



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	<i>Exhibition Foyer and Tully Room Pullman Cairns International</i>
1700-1900	Welcome Reception <i>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.</i>	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 <i>Dr Peter Fullagar, Fullagar Geophysics Pty Ltd</i> <i>Dr James Reid, Mira Geoscience Ltd</i>	Workshop 2 Cosmic-ray muon tomography: from rays to rocks to results <i>Monika Pal, Ideon Technologies</i> <i>Mark Gabbitus, Ideon Technologies</i>	Workshop 3 Land Seismic: Design to Data – Session 1, Design <i>Dr Claudio Strobbia, Realtimeseismic</i> <i>Enrico Ceragioli, Realtimeseismic</i>	Workshop 4 Land Seismic Acquisition – From the fundamentals to the latest technology <i>Dr Tim Dean, Fleet Space Technologies</i>	Workshop 5 Data Science for Geoscientists: Unlocking New Frontiers <i>Dr David Briguglio, Imdex</i>	Workshop 6 D.I.Y. Rock Physics for Exploration Under Cover – Session 1, Seismic Petrophysics <i>Dr Jarrod Dunne, QIntegral Pty Ltd</i> <i>Dr James Parsons, QIntegral Pty Ltd</i>
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 <i>Ground level</i>	Mossman Ballroom <i>Ground level</i>	Bluewater 1 <i>Level 1</i>	Bluewater 2 <i>Level 1</i>	Rosser <i>Level 1</i>	Boardroom 2 <i>Level 2</i>
1300-1430	Workshop 7 Advances in Induced Polarisation <i>Mr Kim Frankcombe, Exploregeo</i> <i>Terry Rictchie, GRS</i> <i>Peter Rowston, GRS</i> <i>Steve Collins, Arctan</i> <i>Dr James Reid, Mira Geoscience</i>	Workshop 8 Geotools suite – 3D integrated inversion of EM, GravMag and Geology <i>Ms Alice Pavesi, Viridien</i> <i>Dr Carsten Scholl, Viridien</i>	Workshop 9 Land Seismic: Design to Data – Session 2, Acquisition <i>Dr Claudio Strobbia, Realtimeseismic</i> <i>Enrico Ceragioli, Realtimeseismic</i>	Workshop 10 Probabilistic Geometrical Inversion: From Model Sampling to (geological) Assessment <i>Dr Jeremie Giraud, The University of Western Australia</i> <i>Prof Mark Jessell, The University of Western Australia</i> <i>Dr Michel Nzikou, The University of Western Australia</i>	Workshop 11 GPR Across Scales: From Engineering Diagnostics to Mineral Exploration <i>Dr Jan Francke, Groundradar Inc and Geolitix Inc</i>	Workshop 12 D.I.Y. Rock Physics for Exploration Under Cover – Session 2, Rock Physics <i>Dr Jarrod Dunne, QIntegral Pty Ltd</i> <i>Dr James Parsons, QIntegral Pty Ltd</i>
1430-1500	<i>Afternoon Refreshments and Trade Exhibition</i>					<i>Exhibition Foyer and Tully Room</i> <i>Ground level</i>
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 <i>(ticketed event)</i> <i>With thanks to our Sponsor</i>  					Cairns Aquarium

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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: Ian James					With thanks to our sponsor 
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		
1005-1025	1.1.1 Structural Interpretation of MobileMT Resistivity Models for Mineral Exploration Applications Alekssei 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, ASEG	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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Concurrent sessions	Grand Ballroom <i>Ground level</i> Concurrent Session 1.1 Natural-source electromagnetic methods – Case histories	Bluewater 1 <i>Level 1</i> Concurrent Session 1.2 Minerals case histories I	Bluewater 2 <i>Level 1</i> Concurrent Session 1.3 Geotechnical and Environmental I	Rosser <i>Level 1</i> Concurrent Session 1.4 Airborne electromagnetics 1	Boardroom 2 <i>Level 2</i> Concurrent Session 1.5 Seismic source methods
Chair:	James Reid	Janelle Kerr	Lee Tasker	Regis Neroni	
1030-1050	1.1.2 Lower-Crustal Controls on IOCG Mineralisation in the Olympic Domain, Australia <i>Sam (Hamid) Bizhani, Adelaide University</i>	1.2.2 The Aquila Cu-Co-Ag Discovery, NW Queensland, Australia <i>Rob Angus, Mitre Geophysics Pty Ltd</i>	1.3.2 Integrated Electrical and Electromagnetic Methods for Characterising Seepage Pathways in Tailings Storage Facilities. Case studies from WA and SA <i>Peteris Dzerins, GBG Group Australia</i>	1.4.2 Estimating noise for airborne electromagnetic data using repeat flight lines <i>Tim Scarr, Geoscience Australia</i>	1.5.2 Recovery of horizontal seismic node positions from onboard GPS: A case study <i>Stewart Fletcher, Velseis Pty Ltd</i>
1050-1120	Morning Refreshments and Trade Exhibition				Exhibition Foyer and Tully Room <i>Ground level</i>
1120-1140	1.1.3 Airborne natural field EM and Magnetic results over a Carlin-style Gold Deposit: The Hyland Gold Project, Yukon. <i>Jean Legault, Geotech Ltd</i>	1.2.3 The opportunity for growth utilising Geophysics at the Boddington Au-Cu deposit. <i>Kate Wittwer, Newmont</i>	1.3.3 Soil type assessment in crystalliser ponds using towed TEM and radiometrics at the Mardie Project, Western Australia <i>Brodie Klue, Southern Geoscience Consultants</i>	1.4.3 AusAEM in Tasmania: survey design and early results <i>Mark Duffett, Mineral Resources Tasmania</i>	1.5.3 Source-specific signature deconvolution for shallow seismic sources <i>Shaun Strong, Velseis Pty Ltd</i>

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

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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 <i>Xinpeng Ma, China University of Petroleum (East China)</i>	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 <i>Laonao Wei, Jilin University</i>	2.3.3 Case studies on the use of large aperture SPAC for estimating shallow shear wave velocity structure <i>Leandro Aque, Southern Geoscience</i>	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 <i>Giovanni Spampinato, CSIRO</i>	2.5.3 Extended Vibroseis Cross-Correlation of L215 Adavale Basin Seismic Survey: Testing Deep-Crustal to Uppermost-Mantle Reflectivity <i>Haroon Rasheed, Geoscience Australia</i>
1250-1300	2.1.4 Controlled Source Audiofrequency Magnetotelluric Method Inversion Based on Multi-Information Constraints <i>Kaijun Xu, China University of Petroleum (East China)</i>	2.2.4 Petrophysics guided joint inversion of gravity gradient and magnetic: A case study in Malee Bull, NSW <i>Lu Li, CSIRO</i>		2.4.4 Regional clips and advanced filtering: enhancing statewide geophysical maps in NSW <i>Sam Matthews, Geological Survey of NSW</i>	
1300-1400	<i>Lunch and Trade Exhibition</i>				
1400-1430	Keynote Presentation: EXPLORING THE FUTURE: Geophysics, AI and the Next Exploration Era <i>Kim Cook, South 32</i>				

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Chair:	Mikayla Sambrooks	Tom McNamara	Lee Tasker	Jean Legault	Jarrold Dunne
1435-1445	3.1.1 Extending AusLAMP coverage across northern Australia: new long-period MT acquisition in Queensland and the Northern Territory <i>Fanrui Qiu, Adelaide University</i>	3.2.1 Reprocessing the Australia-Wide Airborne Geophysical Survey (AWAGS) - Improvements to the magnetic and radiometric datums <i>James Goodwin, Geoscience Australia</i>	3.3.1 Characterisation of Karst Topography Onshore and Offshore Utilising Multiple Geophysical Methods - Case Study from Northwest WA <i>Simon Williams, GBG Group</i>	3.4.1 Magnetic sheet edge anomalies, Helen Springs NT <i>James Austin, CSIRO</i>	3.5.1 In-situ stress rotation in sedimentary basins <i>Rasoul Ranjbarkarami, The University Of Queensland</i>
1445-1455	3.1.2 Magnetotelluric Imaging of the Atlas Mountains, Morocco <i>Royce Butler, Adelaide University</i>	3.2.2 How do you take your gravity? It comes down to wavelength <i>Suzanne Haydon, Geological Survey of Victoria</i>	3.3.2 Seismic and TEM Surveys for Creek Mapping in the North Pilbara - A Case Study <i>Remke Van Dam, Southern Geoscience</i>	3.4.2 Probabilistic Mapping of Serpentinization Source Rock for Natural Hydrogen in Archaean Cratons of Western Australia <i>Maha Haider, UNSW</i>	3.5.2 Survey-conditioned pre-training for label-efficient seismic fault detection <i>Vladislav Alekseev, UNSW</i>
1500-1520	3.1.3 Equatorward Expansion of Geomagnetic Power During Severe Storms <i>Neesha Schnepf, Adelaide University</i>	3.2.3 Toward a Unified Thermal Structure from Geophysical Constraints and Geostatistics: A Case Study of the Kalgoorlie Region <i>Lu Li, CSIRO</i>	3.3.3 A case for an Australian multi-depth resistivity repository and mosaic for agriculture, water resources, and geological exploration <i>David Allen, Groundwater Imaging Pty Ltd</i>	3.4.3 Displacement of magnetic anomaly peaks at mid to high geomagnetic inclinations as a function of inclination of magnetisation <i>Sarath Patabendigedara, CSIRO</i>	3.5.3 Exploring for natural hydrogen in Tasmania <i>George Taylor, Institute of Mine Seismology</i>

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Chair:	Mikayla Sambrooks	Tom McNamara	Lee Tasker	Jean Legault	Jarrold Dunne
1525-1535	3.1.4 Revisiting legacy MT datasets: reproducibility challenges and Opportunities <i>Ben Kay, Auscope</i>	3.2.4 Global Prediction of Near-Sea-floor Marine Sediment Magnetic Susceptibility Using a Spatial Neural-Tree Ensemble <i>Abdullah Hussein, Sun Yat Sun University</i>	3.3.4 Full-waveform inversion of Ground Penetrating Radar (GPR): When should we bother? <i>Craig O'Neill, QUT</i>	3.4.4 The case for new regional precompetitive data in Queensland: Airborne gravity gradiometry <i>Matthew Greenwood, Geological Survey of Queensland</i>	3.5.4 Elastic full-waveform inversion of land-streamer distributed acoustic sensing (DAS) data for near-surface characterisation <i>Andrej Bona, Bona GeoServices</i>
1540-1550	3.1.5 WAMT First Data Release <i>Sasha Banaszczyk, Geological Survey of Western Australia</i>		3.3.5 Practical insights into the effect of depth of investigation and borehole conditions on borehole magnetic resonance data <i>Mirhasan Hosseini, ORICA</i>		
1550-1620	<i>Afternoon Refreshments and Trade Exhibition</i>				<i>Exhibition Foyer and Tully Room Ground level</i>
1620-1650	Keynote Presentation: The Future of Geophysics <i>Katherine McKenna, Manager Exploration Discovery Innovation, BHP</i>				<i>Grand Ballroom Ground level</i>
1650-1720	Keynote Presentation: Cosmic particles and Earth imaging: What muons teach us about the future of geophysics. <i>Mark McLean, Geological Survey of Victoria (GSV) and The University of Melbourne</i>				
1720-1725	Close day 1				
1725	Free night to Explore Cairns				

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0800-0830	Registration and Trade Exhibition Open + Arrival Tea and Coffee					Exhibition Foyer and Tully Room Ground level
0830-0835	Welcome Day 2					Grand Ballroom Ground level
0835-0905	Keynote Presentation: Think again – are you really AI-ready? <i>Natasha Hendrick</i>					
0905-0935	Keynote Presentation: Precision Under Cover: Reducing Exploration Risk with CSEM and Full-Physics Spectral IP. <i>Kerry Key, Founder, Deep Blue Geophysics</i> <i>Chair: James Reid</i>					
Concurrent sessions	Grand Ballroom <i>Ground level</i> Concurrent Session 4.1 Computational Geophysics I	Bluewater 1 <i>Level 1</i> Concurrent Session 4.2 Passive Seismic Methods I	Bluewater 2 <i>Level 1</i> Concurrent Session 4.3 Machine Learning/Artificial Intelligence I	Rosser <i>Level 1</i> Concurrent Session 4.4 DC Resistivity/Induced Polarisation I	Boardroom 2 <i>Level 2</i> Concurrent Session 4.5 Velocity Models	
Chair:	David Annetts	George Taylor	Jared Townsend		Megan Nightingale	
0940-1000	4.1.1 Geophysics-Informed Lithology Interpolation (GiLi): Bridging Borehole and Airborne Geophysical Data for 3D Subsurface Modelling <i>Frederick Jackson, Computational Geosciences Inc</i>	4.2.1 DAS-Based Seismic While Drilling Data Processing: Enabling the Transformation of Passive Data to Active Equivalents <i>Emad Al-hemyari, Curtin University</i>	4.3.1 Machine learning for multi-scale structural mapping of the Melbourne Zone, central Victoria: from LiDAR bedding traces to geophysically domained crustal architecture <i>Phil Skladzien, Geological Survey of Victoria</i>	4.4.1 Sidestepping the Opposition: Enhancing Electrical Geophysical Interpretation with Telluric Noise <i>Peter Rowston, GRS Pty Ltd</i>	4.5.1 Linear geophysical inversion with seismic image-guided kriging <i>Jack Muir, Fleet Space</i>	

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

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

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

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Concurrent sessions	Grand Ballroom <i>Ground level</i> Concurrent Session 6.1 Computational Geophysics III	Bluewater 1 <i>Level 1</i> Concurrent Session 6.2 Potential Fields III	Bluewater 2 <i>Level 1</i> Concurrent Session 6.3 AEM for groundwater	Rosser <i>Level 1</i> Concurrent Session 6.4 Potential Fields II	Boardroom 2 <i>Level 2</i> 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 <i>David Annetts, Aegis Geophysics</i>	6.2.1 3D potential-field joint inversion using Tomofast-x: a regional strategy for the Darling-Curnamona-Delamerian area <i>Jackie Hope, Geoscience Australia</i>	6.3.1 Classification of airborne electromagnetic data for hydrostratigraphic mapping of the Beaufort River palaeovalley, Western Australia <i>Aaron Davis, CSIRO</i>	6.4.1 EarthDrone: autonomous geomagnetic depth sounding <i>Steven Micklethwaite, The University of Queensland</i>	6.5.1 Locally regularised 3D magnetotellurics inversion <i>Hoel Seille, CSIRO</i>
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 <i>Nick Smith, Fleet Space Technologies</i>	6.2.2 A tetrahedral gravity solution for complex geometric forms: from terrain corrections to asteroid gravity models <i>Craig O'Neill, QUT</i>	6.3.2 Application of time-domain airborne electromagnetic method to hydrogeological survey in Longzhao town area, Songnen plain, China <i>Wei Huang, Institute of Geophysical and Geochemical Exploration, Chinese Academy of Geological Sciences</i>	6.4.2 The chessboard magnetometer - a novel utility for teaching exploration magnetics <i>Sarath Patabendigedara, CSIRO</i>	6.5.2 Regularisation strategies in 3D magnetotelluric inversion: a comparative study over the Eastern Goldfields, Western Australia <i>Stephan Thiel, CSIRO</i>

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Thursday 29 October 2026

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

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 <i>Dr Anandaroop Ray, Geoscience Australia</i> <i>Mr Tim Scarr, Geoscience Australia</i> <i>Proudly supported by</i>  Australian Government Geoscience Australia	Workshop 14 SIMPEG open source modelling and inversion with Geoscience ANALYST Pro Geophysics – Session 1, Potential Fields <i>Dr James Reid, Mira Geoscience</i> <i>Mr Glenn Pears, Mira Geoscience</i>	Workshop 15 EMFlips: a successor to EMFlow plus Local anomaly, IP and SPM fitting and correction <i>Prof James Macnae, CD3D</i>	Workshop 16 Land Seismic: Design to Data – Session 3, Processing 1 <i>Dr Claudio Strobbia, Realtimeseismic</i> <i>Enrico Ceragioli, Realtimeseismic</i>	Workshop 17 Deep crustal architecture of northwest Queensland: results from the 2025 Boodjamulla–Croydon Seismic Survey (L216) <i>Mr Dominic Brown, Geological Survey of Queensland</i> <i>Dr Muhammad Hossain, Geoscience Australia</i>	
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 <i>Ground level</i>	Mossman Ballroom <i>Ground level</i>	Bluewater 1 <i>Level 1</i>	Bluewater 2 <i>Level 1</i>	Rosser <i>Level 1</i>
1300-1430	Workshop 18 Value-add products for regional aeromagnetic surveys James Austin, CSIRO <i>With thanks to our sponsor</i> 	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	<i>Afternoon Refreshments and Trade Exhibition</i> Exhibition Foyer and Tully Room Ground level				
Workshops	Kuranda Ballroom <i>Ground level</i>	Mossman Ballroom <i>Ground level</i>	Bluewater 1 <i>Level 1</i>	Bluewater 2 <i>Level 1</i>	Rosser <i>Level 1</i>
1500-1630	Workshop 18: continuation	Workshop 19: continuation	Workshop 20: continuation	Workshop 21: continuation	Workshop 22: continuation
1630-1730	Symposium Farewell Drinks <i>With thanks to our sponsor</i> 				

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,
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