SECTION 5
BIOGRAPHIES
COMPANY OVERVIEW

Velseis is widely regarded as Australia’s most experienced seismic contractor, leading the industry in high resolution seismic data acquisition, processing and interpretation.

Operating throughout Australia as well as Internationally, Velseis provides a full suite of integrated seismic services across the entire resource sector including the oil and gas, minerals, coal, and coal seam gas industries.

The Company draws upon 35 years of practical and logistical know-how, along with high-level geophysical expertise, to consistently deliver quality results safely and with exceptional efficiency.

SEISMIC SURVEY DESIGN

Using industry leading 3D design software, along with internally developed proprietary technology, we provide a comprehensive 2D and 3D design service which accommodates the technical, logistical and economic considerations of our clients.

SEISMIC DATA ACQUISITION

With a diverse range of seismic source and recording hardware options along with experienced field personnel, Velseis can provide customised field crews suitable for most projects.

EXPLOSIVES

Velseis has over 35 years’ experience in high-resolution Dynamite surveys. Shot hole drilling services are provided by our Seisdrill division, which has six truck-mounted Bourne 1000R drilling rigs, specifically suited to shot hole drilling. We are licensed to purchase and handle explosives, our pre-loaders are highly experienced, and our QHSE protocols are comprehensive.
Vibroseis

IVI Envirovibe (15,000lb) buggies
- Manoeuvrable
- Environmentally friendly (low impact)
- Easily transported

Inova Univib (26,000lb) buggies
- Manoeuvrable
- Environmentally friendly
- Adjustable hold-down for peak force variability

AHV-IV 380 Renegade (80,000lb)

Velseis has recently expanded its Vibroseis fleet to include INOVA’s 80,000 lb Renegade buggies. The Renegade 380 is currently the largest vibrator in Australia and when compared with INOVA’s standard 60,000lb vibrator, exhibits superior low frequency sweep characteristics, enhanced broadband capability and deeper stratigraphic imagery.

“Renegade Reaches Australian Shores”

Mini-SOSIE

In areas with particular environmental or access restrictions, Mini-SOSIE provides a seismic data acquisition method which is a geophysically viable alternative to Vibroseis. Utilising a Wacker Neuson compactor as an impactive energy source and smaller field crews, this technique is well suited to smaller projects with shallower targets. Mini-SOSIE is also effective as an alternative energy source for areas of a 3D Vibroseis survey where access is not possible for Vibroseis buggies due to environmental, topographical or cultural restrictions.

www.elsea.com
Recording Hardware

- 10,000 channels of Sercel 428/408 Telemetry recording hardware
- 6,000 channels of Sercel UNITE RAU eX-3 (wireless) recording equipment
- Up to 40,000 channels of Nodal recording equipment

Seismic Data Processing

Velseis Processing has provided quality seismic data processing and interpretation services to the oil & gas, coal, and mineral industries for over 25 years. We draw on a history of thousands of projects, and a staff of nearly 400 years’ experience to extract valuable insights into the subsurface for our customers. Major oil & gas companies have consistently ranked our services as among the best available, and we have long been acknowledged as worldwide industry leaders in high resolution imaging for coal and minerals.

Our processing and interpretation services have been utilized by Australian Coal and Coal Seam Gas Industries for the past 15 years, and are of significant importance to the economics and safety of mining operations. Velseis work closely with mine planning staff to provide detailed stratigraphic and geotechnical analysis, highlighting faults and other stratigraphic anomalies. The information is used by mine staff for mine design, to prepare for drilling, and to help predict changing roof, floor and seam conditions.

Velseis processing capabilities have rapidly expanded in past few years. With a significant and scalable computing processing facility, along with a world class suite of proprietary and licensed technology, Velseis is processing large 2D, 3D,
and 4D seismic surveys both domestically and internationally. Whether it be land, marine, or transition zone environments, our people and technology are configured to take on the most challenging of projects. Our comprehensive technology catalogue includes solutions for:

- Tomo-statics
- Cross spread noise attenuation
- COV binning
- De-Ghosting
- SRME
- Shallow Water De-multiple
- 5D Interpolation
- Azimuthally Aware Tomography
- HTI correction
- VTI/TTI Pre-Stack Time and Depth Imaging
- RTM
- FWI

**Research And Development**

Since its inception, Velseis has based its operations on sound geophysical principles and technical innovation. The company maintains an active R&D division, which carries out targeted research in applied seismology. Current research activities include embedded acquisition systems, multi-component seismology, and optimisation of high-resolution data processing.

R&D publications are available at:
http://www.velseis.com/research/recent_publications

**Health And Safety**

At Velseis, we strive to provide our clients with geophysical information of the highest possible quality. To achieve this aim, our operational procedures are based on rigorous geophysical procedures, and are carried out with strict quality control. This focus on technical excellence runs parallel to a stringent commitment to health, safety and the environment. Furthermore, we aim to achieve technical products of the highest possible quality, to maintain an incident-free workplace, and to conduct our business with no adverse effects to people, to property, or to the natural environment.
Jared Abraham is a principal geophysicist with Aqua Geo Frameworks, LLC in Mitchell, Nebraska. Over the past 25 years, his research has focussed on the application of geophysical techniques for mapping water, energy, mineral resources, and engineering and environmental problems. His research interests include the use of airborne geophysical survey techniques to construct 3-D geological and hydrological framework models. Jared 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.

Cameron Adams is a PhD Student at the Centre for Exploration Targeting (CET), School of Earth Sciences, University of Western Australia. Cam has been awarded a MRIWA postgraduate research scholarship and an ASEG Research Foundation grant for his PhD project titled ‘Understanding of the petrophysical properties of altered rocks: implications for geophysical exploration’.

Shakil Ahmed is a PhD candidate from Department of Exploration Geophysics, Curtin University of Technology, Western Australia. His research area includes rock physics characterisation of unconsolidated sand using laboratory ultrasonic measurement and micro-CT image analysis. His study primarily focusses on effective elastic properties of granular medium using contact based models. Before commencing postgrad study, he worked on seismic data acquisition as a field QC for a national petroleum exploration company. He was also involved with 3D seismic data interpretation team on different petroleum fields to characterise reservoir potentials and new locations for drill wells using inversion and attribute analysis.

Alan Aitken has over 10 years of research experience in geophysics. Topics of research interest include solid earth geophysics, cryosphere geophysics and environmental geophysics.

Rukun Alac is a PhD candidate at the University of Sydney. She received her MEngSc in surveying and geospatial engineering from University of New South Wales and BS in geophysical engineering from Istanbul Technical University. She also holds Master of Science and Technology in Spatial Information from University of New South Wales. Her current research interests include modeling, data processing, optimisation problems and data mining. She is currently working with EarthByte Group and the Basin GENESIS Hub.

Nikolce Aleksieski is a scientist on the rise and has been in the industry over the past few years. His prior employment as a supervisor for contaminated land remediation has given him insight into issues associated with mining. His academic background is in geology and geophysics with a postgraduate degree in environmental and sustainability with a research dissertation on impacts to groundwater relating to coal seam gas and shale gas mining. His overarching goal is to promote sustainable mining in Australia.

Carl Altmann is currently an exploration geologist for Origin Energy in Brisbane, Australia. He received his BSc degree in geology, geophysics and environmental geoscience from Adelaide University and his Honours degree in petroleum geoscience from the Australian School of Petroleum. Carl is a member of AAPG and SPE.

Jade Anderson has a research background in U–Pb geochronology, metamorphism and Proterozoic Australia tectonics.

David Annett has been with CSIRO since 2007. A forward-modeller by inclination, he has researched the application of frequency and time-domain electromagnetic prospecting methods to marine CSEM, CO2 sequestration, uranium and groundwater exploration, and maintains interest in CSIRO’s Bayesian Lithological Inversion initiative.

Mehdi Asgharzadeh is a geophysicist with more than 14 years combined industry work and academic research experiences in exploration geophysics. He has completed an engineering degree in mining exploration (2000), a MSc degree in petroleum geosciences (2004) and a PhD in exploration seismics (2014). He has worked with National Iranian Oil Co. and Schlumberger Australia as a geophysicist and as a researcher with Curtin University.

Michael Asten is a Professor (retired) and ongoing Adjunct Senior Research Fellow in the School of Earth Atmosphere and Environment, Monash University, Melbourne. He is a past-President of the ASEG, and served a recent three-year term as the Australian Geoscience Council representative on the Australian Academy of Sciences UNCOVER Executive Committee. Professor Asten has published as author or co-author of 186 scientific papers. He has been involved in development of passive seismic (microtremor) methods for 15 years, developing applications for earthquake hazard, regolith characterisation, and engineering tasks. He is a member of two international consortia furthering the use of microtremor methods.

Jim Austin is interested in the application of structural geology and geophysics to base metal exploration. He’s worked with the pdm*CRC, Perilya, Encom Consulting, Pangaea Resources and CSIRO on projects across the Mount Isa Inlier, Broken Hill, Thomson, New Guinea, Musgrave, Arunta, Capricorn, Kimberley and Arnhem Land. He currently leads the Multiphysics team at CSIRO and has been focussed on IOCG, Sedex /BHT and magmatic nickel sulphide systems over the past 6 years. He has published papers on applied geophysics, structural geology and mineral exploration and is currently a member of the ASEG and Society of Economic Geologists.
Adam Bailey completed his undergraduate studies in geology and geophysics at the University of Adelaide in 2011, graduating with first class Honours from the Australian School of Petroleum. In 2012 he commenced study towards a PhD at the Australian School of Petroleum, focussing on mapping natural fractures within energy-rich Australian basins. His PhD was awarded in 2016. In 2015 he started with Geoscience Australia as a graduate, and has been with the Onshore Energy Systems section since 2015 where he is working on understanding present-day stress conditions in several Northern Australian basins as part of the exploring for the future program. adam.bailey@ga.gov.au

Peter Baille has been employed by CGG since August 2012, where he is Senior Vice President Business Development in the Multi-Client & New Ventures division, based in Perth, Western Australia. He holds degrees from the University of Tasmania (BSc 1970, geology) and Macquarie University in Sydney (MSc Hons 1988, sedimentology and basin analysis). He held positions in government from 1970 until 1997 (Tasmanian Department of Mines 1970–1993, Western Australia Department of Minerals and Energy 1993–1997). He joined TGS-NOPEC Geophysical Company in 1997 as Chief Geologist Asia Pacific involved in development and marketing of non-exclusive geophysical surveys, and subsequently joined Singapore based Geodata Ventures in 2009. He has been actively involved with many professional associations and has held positions of Secretary of the GSA, Managing Editor of the PESA Journal and President of FESWA. He was President of the AAPG Asia Pacific Region from 2011 to 2014 and President of SEAPEX from 2012 until October 2016. peter.baille@cgg.com

Roman Beloborodov is a PhD candidate at Curtin University (Perth, WA). He is involved in experimental and theoretical rock physics and currently is working on artificial and natural shale rocks. Roman has a background in engineering geology, hydrogeology, artificial lithiumsngen and soil mechanics. His main interest lies in seismic interpretation and inversion for rock properties. roman.beloborodov@postgrad.curtin.edu.au

Romain Beucher is a Postdoctoral Research Fellow at the School of Earth Science at the University of Melbourne. Romain Beucher has expertise in lithospheric scale thermo-mechanical modelling of rifts and passive margins. He also has experience with surface process modelling and is interested in quantifying rock exhumation and relief evolution using low-temperature thermochronology (apatite Fission Track, U-Th/He). He is now working on coupling large-scale basin model with surface processes to study interactions and feedback between erosion and tectonics. rbeucher@animelb.edu.au

Frank Bilki is a geologist and GIS/Remote Sensing analyst, and is currently Technical Product Manager for the Micromine exploration and mining application. fbilki@micromine.com

Rob Bills holds a Bachelor of Science degree (Monash University 1984) and a Master of Science (James Cook University 1989). He joined Emmerson Resources in September 2007 after a 25 year career in exploration and mining with Western Mining Corporation (WMC), then BHP Billiton. rbills@emmersonresources.com.au

Andrew Black is a potential fields geophysicist with extensive experience in borehole gravity. andyblack@microglacoste.com

Teagan Blaikie completed her BSc and PhD at Monash University, Melbourne, Australia. She specialised in the geophysical interpretation and modelling of potential field data for understanding the subsurface architecture of volcanoes. Currently, Teagan is working as a postdoc for CSIRO Mineral Resources, but is embedded at the Northern Territory Geological Survey. Her current work focusses on geologically constrained interpretation and modelling of geophysical data to understand the structural architecture of the greater McArthur Basin. teagan.blaikie@csiro.au

Richard Blewett is the General Manager of the Minerals Systems Branch at Geoscience Australia. He has responsibility for leading GA’s minerals science program and the promotion of Australia as an attractive investment destination for minerals exploration. Richard graduated with 1st class Hons in Geology from Swansea University (Wales) in 1985. Following a year in the seismic industry in South Africa, he completed a PhD in structural geology from Leicester University in the UK (1989). During this time he worked as a geologist in the French Alps, Canadian Appalachians, British Caledonides and Nepalese Himalaya. Richard joined Geoscience Australia in 1990 as a research scientist and for the past twenty seven years has worked in a number of minerals-related mapping projects across many of Australia’s mineral provinces. He combined this with work on joint projects in the Sultanate of Oman, China and is currently leading a project of institutional strengthening in India. Richard was the Chief Editor and leader of a major book (2012) on Australia’s geology – Shaping a Nation: a Geology of Australia. Richard has been involved in the development of the UNCOVER initiative of the Australian Academy of Science. Since 2012 he has been the leader of the Mineral Systems Branch in the Resources Division at Geoscience Australia, which has carriage of the minerals component of the new Exploring for the Future program. Richard is interested in the management and leadership of science and in geoscience education. He has an MBA in Technology Management from Deakin University (2001). Richard.Blewett@ga.gov.au

Casey Blundell is a PhD candidate with the school of Earth, Atmosphere and Environment at Monash University, Victoria. The focus of her research is in structural geology and geophysics, with application to regional and local mineral systems. Casey is interested in developing her research further to address the broader tectonic regimes governing regional structural evolution through time. casey.blundell@monash.edu

Andrey Bona received his MSc in theoretical physics from Czech Technical University in Prague in 1997, and PhD in applied mathematics from University of Calgary in 2002. From 2002 to 2003 he was a post-doctoral fellow at Memorial University in Canada, where he subsequently worked as assistant professor till 2007. He is currently associate professor and Head of Department of Exploration Geophysics, Curtin University. His research interests include seismic anisotropy and imaging. He is an associate editor for Geophysical Prospecting and member of SEG, EAGE and ASEG. a.bona@curtin.edu.au
Biographies

Barry Bourne graduated in geology and geophysics from the University of Western Australia. He is a Fellow of the AIG, on the committee of the ASEG Research Foundation and an active member of the ASEG/SEG. He is also on the external advisory committee for the UWA Centre for Exploration Targeting. Mr Bourne has extensive domestic and international mineral exploration experience. Up until 2013 he was Chief Geophysicist for Barrick Gold and is now a mineral exploration consultant to private and public international exploration groups. Mr Bourne began his career as a geophysicist with the CRA/Rio Tinto Exploration group.

Cameron Bowker has worked in the petroleum industry for 3 years, having joined Santos Ltd as a graduate reservoir engineer in 2014. He earned a Bachelor of Engineering (Chemical) and a Bachelor of Science (Geology) from the University of Adelaide in 2013. Cameron has an interest in projects which combine engineering and geological principles to deliver new energy resources. This is his focus in his current role in Cooper Unconventional Growth where he has been helping to progress the Cooper Basin Deep Coal Unconventional Gas Play.

Trent Bowman Since graduating from Macquarie University with a Bachelor of Science (Honours) in 2011, Trent has been working full time as a geophysicist for GBG Australia, based in Sydney, Australia. This role has exposed him to a broad range of geophysical techniques and processes within the near surface and engineering sectors. In addition to his Bachelor’s degree, Trent completed his Masters of Science in geoscience in 2016.

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Carmen Braz is a PhD candidate at the University of Sydney within the EarthByte Group and Basin GENESIS Hub. Carmen’s research interests centre on the surface expression of deep Earth processes and the subsequent effects on basin evolution. This has led Carmen to the focus of her current research, Papua New Guinea, which has seen episodic basin growth within a tectonically active environment.

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James Brewster has 20 years’ experience working with gravity gradiometer instruments and their data. In his current role as senior scientist at Bell Geospace he is responsible for developing new processing, interpretation and quality control methods. This includes both algorithm and software development. He has a BSc degree in physics from the University of Bristol, England and a PhD in materials science from the University of Tennessee, USA. During post-doctoral fellowships at Oak Ridge National Laboratory and the National Center for Physical Acoustics he published research on heat transfer in high energy acoustic systems.

Gilles Brocard is a researcher in geomorphology and tectonics. He has conducted research on river drainage development, river long profile changes, cosmogenic 10Be and 26Al dating, neotectonics, paleoseismicity and geodynamics in various settings (most notably Alps, Turkey, Puerto Rico, Guatemala), through various post doctoral positions in France, Switzerland, and the United States, successively at the universities of Grenoble, Rouen, Minnesota, Lausanne, and Pennsylvania. His current research at the University of Sydney aims at understanding landscape evolution along Australia’s North West Shelf and in New Guinea.

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Mark Bunch is a senior lecturer in Petroleum Geoscience at the Australian School of Petroleum, University of Adelaide. His research concerns formation evaluation and seismic geomorphology. Prior to his present role, Mark spent seven years with the CO2CRC as a Research Associate in reservoir characterisation, during which he worked on geological modelling projects in the onshore Canterbury Basin (NZ), the Gippsland and Otway basins of Victoria, the Surat Basin of Queensland, and the Darling Basin of NSW. Mark holds degrees in geology and geophysics (BSc Hons), hydrogeology (MSc), and a PhD in earth sciences (stratigraphic forward modelling).

Dane Burkett is the Olympus XRD product specialist working within the Scientific Solutions Business Unit. Dane has recently submitted his PhD at UNSW in the field of geology and geochemistry. He received the university medal for his undergraduate studies and first class honours. Dane’s role at Olympus is to develop XRD applications for the Olympus innovative XRD product line, especially within the natural resources sector from oil/gas exploration through to mineral exploration, material handling and mineral processing. He is also working on a range of applications from explosives and forensics, to corrosion analysis and medical applications.

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Bronwyn Camac has over 25 years’ experience in the oil and gas industry as a geologist in both conventional and unconventional resources. Bronwyn has worked for Comalco Exploration Wiltshire Geological Services, Origin Energy, Beach Energy and now Santos Ltd. Bronwyn gained her PhD in engineering science in 2010, which focussed on using numerical modelling methods to predict fractured rock, and maintains interest in this area supervising various post-graduate projects and application of these techniques in unconventional resources. Currently, Bronwyn is the Manager, Cooper Basin Unconventional Growth, responsible for the commercialisation of the Permian Source Rock (Deep Coal) Play.

Astrid Carlton is a geophysicist with the NSW Department of Planning and Environment in Maitland working on the New Frontiers exploration initiative. Astrid currently reviews geophysical submissions from exploration companies, maintains government and company geophysical databases, works on regional geophysical acquisition and provides geophysical data to customers. Astrid has interpreted and modelled aeromagnetic data in NSW to support mapping projects. Prior to working with the Department, Astrid conducted shallow environmental surveys and unexploded ordnance surveys around Australia, in Hong Kong and in the United Kingdom.

Lidena Carr is a geoscientist for the onshore energy systems project within the Resources Division at Geoscience Australia. She graduated from the Australian National University (ANU) majoring in geology and human ecology with a BA/BSc (Hons) in 2004, and began working as a technical officer at the Research School of Earth Sciences (ANU). In 2007 She joined Geoscience Australia with the then ACRES, in 2009 she moved to the then Onshore Energy and Mineral Division to work as a seismic interpreter and basin analyst. Currently she works within the Onshore Energy Section as part of the Exploring for the Future program.

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Donna Cathro recently joined the Groundwater Branch of Geoscience Australia as a basin analyst. Prior to this role she spent many years working with Frottech Geoscience within the Basins and Geospatial teams and in the Petroleum and Marine Division of Geoscience Australia. Donna has experience that spans basins the globe including India, Africa, USA and Australia, with projects relevant to the hydrocarbon, CCS, geothermal and water sectors. She received a PhD from the University of Texas, Institute of Geophysics (Austin).

Malcolm Cattach is the CEO and Managing Director of Gap Geophysics Australia and Gap GeoPak. He is also a founder and Executive Director of Gap Explosive Ordnance Detection. He is an Active Member of the ASEG and Associate Member of the SEG. Malcolm’s career has been committed to the development and commercialisation of unique Australian geophysical survey technologies. He is the primary developer of the Sub-Audio Magnetics technique that was originally the subject of his PhD.

Matthieu Cauchefert graduated with a Masters in Earth Sciences from Universite Pierre et Marie Curie (UPMC), Paris, France. He is now doing a PhD at Curtin University, Department of Exploration Geophysics, Perth, Australia.

Bradley Cave is currently undertaking his Honours year at The University of Adelaide under the supervision of Dr Richard Lilly and Dr Stijn Glorie. This consists of examining the apatite and calcite from the Ernest Henry Orebody. This includes completing geochronology on both minerals as well as examining the trace element composition of the minerals. This should provide insight into the evolution of the ore bearing fluids as well as provide information on the ore genesis.

Carlos Cevallos is a senior interpretation geophysicist living in Perth Australia. His previous work was at CGG Multi-Physics, the Geological Survey of NSW, Noranda and The University of Queensland. He is a physicist whose interests are to integrate geological and geophysical data and find new ways to interpret potential field data. He holds a BSc degree from UNAM, Mexico, a MSc degree from CICESE, Mexico, and a PhD degree from Macquarie University, Australia.

Asbjorn Norlund Christensen is the owner of Nordic Geoscience Pty Ltd, consulting world-wide on ground and airborne geophysics for resource exploration. He has worked on minerals and petroleum exploration projects in Australia, Asia, Africa and the Americas, and he has managed research teams and technology companies. His areas of interest are: geophysical technology development and deployment, potential fields, and the integrated interpretation of geophysical data for minerals and petroleum exploration. He has an MSc in geophysics from the University of Aarhus, Denmark and a PhD in geophysics from Colorado School of Mines, USA. Asbjorn is based in Melbourne, Australia.

David Clark has a BSc (Hons 1) in physics and a MSc in geophysics from Sydney University, and a PhD in Geophysics from Macquarie University. He has worked for CSIRO since 1978, undertaking research into applications of rock magnetism to exploration, magnetic petrology, potential field interpretation and tensor gradiometry. His current position is Principal Research Scientist, affiliated with the CSIRO Superconductive Devices and Systems Group in CSIRO Manufacturing and the CSIRO Magnetics and Gravity Team in CSIRO Minerals.

Roger Clifton started off 50 years ago at BMR in 1968, did field work during the nickel boom, backpacked through Asia and Europe, taught physics at Curtin University, and has spent the past 20-odd years at NT Geological Survey. Recently he participated in a World Record Skydive of Skydivers over Sixty.

David Cohen has undertaken research in geochemical exploration methods in many parts of the world, including use of selective extractions and biogeochemistry. He is also involved in large scale regional geochemical mapping programs, including the NE region of NSW, Cyprus and New Zealand. He is a past president of the (Int’l) Association of Applied Geochemists, and a former Head of the UNSW School of Biological, Earth and Environmental Sciences. He is a Fellow of the Royal Society of NSW, the AIG and the AAG. He has been the AusIMM visiting lecturer to New Zealand.

Julia Correa holds a BSc in geophysics from Fluminense Federal University, Brazil, and is currently a PhD candidate in exploration geophysics at Curtin University. Before starting her doctorate studies in 2015, she worked as a field geophysicist on seismic acquisition and processing projects offshore Africa. Julia is currently working on the applications of fibre-optics sensing DAS.

Alexander Costall is a PhD student at Curtin University whose research focusses on groundwater and applied electrical and electromagnetic geophysics. The ultimate aim of the research is to resolve the hydrogeological properties of basin-scale fault structures through high-powered grounded-bipole electromagnetic surveys. Alex is also interested in coastal hydrogeological systems and is an experienced practitioner of ground penetrating radar and electrical resistivity imaging, particularly in coastal environments.

Tim Craske is a geoscientist with 35 years’ experience in exploration in Australia, the Americas and East Africa. He spent 20 years with WMC Resources during which he discovered the Ernest Henry and E1 iron oxide copper-gold deposits in the Cloncurry district, northwest Queensland. He was also involved in the targeting the West Musgraves province for copper and nickel, leading ultimately to the discovery of Nebo-Babel nickel sulphide deposit. Since leaving WMC Tim has worked for junior and major companies, is a Federal Councillor of AIG, and director of Geowisdom and Thinkercáfe that develops innovative thinkers, organisations, and disruptive technology.

David Crook is a geologist with 35 years of experience in exploration, mining and management, predominantly within Western Australia, where he has investigated gold, nickel sulphide, nickel laterite and more recently LCT pegmatites.
in teams with an excellent discovery record. So far career highlights include participation in the discovery of the Radio Hill Nickel Mine; ore reserve generation and production at the Gidgee Gold Mine; exploration management for a WA Nickel Laterite Project; and discovery of Australia’s first caesium deposit.

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Karol Czarnota completed his undergraduate degree in applied geology from the University to NSW and joined Geoscience Australia as a graduate where he now leads the Mineral Potential Section. He holds an MSc in Petroleum Geoscience from Royal Holloway University London and a PhD in geology and geophysics from Cambridge University. His interests ranging from geomorphology to mantle dynamics and how mineral systems operate within the dynamic Earth.

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Katarina David is a hydrogeologist with over 20 years working experience. She worked across industry, consulting, government and research organisations.

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Vladimir David has more than 27 years’ experience in mineral exploration and mining industry, as well as in research institutions and government offices. During his employment, he held different responsibilities such as Unit Manager, Chief Geologist, Executive Director Exploration, Principal Geologist, Principal Consultant, Team Leader, Senior Geologist, Geophysicist and Mine Geologist. Vladimir’s experience is in design and management of mineral exploration strategies and activities from project generation – grass roots to the advanced prospects stage and pre-feasibility studies. Skills include: ground selection; design and interpretation of geophysical and geochemical surveys; design and supervision of major drilling programs and pre-feasibility studies.

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John Davidson is a senior geoscientist with The Geological Survey of NSW, undertaking basin studies and managing NSW’s seismic data collection. Prior to this John spent over 10 years in the petroleum industry as a seismic interpreter with a focus on structural geology in both Australian and overseas basins. John has recently been contributing to the 3-D mapping of NSW project, working in the Sydney-Gunnedah Basin.

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Aaron Davis is a research scientist at CSIRO based in Perth, WA. He specialises in electromagnetic applications for groundwater exploration and detection.

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Brooke Davis graduated with a BSc (Hons) from the University of Queensland in 2006. Since graduating, Brooke has worked extensively within the Australian coal mining industry extending more than 9 years in mine geology, exploration and resource modelling and estimation roles. In 2015 Brooke commenced her PhD at the University of Queensland focussing on determining the geological controls on the distribution of P- and F-bearing minerals within coal seams across the Bowen Basin.

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Tim Dean has an Honours degree in geophysics from Curtin University and a PhD in physics from the University of New South Wales. He spent more than twelve years working for WesternGeco and Schlumberger in a variety of roles related to surface and borehole seismic acquisition including field operations, software development and research located in Saudi Arabia, England, Norway and Australia. After leaving Schlumberger he worked as a sports technology project advisor at Hawk-eye innovations (a division of Sony). He joined Curtin University’s Department of Exploration Geophysics as a Research Fellow in August 2016.

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Natalie Debenham is currently undertaking a Doctor of Philosophy at the Australian School of Petroleum at the University of Adelaide. Her current research is focussed on using natural fracture networks to predict subsurface fluid flow in Australia’s petroleum producing basins.

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Michael Dentith is Professor of Geophysics at The University of Western Australia. His research interests are the geophysical signatures of mineral deposits, hard rock petrophysics and application of deep-penetrating methods to exploration.

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Bert De Waele has over 25 years of structural mapping experience, mostly in African Precambrian terranes. During his career he has worked for various geological surveys, leading and conducting regional-scale mapping work, and in the past 8 years he has worked as a Principal Consultant with SRK Consulting in Perth. In that role, he has worked all over the world on a wide range of commodities, adding value by promoting geological understanding and mineral systems knowledge to increase success-rates in exploration. Bert also holds an Adjunct Research position at Curtin University in Perth.

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Xuesong Ding is a PhD student in EarthByte Group, School of Geoscience, The University of Sydney since October 2015. Xuesong obtained a bachelor degree in 2014 at Ocean University of China (OUC).

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Mark Duffett After studies at the Universities of Adelaide and Tasmania, Mark has worked at Charles Darwin University, the Northern Territory Geological Survey and the University of Tasmania on projects ranging from saltwater crocodile nesting habitat to regional potential field acquisition and interpretation in the African Copperbelt. Since 2009 he has been Senior Geophysicist at Mineral Resources Tasmania.

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Jarrod Dunne has over 20 years of experience in seismic amplitude interpretation, reservoir characterisation and seismic processing, with experience in a large number of basins throughout the world, having worked for Shell, Woodside and a number of smaller oil companies. Jarrod has remained actively involved in R&D through involvement in software development and post-graduate student supervision. He is an active member of ASEG and PESA holding committee roles in both societies.

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Anton Egorov is a PhD student at Curtin University and Lomonosov Moscow State University.

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Chris Elders is Chevron Professor of Petroleum geology at Curtin University. He graduated from Oxford University with a BSc and PhD and spent four years working for Shell as an exploration geologist in the Netherlands. He moved to Royal
Holloway, University of London, where he spent 20 years running an MSc course in petroleum geoscience. He moved to Curtin University in 2013.

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Robert Ellis (PhD, theoretical physics, University of Melbourne) is currently Principal Scientist for modelling and inversion at Geoseft Inc. He was a founding member of the University of British Columbia Geophysical Inversion Facility, and subsequently continued to advance and apply geophysical inversion techniques as Principal Geophysicist at BHP Billiton Exploration, joining Geoseft Inc. in 2009.

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Alison Kirkby completed her MSc in geology in 2008 and joined Geoscience Australia in the same year. She worked in the Geothermal Section for several years before commencing her PhD, which she completed in 2016. She now works in the magnetotelluric and seismic data acquisition and processing section at Geoscience Australia where she is involved in magnetotelluric data collection, interpretation, and software development. alison.kirkby@ga.gov.au

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Stephen Kuhn graduated with honours in geophysics from the University of Tasmania. In 2007 Steve commenced work as a geophysicist with Gold Fields, first at the St Ives Gold Mine in Western Australia then in international exploration on a range of projects including boots on ground work in West Africa, South and North America; Central and South East Asia and widely throughout Australia. In 2014 Steve commenced a PhD on the topic of machine learning for geological mapping and is currently a PhD candidate with the TMVC hub, expecting completion in early 2018. stephen.kuhn@utas.edu.au

Andrew La Croix completed his PhD at Simon Fraser University in British Columbia, Canada in sedimentology and ichnology. He also completed a MSc at the University of Alberta. In early 2017, Andrew moved to the University of Queensland to undertake a Postdoctoral Research Fellowship as part of the university’s Energy Initiative. His work is examining the sedimentology and sequence stratigraphy of the Precipice-Evergreen succession in the Surat Basin with the goal of improving static reservoir modeling and prediction of heterogeneity for CO2 sequestration. a.lacroix@uq.edu.au

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Ross Large is an Emeritus Distinguished Professor of Geology at the University of Tasmania. He gained his BSc (Hons) from
the University of Tasmania in 1969, PhD from University of New England in 1973, and an Honorary Doctor of Engineering from the University of Lulea, Sweden. For ten years Ross worked in the mineral exploration industry. In 1984 he joined the University of Tasmania, and five years later established the Centre for Ore Deposit and Exploration Science (CODES). Under his leadership CODES grew to become recognised as one of the top industry collaborative ore deposit research centers in the world. Ross has published over 120 scientific papers and is internationally recognised for his research on the genesis of ore deposits and relationships to Earth evolution. His current research interest is the chemistry of past oceans and relationships to Earth evolution. He has won many awards during his career the most recent as lead scientist for a UTAS team that won the 2016 Eureka prize for interdisciplinary research. Ross is the past President of the Royal Society of Tasmania and the Chair of the Tasmanian Division of The Academy of Technology and Engineering.

Brett Larkin is a geocomputing consultant with over 35 years' experience, chiefly in the Australian coal industry but also in the Indonesian and UK coal industries, and in the Australian oil, metals and uranium industries. He studied geology, geophysics and computer science at the University of Sydney and geostatistics at Stanford University. He is the chief author of the popular LogCheck program for the collection, validation and display of coal exploration data and one of the two authors of the widely used CoalLog, Borehole Data Standard for the Australian Coal Industry.

Biographies

BIOGRAPHIES

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Singapore. He transferred to CGG Perth SI in 2014 and currently focusses on full waveform inversion implementation and multiple attenuation.

**Murray Lines** is the Founding Director of Stratrum Resources Consulting Group, an independent minerals consultancy providing information and supply/demand analysis to the mining industry. His background is as a geologist, involved in exploration, mine planning and processing across a range of minerals such as coal, talc, carbonates, graphite, silica sands, high purity quartz for solar glass and specialties such as polysilicon crucibles etc. He has made technical/marketing presentations globally over a period of ~25 years. He has worked on assignments for a wide range of companies on silica sand, quartz and lime projects around Asia for more than 20 years.

**Melvyn Lintern** has been working as a scientist in CSIRO for 37 years. Highlights of his career include discovering the association between gold and calcrete, which has led to multi-billion dollar gold discoveries; calcrete sampling for gold continues to be important for explorers. Mel found small gold nuggets in the leaves of tall deep-rooted trees growing above a buried gold deposit; he is an advocate of biogeochemical techniques in the search for mineral deposits. Recently, he invented a field method for gold that is set to transform the gold industry and that is his contribution today.

**Andrew Long** After starting his career with a few years in land seismic acquisition and processing, Andrew completed a PhD at UWA in Australia and worked as a Post-Doctoral Research Affiliate at Stanford University before joining PGS in 1997. He is now is Chief Scientist for Geoscience and Engineering, with interests in most areas of seismic technology and the interpretation of geophysical data.

**David Long** joined Buru in July 2013 and has 28 years of technical and managerial experience with Shell International, Premier Oil and PDO located in the UK, Eastern Europe, Pakistan, Netherlands, Indonesia, and Oman. On emigrating to Australia in 2004, he spent six years with Woodside working on international and Australian exploration opportunities, and two years with Apache on Asia new business. In addition to seismic interpretation and regional geological evaluations, David has held roles in seismic acquisition, quantitative interpretation, field development and heavy oil steam injection tertiary recovery. He is a geophysicist with a masters degree from Imperial College, London.

**James Macnae** has research interests in electromagnetic sensor development and the extraction of meaningful physical properties from airborne electromagnetic data. He has avoided as far as possible the use of underdetermined black-box inversion methodologies, focussing instead on optimising systems and then using fast and useful overdetermined strategies for physical property estimation. Along the way, he has contributed to the methodology of unwanted signal removal and noise minimisation. He is a gold medallist of the ASEGs.

**Malcolm MacNeil** currently works at Woodside as Principal Regional Geoscientist focussing predominantly on the NW Shelf of Australia.

**Circe Malo-Lalande** graduated in geological engineering from Laval Université (Quebec, Canada) in 2001 and completed a Master degree in geophysics at Ecole Polytécnique of Montreal in 2003. She joined Abitibi Geophysics acting as lead TEM geophysicist for 8 years. She then worked for Anglo American Exploration looking after geophysics in Canada and Finland. Since 2015, Circe has been General Manager and R&D Director at Instrumentation GDD.

**Dave Marchant** completed his PhD in geophysics at the University of British Columbia in 2015 under the supervision of Prof Doug Oldenburg. His research focussed on new ways to understand induced polarisation effects in inductive source electromagnetic data. He has worked at Computational Geosciences Inc. since 2010, where he consults to the resource industry on the interpretation and inversion of a wide variety of geophysical data.

**Suzanne McEnroe** is a professor at the Norwegian University of Science and Technology. Her current main topic is the relationship between magnetic mineralogy and magnetic anomalies.

**John McGaughey** is CEO/CTO of Mira Geoscience, where he directs the company’s technology strategy and leads its geotechnical business. Prior to founding Mira Geoscience in 1999, he spent 10 years at the Noranda Technology Centre in Montreal as a senior scientist in their rock mechanics group. He obtained his PhD in geological engineering at Queen’s University in Canada. John has spent his career working in multi-disciplinary modelling and interpretation for mineral exploration and geotechnical applications. He is a pioneer in the application of geophysics to rock mechanics challenges in underground mining. He has worked extensively in quantitative, integrated interpretation of geological and geophysical data in 3D earth modelling; in analysis of rock physical properties; in 4D geotechnical hazard assessment; and in data management and machine learning. He has been a leader in adapting technology advancements from the oil and gas to the minerals industry. He is currently co-leader of the Data Integration module of one of Canada’s largest-ever mineral exploration R&D initiatives, ‘Integrated multi-parameter footprints of ore systems: the next generation of ore deposit models,’ and was technical co-chair of the decennial Exploration 17 conference in Toronto, October 2017.

**Jordan McGlew** is currently working on various exploration projects at Carnarvon Petroleum and previously has worked at Santos and fTa GeoTeric. Jordan obtained a BSc from Curtin University in 2015, majoring in applied geology and environmental biology, followed in 2016 by an applied geology Honours (First Class) degree in petroleum geology. During her Honours year she represented Curtin University as a member of the 2016 Aapg Imperial Barrel Award (IBA) team. She is an active member of Aapg and Pesa. Jordan is currently the AAPG Young Professionals Lead for Australia and a member of the Pesa Federal sub-committee for education.

**Stephen McIntosh** works for Rio Tinto and was appointed Group Executive, Growth & Innovation in June 2016. A New Zealander, Stephen has 30 years of service with the Rio Tinto group of companies. He has deep experience across a wide
range of commodities and geographies, having worked on projects in more than 45 countries spanning the A–Z of minerals and metals during his career. Stephen leads a global team that has accountability for finding, evaluating, developing and optimising Rio Tinto’s assets so they can safely, efficiently and responsibly produce materials that are essential to human progress. Growth & Innovation’s remit extends across the entire asset lifecycle from exploration, to project evaluation and major capital project construction through to when we close a mine or processing facility. Growth & Innovation also leads the company’s mine to market productivity program, provides technical services to operations, manages strategic technical risk and oversees Rio Tinto’s IT infrastructure, innovation and automation platforms. The team has a strong track record of pioneering in automation, data analytics, operational systems and processing technologies in the resources industry. Stephen holds an MSc in geology from Auckland University and completed physics units to MSc level at the same time, before spending much of his early career as a geophysicist. He is a Fellow of the AusIMM, a Fellow of the SEG, a Member of the ASEG and a graduate of the AICD.

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**Mike McMillan** received his PhD from UBC in 2017 on parametric and cooperate large-scale airborne electromagnetic inversion. He has worked with Computational Geosciences Inc. since 2013 and before that spent 5 years as a project geophysicist for Newmont Mining. When not geophysicsing, Mike can be found running ultra-marathons and competing in triathlons.

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**Timothy McMillan** has a BSc Advanced (Geology) (Honours I) from the University of Wollongong; Thesis ‘Digital facies mapping of the Hawkesbury Sandstone through laterally extensive close-range photogrammetry’. He worked for one year as a casual undergraduate/graduate geologist at WSP | Parsons Brinckerhoff and is currently a PhD student at the University of New South Wales in mining engineering. His research is focussed on the geology and groundwater of porous/fractured rock systems in the Southern Sydney Coalfields and is Australian Government Research Training Program (RTP) scholarship supported.

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**Michael McWilliams** leads CSIRO’s Deep Earth Imaging Future Science Platform, a new research effort aimed at helping discover and manage Australia’s future minerals, energy and water resources. His team is focussed on new geophysical methods, advanced data analytics and mathematical techniques that will provide a better understanding of the subsurface from sparse, incomplete and noisy geoscience data. Mike has served in a variety of academic and government roles, including as Chief Executive of GNS Science in New Zealand, Chief of CSIRO’s Division of Earth Science and Resource Engineering, and Director of the DeLaeter Centre of Isotope Science. He is Professor Emeritus of Geological and Environmental Science at Stanford University.

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**Vassili Mikhailsevitch** holds a MSc and a PhD in physics/mathematics from Kaliningrad University, Russia. Vassili was working at Kaliningrad University from 1982 to 1998. From 1998 to 2008 he was a senior research scientist with QRSciences, a research and development company located in Perth, Australia. Then for two years he was a senior core analyst in Core Laboratory of Australia. In April 2010 Vassili joined Curtin University, he is a senior research scientist in the Department of Exploration Geophysics. Vassili is the author and co-author of 40 journal papers, 22 patents and 45 conference proceedings.

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**Peter Milligan** works as a geophysical consultant after a 30 year career at Geoscience Australia, where as a senior geophysicist he combined developing new products associated with the Magnetic Anomaly Map of Australia with helping to develop a magnetotelluric capability. Peter graduated from the Flinders University of South Australia with BSc (Hons) in geophysics and geology, a PhD in geomagnetism and a DipEd. After some high school teaching, he joined Geoscience Australia (then the Bureau of Mineral Resources, Geology and Geophysics) in 1985, initially with the Geomagnetism and Airborne Geophysics groups. In 2016 Peter was awarded an ASEG Service Certificate.

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**Surabhi Mishra** is a senior geophysicist in Santos. She has a Masters in applied geophysics and has 13 years of insightful oil and gas industry experience. These last 13 years have been promising for her as she got exposure to structural and quantitative interpretation in both conventional and unconventional fields.

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**David Moore** is a geoscientist with over 30 years’ experience in both minerals and petroleum exploration. David graduated from La Trobe University with a BSc in Geology, and will soon complete a Masters in Petroleum Geoscience from Royal Holloway. He has spent the majority of his professional career interpreting potential field data, focussing on integrating gravity gradiometry data into the exploration workflow. He is a member of SEAPEX and ASEG, and is currently a business development manager at CGG.

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**Kevin Morgan** Since graduating in geology from the University of Western Australia in 1956, Kevin Morgan has been continuously engaged in earth sciences. Initially employed in the petroleum industry, then eight years with the Hydrogeological Branch of the Geological Survey of Western Australia and since 1969 as a consultant. He established KH Morgan Geological Consultants Pty Ltd in 1972 with subsequent uninterrupted commitments providing a diverse range of earth science expertise for individuals, companies, government agencies and governments nationally and overseas.

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**Sara Morón-polanco** is a geoscientist with more than 7 years of experience in industry and academia. Sara holds a PhD in petroleum geology from the University of Adelaide and a BSc in geology from the University of Minnesota, USA. Sara combines numerical modelling and field data to better understand fluvio-deltaic systems and to provide insights to the petroleum industry. Sara has worked in multiple interdisciplinary projects in Australia and the Americas, including the understanding of the tectono-stratigraphic evolution and closure of the Panama Isthmus. She is currently a postdoctoral research fellow at the University of Melbourne.

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Timothy Munday is a research group leader in CSIRO Mineral Resources. He leads a research grouping concerned with the development and application of geophysical technologies for exploration through cover. He has over 20 years’ experience in the application of geophysical methods for the characterisation and exploration through and beneath cover, and in groundwater resource assessment. He firmly believes both are inextricably linked areas of study.
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Titus Murray is a research structural geologist with extensive experience in regional restoration and characterisation of faulted/fractured reservoirs in over 30 countries. He provides technology for oil/gas and ground water industries, developing algorithms to describe structures and fluidflow. In many cases these algorithms involve looking at outcrops to distill the key geometry and rheological characteristics. Following the development of a probabilistic hydrocarbon exploration software suite, he has started a research and development program to develop technology to characterise groundwater flow across and through faults. Much of this work is focussed on aquifers impacted by coal mining and coal seam gas developments.
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Robert Musgrave is a research geophysicist with the Geological Survey of NSW. Bob’s interests are in potential field imaging and interpretation, geologically constrained inversion, and the application of palaeomagnetism and magnetic petrophysics to tectonics, mineralisation, and migration of fluids. Bob’s recent research has focussed on the tectonic history of western NSW; the geophysical interpretation of middle and lower crust lithology, fluid-driven magnetic diagenesis, and the use of palaeomagnetism to identify vertical axis rotations. Bob is a conjoint senior lecturer at the University of Newcastle, where he operates a rock magnetic and palaeomagnetic laboratory.
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Regis Neroni graduated in France with a Master’s degree in geosciences, environment and risks from Strasbourg University in 2006. After spending a few years undertaking ground electrical surveys in outback Australia, he consulted to numerous mineral exploration companies with active projects mainly in Australia, SE Asia and Africa. He then worked as a company geophysicist for Barrick and Rio Tinto where he took part in multi-commodity exploration programs throughout Australasia. He is currently Senior Geophysicist with Fortescue Metals Group where he leads the group’s geophysical endeavours, supporting the company’s Pilbara operations and exploration projects across Australia and overseas.
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Tom Neville is currently Formation Evaluation Advisor to NMR Services Australia. After completing a BSc (Hons) in geology at the University of Queensland in 1989, he spent six years working as a geologist for a number of Australian oil and gas companies before joining Schlumberger, where he spent the next 20 years in various technical and managerial roles in research, engineering, and operations, primarily in North America and Asia, focussing on all aspects of formation evaluation. After leaving Schlumberger in 2017, Tom joined NMRSA where he works on interpretation algorithm and answer product development, as well as supporting ongoing operations.
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Shastri Nimmagadda has worked for national and multinational oil and gas producing and service companies worldwide. He is currently a research fellow in the Big Data group, researching in the ‘Digital Ecosystems & Technologies and Knowledge Management’ and now focussed in ‘digital petroleum ecosystems (DPE) and Petroleum Management Information System (PMIS) at the School of Information Systems, CBS, Curtin University, Australia. He has presented and published more than 100 research papers in the international conferences and ranked journals. Shastri explores new opportunities of digital ecosystems and technologies in sustainability research.
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Ryan Noble is a principal research scientist with CSIRO. He has a BSc and MSc in soil science from the University of Tennessee and a PhD in applied geology from Curtin University. Following his PhD, Ryan joined CSIRO 12 years ago and has worked on numerous regolith and groundwater geochemistry projects related to gold, base metal, Ni and U mineral exploration. Ryan is the President and a Fellow of the Association of Applied Geochemists, a member of the Geoforcast E&TS subcommittee and serves on the Board of Earth Science Western Australia.
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Michel Nzikou is currently in the second year of his PhD. His work focus is on building a robust forward and inversion model that estimates the elastic parameters using ultrasonic displacement waveforms. He has completed a MSc in computational geodynamics in Canada. He has a physics background and enjoys programming. In his free time he helps with volunteering within the community.
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Christopher Paschke is a principal geologist with BHP Billiton Petroleum. He holds a BSc from the University of Miami and a MSc from the University of South Carolina. He started work with Mobil Exploration and Production US in New Orleans, Louisiana. During his subsequent career with ExxonMobil, Chris participated in a variety of exploration and development projects. From 2009–2013, Chris worked with the ExxonMobil Asia/Pacific New Opportunities team in Melbourne. Chris joined BHP Billiton in 2014, and has worked in NWS exploration for BHP Billiton in Perth from 2015. He is a member of AAPG, PESA, and the Houston Geological Society.

Ben Patterson graduated from Macquarie University with a BSc in geology and geophysics in 2013 and went on to complete an MSc in geophysics in 2014 focussing on mineral exploration projects and rock magnetism. After completing his studies, Ben worked as a field geophysicist and crew leader at Fender Geophysics undertaking EM, IP and magnetic surveys before joining CSIRO as a junior geophysicist in mid-2015 to work on the Uncover Cloncurry project. Ben remains with the CSIRO carrying out palaeomagnetic and geophysical research projects as part of the Multiphysics team.

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Victorien Paumard is a PhD student at the University of Western Australia. He graduated with a BSc in geology and a MSc in petroleum geology from the UniLasalle University (France). His first research interests were centered on the stratigraphy and paleogeography of Cenozoic carbonate platforms in SE Asia. His PhD research is focussed on better understanding the link between shelf-margin architecture, shallow-marine processes and deep-water systems within the Barrow Group (North West Shelf of Australia) using regional 3D seismic datasets and innovative tools and workflows in seismic interpretation. His research interests are in basin analysis, sequence stratigraphy and seismic geomorphology.

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Julie Pearce is working on integrating high resolution core characterisation, experiments at reservoir conditions, and geochemical modelling to understand reactions occurring during geological carbon storage. She has most notably studied the impacts of impurities including SOx, O2, and NOx in the CO2 stream which may be present from coal combustion sources. Prior to this, Julie studied chemical reaction dynamics by spectroscopic methods in the UK, and subsequently was awarded a JSPS fellowship for field measurement of stable isotopes of CO2 in the atmosphere in Japan.

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Sandra Ochhipinti has been with CSIRO’s Earth Science Business Unit since 2012. Her field of expertise is in the science of natural hazards and she specialises in stress field analysis, modelling of shale elastic properties and estimation of hydraulic permeability from log data. Sandra’s special interest is in intrinsic VTI anisotropy of shales and effects of clay mineralogy on their elastic properties. She has also worked with AngloGold Ashanti in their Global Exploration and Development Group. In 2004 she received a PhD from Curtin University. She completed a short post-doc at Curtin University focusing on seismic interpretation. His research interests are in basin analysis, sequence stratigraphy and seismic geomorphology.

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Laura Phillips is a PhD student at the University of Queensland. She gained a BSc in geology at Royal Holloway, University of London in 2009, then a Master of Research (MRes) in the science of natural hazards at the University of

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Bristol in 2010. She moved to Australia in 2011 and worked as an exploration geologist in the Galilee Basin. Her work within the basin spurred the desire to pursue a doctorate in the subject, and she started her PhD in 2014 looking into the stratigraphy and provenance of late Permian aged sediments within the Galilee Basin.

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Anastasia Pirogova is a first year PhD student in the Department of Exploration Geophysics in Curtin University. She holds bachelor and master degree from Lomonosov Moscow State University. Her main areas of interest are exploration seismology, quantitative interpretation of surface and borehole seismic data, seismic inversion.

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Muhammad Asad Pirzada is a graduate of Mechanical Engineering from the University of Engineering & Technology, Lahore. He started his professional career with Schlumberger Pakistan in 2012 as a field engineer trainee in Fracturing and Stimulation services and later on became independent engineer on fracturing jobs in Pakistan and Yemen. He has also worked as Engineer-in-charge/Cell Leader for WPS Pakistan for an interim period. Currently he is pursuing his masters degree in petroleum engineering from UNSW, Australia and is also a student assistant (tutor) for Dr Hamid Roshan.

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