ASEG 2026

AUSTRALIAN SOCIETY OF EXPLORATION GEOPHYSICISTS

2ND ASEG DISCOVER SYMPOSIUM

26–30 OCTOBER 2026 Cairns, Far North Queensland

PRELIMINARY PROGRAM

Monday 26 October 2026		
1200-1500	Registration Desk Open Sponsors & Exhibitors bump-in	*Exhibition Foyer and Tully Room* *Pullman Cairns International*
1700–1900	**Welcome Reception** *Join us for the official Welcome Reception from 5:00–7:00 pm, featuring a Smoking Ceremony from 5:00–5:15 pm led by the Gimuy Walubara Yidinji Elders Aboriginal Corporation, acknowledging and welcoming delegates to Country.*	**Hemmingways Brewery**

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Tuesday 27 October 2026

0730–0830	*Registration and Trade Exhibition Open + Arrival Tea and Coffee*					*Exhibition Foyer and Tully Room Ground level*
Workshops	**Kuranda Ballroom** *Ground level*	**Mossman Ballroom** *Ground level*	**Bluewater 1** *Level 1*	**Bluewater 2** *Level 1*	**Rosser** *Level 1*	**Boardroom 2** *Level 2*
0830-1000	**Workshop 1** **New ellipsoid-based modelling options for TEM, MMR, TMI, and gravity data** *Dr Peter Fullagar, Fullagar Geophysics Pty Ltd* *Dr James Reid, Mira Geoscience Ltd*	**Workshop 2** **Cosmic-ray muon tomography: from rays to rocks to results** *Monika Pal, Ideon Technologies* *Mark Gabbitus, Ideon Technologies*	**Workshop 3** **Land Seismic: Design to Data – Session 1, Design** *Dr Claudio Strobbia, Realtimeseismic* *Enrico Ceragioli, Realtimeseismic*	**Workshop 4** **Land Seismic Acquisition – From the fundamentals to the latest technology** *Dr Tim Dean, Fleet Space Technologies*	**Workshop 5** **Data Science for Geoscientists: Unlocking New Frontiers** *Dr David Briguglio, Imdex*	**Workshop 6** **D.I.Y. Rock Physics for Exploration Under Cover – Session 1, Seismic Petrophysics** *Dr Jarrod Dunne, QIntegral Pty Ltd* *Dr James Parsons, QIntegral Pty Ltd*
1000-1030	*Morning Refreshments and Trade Exhibition*					*Exhibition Foyer and Tully Room Ground level*
1030-1200	**Workshop 1: continuation**	**Workshop 2: continuation**	**Workshop 3: continuation**	**Workshop 4: continuation**	**Workshop 5: continuation**	**Workshop 6: continuation**
1200-1300	*Lunch and Trade Exhibition*					*Exhibition Foyer and Tully Room Ground level*

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Tuesday 27 October 2026						
Workshops	**Kuranda Ballroom** *Ground level*	**Mossman Ballroom** *Ground level*	**Bluewater 1** *Level 1*	**Bluewater 2** *Level 1*	**Rosser** *Level 1*	**Boardroom 2** *Level 2*
1300-1430	**Workshop 7** **Advances in Induced Polarisation** *Mr Kim Frankcombe, Exploregeo* *Terry Rictchie, GRS* *Peter Rowston, GRS* *Steve Collins, Arctan* *Dr James Reid, Mira Geoscience*	**Workshop 8** **Geotools suite – 3D integrated inversion of EM, GravMag and Geology** *Ms Alice Pavesi, Viridien* *Dr Carsten Scholl, Viridien*	**Workshop 9** **Land Seismic: Design to Data – Session 2, Acquisition** *Dr Claudio Strobbia, Realtimeseismic* *Enrico Ceragioli, Realtimeseismic*	**Workshop 10** **Probabilistic Geometrical Inversion: From Model Sampling to (geological) Assessment** *Dr Jeremie Giraud, The University of Western Australia* *Prof Mark Jessell, The University of Western Australia* *Dr Michel Nzikou, The University of Western Australia*	**Workshop 11** **GPR Across Scales: From Engineering Diagnostics to Mineral Exploration** *Dr Jan Francke, Groundradar Inc and Geolitix Inc*	**Workshop 12** **D.I.Y. Rock Physics for Exploration Under Cover – Session 2, Rock Physics** *Dr Jarrod Dunne, QIntegral Pty Ltd* *Dr James Parsons, QIntegral Pty Ltd*
1430-1500	*Afternoon Refreshments and Trade Exhibition*					*Exhibition Foyer and Tully Room* *Ground level*
1500-1630	**Workshop 7: continuation**	**Workshop 8: continuation**	**Workshop 9: continuation**	**Workshop 10: continuation**	**Workshop 11: continuation**	**Workshop 12: continuation**
1800-2000	**Early Career Networking Event** *(ticketed event)* *With thanks to our Sponsor* VIRIDIEN SERCEL					**Cairns Aquarium**

Wednesday 28 October 2026

0800-0830	*Registration and Trade Exhibition Open + Arrival Tea and Coffee*				*Exhibition Foyer and Tully Room Ground level*
0830-0840	**Opening Address** *Sandi Occhipinti, CSIRO*				*Grand Ballroom Ground level*
0840-0855	**Welcome to Country**				
0855-0900	**Welcome Remarks and Introduction to the Symposium Program** *Ian James, Co-chair DISCOVER 2026*				
0900-0930	**Keynote Presentation: Emerging opportunities for characterization and monitoring hydrogeological and biogeochemical processes in the near-surface Earth using electrical geophysics.** *Lee Slater, Henry Rutgers Professor of Geophysics, Rutgers University Newark* *Chair: Simon Williams, Managing Director & Principal Geophysicist, GBG Group Australia*				*With thanks to our sponsor* GBGGROUP Geophysical Consultants
0930-1000	**Keynote Presentation: The transformation of geophysical acquisition: new hardware, new physics.** *Tim Dean, Principal Engineer, Fleet Space Technologies* *Chair: Ian James*				
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 1.1** **Natural-source electromagnetic methods – Case histories**	**Bluewater 1** *Level 1* **Concurrent Session 1.2** **Minerals case histories I**	**Bluewater 2** *Level 1* **Concurrent Session 1.3** **Geotechnical and Environmental I**	**Rosser** *Level 1* **Concurrent Session 1.4** **Airborne electromagnetics 1**	**Boardroom 2** *Level 2* **Concurrent Session 1.5** **Seismic source methods**
Chair:	**James Reid**	**Janelle Kerr**	**Lee Tasker**	**Regis Neroni**	**Troy Peters**
1005-1025	**1.1.1** **Structural Interpretation of MobileMT Resistivity Models for Mineral Exploration Applications** *Aleksei Philipovich, Expert Geophysics Surveys Inc.*	**1.2.1** **The geophysical signatures of the Boda and Kaiser Au-Cu porphyry deposits. Northern Molong Volcanic Belt, Macquarie Arc, NSW** *Teagan Blaikie, Vox Geophysics*	**1.3.1** **Integrated Geotechnical and Geophysical Characterization of a Tailings Dam Facility Using Machine Learning Techniques** *Craig Christensen, EMerald Geomodelling*	**1.4.1** **Continent-scale probabilistic imaging of airborne electromagnetic data** *Anandaroop Ray, Geoscience Australia*	**1.5.1** **Practical comparison of seismic source technologies for modern exploration environments** *Shaun Strong, Velseis Pty Ltd*

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Chair:	**James Reid**	**Janelle Kerr**	**Lee Tasker**	**Regis Neroni**	**Troy Peters**
1030-1050	**1.1.2** **Lower-Crustal Controls on IOCG Mineralisation in the Olympic Domain, Australia** *Sam (Hamid) Bizhani, Adelaide University*	**1.2.2** **The Aquila Cu-Co-Ag Discovery, NW Queensland, Australia** *Rob Angus, Mitre Geophysics Pty Ltd*	**1.3.2** **Integrated Electrical and Electromagnetic Methods for Characterising Seepage Pathways in Tailings Storage Facilities. Case studies from WA and SA** *Peteris Dzerins, GBG Group Australia*	**1.4.2** **Estimating noise for airborne electromagnetic data using repeat flight lines** *Tim Scarr, Geoscience Australia*	**1.5.2** **Recovery of horizontal seismic node positions from onboard GPS: A case study** *Stewart Fletcher, Velseis Pty Ltd*
1050-1120	*Morning Refreshments and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
1120-1140	**1.1.3** **Airborne natural field EM and Magnetic results over a Carlin-style Gold Deposit: The Hyland Gold Project, Yukon.** *Jean Legault, Geotech Ltd*	**1.2.3** **The history and application of Geophysics at Boddington Au-Cu mine.** *Kate Wittwer, Newmont*	**1.3.3** **Soil type assessment in crystalliser ponds using towed TEM and radiometrics at the Mardie Project, Western Australia** *Brodie Klue, Southern Geoscience Consultants*	**1.4.3** **AusAEM in Tasmania: survey design and early results** *Mark Duffett, Mineral Resources Tasmania*	**1.5.3** **Source-specific signature deconvolution for shallow seismic sources** *Shaun Strong, Velseis Pty Ltd*

Wednesday 28 October 2026					
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 2.1** **Magnetotellurics I**	**Bluewater 1** *Level 1* **Concurrent Session 2.2** **Minerals case histories II**	**Bluewater 2** *Level 1* **Concurrent Session 2.3** **Geotechnical and Environmental II**	**Rosser** *Level 1* **Concurrent Session 2.4** **Regional studies I**	**Boardroom 2** *Level 2* **Concurrent Session 2.5** **Rock Physics**
Chair:	**Kerry Key**	**Janelle Kerr**	**Lee Tasker**	**Dominic Brown**	**James Parsons**
1145-1205	**2.1.1** **A Comparative Study of Geomagnetic Storm Impacts Across Hemispheres** *Neesha Schnepf, Adelaide University*	**2.2.1** **A porphyry copper-molybdenum system discovery at Blue Rose, Nackara Arc, South Australia** *Nick Direen, Mitre Geophysics*	**2.3.1** **Integrated Passive and Active Seismic Imaging for Landslide Characterization at Chichester Dam, NSW** *Januka Attanayake, GHD*	**2.4.1** **Unearthing Victoria's Most Mysterious Mountains: Geophysical Modelling of the Mount Leinster Igneous Complex** *Jesse Ash, University of Melbourne*	
1210-1230	**2.1.2** **A graphitic lower crust beneath the Adelaide Superbasin region revealed by magnetotellurics** *Relly Margiono, Adelaide University*	**2.2.2** **Unlocking Better Near-Surface Imaging at the St Ives Gold Mine with Advanced Processing** *Charles Li, Viridien Group*	**2.3.2** **Integrated electric resistivity and seismic velocity approaches for the geophysical and geotechnical characterisation of coarse tailings** *Naima Yilo, University of Southampton*	**2.4.2** **Using geologically constrained 2D seismic data to interpret the Junee-Narromine Volcanic Belt beneath Mesozoic cover** *Sonia Yeung, Geological Survey NSW*	**2.5.2** **Rock physics and AVO analysis for the Yampi and Leveque shelves, southeastern Browse Basin: Building a more robust seismic interpretation** *Satoshi Ishikawa, Inpex*

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Chair:	**Kerry Key**	**Janelle Kerr**	**Lee Tasker**	**Dominic Brown**	**James Parsons**
1235-1245	**2.1.3** **Three-Dimensional Magnetotelluric Inversion Based on Adaptive Moment Estimation and L1 Norm** *Xinpeng Ma, China University of Petroleum (East China)*	**2.2.3** **Structure-constrained joint inversion of CSAMT and magnetic data using Optimal Transport distance in the Shuangjianzishan Ag-Pb-Zn district, Northeastern China** *Laonao Wei, Jilin University*	**2.3.3** **Case studies on the use of large aperture SPAC for estimating shallow shear wave velocity structure** *Leandro Aque, Southern Geoscience*	**2.4.3** **Seismic-constrained 2D geophysical forward modelling of the eastern Lachlan Orogen: New constraints on Macquarie Arc geometry and crustal architecture for 3D geological modelling** *Giovanni Spampinato, CSIRO*	**2.5.3** **Extended Vibroseis Cross-Correlation of L215 Adavale Basin Seismic Survey: Testing Deep-Crustal to Uppermost-Mantle Reflectivity** *Haroon Rasheed, Geoscience Australia*
1250-1300	**2.1.4** **Controlled Source Audiofrequency Magnetotelluric Method Inversion Based on Multi-Information Constraints** *Kaijun Xu, China University of Petroleum (East China)*	**2.2.4** **Petrophysics guided joint inversion of gravity gradient and magnetic: A case study in Malee Bull, NSW** *Lu Li, CSIRO*		**2.4.4** **Regional clips and advanced filtering: enhancing statewide geophysical maps in NSW** *Sam Matthews, Geological Survey of NSW*	
1300-1400	*Lunch and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
1400-1430	**Keynote Presentation: EXPLORING THE FUTURE: Geophysics, AI and the Next Exploration Era** *Kim Cook, South 32* *Chair: James Reid*				*Grand Ballroom* *Ground level*

Wednesday 28 October 2026					
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 3.1** **Magnetotellurics II**	**Bluewater 1** *Level 1* **Concurrent Session 3.2** **Regional Studies II**	**Bluewater 2** *Level 1* **Concurrent Session 3.3** **Geotechnical and Environmental III**	**Rosser** *Level 1* **Concurrent Session 3.4** **Potential fields I**	**Boardroom 2** *Level 2* **Concurrent Session 3.5** **Stress models /Natural Hydrogen Exploration**
Chair:	**Mikayla Sambrooks**	**Tom McNamara**	**Lisa Worrall**	**Jean Legault**	**Jarrod Dunne**
1435-1445	**3.1.1** **Extending AusLAMP coverage across northern Australia: new long-period MT acquisition in Queensland and the Northern Territory** *Fanrui Qiu, Adelaide University*	**3.2.1** **Reprocessing the Australia-Wide Airborne Geophysical Survey (AWAGS) - Improvements to the magnetic and radiometric datums** *James Goodwin, Geoscience Australia*	**3.3.1** **Characterisation of Karst Topography Onshore and Offshore Utilising Multiple Geophysical Methods - Case Study from Northwest WA** *Simon Williams, GBG Group*	**3.4.1** **Magnetic sheet edge anomalies, Helen Springs NT** *James Austin, CSIRO*	**3.5.1** **In-situ stress rotation in sedimentary basins** *Rasoul Ranjbarkarami, The University Of Queensland*
1445-1455	**3.1.2** **Magnetotelluric Imaging of the Atlas Mountains, Morocco** *Royce Butler, Adelaide University*		**3.3.2** **Seismic and TEM Surveys for Creek Mapping in the North Pilbara - A Case Study** *Brodie Klue, Southern Geoscience*	**3.4.2** **Probabilistic Mapping of Serpentinization Source Rock for Natural Hydrogen in Archaean Cratons of Western Australia** *Maha Haider, UNSW*	**3.5.2** **Survey-conditioned pre-training for label-efficient seismic fault detection** *Vladislav Alekseev, UNSW*
1500-1520	**3.1.3** **Equatorward Expansion of Geomagnetic Power During Severe Storms** *Neesha Schnepf, Adelaide University*	**3.2.3** **Toward a Unified Thermal Structure from Geophysical Constraints and Geostatistics: A Case Study of the Kalgoorlie Region** *Lu Li, CSIRO*	**3.3.3** **A case for an Australian multi-depth resistivity repository and mosaic for agriculture, water resources, and geological exploration** *David Allen, Groundwater Imaging Pty Ltd*	**3.4.3** **Displacement of magnetic anomaly peaks at mid to high geomagnetic inclinations as a function of inclination of magnetisation** *Sarath Patabendigedara, CSIRO*	**3.5.3** **Exploring for natural hydrogen in Tasmania** *George Taylor, Institute of Mine Seismology*

Wednesday 28 October 2026

Concurrent sessions	Grand Ballroom *Ground level* **Concurrent Session 3.1** **Magnetotellurics II**	Bluewater 1 *Level 1* **Concurrent Session 3.2** **Regional Studies II**	Bluewater 2 *Level 1* **Concurrent Session 3.3** **Geotechnical and Environmental III**	Rosser *Level 1* **Concurrent Session 3.4** **Potential fields I**	Boardroom 2 *Level 2* **Concurrent Session 3.5** **Stress models /Natural Hydrogen Exploration**
Chair:	**Mikayla Sambrooks**	**Tom McNamara**	**Lisa Worrall**	**Jean Legault**	**Jarrod Dunne**
1525-1535	**3.1.4** **Revisiting legacy MT datasets: reproducibility challenges and Opportunities** *Ben Kay, Auscope*		**3.3.4** **Full-waveform inversion of Ground Penetrating Radar (GPR): When should we bother?** *Craig O'Neill, QUT*	**3.4.4** **The case for new regional precompetitive data in Queensland: Airborne gravity gradiometry** *Matthew Greenwood, Geological Survey of Queensland*	**3.5.4** **Elastic full-waveform inversion of land-streamer distributed acoustic sensing (DAS) data for near-surface characterisation** *Andrej Bona, Bona GeoServices*
1540-1550	**3.1.5** **WAMT First Data Release** *Sasha Banaszczyk, Geological Survey of Western Australia*		**3.3.5** **Practical insights into the effect of depth of investigation and borehole conditions on borehole magnetic resonance data** *Mirhasan Hosseini, ORICA*		
1550-1620	*Afternoon Refreshments and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
1620-1650	**Keynote Presentation: The Future of Geophysics** *Katherine McKenna, Manager Exploration Discovery Innovation, BHP* *Chair: James Reid*				*Grand Ballroom* *Ground level*
1650-1720	**Keynote Presentation: Cosmic particles and Earth imaging: What muons teach us about the future of geophysics.** *Mark McLean, Geological Survey of Victoria (GSV) and The University of Melbourne* *Chair: James Reid*				
1720-1725	**Close day 1,** James Reid, Organising Committee DISCOVER 2026				

Thursday 29 October 2026

0800-0830	*Registration and Trade Exhibition Open + Arrival Tea and Coffee*				*Exhibition Foyer and Tully Room* *Ground level*
0830-0835	**Welcome Day 2** James Reid, Organising Committee DISCOVER 2026				*Grand Ballroom* *Ground level*
0835-0905	**Keynote Presentation: Think again – are you really AI-ready?** *Natasha Hendrick* *Chair: Tariq Alkhalifah*				
0905-0935	**Keynote Presentation: Precision Under Cover: Reducing Exploration Risk with CSEM and Full-Physics Spectral IP.** *Kerry Key, Founder, Deep Blue Geophysics* *Chair: James Reid*				
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 4.1** **Computational Geophysics I**	**Bluewater 1** *Level 1* **Concurrent Session 4.2** **Passive Seismic Methods I**	**Bluewater 2** *Level 1* **Concurrent Session 4.3** **Machine Learning/Artificial Intelligence I**	**Rosser** *Level 1* **Concurrent Session 4.4** **DC Resistivity/Induced Polarisation I**	**Boardroom 2** *Level 2* **Concurrent Session 4.5** **Velocity Models**
Chair:	**David Annetts**	**George Taylor**	**Jared Townsend**	**Mikayla Sambrooks**	**Megan Nightingale**
0940-1000	**4.1.1** **Geophysics-Informed Lithology Interpolation (GiLi): Bridging Borehole and Airborne Geophysical Data for 3D Subsurface Modelling** *Frederick Jackson, Computational Geosciences Inc*	**4.2.1** **DAS-Based Seismic While Drilling Data Processing: Enabling the Transformation of Passive Data to Active Equivalents** *Emad Al-hemyari, Curtin University*		**4.4.1** **Sidestepping the Opposition: Enhancing Electrical Geophysical Interpretation with Telluric Noise** *Peter Rowston, GRS Pty Ltd*	**4.5.1** **Linear geophysical inversion with seismic image-guided kriging** *Jack Muir, Fleet Space*

Thursday 29 October 2026

Concurrent sessions	Grand Ballroom *Ground level* **Concurrent Session 4.1** **Computational Geophysics I**	Bluewater 1 *Level 1* **Concurrent Session 4.2** **Passive Seismic Methods I**	Bluewater 2 *Level 1* **Concurrent Session 4.3** **Machine Learning/Artificial Intelligence I**	Rosser *Level 1* **Concurrent Session 4.4** **DC Resistivity/Induced Polarisation I**	Boardroom 2 *Level 2* **Concurrent Session 4.5** **Velocity Models**
Chair:	**David Annetts**	**George Taylor**	**Jared Townsend**	**Mikayla Sambrooks**	**Megan Nightingale**
1005-1025	**4.1.2** **A hybrid grid-and-geology inversion framework for AEM data** *Andrew King, CSIRO*	**4.2.2** **Turning Ambient Noise into Basement Architecture: Physics-Based Passive Seismic Imaging for Mineral Exploration** *Mehdi Tork Qashqai, CSIRO*	**4.3.2** **An Agentic Workflow for Automated Geophysical Inversion and Visualization Using Open-Source Repository** *Michel Nzikou Mamboukou, DMN Solutions*	**4.4.2** **Further Field Evaluation of the Heterodyne Method of Exploration for Sulphide Minerals** *Steve Collins*	**4.5.2** **Resolving Overburden Velocity Complexity Using TLFWI in the North West Shelf of Western Australia** *Shiping Wu, Viridien*
1025-1055	*Morning Refreshments and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 5.1** **Computational Geophysics II**	**Bluewater 1** *Level 1* **Concurrent Session 5.2** **Passive Seismic Methods II**	**Bluewater 2** *Level 1* **Concurrent Session 5.3** **Machine Learning/Artificial Intelligence II**	**Rosser** *Level 1* **Concurrent Session 5.4** **DC Resistivity/Induced Polarisation II**	**Boardroom 2** *Level 2* **Concurrent Session 5.5** **Carbon Capture and Storage**
Chair:	**Shane Mulè**	**George Taylor**	**Astrid Carlton**	**James Reid**	**Jarrod Dunne**
1055-1115	**5.1.1** **Applications of KoBold's GPU-accelerated Bayesian inversion pipeline for EM data: from structural mapping to magmatic sulfide targeting** *Beth Reid, Kobold Metals*	**5.2.1** **WA Array Phase 2 models** *Ruth Murdi, GSWA*	**5.3.1** **Electromagnetics and Machine Learning help de-risk 5 Mt of Channel Iron Deposit – A case study** *Nathan Tabain, BHP*	**5.4.1** **Large-scale Induced Polarization Inversion using High-Order Regularization on Unstructured Finite Element Meshes for Mineral Residues Structures Imaging** *Yan Zhou, The University of Queensland*	**5.5.1** **Finite-difference modelling of CO2-induced changes in DAS direct-wave traveltimes and amplitudes** *Aditya Priyadarshi, Curtin University*

Thursday 29 October 2026					
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 5.1** **Computational Geophysics II**	**Bluewater 1** *Level 1* **Concurrent Session 5.2** **Passive Seismic Methods II**	**Bluewater 2** *Level 1* **Concurrent Session 5.3** **Machine Learning/Artificial Intelligence II**	**Rosser** *Level 1* **Concurrent Session 5.4** **DC Resistivity/Induced Polarisation II**	**Boardroom 2** *Level 2* **Concurrent Session 5.5** **Carbon Capture and Storage**
Chair:	**Shane Mulè**	**George Taylor**	**Astrid Carlton**	**James Reid**	**Jarrod Dunne**
1120-1140	**5.1.2** **Sharp airborne electromagnetic imaging, but with Occam's inversion** *Anandaroop Ray, Geoscience Australia*	**5.2.2** **Ambient Noise Tomography and Azimuthal Anisotropy: Revealing the Mount Read Volcanics Beneath Volcanic Cover** *Tjaart De Wit, Colorado School of Mines/Institute of Mine Seismology*	**5.3.2** **Machine Learning for Seafloor Diamond Prospectivity** *David Briguglio, Imdex*	**5.4.2** **3D CSEM MT IP Response of Encuentro Porphyry System** *Hector Verdejo, GRS Chile*	**5.5.2** **Long-term crosshole seismic monitoring of the shallow CO2 release experiment** *Nikita Beloborodov, Curtin University*
1145-1205	**5.1.3** **Tomofast-x-μ: 3-D Magnetization Inversion of Micromagnetic Quantum Imaging** *Ahmed Bekhit, Curtin University*	**5.2.3** **Ambient Noise Tomography for Subglacial Imaging: Insights from a Passive Seismic Experiment in Greenland** *Richard Lynch, Concordens*	**5.3.3** **2D inversion of airborne electromagnetic data with deep neural networks** *Carsten Scholl, Viridien*	**5.4.3** **Differences between Inductive IIP and Galvanic GIP source Induced Polarization** *James Macnae, Cd3d / Honorary Professor RMIT*	**5.5.3** **Resistivity imaging beneath the Scanner Pockmark in the North Sea with Marine Controlled Source Electromagnetic (CSEM) method** *Naima Yilo, University of Southampton*
1210-1230	**5.1.4** **Generative Flow-Matching Priors from Segmentation-Based Inversion for Uncertainty Quantification** *Johnathan Kuttai, Geophysical Inversion Facility UBC*	**5.2.4** **Passive seismic interferometry using mining truck traffic as a noise source** *Andrew King, CSIRO*	**5.3.4** **Improving crustal boundary interpretation in deep seismic reflection data using multi-attribute machine learning with forward modelling validation along seismic line 07GA-A1 in northern QLD** *Danastri Tampubolon, James Cook University*	**5.4.4** **Airborne Induced Polarisation Removal** *Sasha Aivazpourporgou, Gsq*	**5.5.4** **Day–night acquisition and targeted processing of the L216 Boodjamulla–Croydon 2D seismic survey, north-west Queensland** *Muhammad Hossain, Geoscience Australia*

Thursday 29 October 2026					
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 5.1** **Computational Geophysics II**	**Bluewater 1** *Level 1* **Concurrent Session 5.2** **Passive Seismic Methods II**	**Bluewater 2** *Level 1* **Concurrent Session 5.3** **Machine Learning/Artificial Intelligence II**	**Rosser** *Level 1* **Concurrent Session 5.4** **DC Resistivity/Induced Polarisation II**	**Boardroom 2** *Level 2* **Concurrent Session 5.5** **Carbon Capture and Storage**
Chair:	**Shane Mulè**	**George Taylor**	**Astrid Carlton**	**James Reid**	**Jarrod Dunne**
1235pm – 1245pm		**5.2.5** **Multiphysics mapping of the Valeriano Porphyry Deposit using ANT and MT** *Mikayla Sambrooks, Fleet Space Technologies*	**5.3.5** **Modernising Australian Geophysical Datasets for HPC and Cloud: Progress Towards AI-Readiness** *Nigel Rees, National Computational Infrastructure, Australian National University*	**5.4.5** **Resistivity of pegmatites, paradox or opportunity?** *Regis Neroni, Erity*	**5.5.5** **Beyond conventional imaging: a full-waveform inversion application with 2D land seismic for Carbon Storage** *Roger Li, Viridien*
1250-1300		**5.2.6** **Processing and interpreting muon opacity data as a geologist** *Tom McNamara, University of Melbourne*			
1300-1400	*Lunch and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
1400-1430	**Keynote Presentation: Resourcing Australia's Prosperity – government investment in precompetitive geophysics** *Marina Costelloe, Branch Head of the Mineral Systems Branch at Geoscience Australia* *Chair: Teagan Blaikie*				*Grand Ballroom* *Ground level*

Thursday 29 October 2026					
Concurrent sessions	**Grand Ballroom** *Ground level* **Concurrent Session 6.1** **Computational Geophysics III**	**Bluewater 1** *Level 1* **Concurrent Session 6.2** **Potential Fields III**	**Bluewater 2** *Level 1* **Concurrent Session 6.3** **AEM for groundwater**	**Rosser** *Level 1* **Concurrent Session 6.4** **Potential Fields II**	**Boardroom 2** *Level 2* **Concurrent Session 6.5** **Magnetotellurics III/Inverse Methods**
Chair:	**Andrew King**	**Sam Matthews**	**James Reid**	**Sonia Yeung**	**Janelle Kerr**
1435-1455	**6.1.1** **The GEMSModels Suite: Modernisation of the P223 Suite** *David Annetts, Aegis Geophysics*		**6.3.1** **Classification of airborne electromagnetic data for hydrostratigraphic mapping of the Beaufort River palaeovalley, Western Australia** *Aaron Davis, CSIRO*	**6.4.1** **EarthDrone: autonomous geomagnetic depth sounding** *Steven Micklethwaite, The University of Queensland*	**6.5.1** **Locally regularised 3D magnetotellurics inversion** *Hoel Seille, CSIRO*
1500-1520	**6.1.2** **High-Resolution Joint Inversion of Ambient Noise Tomography and Magnetotelluric Data Using the Adjoint-State Method and a Cross-Gradient Constraint** *Nick Smith, Fleet Space Technologies*	**6.2.2** **A tetrahedral gravity solution for complex geometric forms: from terrain corrections to asteroid gravity models** *Craig O'Neill, QUT*	**6.3.2** **Application of time-domain airborne electromagnetic method to hydrogeological survey in Longzhao town area, Songnen plain, China** *Wei Huang, Institute of Geophysical and Geochemical Exploration, Chinese Academy of Geological Sciences*	**6.4.2** **The chessboard magnetometer - a novel utility for teaching exploration magnetics** *Sarath Patabendigedara, CSIRO*	**6.5.2** **Regularisation strategies in 3D magnetotelluric inversion: a comparative study over the Eastern Goldfields, Western Australia** *Stephan Thiel, CSIRO*

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Thursday 29 October 2026

Concurrent sessions	Grand Ballroom *Ground level* **Concurrent Session 6.1** **Computational Geophysics III**	Bluewater 1 *Level 1* **Concurrent Session 6.2** **Potential Fields III**	Bluewater 2 *Level 1* **Concurrent Session 6.3** **AEM for groundwater**	Rosser *Level 1* **Concurrent Session 6.4** **Potential Fields II**	Boardroom 2 *Level 2* **Concurrent Session 6.5** **Magnetotellurics III/Inverse Methods**
Chair:	**Andrew King**	**Sam Matthews**	**James Reid**	**Sonia Yeung**	**Janelle Kerr**
1525-1535	**6.1.3** **The Cost of Certainty: Deterministic Inversion and the Economics of Exploration Targeting** *Tim Jones, Fleet Space*	**6.2.3** **Recent improvements to the Australian Fundamental Gravity Network and future plans.** *Phillip Wynne, Geoscience Australia*	**6.3.3** **Combining airborne electromagnetics, hydrochemistry and environmental tracers to evaluate aquifer connectivity in the Surat and Gunnedah basins, NSW** *Matthias Raiber, CSIRO*	**6.4.3** **Vectors to mineralisation? Insights from full tensor airborne gravity gradiometry over an area between Cobar and Nyngan, NSW.** *Michael Hallet, Geological Survey of NSW*	**6.5.3** **Integrating airborne electromagnetic derived conductivity within Magnetotelluric inversion: a field example from the onshore Perth Basin, Western Australia** *Rabea Sedaghat, CSIRO*
1540-1550	**6.1.4** **National Geophysics Validation Line (NGVL): Benchmarking technologies for characterising the Subsurface** *Shane Mulè, CSIRO*	**6.2.4** **When does terrain detail matter? Radius and resolution constraints for a merged Victorian gravity terrain correction.** *Matt Boyd, Geological Survey of Victoria*			**6.5.4** **Joint imaging of multiple geophysical data constrained by group sparsity** *Dan Zhu, China University of Petroleum (East China)*
1550-1620	*Afternoon Refreshments and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
1620-1650	**Keynote Presentation: The role of neural representation and regularization in Earth discovery** *Tariq Alkhalifah, KAUST* *Chair: Natasha Hendrick*				*Grand Ballroom* *Ground level*
1650-1740	**ASEG Awards and Symposium Closing Ceremony** Teagan Blaikie, ASEG President				
1900-2200	**Symposium Dinner (ticketed event)**				**Salt House**

Friday 30 October 2026

0800 - 0830	*Registration and Trade Exhibition Open + Arrival Tea and Coffee*				*Exhibition Foyer and Tully Room Ground level*
Workshops	**Kuranda Ballroom** *Ground level*	**Mossman Ballroom** *Ground level*	**Bluewater 1** *Level 1*	**Bluewater 2** *Level 1*	**Rosser** *Level 1*
0830-1000	**Workshop 13** **Sharp inversion for airborne electromagnetic imaging** *Dr Anandaroop Ray, Geoscience Australia* *Mr Tim Scarr, Geoscience Australia* *Proudly supported by* Australian Government Geoscience Australia	**Workshop 14** **SIMPEG open source modelling and inversion with Geoscience ANALYST Pro Geophysics – Session 1, Potential Fields** *Dr James Reid, Mira Geoscience* *Mr Glenn Pears, Mira Geoscience*	**Workshop 15** **EMFlips: a successor to EMFlow plus Local anomaly, IP and SPM fitting and correction** *Prof James Macnae, CD3D*	**Workshop 16** **Land Seismic: Design to Data – Session 3, Processing 1** *Dr Claudio Strobbia, Realtimeseismic* *Enrico Ceragioli, Realtimeseismic*	**Workshop 17** **Deep crustal architecture of northwest Queensland: results from the 2025 Boodjamulla–Croydon Seismic Survey (L216)** *Mr Dominic Brown, Geological Survey of Queensland* *Dr Muhammad Hossain, Geoscience Australia*
1000-1030	*Morning Refreshments and Trade Exhibition*				*Exhibition Foyer and Tully Room Ground level*
Workshops	**Kuranda Ballroom** *Ground level*	**Mossman Ballroom** *Ground level*	**Bluewater 1** *Level 1*	**Bluewater 2** *Level 1*	**Rosser** *Level 1*
1030-1200	**Workshop 13: continuation**	**Workshop 14: continuation**	**Workshop 15: continuation**	**Workshop 16: continuation**	**Workshop 17: continuation**
1200-1300	*Lunch and Trade Exhibition*				*Exhibition Foyer and Tully Room Ground level*

Friday 30 October 2026

Workshops	Kuranda Ballroom *Ground level*	Mossman Ballroom *Ground level*	Bluewater 1 *Level 1*	Bluewater 2 *Level 1*	Rosser *Level 1*
1300-1430	**Workshop 18** **Value-add products for regional aeromagnetic surveys** James Austin, CSIRO *With thanks to our sponsor* Fortescue	**Workshop 19** **SIMPEG open source modelling and inversion with Geoscience ANALYST Pro Geophysics – Session 2, Electrical and Electromagnetic methods** *Dr James Reid, Mira Geoscience* *Mr Glenn Pears, Mira Geoscience*	**Workshop 20** **H2/He Exploration Geophysics Forum** *Dr Jarrod Dunne, QIntegral Pty Ltd* *Dr Emanuelle Frery, CSIRO*	**Workshop 21** **Land Seismic: Design to Data – Session 4, Processing 2** *Dr Claudio Strobbia, Realtimeseismic* *Enrico Ceragioli, Realtimeseismic*	**Workshop 22** **Bridging the frontier: Transferable Geophysics for Energy and Minerals** *Mr Geoff Dunn, Terrex Seismic* *Dr Yvette Poudjom Djomani, Geoscience Australia* *Ian James, BHP* *Dr Urval Patel, Rock Flow Dynamics (RFD)*
1430-1500	*Afternoon Refreshments and Trade Exhibition*				*Exhibition Foyer and Tully Room* *Ground level*
Workshops	**Kuranda Ballroom** *Ground level*	**Mossman Ballroom** *Ground level*	**Bluewater 1** *Level 1*	**Bluewater 2** *Level 1*	**Rosser** *Level 1*
1500-1630	**Workshop 18: continuation**	**Workshop 19: continuation**	**Workshop 20: continuation**	**Workshop 21: continuation**	**Workshop 22: continuation**
1630-1730	***Symposium Farewell Drinks*** *With thanks to our sponsor* DAISHSAT GEODETIC SURVEYORS				*Exhibition Foyer and Tully Room* *Ground level*

The ASEG DISCOVER 2026 reserves the right to amend or alter any advertised details relating to dates, program and speakers if necessary and without notice, as a result of circumstances beyond their control.
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