

ASEG-PESA-AIG 2016

**25TH GEOPHYSICAL
CONFERENCE & EXHIBITION**

Interpreting the Past, Discovering the Future

SECTION 5

BIOGRAPHIES



BIOGRAPHIES



Australian Society of
Exploration Geophysicists



PESA
Petroleum Exploration
Society of Australia



**AUSTRALIAN
INSTITUTE OF
GEOSCIENTISTS**

Sabry Abd Allah is a fellow researcher at Hokkaido University. He received his PhD from Hokkaido University in 2014. He currently studies subsurface and landslide hazard assessment using a 3-D computational method for synthetic modelling and 3-D inversion of the GREATER survey data from Seismogenic areas in Japan.

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Cameron Adams is a PhD Student at the Centre for Exploration Targeting (CET), 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'.

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Zubair Ahmed Extended Walton Model, granular media, shear modulus, ultrasonic measurement, coordination number.

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David Allen worked for 10 years in mineral geophysical acquisition before conducting a PhD in Groundwater Management at UTS and pursuing a career in groundwater geophysics – first detecting seepage beneath canals and rivers, and later, as Groundwater Imaging Pty. Ltd. mapping groundwater at farm and catchment scale using electromagnetics.

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Kristoffer Andersen has a PhD in experimental particle physics and has been working with EM methods for the last 2 years. This work has mainly focused on 1D and 3D TEM modelling. For the 1D case, code optimisations and including the full system description in the forward modelling has been central. For 3D, a completely new code is written from scratch in FORTRAN. Besides work Kristoffer likes running, rowing and outdoor life.

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Niu Anfu. Professor. Nui works in the China Earthquake Networks Center, Beijing, China. Nui graduated from the Institute of physics of CEA and received a PH.D degree in Solid Geophysics, dealing with tectonics and modelling of ground deformation. Has the duty of monitoring deformation data over the Chinese mainland.

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David Annetts has interspersed study with employment (Geotrex, Lamontagne Geophysics and Midspar Systems) and academia (CSIRO), earning a BSc (Hons) and MSc from The University of Sydney and a PhD from Macquarie University. He studied electromagnetic prospecting in various forms since 1988, modelling surface, down-hole and airborne surveys in environments ranging from massive sulphide deposits through the regolith to mapping variations in ice thickness and bathymetry. Presently with CSIRO, he models electromagnetic data for minerals exploration and environmental applications. His scientific interests include forward and inverse electromagnetic modelling and applications of computer algebra.

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Theo Aravanis joined CRA Exploration, a precursor Rio Tinto Exploration, in 1987. Initially working as an exploration geophysicist, Theo was involved in diamond, Au, Zn, Cu & Ni exploration in Australasia. Theo spent the next 9 years in North

America exploring U, diamonds and Ni, leading to the discovery of the Eagle nickel deposit in Michigan. On returning to Australia in 2006 Theo took on the role of Chief Geophysicist for Rio Tinto. He is also involved with the VK1 gravity gradiometer project being jointly developed with University of Western Australia.

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Esben Auken is a professor in near-surface EM geophysics. He has a key interest in airborne electromagnetic for groundwater and geotechnical applications and is involved in all aspects from instrument development, data processing and inversion to geological and hydrological modelling.

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Sasha Banaszczyk Sasha commenced her PhD in 2014 as part of the SIEF Capricorn Distal Footprints of Giant Ore Systems: UNCOVER Australia project. Her work looks at understanding the use of electrical data sets in conductive regolith terrains, for defining prospective base metal deposits hosted within the Capricorn Orogen basins.

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Graeme Beardsmore graduated from Monash University with a PhD in Geophysics in 1996. He taught geophysics theory and field procedure at Monash for a number of years before branching into geothermal energy consulting. He joined NICTA as part of a geothermal project, and remains with Data 61 as a Senior Researcher.

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David Blair developed the first southern hemisphere gravitational wave detector, the Sapphire Clock, the Gingen gravitational wave research facility and the Gravity Discovery Centre. He is a member of the LIGO Scientific Collaboration that recently discovered gravitational waves. Blair is a winner of the Boas medal, the ANZAAS medal, the Eureka Prize, the Clunies Ross Medal and WA Scientist of the Year.

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Peter Boulton graduated from Leeds Uni in 1976 (hons) and from the NCPGG in 1996 (PhD). Over the years he has worked for many different E&P companies either directly or as a consultant and in many different roles including Petrophysicist, Sedimentologist, Geophysicist, Geochemist, Structural Geologist and commercialisation. Currently he is working for Santos as a Structural Geophysicist.

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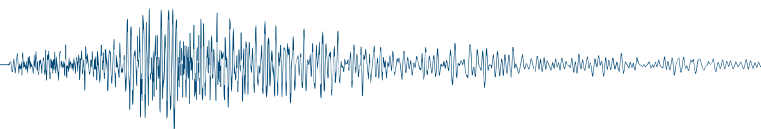
Sarah Buckerfield started at Geoscience Australia in 2014 through the graduate program and has enjoyed working on passive seismic data collection and analysis since starting in the geophysical acquisition and processing team in 2015, alongside other geophysical datasets.

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Andy Bull – VP Emerging Technologies. Graduated with a BSc (Hons) in Electrical and Electronic Engineering from Heriot-Watt University. Started career in the seismic industry in 1988 with Concept Systems. With the formation of INOVA Geophysical in 2010 began development of a brand new portfolio of acquisition products. Currently involved in delivering a range of next generation products for the land seismic market.

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Mark Bunch is a Senior Lecturer in Petroleum Geoscience at the Australian School of Petroleum, University of Adelaide. His



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Barrett Cameron originally worked in mineral exploration with airborne magnetics and radiometrics. After gaining EM and project geophysics experience through a mining company, Barrett moved back into airborne geophysics and then into seismic. Barrett now works in the petroleum industry with marine seismic.

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Juan S. Carvajal Torres received a BS (2014) in geology from the Universidad Industrial de Santander, Colombia, and joined the Colombian Petroleum Institute (ICP) of Ecopetrol as a student in 2012. He is currently working for ICP-Ecopetrol as a consultant geologist. His research interests include petroleum systems modelling, and geophysics.

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Carlos Cevallos is a senior geophysicist at CGG Multi-Physics in Perth Australia. He is a physicist whose current interests are to integrate geological and geophysical data and to find new ways to interpret potential field data. He holds a BSc from UNAM, Mexico and a PhD from Macquarie University, Australia.

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Tongjun Chen is a professor at China University of Mining and Technology. Tongjun obtained his PhD in geophysics from China University of Mining and Technology. His research interests include lithological seismic characterisation of coal-beds, stress field prediction of mining zones and in-mine seismic surveys.

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Asbjorn Norlund Christensen is the owner of Nordic Geoscience Pty. Ltd., consulting world-wide on ground and airborne geophysics. He has worked on minerals and petroleum exploration projects in Australia, Asia, Africa and the Americas, and has managed research teams and technology companies. Asbjorn is based in Melbourne, Australia.

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Anders Vest Christiansen is an Associate Professor at Aarhus University, Denmark and he has been working with various aspects of inversion and specially integration of geological and hydrological information directly in the inversion schemes.

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David Clark has a B.Sc. (Hons) in physics, a MSc in geophysics, and a PhD in Earth and Planetary Sciences. He has worked for CSIRO since 1978 on applications of rock magnetism to exploration, potential field processing and interpretation methods, palaeomagnetism, magnetic tensor gradiometry, and predictive geophysical exploration models.

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Jennifer Clifford graduated from the University of Adelaide in 1998 with a Bachelor of Science (Hons) in Geophysics. She joined Santos in 1999 and has experience across a number of basins, such as the Cooper-Eromanga, Otway-Sorell and

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Roger Clifton now with NTGS, Roger started off in Physics, then joined the Nickel Rush. He ran two materials science labs, then completed a hydrocarbon exploration diploma, and a Masters in processing for Radon. A PhD has been taking forever.

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Magdel Combrinck studied Exploration Geophysics at the University of Pretoria, culminating in a PhD on the modelling of Time Domain electromagnetic data. She has been involved in groundwater exploration, mineral exploration (zinc, copper, platinum and gold) and engineering geophysics since 1996.

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Dennis Cooke is owner of ZDAC Geophysical Technologies, which offers seismic reservoir characterisation services. He also holds an adjunct position at the University of Adelaide. His past positions include managing the GeoFrac Research Consortium at UoA and Chief Geophysicist at Santos. He has served in executive positions at the SEG and ASEG.

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Anthony Coote is an economic petrologist/geologist consulting to the mineral exploration industry with expertise in the following mineral systems: epithermal precious and base metals, skarn/porphyry copper-gold, orogenic/intrusion-related gold & base metals, IOCG deposits and orthomagmatic nickel-copper.

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Alexander Costall is a post-graduate PhD student at Curtin University, Department of Exploration Geophysics, studying the use of deep sounding electrical methods applied to groundwater and fault systems.

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Ross Costelloe has worked at Geoscience Australia since 2005 in deep crustal seismic studies. He has extensive experience in geophysical data acquisition, processing and interpretation in Australia, Indonesia, Turkey, India and Botswana. He has a BSc in Applied Mathematics from Sydney University, and an MSc in Earth Physics from ANU.

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Marina Costelloe obtained a BSc and a Grad. Dip. Sci. in Geology and Geophysics from the University of Sydney (1992) and completed a MSc from James Cook University in 2004. Marina has been with Geoscience Australia for nine years and currently is Section Leader in the Geophysical Networks.

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Craig Covich is a qualified Geotechnical Engineer and Geophysicist. He is currently serving as the Director of Environment & Planning for Mosman Council and studying business and administration law.

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Dylan Cremasco graduated with Honours in geophysics from the University of Adelaide in 2013. He has worked for two years as a graduate geophysicist at Santos. He began his career

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Jane Cunneen joined Curtin University in 2014 as a Research Fellow in the Department of Applied Geology. Prior to that she worked in both the petroleum and minerals exploration industries, and also spent seven years with UNESCO. Jane received her PhD in geology from the University of Western Australia in 2005.

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Karol Czarnota holds a BSc from UNSW, MSc from RHUL and a PhD in geology and geophysics from the University of Cambridge. Karol has worked at Geoscience Australia for over a decade and now leads the Mineral Potential Section, focused on: cover-thickness mapping, lithospheric architecture, geodynamics and mineral potential products.

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Manon Dalaison is an Honours student in Geophysics at the ANU with a background in Geology, Mathematics and Physics. He finds the dynamics of surface, subsurface and deep mantle flows and their modelling really interesting.

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Mike Dentith is Prof of Geophysics at the University of Western Australia. He completed his PhD at Monash University and Universite Paul Sabatier in October 2013 after joining the Centre for Exploration Targeting at the University of Western Australia in January 2013. He researches geophysical signatures of mineral deposits and assessment of prospectivity at the terrain scale using geophysical datasets. He combines structural geology and geophysical interpretation to gain a better understanding of the link between tectonic evolution, crustal architecture and mineral systems.

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Domenico Di Massa is a PhD student studying Applied Geophysics at the University of Naples Federico II. He graduated with a BSc in Geology and then a MSc in Applied Geophysics. His research project is focused on integration of airborne EM and aeromagnetic data with the objective to extract detailed information from different datasets.

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Eugene Druker is a Geophysicist; Software Developer & Analyst. He has many years of diversified experience with airborne and ground geophysical prospecting methods, mostly

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

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Jarrold Dunne is the Group Geophysical Specialist at Karoon in Melbourne. Prior experience with Shell and Woodside contributed to his special interest in seismic amplitude interpretation and its role in exploration and development. In 1996 he completed a Ph.D at Melbourne University focusing on seismic processing of deep seismic data from the Gippsland Basin. More recently his interests have broadened into rock physics, seismic interpretation and portfolio management. He is a member of ASEG, PESA and SEG.

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Aleksandar Dzunic spent most of his career in the oil and gas industry doing seismic processing, developing seismic software, depth imaging and velocity model building. The past 10 years he has worked at Curtin University, Department of Exploration Geophysics as a lecturer/researcher.

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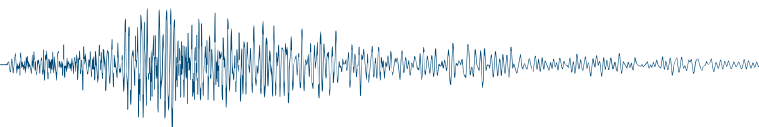
Chris Elders graduated from Oxford University, with a BSc and a PhD in Geology. He worked for four years as an exploration geologist for Shell, then 20 years at Royal Holloway, primarily running the internationally renowned MSc in Petroleum Geoscience and with the Fault Dynamics and SE Asia Research Groups. In 2013 he moved to Curtin University to take up the Chevron Professorship in Petroleum Geology where he has revitalised the MSc programme and established a vibrant research group.

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Irina Emelyanova is a Senior Research Scientist in CSIRO Energy Flagship, specialising in data-driven solutions for time series prediction, spatiotemporal data modelling, data fusion and



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Adrian Fabris graduated from the University of Adelaide with Honours in 2000. Since joining the Geological Survey of South Australia he has worked on projects related to regolith geoscience and exploration geochemistry throughout South Australia and on commodities such as heavy mineral sands, uranium, base metals and iron-oxide-copper-gold deposits. More recently, he has focused on recognising footprints of IOCG deposits in the Olympic Cu-Au Province of South Australia.

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Mohsen Farrokhrouz graduated in Petroleum Well Engineering from Curtin University 2007. M. Farrokhrouz has worked as a field petroleum production Engineer in Iran since 2008, specialising in wave propagation in rocks and teaching as a tutor. He has more than 50 journal and conference papers and supervised a large number of MSc thesis. He recently entered the Australian School of Petroleum in Adelaide University.

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Dominic Fell is a Depth Imaging Area Geophysicist for WesternGeco based in Perth, Australia. Dominic joined WesternGeco in 1996 and has experience in a wide range of imaging projects from across the world, with a particular focus in recent years on offshore Australia and New Zealand.

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Claire Fitzpatrick was appointed Managing Director for BP's Exploration and Production interests in Australia in September 2014. Claire is a Director of the Board of North West Shelf Gas Pty Ltd, the gas marketing agency for the venture. In addition, she is a Board Director of the Australian Petroleum Production and Exploration Association (APPEA) and Chairperson of the APPEA Executive Committee.

Chris Folkes has a PhD in physical volcanology, geochemistry and geochronology from Monash University. He is currently working at Geoscience Australia as a Regional Geologist interpreting and integrating various geophysical and geological datasets for the Southern Thomson Project as part of the UNCOVER Initiative.

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Clive Foss is leader of the CSIRO Mineral Resources Magnetism and Gravity team, based in Sydney, where he has worked for 7 years. Before that Clive was principal consultant with Encom Technology for 14 years. Clive has also worked as senior geophysicist on the Indonesian-Australian Geological Mapping Program, and as lecturer in Exploration Geophysics at the University of Malaya. Clive has a PhD from Leeds University.

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Peter Fullagar holds a Ph.D. in geophysics from UBC. He has over 30 years' experience in exploration and mining geophysics. During the past 18 years he has consulted privately, and has developed geophysical modelling and inversion software. Peter is a member of ASEG, SEG and KEGS.

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James Gaiser received an MS (1977) in geophysics from the University of Utah and PhD (1989) in geophysics from the University of Texas at Dallas. He is currently a senior scientist with Geokinetics Inc. where his research activities are 3D imaging and velocity model building in anisotropic media, noise attenuation, and converted waves.

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Luis Gallardo is a titular researcher and a National Scientist from Mexico. He obtained a PhD from Lancaster University and held the Goodeve Lectureship at The University of Western Australia from 2009 to 2011. His research focuses on geophysical inverse theory and the joint inversion of gravity, electromagnetic and seismic data. He has worked on geophysical imaging for mineral and petroleum exploration in Western Australia, Western Turkey, Southeast Brazil and Africa.

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Konstantin Galybin has ten years' experience in oil and gas industry. He is a senior geophysicist and borehole seismic team leader for Schlumberger Australia. His main interests are: seismic anisotropy, interbed multiple analysis and VSP inversion. Konstantin has earned his BSc (Hons) and PhD from the University of Western Australia.

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Jeremie Giraud. After he obtained his MSc. Eng. (geophysics) he worked for Schlumberger for about three years. Jeremie has been a PhD student at the Centre for Exploration Targeting (UWA, Perth) since April 2015. His project is focused on the integration of geological modelling in geophysical joint inversion to quantify uncertainty.

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Alexey Goncharov is a Principal scientist at Geoscience Australia, specialising in refraction seismic and deep crustal studies. Since 2013 he has led the establishment of the Australian National Fleet of Ocean Bottom Seismographs.

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James Goodwin is a Geophysicist at Geoscience Australia with experience in geophysical acquisition, data processing and 3D geological and geophysical modelling. James is currently applying his skills to the greenfields southern Thomson Orogen in order to assess the mineral prospectivity of the region.

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Jarrad Grahame graduated in 2009 with a Bachelor's Degree in Exploration Geophysics from Curtin University, in Western Australia. Since graduating Jarrad has worked extensively on Asia-Pacific Basins, the North-West Shelf of Western Australia being a major focus. He joined CGG Multi-Client & New Ventures, based in West Perth, in January 2013 in his role as Geoscientist.

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Amanda Hanani is a Junior Geologist currently working for Oil Search in their Operations and Drilling Department. She completed her Bachelor of Science majoring in Geology gaining a first class honours degree and the Laric V Hawkins Prize for geophysics for her thesis on the Juha Gas field completed in 2012. Amanda has worked for Oil Search since graduating and has been involved in projects in Yemen, Kurdistan and Papua New Guinea. In her spare time, Amanda is secretary for PESA NSW.

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Mike Hartley has worked as a processing geophysicist in Australia for over 25 years. He has extensive marine processing experience within many shallow and deep water offshore environments. He is currently working in the seismic imaging division of CGG, having joined the company as a senior geophysicist in 2011.

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Phil Hawke completed his undergraduate studies at the University of Adelaide in 1993 and a PhD at the University of Western Australia in 2005. Over his career he has worked as a Company geophysicist, independent consultant and in academia. He is currently Chief Geophysicist for the Wireline Services Group.

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Rosemary Hegarty has worked in government, consultancy, and mineral exploration over a 30 year period within Australia. She has been with the Geological Survey of New South Wales for 10 years as a Senior Geoscientist, working on geophysical interpretation projects, particularly those in the far west of NSW such as the southern Thomson Orogen collaborative studies.

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Graham Heinson has over 20 years of experience using MT. His group has run the national AuScope MT facility for the last five years, and is involved in a wide range of research activities, including the national MT mapping program AusLAMP, and 4D monitoring of fluids for hydrocarbon and geothermal energy development.

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Robert Hewson graduated in geophysics BSc(Hons) at the University of Melbourne in 1981 and worked within Shell until 1989. He completed an MSc, followed by a PhD. Following working as a research scientist at CSIRO from 1998 to 2010, he currently consults, researches and lectures at RMIT University.

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Duncan Hinton graduated from the University of Queensland with a Bachelor of Science majoring in Earth Sciences. He joined Weatherford in 2004 as an engineer and has been there since. Duncan has worked on Iron Ore, Coal, Oil and Gas reserves and has worked throughout Australia, New Zealand, Mongolia and Romania.

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Emma Hissey started her career as an underground gold mine geologist, before exploring the Mongolian Gobi Desert for copper. Transferring into the oil and gas industry in 2009, she has held various roles at Santos and is currently working as an exploration geologist in the Northern Territory Onshore Exploration Team.

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Darren Hunt is a geophysicist at Teck Australia, currently working primarily on Zinc exploration projects in the Carpentaria region of QLD/NT. Graduating from Curtin University with an Honours degree in Geophysics (BSc), he worked in geophysical acquisition and processing roles for 10 years before upgrading his geological skills with an MSc in Economic Geology from UWA. He now enjoys being part of multi-disciplinary exploration teams working to integrate geophysical results with geology.

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Hangilro Jang is a post-doctoral researcher at Sejong University, Korea. His research interests are interpretation and processing of electromagnetic field data.

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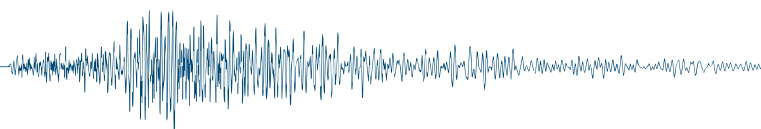
Yupeng Jiang his research areas mainly focus on rock mechanics, fracture mechanics and microseismic methods. He is a PhD Student at State Key Laboratory of Geohazard Prevention and Geoenvironment Protection, Chengdu University of Technology.

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Laszlo Katona is the Principal GIS Geoscientist with the Geological Survey of South Australia, which he joined in 2006. He is part of the Geophysics and Prospectivity Team, who deliver pre-competitive geophysical and geological data supporting mineral exploration in South Australia. His focus is on applying spatial analysis and GIS to exploration challenges in South Australia.

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Tristan Kemp is a Section Leader at Geoscience Australia where he coordinates precompetitive geophysical data acquisition and processing on behalf of the Federal Government and State and Territory Geological Surveys. His current area of



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M. Javad Khoshnavaz has got a BSc degree in physics and an MSc degree in geophysics from Iran. He is currently a PhD candidate at the Department of Exploration Geophysics at Curtin University, Western Australia. His area of research includes microseismic imaging, seismic imaging, seismic anisotropy and diffraction imaging.

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Andrew King has a PhD in electromagnetic methods from Macquarie University, but has been working in mine seismology for geotechnical applications for 15 years. He is currently at CSIRO in Perth, working in microseismics and in electromagnetics.

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Rob Kirk is a consultant living in Tasmania specialising in seismic and sequence stratigraphy. He uses Kingdom to construct seismic facies and palaeogeography maps from 2D and 3D seismic and well data. He has previously worked for Woodside, BHP and Occidental and regularly gives a 1 week applied seismic and well sequence stratigraphy school.

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Alison Kirkby completed her MSc at the University of Auckland before joining Geoscience Australia in 2008. She worked in the geothermal section at GA, before starting a PhD at the University of Adelaide. Her research is looking at the application of the magnetotelluric method to exploration for fracture permeability.

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Irena Kivior obtained a Eng/MSc degree from the Academy of Mines and Metallurgy in Krakow, Poland, and a PhD in Geophysics at the University of Adelaide in 1996. She worked for mineral exploration companies and in the coal industry after migrating to Australia. After her PhD and post-doctorate studies, she established Archimedes Consulting where she is Director and Principal Geophysicist. Irena is a member of the AAPG, SEG and EAGE.

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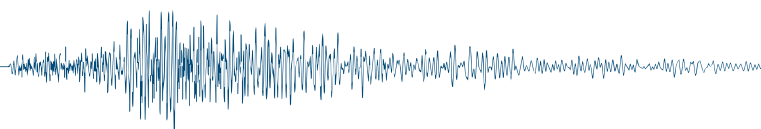
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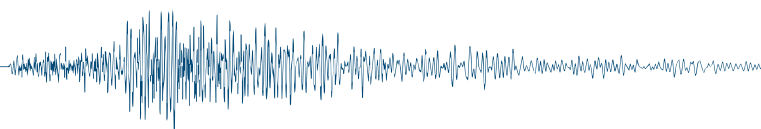
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