in the small area; (ii) Seismic Interferometry application to the seismic reflection survey using ambient vibration and natural earthquakes; and (iii) development of the MEMS acceleration sensors for seismic reflection survey. He has served as a board member at the Society of Exploration Geophysicists of Japan (SEGJ) since 2010.  
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**Ghunaim Al-Anezi's** position is Project Management Office (PMO)/Researcher. Ghunaim got his B.Sc. in Geophysics from King Saud University in 2001, his M.Sc. in Geophysics from King Saud University in 2010. 11 years' experience in seismic data acquisition and processing. 4 year's experience with ARGAS as Geophysical Processor/Quality Control Geophysicist. 6 year's experience with KACST as Scientific Researcher and Project Management Office (PMO). His areas of interest are using seismic methods for near surface layers.  
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**Abdulrahman Alanazi** has worked as geophysicist in the Oil and Gas Research Institute at King Abdulaziz City for Science and Technology (KACST), Saudi Arabia (Riyadh), since 2007 until present. He had the opportunity to study at King Saud University in Riyadh, Saudi Arabia where he received his Master degree (2012) and his Bachelor degree (2007) in Geophysics. His research interest is in the area of seismic exploration with emphasis on seismic inversion, velocity model building and MASW.  
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**Khalid Aldamegh** graduated with a B.Sc. in Geophysics from King Fahd University for Petroleum and Minerals in 1991. Then he joined King Abdulaziz City for Science and Technology (KACST), as a researcher in Geophysics. He was awarded a scholarship from KACST to continue his master degree in Geophysics at Texas A&M University in College Stations, Texas. Upon his completion of his master degree he was awarded a scholarship from KACST to study at Cornell University in the US, where he finished his Ph.D.. He rejoined KACST research team in 2004 and currently working as the Director of the Oil & Gas Research Institute. He is currently working on a joint project between KACST and the Japan Cooperation Centre, Petroleum to test a newly proposed method for monitoring ground deformation.  
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**David Allen** has provided geophysical services principally to the irrigation industry for the last 7 years from a base in Dubbo, western NSW. Previously he did a Ph.D. in Groundwater Management at the University of Technology, Sydney and 10 years of geophysical exploration contracting with Geoterrex ground department.  
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**Hashim Almalki** got his M.Sc. in Seismic Methods, Ain Shams University, Egypt, 2010, B.Sc. in Geophysics, King Saud University, Saudi Arabia, 2001. Almalki has worked as a Research Assistant since 2004, in Oil and Gas Research Institute, King Abdul Aziz City for Science and Technology (KACST), Kingdom of Saudi Arabia.  
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**Andrew Aouad** is a geophysicist at Origin Energy, based in Brisbane. He graduated in 2004 from Sydney University with a B.Sc. honours in Geophysics. After working in minerals exploration around Australia he moved into land seismic acquisition and processing with Veritas DGC, subsequently CGGVeritas, where he worked in the Middle East and West Africa. Andrew returned to Australia to complete his Masters degree before starting with Origin, where he has been involved with land and marine seismic acquisition, processing and quantitative interpretation.  
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**Michael Asten** is a professor (research) at Monash University, Melbourne Australia, and also a consulting geophysicist and Partner with Flagstaff Geo-Consultants, Melbourne. He has specialist interests in electromagnetic methods for mineral exploration and un-exploded ordnance detection and in the use of ambient seismic noise methods for earthquake hazard studies. He has current collaborative projects with Geoscience Australia, the USGS and the METU University, Turkey. He is a past president of the Australian SEG, and current member of the team of associate editors for Geophysics.  
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**James Austin** is a structural geologist and geophysicist whose main interest is in geophysics and its application to base metal exploration. He's worked with the pmd\*CRC, Perilya Limited, Encom Consulting and Pangaea Resources on mineral exploration projects in Broken Hill, the Mount Isa Inlier, Thomson Orogen and New Guinea. He is now with the Magnetics and Gravity group at CSIRO where he is researching the geophysics of mineral deposits. He has published papers on applied geophysics, structural geology and mineralisation and is currently a member of the Society of Exploration Geophysicists, the Society of Economic Geologists, ASEG and GSA.  
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**Jennifer Badry** works in WesternGeco Perth office as leader unconventional data processing project. She moved to Australia as a valuable addition to the land data processing team as she has experience processing land 2D, 3D, 4D and 3C datasets in North America, where she worked in Canada and US for number of years. Her diverse background also includes marine depth processing in the Gulf of Mexico. Current interests include near surface characterisation, particularly using surface waves techniques.  
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**Cyrille Balland** is part of the INERIS (National Institute for Industrial Environment and Risks) in the risk department of soil and subsoil. He studied for ten years the damage and instability of underground by microseismic or ultrasonic methods.  
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**Martin Bayly** is an Advising Geophysicist for Schlumberger/WesternGeco, his current position is the WesternGeco GeoSolutions Regional Technology Manager, for the Australasia and India region based in Perth. Martin holds a BSc (Hons) from the University of East Anglia UK. In 1981, he commenced employment with Geophysical Service Inc in Australia. Following postings in Sydney and Adelaide, he transferred to Indonesia in 1988 and later Nigeria in 1992. In 1994 he transferred back Australia to head Western Geophysical's regional data processing centre in Perth. In 2001 he became the Regional Chief Geophysicist for WesternGeco.  
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**Craig Beasley** completed B.Sc., M.Sc. and Ph.D. degrees in mathematics and then joined Western Geophysical 1981. He served in several capacities in the Computer Sciences, R&D and Data Processing departments including Worldwide VP of R&D and Worldwide VP of Data Processing in Western Geophysical and continued as VP, Data Processing after the formation of WesternGeco. He has received 2 Litton Technology Awards, a Performed by Schlumberger Silver Medal and the SEG Award for Best Presentation and served as the Esso Australia Distinguished Lecturer. He has twice received honorable mention for the Best Paper in Geophysics. He is an Honorary

Member of the Geophysical Society of Houston and Foreign Member of the Russian Academy of Natural Sciences. He has presented and published widely on a variety of topics ranging from prestack imaging, migration, acquisition and the connections between acquisition, processing and imaging. He served as the 2001-2002 SEG 1st Vice President and as the 2004-2005 President of the SEG. He served as the Fall 2009 SEG Distinguished Lecturer. He was the Founding Chair of the SEG Foundation program Geoscientists without Borders. He is located in Houston and is Chief Geophysicist for WesternGeco and a Schlumberger Fellow.  
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**Sergey Birdus** currently works as a Depth Processing Supervisor with CGGVeritas in Perth. After receiving Ph.D. in Geophysics in Kiev University in 1986 he worked as a lecturer for Kiev State University, a researcher in R&D departments in major Russian service geophysical companies and in several positions with Paradigm Geophysical in Moscow and Perth before joining Veritas in 2006. Sergey is involved in challenging depth processing projects throughout AP region.  
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**Teagan Blaikie** is a Ph.D. student conducting research in the fields of geophysics and volcanology at the School of Geosciences, Monash University in Melbourne. Her research involves integrating geologic and geophysical data to model the internal structures of volcanoes in order to understand and link their subsurface morphology with their eruptive histories. This research is based in the Newer Volcanics Province of Western Victoria, and has implications for understanding volcanism and assessing hazards associated with a future eruption in the region.  
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**Barry Bourne** received a B.Sc. in geology and honours in geology/ geophysics from the University of Western Australia. For the past eight years Barry has been Chief Geophysicist for Barrick's Global Exploration Group based in the USA and Australia. He currently assists with geophysics in the Americas, advanced international projects, global project generation and research. Barry began his career with CRA/ Rio Tinto Exploration, working in base metal exploration in Australia, before switching to uranium and diamond exploration. A focus on gold began in Africa, Australia/Pacific and Europe when Barry joined Homestake/Barrick Gold. He has spent many years in greenstone belts in Africa/Australia/Canada, carbonate basins in USA/Canada and well as magmatic arcs of the Pacific Rim/ South America and Europe. He is an active member of the ASEG, SEG and a fellow of the AIG. Barry has been a committee member of the ASEG Research foundation for the past 15 years and is also on the SEG Minerals committee.  
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**Timothy Brice** is a principal geophysicist with WesternGeco based in Perth, Western Australia and is currently working in survey design and seismic modelling. He has a degree in Geology and a Masters degree in Geophysics and has worked for WesternGeco for 22 years. Areas of work have included Asia, Australia, Europe and North America where he has specialised in survey design, acquisition geophysics and data processing. He is a member of ASEG, SEG and EAGE and has presented and co-authored papers principally on seismic acquisition and survey design.  
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**David Briguglio** is a Ph.D. student from Monash University and a Junior Geoscientist at 3D-GEO in Melbourne. Currently David's work involves 2D/3D structural modelling, seismic interpretation and 1D/3D basin modelling. He has worked with datasets from all over Australia, New Zealand, Oman, Brunei and Papua New Guinea. David completed an honours project at Monash University in 2010, his thesis examined the 'Stratigraphic architecture of the Bass Basin, employing integrated basin structure and applied palaeontology' (sponsored by Benaris International). David began a Ph.D., also at Monash University in 2011; his thesis will examine the affect of tectonic activity relating to subsidence and sediment supply on the nature of sedimentation within the Otway Basin. He is actively interested in fluvio-lacustrine sequence stratigraphy and stratigraphic forward modelling techniques.

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**Gabriele Busanello** is the Land data processing group leader for WsternGeco Schlumberger. He graduated with M.Sc. in Geophysics from University of Trieste, Italy. Gabriele has large exposure to variety of projects ranging from land 2D and 3D to marine, OBC and TZ data processing with more than 9 years experience Gabriele was involved not only in production data processing but also in development and implementation of modelling and synthetic data generation techniques, noise characterisation, source/sensor scaling, statics and demultiple. His current interests are near surface characterisation using different geophysical measurements and their integration for seismic imaging.

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**Kevin Cahill** has worked at CSIRO for the past six years as a geophysicist, mainly in groundwater with some work in minerals exploration, with an emphasis on data collection techniques and methods. Prior to CSIRO he has worked in industry and government covering both ground and airborne methods in Australia and overseas. Kevin's main interests are in the use of different geophysical techniques in the exploration and characterisation of groundwater and the interactions of groundwater and surface water interaction. He is a member of ASEG.

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**Astrid Carlton** is a geophysicist with NSW Trade & Investment at Maitland, working for the New Frontiers exploration initiative. She is presently interpreting and modelling aeromagnetic data in NSW and is piecing together information over the relatively unexplored areas. Prior to working with Geological Survey of NSW, Astrid conducted shallow environmental surveys and unexploded ordnance surveys around Australia, in Hong Kong and in the United Kingdom.

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**Carlos Cevallos** is a geophysicist with over 25 years of experience in Australia and Mexico. Dr Cevallos' experience includes 3D modelling, inversions, geophysical data interpretations, software development, project management, and he was a statistical analyst for over 3 years. He is a graduate of the Autonomous National University of Mexico holding a B.Sc. in physics, a M.Sc. in geophysics from the Centre of Research and Advanced Education of Ensenada (Mexico), and a Ph.D in geophysics from Macquarie University (Australia). He enjoys Coca-Cola and dancing.

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**Richard Chopping** is a geophysicist with Geoscience Australia, currently undertaking a Ph.D. at the Australian National University studying the physical properties of the Australian Lithosphere. Richard's background includes computer science and a wide array of geophysical and data analysis techniques. He received a B.Sc. (Hons.) in geophysics from UTas and an MSc in Earth Physics from ANU.

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**Asbjorn Norlund Christensen** has worked with potential field data since acquiring marine magnetic data off the coast of Denmark for his master's thesis 25 years ago. Asbjorn obtained a Ph.D. in geophysics from Colorado School of Mines before commencing working on the development of the FALCON system at BHP Billiton in 1995. Since then Asbjorn has worked as a geophysicist, airborne operations manager, and as a consultant on airborne geophysical methods. Asbjorn is now employed as principal geophysicist with Fugro Airborne Surveys – promoting, teaching and conducting research in airborne gravity gradiometry.

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**Min Lee Chua** currently works as a Senior Geophysicist with CGG in Perth. He received a Masters degree in Electrical Engineering from Aachen University of Applied Sciences, Germany. In 2007 he joined CGG as a Geophysicist and has worked in Kuala Lumpur, Houston and Perth. Chua is involved in land time and depth seismic processing projects throughout the AP region.

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**Glenn Chubak** began his geophysical career writing software for the parallel processing of seismic data on large clusters. Lately, he has been working on the remote referencing and processing of various IP and resistivity data sets with an emphasis on software development. His current project is to develop a new, wireless, distributed array IP system for use in mineral exploration.

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**David Clark** has worked for CSIRO since 1978 in rock magnetism, petrophysics, potential field applications, and applications of magnetic tensor gradiometry. He has a B.Sc. (Hons.) and M.Sc. from Sydney University and is currently working towards a Ph.D. at Macquarie University. He is a member of the ASEG, SEG and AGU.

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**Roger Clifton** has been geophysicist at the Northern Territory Geological Survey for many years, having previously worked in rock properties. He started at BMR in 1968, followed by Bush work in the nickel days. He has a Master of Science thesis in radiometrics and is currently doing a Ph.D. in potential fields at UWA. Roger has remained a command line programmer throughout.

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**Steven Constable** studied undergraduate geology at the University of Western Australia, graduating in 1979. In 1983 he received a Ph.D. in geophysics from the Australian National University and later that year moved to the Scripps Institution of Oceanography, where he is currently Professor of Geophysics. Constable is interested in all aspects of electrical conductivity, and has made contributions to inverse theory, mineral physics, mantle conductivity, magnetic satellite induction studies, global lightning, and instrumentation. His main focus is marine

electromagnetic methods, including commercial applications. His work was recognised by the G.W. Hohmann Award in 2003 and the 2007 SEG Distinguished Achievement Award to Scripps. During his career Constable has spent 705 days at sea, published 82 papers, and had 4 patents issued. He is a member of AGU, EAGE, RAS, and SEG. He has served as an associate editor for 'Geophysics', as a section secretary for the AGU, and on the MARELEC steering committee.

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**Andreas Cordsen** has over 30 years of industry experience in Europe and North America and has become a specialist in applying innovative 3-D seismic design and interpretation approaches to solving exploration and development problems for companies in the Western Canadian Basin and Latin America. In that capacity, he has played a key role in the discovery of several significant oil and gas pools over many years. Mr Cordsen was formerly President & CEO of Geophysical Exploration & Development Corporation (GEDCO), a provider of geophysical software solutions like OMNI 3D (for 3D design) and VISTA (for seismic data processing). Currently he is Solution Design & Modeling Global Business Manager for WesternGeco. He is a member of SEG, CSEG, EAGE, and APEGGA.

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**Ross Costelloe** is presently employed as a geophysicist at Geoscience Australia in the Onshore Seismic and MT section. He has extensive experience in geophysical data acquisition, processing and interpretation. His career includes data acquisition and processing projects in Australia, Indonesia, Turkey, India and Botswana, working with seismic, gravity, AEM, and airborne magnetics and radiometrics data. He has a B.Sc. in Applied Mathematics from Sydney University and an M.Sc. in Earth Physics from ANU.

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**Marina Costelloe** received both a B.Sc. (1991) and Grad.Dip. Sci. (1992) in geology and geophysics from the University of Sydney, and a M.Sc. (2004) in mine site rehabilitation from James Cook University. Marina started her career with Geotrex in 1993 working in airborne geophysical methods specialising in airborne electromagnetic for mineral exploration. More recently Marina joined Geoscience Australia in 2007 and is currently a geophysicist in the Continental Geophysics Section undertaking work with airborne geophysical methods (magnetics, radiometrics and AEM).

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**Matthew Cracknell** is a Ph.D. Candidate at the ARC Centre of Excellence in Ore Deposits (CODES), University of Tasmania. His primary research interests include the application of machine learning algorithms to novel geoscience inference tasks, including semi-automated geological mapping, and innovative methods for the analysis and visualisation of spatially distributed data. Other interests include the estimation of geological structural geometry from remote sensing data. Matthew is a member of the Geological Society of Australia, American Geophysical Union and Society of Exploration Geophysicists.

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**Millie Crowe** recently completed her B.Sc. (Hons.) in Geophysics at the University of Adelaide, and is currently in the Graduate Program of Geoscience Australia.

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**Luisa D'Andrea** graduated with an Honours degree in Geophysics from the University of Tasmania in 2001. She worked in the oil industry for Halliburton prior to employment with Rio Tinto in 2005. She has worked for Rio Tinto Iron Ore, Rossing Uranium and most recently with the Project Generation Group of Rio Tinto Exploration based in Melbourne.

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**Aaron Davis** semi-successfully passes himself off as a research geophysicist at the CSIRO Centre for Earth Science and Resource Engineering in Perth, Western Australia. He is interested in geophysical techniques for groundwater, environmental and minerals applications: including airborne and ground-based EM, resistivity and NMR. In this session he's going to talk about AEM and inversions and hopefully he will make some sense.

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**Kristofer Davis** received his B.Sc. in Geophysical Engineering in 2005 and his Ph.D. in Geophysics in 2010; both from the Colorado School of Mines in Golden, Colorado. He is currently a research associate at the University of British Columbia with the UBC-Geophysical Inversion Facility. His research topics have ranged from unexploded ordnance to large-scale inversion of potential-field data to the incorporation of geology into geophysical inversions. When not at work, Kris can be found at a curling club.

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**Paul De Groot** is President of dGB Earth Sciences, a seismic interpretation software and service company. He started his career with Shell in 1981 and worked ten years for them in various technical and managerial positions first in The Netherlands, then in Oman, in Nigeria and lastly again in The Netherlands. Paul subsequently worked four years as a research geophysicist for TNO Institute of Applied Geosciences before co-founding dGB in 1995. He has authored many papers covering a wide range of geological and geophysical topics and co-authored a patent on seismic object detection. Together with Fred Aminzadeh Paul wrote a book on Soft Computing techniques in the Oil Industry. Paul holds M.Sc. and Ph.D. degrees in geophysics from Delft University of Technology.

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**Timothy Dean** completed a B.Sc. in Geophysics at Curtin University in 1997 and joined Western Geophysical as an onboard seismic processor. He returned to Curtin to complete his Honours degree in 1999 before moving to UNSW where he obtained a Ph.D. in Physics. He joined WesternGeco in 2003 and has since worked in a variety of roles including field operations, software development and research located in Saudi Arabia, England, Norway and Australia. He is currently a Senior Research Geophysicist in WesternGeco's GeoSolutions Development Group in Perth researching various topics associated with land seismic acquisition.

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**Helen Debenham** Occupation: Processing Centre Manager, Company: ION GX Technology. Helen graduated from Cambridge University with a Masters Degree in Geology and Geophysics. She joined Veritas in Crawley in 2003 and worked in PSDM for 5 years before moving into imaging research. Subsequently she joined Fugro Seismic Imaging in 2008, initially leading their depth-imaging group in the UK before transferring to Perth to instigate PSDM as a product line in the Asia-Pacific region. Following several years leading the PSDM

group in Perth, became Processing Manager for FSI in Perth, handling the full spectrum of processing. In early 2013 joined ION-GXT as the processing centre manager for the newly opened Perth centre.

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**James Deeks** is a Ph.D. student at The University of Western Australia with the Centre for Petroleum Geoscience and Carbon Dioxide Sequestration. With an undergraduate background in engineering and physics he has recently begun to explore the world of geophysics using computational modelling in areas ranging from rock physics to seismic imaging.

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**Michel Denis** graduated from Paris University with a Ph.D. in mathematics, taught mathematics in Port au Prince (Haiti) university for two years, joined CGG in 1980 and until that date Michel was still in the same company he started in land seismic acquisition engineer in Italy, then 2 years later got back to head office as processing geophysicist. Michel worked as area geophysicist from 1984 until 1998, in several countries: India, China, Indonesia, Myanmar, France and Malaysia. Joined again land acquisition as country manager in Egypt, Yemen and South Africa from 1999 till 2008. After 2 years in India as Technology center manager, Michel went back to head office in 2011, and such that time is Technical director, sales & marketing, Land division. His interests are broadband seismic, borehole geophysics, seismic while drilling, reservoir monitoring and hard rocks geophysics, especially when dedicated to mining exploration. He attends major conventions around the world, and this year will present papers for EAGE, ASEG, SEG and SAGA in South Africa.

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**Mike Dentith** is Professor of Geophysics at the University of Western Australia. He is leader of the Geophysics and Image Analysis Theme in the Centre for Exploration Targeting. His research interests include regional prospectivity analysis using geophysical methods and the geophysical signatures of mineral deposits.

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**Yohannes Lemma Didana** got his B.Sc. degree in physics from Addis Ababa University in 1994. He completed his M.Sc. degree from University of Iceland in 2010. He worked at Geological Survey of Ethiopia for more than ten years. He is currently a Ph.D. candidate at school of Earth and Environmental sciences at University of Adelaide.

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**Daniel DiFrancesco** is the Business Development Manager for Lockheed Martin's Gravity Business Unit in Niagara Falls, NY. He is responsible for marketing and promoting gravity products and solutions to both commercial and government customers. Dan began his career at Lockheed Martin (then Bell Aerospace Textron) in 1987 as a mechanical design engineer responsible for gravity gradiometer instrument design, production support, and field service. He has served as Program Manager and Technical Director for both commercial and government contracts. He earned his B.Sc. in Mechanical Engineering from LeTourneau University (Longview, TX) in 1982.

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**James K. (Jim) Dirstein** founded Total Depth PL in 1993 and has more than 30 years of international experience in the acquisition, processing and interpretation of seismic data from

many sedimentary basins. He participates in exploration projects which target Petroleum, Coal, CBM, Shale Gas and Geothermal resources. Jim has a passion for the evaluation and integration of new and has been involved with the early application of many advanced geophysical techniques. Jim studied geology and geophysics at the University of Toronto (HBSc). He is a member of many professional societies and has served as a past president for the ASEG WA.

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**Jon Downton** is a Senior Research Advisor with Hampson-Russell, A CGGVeritas Company. Jon has worked as a reservoir geophysicist, research geophysicist and research manager. His work has been focused on reservoir geophysics and the seismic processing associated with this. His current research is the prediction of fractures and stress from seismic anisotropy. Jon has extensive experience in estimating rock and fluid properties from seismic data, including AVO, inversion and rock physics. He is one of the original co-authors of the lambda rho mu rho approach to elastic inversion. Jon has presented numerous papers at SEG, EAEG and CSEG conferences, for which he has received Best Paper awards, the most recent of which was winning the Best Exploration Paper at VII INGEPET in the fall of 2011. He has also been a keynote speaker at CSEG and EAGE conferences. Jon obtained his Ph.D. from the University of Calgary in 2005 and his B.Sc. in Geophysics from the University of Alberta in 1985. Jon is a member of the CSEG, SEG, EAGE and APEGA and is a past president of the CSEG.

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**Jinsong Du** is a Ph.D. candidate student, at the Institute of Geophysics and Geomatics, China University of Geosciences at Wuhan, majors in satellite gravity and magnetic data processing, inversion and interpretation, and their applications to regional and global tectonics, geodynamics and other terrestrial planetary sciences.

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**Mark Duffett** is following a Ph.D. in astrophysics and subsequent Honours research work on lunar basalts, Daniel Bombardieri commenced as a Research Geologist with Mineral Resources Tasmania in 2007. He is currently on partial secondment to the University of Tasmania as a research fellow applying geophysical constraints to the development of 3D models of western Tasmania.

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**Guy Duncan** obtained a B.Sc. in geophysics from Curtin University and a Ph.D. from Melbourne University. Early in his career he worked as a research scientist at BHP Billiton's research laboratories in Newcastle, Australia, where he was involved in the development of geophysical methods for resource exploration. Since 1995 he has worked for BHP Billiton Petroleum in various locations, involved in quantitative interpretation, seismic imaging and development geophysics. He is a member of the ASEG and SEG.

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**Jarrold Dunne** is a geophysicist with a particular interest in Quantitative Interpretation, Seismic Processing and Acquisition, built over 16 years spent working with Shell, Woodside, Nexus Energy and MEO. He has contributed to the research and development of many AvO, seismic inversion and rock physics techniques and has successfully applied these in worldwide exploration, development and production projects. In 1996 he completed a Ph.D. at Melbourne University focussing on the

seismic processing of deep seismic data from the Gippsland Basin. More recently he has worked on seismic interpretation projects in most of the Australian offshore sedimentary basins and internationally in areas such as Indonesia, Qatar, Pakistan and Nigeria.

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**Robert Ellis** joined Geosoft Inc. in 2009 and is currently Principal Scientist, Earth Modelling, helping to lead the development of geophysical modelling and inversion capabilities in support of resource exploration. Prior to joining Geosoft Inc., he was a Principal Geophysicist/Global Practice Leader for BHP Billiton for 13 years where he worked on the development and deployment of practical modelling and inversion applications to support BHP Billiton's global exploration activities. Dr Ellis also spent over a decade in academic research on inversion methods, including being a founding member of the UBC Geophysical Inversion Facility. Robert began his scientific career with a Ph.D. in Theoretical Physics from the University of Melbourne and subsequent post-doctoral research.

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million) which are now available to industry at a small fraction of real cost. In addition government funded airborne electromagnetic, gravity and hyperspectral surveys have been conducted and are now being interpreted to resolve specific exploration problems and assist target delineation for the exploration industry.

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**Phil Sirles** For nearly 30 years Phil has worked in government and consulting positions performing engineering and environmental, or 'near-surface' geophysical investigations. The combination of federal and private consulting provided a broad perspective to the successful use of many geophysical tools. Phil's career has been primarily focused on infrastructure projects such as levees, bridges, and highways, but with an emphasis on assessing the safety of dams. He has also worked on contamination projects at abandoned missile facilities, groundwater resource studies, and explored for oil and gas. He is a practitioner of seismic, GPR, electrical, and potential fields methods to solve unique problems in settings that have prompted him to refer to this line of work as 'urban geophysics'. In 2012 Phil completed program management of a nine-year project with the U.S. Federal Highway Administration. The project involved writing of a 777-page book entitled 'Use of Geophysics for Transportation Related Projects', followed by the web-development of this document into a searchable website based on geotechnical engineering applications and problems [www.cflhd.gov/resources/agm/](http://www.cflhd.gov/resources/agm/), and ended last year with the release of an 8-hr training DVD. Each product was designed to further the application of geophysics in transportation projects. He believes the value of working on this project for nearly a decade is that the results from geophysical investigations are being used routinely in design, construction, and remediation.

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**Fatma Nurten Sisman** graduated from Canakkale University with a B.Sc. degree in 2009 in the field of geophysical engineering. Fatma Nurten joined and currently resides at the Earthquake Studies Masters program at Middle East Technical University. Her research topics include site response modelling and non-invasive site characterisation techniques. This study is from an ongoing interdisciplinary research project jointly directed by Aysegul Askan and Michael Asten.

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**Richard Smith** received a B.Sc. and M.Sc. from the University of Adelaide, Australia and an M.Sc. and Ph.D. from the University of Toronto, Canada. In 1989, he worked at Lamontagne Geophysics in Toronto, where he helped develop methods for generating conductivity depth sections from SPECTREM airborne electromagnetic data. In 1990, Richard held an ARC post-doctoral fellowship at Macquarie University in Sydney. From 1990 to 1992, Richard worked as an explorationist at Pasmenco Exploration in Melbourne. In 1993, Richard joined Geoterrex Ltd., an airborne geophysical survey company, later purchased by Fugro. Here he developed methods for processing and interpreting airborne magnetic and electromagnetic data. In May 2009, Richard took up an Industrial Research Chair in Exploration Geophysics at Laurentian University in Sudbury. He and his students are undertaking research on ground, airborne and borehole electromagnetic methods; interpreting and modelling gravity and magnetic data and physical properties measurements. Dr Smith

is a member of the SEG (Chair, Mining and Geothermal committee, 2008–2010), the EAGE, KEGS, the ASEG (Federal Executive, 1992–1993), and the PDAC (conference organising committee, 2008–2011). He is the recipient of a number of awards for the ‘best presentation’ at conferences (the 1988 ASEG/SEG conference in Adelaide and the 1997 ASEG conference in Sydney) and is a co-recipient of the award for the best paper in the journal *Geophysics* for 1997 and the best paper in *Exploration and Mining Geology* (2012). In 2009/2010 he was the Canadian SEG Distinguished Lecturer. Currently, he is an Associate Editor for *Geophysics*.  
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**Gregory Street** has 35 plus years of experience starting in the Victorian Goldfields. He spent 8 years with Scintrex before joining the Geological Survey of WA where he promoted the use of airborne geophysics for regional mapping. In 1991 he was Director of Environment for World Geoscience Corporation where he applied geophysics to environmental applications. As Exploration Manager of Sandfire Resources 2006–2008 he oversaw the discovery of the DeGrussa copper/gold deposit. Greg was a Senior Lecturer at Curtin University from 2000 to 2010. He is a former president of the ASEG and a Fellow of the AIG.  
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**Richard Swarbrick** is a world-renowned expert in subsurface pressures. He is active in promoting the understanding of subsurface issues through radio and media appearances and is well known through his publications, standard petroleum exploration text books and global scale studies which have given him a worldwide profile. After completing a First Class degree in Geology from Durham University UK and a Ph.D. in

Sedimentology and Tectonics at the University of Cambridge, Richard spent 10 years in international roles in the UK and Houston for Mobil Oil Inc. In 1989 he began teaching Petroleum Geology at Durham University, where he is still actively involved in research and teaching – leading to his Professorship in 2008. In 1997 he founded GeoPressure Technology, advising E&P companies on how to reduce the risks associated with drilling and assisting with important decisions around well-planning and geopressure petrophysical and geological interpretations. Between 1994 and 2001 he instigated and ran GeoPOP, the GEO sciences Project into OverPressure which was funded by 16 oil and gas companies.

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**Randall Taylor** holds a B.App.Sc. (Hons.) in Geophysics from the University of Queensland, 1982. His current position is Chief Geophysicist for Origin Energy, where he is accountable for the application and QC of geophysical technology. He commenced with Origin Energy in 2000 after 6 years with Oil Company of Australia as team leader in the Otway and Eromanga basins. Prior to this Randall was a senior geophysicist at Santos Ltd., conducting and overseeing seismic interpretation in a number of their operated permits in the Cooper and Carnarvon Basins, PNG and Timor Sea. He began his career in geophysics with CSR's Oil and Gas Division, working mainly in the Denison and Surat basins. Randall is a member of ASEG, SEG and PESA.

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**Stephan Thiel** obtained his Masters from the Freiberg University of Mining and Technology, Germany and was an IPRS scholarship holder to undertake his Ph.D. at the University of Adelaide. He is currently a Postdoctoral Fellow at the University of Adelaide, focussing on the use of the magnetotelluric method to a variety of targets. His main interest lies in imaging deep lithospheric structures of crust and mantle to understand earth's processes in combination with other geophysical and geochemical data sets. Furthermore, he works on characterisation and monitoring of geothermal fields.

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**Leon Thomsen** holds degrees in geophysics from Caltech (B.Sc., 1964) and Columbia (Ph.D., 1969). His academic career began with postdoctoral appointments at CNRS in Paris, and at

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**Daniel Wedge** has a background in computer science and is applying his image processing and visualisation skills to processing geological and geophysical datasets. He currently works at the Centre for Exploration Targeting at the University of Western Australia. He has worked on automated processing of downhole televiewer logs, and today he will be presenting work on methods for processing full tensor gradient gravity data.

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**Tom Whiting** has over 30 years’ experience in global minerals exploration management including a very successful discovery track record. He held numerous senior management roles over a 20 year career with BHP Billiton, including Vice President of Minerals Exploration BHP Billiton from 2000–2004. In this role, Tom was responsible for BHP Billiton’s global minerals exploration program. His other roles included strategic overview of Brownfield’s Exploration programs for all global BHP Billiton minerals assets. Prior to joining BHP, he worked for CRA Exploration Pty. Ltd. based in Melbourne and Geoterrex Pty. Ltd. (an international geophysical contractor) in Australia and Canada. He started his career with Delhi Oil based in Adelaide, Australia. He is currently the Non-executive Chairman of the Deep Exploration Technologies Cooperative Research Centre. He is based in Melbourne and serves as a non-executive director on several boards and as a consultant working in the Minerals Exploration and Research and Development fields.

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**Chris Wijns** has been the Group Geophysicist for First Quantum Minerals since late 2008. First Quantum mines and explores for copper, nickel, and gold around the world. Previously, Chris held a similar role for four years with gold miner Resolute Mining Ltd., following completion of a Ph.D. at UWA and CSIRO in crustal geodynamics and interactive geophysical inversion. Prior to this, Chris studied geophysics degrees in Canada, and worked for three years in gold exploration in West Africa for Placer Dome before moving to Australia in 1999.

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**Helen Williams** Originally from New Zealand, Helen completed a Ph.D. in 2008 at Monash University. Her project was an integrated study of the geodynamic evolution of the Curnamona Province using potential field methods as a toolkit. These days Helen works as a geophysicist at MMG supporting the exploration team in the search for copper, nickel and zinc.

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**Ken Witherly** has been involved in minerals exploration for over 40 years and has contributed directly to the discovery of a number of economic deposits. In 1999, Ken helped form a technology-focused service company that specialises in the application of innovative processing and data analysis to help drive discovery success.

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**Jason Wong** joined the Centre for Exploration Targeting (CET) at the beginning of 2010 as a computer scientist to contribute to the Geophysics and Image Analysis team. He completed his PhD at UWA in Computer Science and worked in industry at an international video game company for several years. At CET, Jason was a part of the team that developed the Grid Analysis and Porphyry Analysis extensions for Geosoft’s Oasis Montaj, and is currently working on the CET exSim, an exploration simulator for training.

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**Dan Wood** is an exploration geologist who retired from corporate mineral exploration in late-2008, after 24 years with BHP and almost 18 years with Newcrest Mining where, from the mid-1990s, he led the company’s exploration team as Executive General Manager Exploration and was a member of Newcrest’s executive management committee. Newcrest was judged by Metals Economics Group of Canada as the world’s most successful gold explorer, 1992–2005. The gold and gold-copper discoveries of Newcrest’s exploration team laid the foundation for the company’s transformation into a large gold mining company. For a period in 2010 and 2011 he was the Director of the W H Bryan Mining and Geology Research Centre at the University of Queensland, where he is an Adjunct Professor and a member of the Centre’s Advisory Board. He is also a non-executive Director of the Highlands Pacific Group, a Resource Industry Ambassador for Queensland, joint-recipient of the Geological Society of Australia’s Joe Harms Medal for discovering the Cadia ore bodies, the 2012 Society of Economic

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