



**3rd Australasian Exploration Geoscience Conference**  
**17 - 19 September 2021**  
**Brisbane Convention & Exhibition Centre**

Program is current as of 9 July 2021 and is subject to change

Friday, 17 September 2021						
	Great Hall - Q4	M2	M3	P1	P2	M4
08:30	<i>Opening Plenary Session</i>					
	Welcome to Country					
08:40	Opening Address					
08:55	<b>Keynote Speaker sponsored by Geoscience Australia</b> Dr Andrew Heap					
09:20	<b>Keynote Speaker</b> The role of the geoscientist in our sustainable future <b>Dr Marita Bradshaw</b>					
10:10	<b>Morning Tea Break</b>					
	<i>Keynote Speaker &amp; Awards</i>	<i>Geophysics - Electrical and EM Method I</i>	<i>Geoscience - Deep Crustal Studies</i>	<i>Geoscience - Hydrogeology and Groundwater I</i>	<i>Geoscience - Archean and Proterozoic Terranes</i>	
10:40	<b>Keynote Speaker</b> The role of mine waste in the fight against climate change <b>Dr Anita Parbhakar-Fox</b>	261: Inversion of Airborne IP data with a multi-mesh approach for parameter definition <b>A/Prof Gianluca Fiandaca</b>	256: Next-generation velocity model of the Australian crust from synchronous and asynchronous ambient noise imaging <b>Dr Yunfeng Chen</b>	191: An integrated hydrogeophysical and hydrogeological approach, to underpin the long-term water security of a remote tropical island <b>Mr Andrew Taylor</b>	241: Improved structural and stratigraphic correlations across the northern Aileron and southwest Davenport provinces from the interpretation of new and legacy geophysical data <b>Dr Teagan Blaikie</b>	
11:05		206: Towards standard technical Deeds for (airborne) geophysical surveys in Australia <b>Dr Yvette Poudjom Djomani</b>	230: Deciphering the building blocks of the eastern North Australia Craton <b>Dr Karen Connors</b>	245: Comparative Hydrogeological Characterisation of the Springbok and Precipice Sandstones <b>Dr Oliver Gaede</b>	20: Rock property and depth mapping from magnetic data applied to greenfields exploration targeting in the Cloncurry District <b>Dr David Pratt</b>	
11:30	ASEG Honours and Awards Ceremony	174: Ground Penetrating Radar investigation as part of a multidisciplinary archaeological project, The Plain of Jars, Lao PDR. <b>Mr Jamie Speer</b>	215: The resistivity structure of the Gidyea Suture and its relationship to the Carpentaria Conductivity Anomaly <b>Dr Janelle Simpson</b>	178: Modelling the impact of fault damage zones on fluid flow localisation <b>Dr Thomas Poulet</b>	267: Transpressional deformation and structural inheritance in the central and eastern Mount Isa Inlier; Insights from next-generation precompetitive aerial geophysics <b>Dr Derek Hoy</b>	
11:55		210: AusAEM extending towards a national coverage of airborne electromagnetic data. <b>Dr A. Yusen Ley-Cooper</b>	57: Magnetotelluric evidence for the multi-microcontinental composition of eastern South China <b>Dr Zhang Kun</b>	224: Predicting fluid pathways in large discontinuity systems using graph theory <b>Dr Ulrich Kelka</b>	164: Australian Proterozoic Thermal Aureole Gold Mineral Systems: the Critical Role of High Crustal Geothermal Gradients and the Insights of Vic Wall <b>Prof Lesley Wyborn</b>	
12:20	<b>Lunch Break</b>					

**High School Student Day**  
(9:30 - 14:30)

13:20 - 13:40	<b>POSTER PRESENTATION</b>					<b>High School Student Day</b> (9:30 - 14:30)
	<i>Keynote Speaker 3 &amp; Geophysics: Seismic Acquisition I</i>	<i>Geophysics - Electrical and EM Method II</i>	<i>Geoscience - Undercover Exploration I/Geophysics - 3D Seismic for Mineral Exploration I</i>	<i>Minerals Geoscience I</i>	<i>Geoscience - New Economy Minerals</i>	
13:40	<b>Keynote Speaker</b> 20 years of seismic acquisition – a semi-autobiographical review, and predictions for the future <b>Dr Tim Dean</b>	254: Closing the gap between ground and airborne IP data modelling <b>Dr Andrea Vlezzioli</b>	258: Lithospheric-scale magnetotellurics over the Eastern Goldfields Superterrane, Yilgarn Craton <b>Dr Kate Selway</b>	34: Exploring for gold using radiometrics, magnetics and petrophysical information in the Warrawoona greenstones of the east Pilbara, Western Australia. <b>Mrs Yvonne Wallace</b>	266: Geochemical signatures and critical metal contents of key deposit types in the Mount Isa Province, Queensland, Australia <b>Dr Vladimir Lisitsin</b>	
14:05		220: Gaining value from historical AEM data <b>Mr Shane Mulè</b>	123: The role of geophysics in the discovery of the Gonneville PGE-Ni-Cu-Co-Au Deposit, Julimar, Western Australia. <b>Mr Jacob Paggi</b>	101: Mantle to Mine: An integrated Machine Learning, Minerals Systems and Geomechanical Approach to Copper and Gold Exploration <b>Dr John Mclellan</b>	195: Halloysite NanoTubes – The New Economy Mineral to Ensure Every Organisation Achieves Net Zero Carbon Emissions <b>Dr Antonio Belperio</b>	
14:30						
14:30	65: Optimizing Land Seismic Acquisition for Modern Noise Suppression in Processing <b>Mr Graeme Eastwood</b>	279: Using modern downhole EM to discover high-grade, narrow vein lodes in an historical gold field, Bellevue Gold Project, Western Australia <b>Ms Anne Tomlinson</b>	182: Robust 3D models of geochemical and petrophysical properties from combining borehole and seismic reflection data: A case study from the Tropicana Gold Mine <b>Dr Anton Kepic</b>	98: Geophysical response of alteration and mineralisation at the Cadia Au-Cu porphyry system, NSW, Australia <b>Mr Terry Hoschke</b>	234: An inventory of peralkaline rocks in Queensland for evaluation of REE enrichment potential <b>Mr David Purdy</b>	
14:55	112: The evaluation of alternatives to pre-acquisition positioning for land seismic surveys <b>Mr Matt Grant</b>	55: Radio Image Mapping at the Polymetallic Rosebery Mine in North-Western Tasmania <b>Dr Asbjorn Christensen</b>	150: Yaouré Seismic Survey: Defining a Complex 3D Structural Framework with High Resolution Seismic Data <b>Dr Greg Turner</b>			
15:00						
15:20	<b>Afternoon Tea Break</b>					
	<i>Geophysics - Seismic Processing and Interpretation I</i>	<i>Geophysics - MT</i>	<i>Machine Learning I</i>	<i>Data Visualisation and Integration</i>	<i>Geoscience - Hydrogeology and Groundwater II</i>	
15:50	35: Case study from NW Carnarvon using WEB-AVO inversion to map low saturation gas and unravel geology using “noisy” seismic. <b>Mr John Coffin</b>	132: Multi-scale magnetotelluric surveys – mapping from the lithosphere to the near surface for mineral systems <b>Dr Wenping Jiang</b>	183: Seismic inversion by hybrid machine learning <b>Dr Yuqing Chen</b>	223: Cost-effective Serverless Cloud Systems for Geoscience Applications <b>Mr Samuel Bradley</b>	22: Groundwater and gas sampling informing hydrogeological conceptualisation of the Precipice and Hutton Sandstone aquifers of the southern Surat Basin <b>Dr Julie Pearce</b>	
16:15	38: INTEGRATED MODELLING OF SEISMIC VELOCITIES AND IMPACT ON PROSPECT EVALUATION <b>Dr Jarrod Dunne</b>	216: Continental shelf marine MT feasibility study in the Spencer Gulf, South Australia <b>Dr Kate Robertson</b>	85: Digitalizing the Mining Industry - Core scanner for geochemistry, images, RQD, structures, specific gravity and volume bulk density <b>Mr August Tod</b>	116: Seismic network modelling and design in an interactive web-based environment <b>Dr Pavel Golodoniuc</b>	269: Complex recharge mechanisms creating contradictory tracer signals in a large karst aquifer in northern Australia elucidated by a multi-tracer study. <b>Dr Axel Suckow</b>	
16:40	141: Seismic velocity analysis in the presence of AVO polarity reversals by fuzzy c-mean clustering <b>Dr Javad Khoshnavaz</b>	168: Nonlinear, 2D uncertainty estimation in Magnetotelluric inversion using trans-dimensional Gaussian processes <b>Dr Anandaroop Ray</b>	14: Almost automatic geological mapping from AEM surveys <b>Dr David Annetts</b>	78: Vertically integrated geoscientific data at the Geological Survey of New South Wales <b>Dr Ned Stolz</b>	281: Constraining regional-scale groundwater transport predictions using multiple geophysical techniques <b>Dr Michael Hatch</b>	
17:05	<b>Happy Hour in Exhibition Hall</b>					



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Saturday, 18 September 2021						
	Great Hall - Q4	M3	M4	P1	P2	M2
	<i>Keynote Presentation</i>	<i>Geophysics - Coal Geophysics</i>	<i>Geoscience - Mineral Systems</i>	<i>Geophysics - Engineering Geophysics</i>	<i>Sustainability - Footprint Mitigation Techniques and Practices</i>	<i>Structural Geoscience</i>
08:30	<b>Keynote Speaker</b> The Future of Geoscience Education <b>Dr Richard Lilly</b>	82: Overburden measurement for coal mine management with 3D high resolution compressional and shear velocity seismic inversion <b>Mr Martin Bavly</b>	118: Structural controls on late Cambrian mineralisation in the Stavelly Arc <b>Dr Robert Holm</b>	42: MASW and Microgravity – a novel approach to investigating Karstic features in a large Tailings Storage Facility. <b>Mr Aaron Tomkins</b>	7: Case Studies from Loupe – New Technology in Portable TEM for Near-Surface Measurements <b>Mr Gregory Street</b>	134: Overprinting of remanence in Paleozoic rocks of the Lachlan Orogen in southeast Australia. <b>Mr Umer Habib</b>
08:55		3: Mapping coal seam roof and floor by using in-seam borehole radar: Results from numerical modelling <b>Dr Binzhong Zhou</b>	207: The Delamerian Orogen- An overview of the resistivity structure across scales <b>Dr Kate Robertson</b>	121: 3D Bedrock Model Utilising Multi-channel Analysis of Surface Waves to Assist the Land Development Industry in Greater Melbourne, VIC. <b>Mr Tavis Lavell</b>	6: Project Generation for miners in a 'Sustainable World' <b>Mr Bruce Hooper</b>	59: How do detachment properties influence the kinematics of normal growth faults? Insights from 3D seismic reflection data from the Ceduna sub-basin <b>Mrs Monica Jimenez</b>
09:20	<b>Keynote Speaker</b> The role of geoscience and engineering professionals in successful resource development <b>Prof Sue Golding</b>	211: Maximising the value of high-definition 3D coal seismic data <b>Mrs Margarita Pavlova</b>	51: Look insight into the extensive Fe-Cu (Au) Mineral System through the integrated Geophysical approaches <b>Prof Qingtian Lu</b>	91: Australian geomagnetic observatory network monitors space weather hazard – 180 years on <b>Dr Lilejun Wang</b>	159: Australia's Energy Transition to 2050 <b>Mr Matthew Quinn</b>	
				188: Designing a Magnetic Resonance Logging- While-Drilling Tool for Reverse Circulation Minerals Exploration <b>Dr Keelan O'Neill</b>	129: Hydrogen versus sales gas <b>Mr Max Williamson</b>	
10:10	<b>Morning Tea Break</b>					
	<i>Panel Discussion</i>	<i>Geophysics - Mining Geophysics</i>	<i>Geoscience - Petroleum Geoscience I</i>	<i>Geophysics - Inversion I</i>	<i>Geoscience - IOCG Deposits</i>	<i>Geoscience - Borehole geophysics and petrophysics</i>
10:40	Diversity in Geoscience Panel Discussion sponsored by Geoscience Australia	95: Transformative geophysics: Alternatives to the reduction-to-pole transformation of magnetic data <b>Prof Richard Smith</b>	229: Diagenetic controls on the reservoir quality of organic-rich shales of the Mesoproterozoic Velkerri Formation (Beetaloo Basin) <b>Dr Claudio Delle Piane</b>	148: Attenuation of ice-sheet reverberations in teleseismic P-wave receiver functions <b>Mr Dale Harpley</b>	109: Geophysical proxies for redox gradients in IOCG systems: Cloncurry District, Qld, Australia. <b>Dr James Austin</b>	126: Integration of high-resolution HyLogger spectral scanner and TESCAN Integrated Mineral Analyser for mineralogical characterisation of shale <b>Mr Muhammad Iqbal</b>
11:05		240: Application of neural networks and MCNP for automated analysis of scintillation gamma-ray spectra <b>Mr Anatolii Pakhomenko</b>	81: Towards a 3D model of the South-Nicholson Basin region, Northern Australia, for mineral, energy and groundwater assessment <b>Dr Nadege Rollet</b>	232: Datasets and Inversion Result Comparisons from the Menindee Airborne Electromagnetic Calibration Range <b>Dr Ross Brodie</b>	214: Magnetic characterisation of the Osborne IOCG deposit: magnetic fabrics, self-demagnetisation and remanence: Cloncurry District, QLD <b>Mr Andreas Bjork</b>	238: Estimate elastic moduli of arenites from micro-tomographic images with digital rock physics <b>Mr Jiabin Liang</b>
11:30		165: Laterite resource definition through geophysics <b>Dr Chris Wijns</b>	179: Permeability modelling using digital rock images from micron scale <b>Dr Lionel Esteban</b>	153: Why we should not report unconstrained inversion output in densities or magnetic susceptibilities <b>Dr Clive Foss</b>	88: New mineral system vectors for revitalised copper-gold discovery in the Gawler Craton <b>Mr John Anderson</b>	236: Practical aspects of wavefield decomposition for permanent seismic rotatory sources <b>Dr Sinem Yavuz</b>
11:55		113: AIP Effects in the airborne EM fixed wing systems: A Spectrem Theoretical Study <b>Dr Andrea Vezzoli</b>	114: Impacts of Minimum Horizontal Stress Uncertainty on Wellbore Stability <b>Mr Matthew Musolino</b>	163: Application of Facies Based Seismic Inversion in Developing Shallow Gas Fields in Cooper-Eromanga Basin <b>Mr Satyabrata Mishra</b>	250: Mapping IOCG alteration footprints in the Olympic Domain, South Australia – insights gained from combining geophysics with geochemistry <b>Dr Stephan Thiel</b>	296: Estimating elastic wave velocities, attenuation factors and their frequency dependency using ultrasonic waveform inversion <b>Prof Boris Gurevich</b>
12:20	<b>Lunch Break</b>					

13:20 - 13:40	POSTER PRESENTATION					
	Keynote Speaker 6 & Geophysics - Electrical and EM Methods III	Geophysics - Near Surface Environmental Geophysics I	Geoscience - Petroleum Geoscience II	Geophysics - Potential Fields I	Geoscience - Stratigraphy and Sedimentology	University Student & Early Career Afternoon
13:40	<b>Keynote Speaker</b> The Role of Geophysics in Supporting Sustainability <b>Ms Andrea Rutley</b>	217: The plumes of Maralinga: mapping nuclear fallout patterns more than 60 years after atomic bomb testing. <b>Dr Jane Cunneen</b>	264: Recognition of igneous rocks encountered in wells in the Carnarvon Basin: implications for drilling and petroleum systems. <b>Mr Michael Curtis</b>	41: UAV Magnetic Survey Planning, QAQC and Data Processing <b>Mr Brendan Ray</b>	87: Automated facies classification in borehole log data. <b>Dr Roman Beloborodov</b>	<b>Q&amp;A Industry Panel</b> <i>The interactive Q&amp;A-style panel will consist of a diverse range of geoscientists</i>
14:05		23: Detailed geophysical mapping and 3D geological modelling to support urban planning: A case study of Ny Rosborg, Denmark <b>Dr Theis Andersen</b>	29: New Age Dating of Evaporites in Canning Basin, WA, Australia. A Case Study based on samples from the Frome Rocks Salt Diapir <b>Miss Fiona McNee</b>	117: A beautiful sunset (clause): enhancing statewide geophysics with high resolution company data <b>Dr Sam Matthews</b>	100: A regional marker tool for the Walloon Coal Measures (Surat Basin) using detrital zircon U-Pb geochronology <b>Dr Pascal Asmusen</b>	
14:30	79: Results from the largest Airborne Electromagnetic (AEM) survey ever flown in NSW <b>Miss Astrid Carlton</b>	193: Full waveform refraction imaging of the regolith <b>Dr Derecke Palmer</b>	86: Quantifying uplift using compaction methods; A case study from the Exmouth Plateau, Northern Carnarvon Basin <b>Mr Patrick Makuluni</b>	146: CRC-P57322 High-resolution Real-time Airborne Gravimetry <b>Dr Andrew Gabell</b>	219: Controls on shelf-margin architecture and deep-water sand delivery in contrasted tectonic settings: Insights from quantitative 3D seismic stratigraphy <b>Dr Victorien Paumard</b>	
14:40						<b>Afternoon Tea Break</b>
14:55	246: Subsurface characterization using full waveform inversion of vertical seismic profile data: Example from the Curtin GeoLab well <b>Ms Sana Zulic</b>	111: Environmental Site Assessment at a Mining Operation in Western Australia Using the Loupe TEM Profiling System <b>Dr Remke Van Dam</b>	158: Stratigraphic drilling in the era of EFTF: The Barnicardny 1 and NDI Carrara 1 wells <b>Dr Adam Bailey</b>	243: Enhancing interpretation of geophysical models using petrophysical logging <b>Dr Cericia Martinez</b>		
15:00						
15:20	<b>Afternoon Tea Break</b>					
15:50	Geophysics - Electrical and EM Method IV	Geophysics - Passive seismic and Microseismic I	Geoscience - Petroleum Geoscience III	Geophysics - Potential Fields II	Geoscience - Magmatic/ Arc Terrances	<b>The GeoPitch</b> <i>A fast-paced 3-minute presentation competition by students and Early Career Geoscientists. All conference delegates are welcome to attend</i>
15:50	136: Using the NCI Gadi Supercomputer to revolutionise processing of MT time series data: results from the GeoDeVL experiment <b>Prof Lesley Wyborn</b>	99: The Role of Passive Seismic Imaging in Near-Mine Exploration <b>Dr Gerrit Olivier</b>	31: Controls on organic matter accumulation in the Mesoproterozoic: Insights from the stratigraphic modelling of the Velkerri Formation of the Beetaloo Basin (Northern Territory, Australia) <b>Dr Vincent Crombez</b>	226: A new era for the Australian National Gravity Grids - adding airborne data to the mix <b>Dr Yvette Poudjom Djomani</b>	92: Assessment of magmatic fertility using pXRF on altered rocks from the Ordovician Macquarie Arc, New South Wales <b>Mr Tristan Wells</b>	
16:15	235: How deep does ground EM see? <b>Dr Andrew Fitzpatrick</b>	184: AusArray: uncovering major crustal features using passive seismic data <b>Dr Alexei Gorbatov</b>	32: Petroleum systems model for source- rock-reservoir evaluation in the Beetaloo Sub-basin <b>Dr Moinudeen Faiz</b>	80: The North Australian Craton 3D Gravity and Magnetic Inversion Models - A trial for first pass modelling of the entire continent <b>Dr James Goodwin</b>	160: Multidisciplinary investigations into the basement to the western Murray Basin, South Australia <b>Mr Tom Wise</b>	
16:30						<b>In-room networking drinks &amp; awards presentation</b> (ends at 17:30)
16:40	66: Interpretation of magnetotelluric and airborne electromagnetic inversions from the Proterozoic basins of the Capricorn Orogen, WA <b>Dr Sasha Banaszczuk</b>	227: Analysis of teleseismic earthquakes on nodal seismic surveys. <b>Dr Steve Hearn</b>	96: Isotopic fingerprinting hydrogen sulphide (H <sub>2</sub> S) gas origins in unconventional reservoirs: the mitigation of environmental contamination in gas production. <b>Dr Gareth Chalmers</b>	247: Magnetic inversion constrained by probabilistic magnetotellurics models: methodology and application <b>Dr Jeremie Giraud</b>		
17:05 - 18:05	<b>Happy Hour in Exhibition Hall</b>					
18:30 - 22:00	<b>AEGC 2021 Conference Dinner</b> <b>Queensland Museum</b>					



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Sunday, 19 September 2021

	Great Hall - Q4	M2	M3	M4	P1	P2
	<b>Keynote Presentations</b>	<b>Geoscience - Mineral Exploration II</b>	<b>Geoscience - Petroleum Exploration II</b>	<b>Machine Learning II</b>	<b>Geophysics - Passive seismic and microseismic II</b>	
08:30	<b>Keynote Speaker</b> Mineral systems and data integration as part of the foundation for the future of mineral exploration <b>Dr Sandra Occhipinti</b>	144: The Winu Cu-Au-Ag deposit in the Great Sandy Desert of Western Australia <b>Dr Hilke Dalstra</b>	27: Hidden in Plain Sight: The Bamaga Basin <b>Mr Wolfgang Fischer</b>	60: Application of Machine Learning Techniques for Remote Identification of Geology using Potential Fields and Geological Data <b>Mr Matthew Zengerer</b>	26: Passive Microseismic – Direct Hydrocarbon sensing with minimal environmental impact <b>Miss Helen Debenham</b>	
08:55		228: Lithospheric resistivity structures and mineral prospectivity from AusLAMP data in northern Australia <b>Mr Jingming Daun</b>	133: Compositional control on frictional properties of Goldwyer shale reservoir rocks <b>Mr Partha Pratim Mandal</b>	108: Automated fracture detection and characterization from unwrapped drill-core images using Mask R-CNN <b>Miss Fatimah Al-Zubaidi</b>	44: Earthquake monitoring in the Southwest Seismic Zone, Western Australia <b>Dr Ruth Murdie</b>	
09:20	Sponsored Keynote Speaker	46: Mineral and Geochemistry characterisation of the regolith profile overlying the Mt Keith Nickel Deposit. Undercover exploration Implications. <b>Dr Naomi Potter</b>	151: Petroleum Source Rocks, Generation and Primary Migration: revolutionary insights using new nano-scale non-destructive ToF-Sims SEM analysis. <b>Prof Gregory Smith</b>	125: Recognising the impact of uncertainty in resource models <b>Mr Steven Sullivan</b>	186: The feasibility of using ambient noise surface wave tomography for mineral exploration <b>Dr Philippe Dales</b>	
		205: Geology of the shear zone hosted Dugald River Zn-Pb-Ag deposit, Mt Isa Inlier, NW QLD <b>Mr Corey Jago</b>	120: Exploring links between thermal maturity and electrical properties of organic-rich shales <b>Dr Claudio Delle Piane</b>		255: Laboratory study of temperature variation effects on Distributed Acoustic Sensing measurements. <b>Mr Evgenii Sidenko</b>	
10:10	<b>Morning Tea Break</b>					
10:40	<b>Geophysics - Seismic Acquisition II</b>	<b>Petroleum Geoscience III</b>	<b>Geophysics - Inversion II</b>	<b>Machine Learning III</b>	<b>Geophysics - Potential Field and Topographic Effects</b>	<b>Symposium</b>
10:40	37: Onshore seismic acquisition: out with the old, in with the new <b>Mr Denis Sweeney</b>	167: Northern Lawn Hill Platform – modelling the 'great-grandparent' emerging region <b>Ms Tehani Palu</b>	260: Inversion-based automatic processing of AEM data <b>A/Prof Gianluca Flandaca</b>	10: Inferring geological features masked by artefacts in core photography using neural networks <b>Dr Yasin Dagasari</b>	104: Handling topographic effects in magnetic data: A case study from the Ecuadorian Andes of South America <b>Mr Regis Neroni</b>	<b>Mineral vein symposium track 3)</b> An overview of the discovery and geology of the HYC deposit, NT <b>Ross Logan</b>
11:05	72: 3D Modelling & Synthesis of Geophysical Data in Nash Creek, New Brunswick, Canada. <b>Mr Alexander Furlan</b>	221: The transformation of Australia's first commercial CSG field into a major gas project: How innovation and subsurface understanding have driven success <b>Dr Mike Martin, Mr Justin Gorton</b>	152: How many layers? A Bayesian Occam's Razor <b>Mr Andrew King</b>	90: Evolving Our Understanding of Fault Geometries Through the Application Of Advanced AI Techniques <b>Mr Jacob Smith</b>	208: Structural characteristics of the Kalkarindji basalts in the Beetaloo Basin, NT from aeromagnetic and gravity gradiometry data <b>Dr Clive Foss</b>	Vein system analysis in exploration and mining <b>Brett Davis</b>
11:30	244: Curtin In-Situ GeoLab – advancing geophysical sensing <b>Dr Konstantin Tertyshnikov</b>	11: Influence on the main factors on the quality of deep-water sediments. <b>Mr Anton Khitrenko</b>	89: Constraining gravity inversion with lower-dimensional seismic information: Imaging the eastern Yilgarn Craton <b>Miss Mahtab Rashidifard</b>	102: Knowledge-Guided Machine Learning for Komatiite-Hosted Nickel Prospectivity Mapping <b>Mr Minsu Kwon</b>	275: Analysis of topographic effects on AEM data <b>Dr Magdel Combrinck</b>	Fault and vein-hosted xenotime-HREE mineralisation at Wolverine and nearby deposits, Browns Range, WA <b>Nick Oliver</b>
11:55	103: An automated system for preventing hydraulic vibrator tip-over during land seismic surveys <b>Mr Richard Barnwell</b>	63: Data geo-Science Approach for Modelling Unconventional Petroleum Ecosystems and their Visual Analytics <b>Dr Shastri Nimmagadda</b>	203: 3-D Gravity Geometry Inversion of the Matheson Area, Abitibi greenstone belt: maintaining the contacts of one of the geological unit fixed for obtaining superior results <b>Mr Fabiano Della Justina</b>	272: Using Comment Field Entries in Drill Hole Database to automatically re-Log Lithologies; Application of Latent Semantic Analysis and Supervised Learning <b>Mr Jean-Phillipe Paiement</b>	197: Probabilistic modelling of groundwater salinity using borehole and AEM data <b>Mr Neil Symington</b>	An overview of the discovery, geology and regional controls of the Selwyn and Osborne Regions, Mount Isa, Qld <b>Mark McGeough</b>
12:20	<b>Lunch Break</b>					
						Mineral prospectivity 25 years on <b>Lesley Wyborn</b>
						Advances in structural understanding of the Mount Isa Eastern Succession from detailed magnetic and seismic

13:20 - 13:40 POSTER PRESENTATION						
13:40	Geophysics - Coal Geophysics II	Geoscience - Regional Province Studies/Geoscience - Hydrology and Groundwater III	Geophysics - Passive seismic and Microseismic III/ Seismic Processing	Sustainable Exploration	Petroleum Geoscience - Otway Basin	Symposium
13:40	107: A brief history of 3D seismic acquisition in BHP Coal and some predictions for the future <b>Dr Tim Dean</b>	24: Application of LiDAR for hydrocarbon exploration in logistically and geologically challenging environments: examples from the Papuan Fold and Thrust Belt, Papua New Guinea <b>Mr Luke Mahoney</b>	177: Simultaneous inversion of teleseismic P- and converted S-waves to constrain the seismic structure of the crust <b>Dr Mehdi Tork Qashqai</b>	40: Examples of integrating hyperspectral, geochemical and petrophysical drill core data using Australia's National Virtual Core Library infrastructure <b>Dr Carsten Laukamp</b>	138: Unravelling the Otway Basin - Part 1: Depth imaging <b>Mr Alex Karvelas</b>	<b>Hinman-Wall Symposium (Part 2)</b> The management and business of exploration <b>Dan Wood</b> Management of Modern Mineral Exploration - Legacy Lessons from Andrew White <b>Allan Trench</b> To be confirmed (speaker topic and name) The business of exploration - a fund manager's perspective <b>Karina Bader</b> Exploration management in 2021. Some ways the world is changing <b>Rick Valenta</b> To be confirmed (speaker topic and name)
14:05	135: Optimising 3D coal seismic imaging with pre-stack depth migration <b>Mr Alan Meulenbroek</b>	225: Possible Precambrian age impact structure near Three Springs, Western Australia? <b>Mr Grant Boxer</b>	122: Using passive seismology to inform mineral exploration in South Australia: the AusArray SA broadband seismic array <b>Dr John O'Donnell</b>	231: The Do-It-Yourself Geophysicist <b>Dr Anton Kepic</b>	139: Unravelling the Otway Basin - Part 2: Insights from new seismic interpretation <b>Mr Alex Karvelas</b>	
14:30	130: Optimising slip-sweep Vibroseis in high-production coal surveys <b>Dr Shaun Strong</b>	187: Calibrating BMR T2 Distribution logs to well test data <b>Dr Keelan O'Neill</b>	190: A new method for determining drill-bit signal emission time <b>Dr Zixing Qin</b>	149: Noble gases: a versatile exploration tool for water, minerals and hydrocarbons <b>Dr Axel Suckow</b>	140: Unravelling the Otway Basin - Part 3: Petroleum System Modelling <b>Dr Oliver Schenk</b>	
14:55	128: High density seismic finally accessible to all industries <b>Mr Amine Ourabah</b>	239: Targeting Fractured Rock Aquifers using Magnetic Data <b>Mrs Heather Ballantyne</b>	255: Laboratory study of temperature variation effects on Distributed Acoustic Sensing measurements. <b>Mr Evgenii Sidenko</b>	25: Critical Minerals and the New Energy Enterprise for Oil & Gas and Mining Companies- Why and How. <b>Mr Lindsay Ross</b>	270: Post-rift magmatism on the continental shelf of the Otway Basin and implications for the igneous plumbing style in sedimentary basins <b>Mr Yakufu Niyazi</b>	
15:20	<i>Afternoon tea break</i>					
15:35	<i>Closing Plenary</i>					
15:35	<b>Keynote Presentation</b> Geology for the future: geology = (numbers / algorithms) ± knowledge <b>Dr June Hill</b>					
16:25	Awards Presentation					
16:45	Announcement of AEGC 2023 and Farewell Comments					
17:00	<i>Farewell Drinks in Mezzanine Foyer</i>					