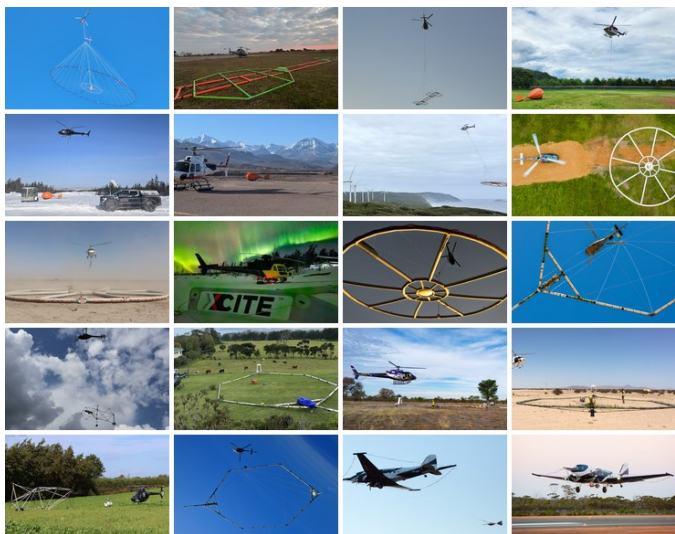


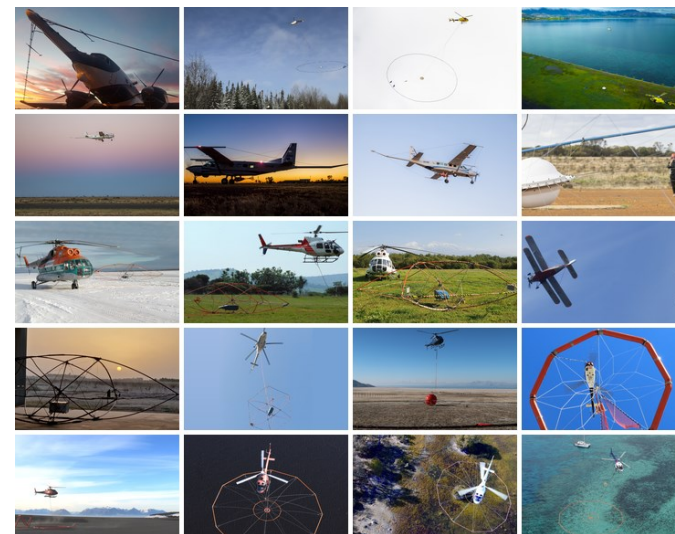


AEM



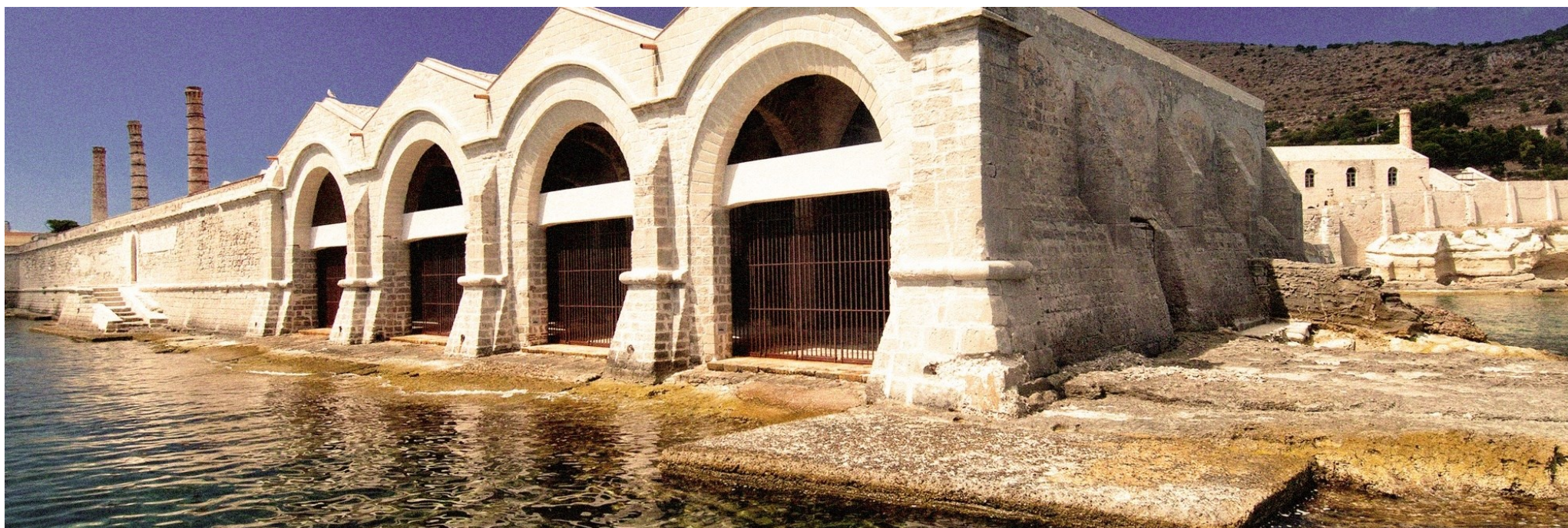
2026

**9th International Airborne
Electromagnetics Workshop**



6 – 11 September 2026

Ex Stabilimento Florio delle Tonnare di Favignana e Formica, Favignana, Italy



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DAY 0

Sunday, 6 September 2026

18:30–19:30 Guided visit of the venue museum, the Ex Stabilimento Florio delle Tonnare di Favignana e Formica

19:30–21:00 Icebreaker at the Ex Stabilimento Florio delle Tonnare di Favignana e Formica

DAY 1

Monday, 7 September 2026

8:45–9:00 Welcome		
08:40–09:00	Gianluca Fiandaca & Andrea Viezzoli EEM Team, Milano Univ. & EMergo	Conference opening
9:00–9:40 Keynote 1 – Convenor: Andrea Viezzoli EMergo		
09:00–09:40	Yusen Ley-Cooper GA	Keep Calm and Fly: AEM'ing Australia, One Line at a Time. How a Continent Changed the Way We Do and Think About AEM
9:40–10:40 Groundwater, Geological and Infrastructure applications 1 – Convenor: Andrea Viezzoli EMergo		
09:40–10:00	Burke Minsley USGS	What have we done? A global AEM catalog to democratize data access and enable synthesis studies
10:00–10:20	Timothy Munday CSIRO	A multiscale approach to managing a potable water supply in the Eyre Peninsula, South Australia
10:20–10:40	Michael Louis Oristaglio Yale Univ.	Characterizing the Columbia River Basalt Group for geologic carbon sequestration using airborne EM
10:40–11:20 Coffee Break		
11:20–13:00 Induced polarization – Convenor: Leif Cox Technolmaging		
11:20–11:40	Andrea Viezzoli EMergo	Further lessons learned in AIP modelling
11:40–12:00	Gianluca Fiandaca on behalf of Francesco Dauti EEM Team, Milano Univ.	Airborne Induced Polarization effects in the TEMPEST fixed-wing system
12:00–12:20	James Macnae CD3D & RMIT	Inductive IP time-constant to characterise AEM data
12:20–12:40	Jian Chen EEM Team, Milano Univ.	Automated Processing and Probabilistic AEM-IP Imaging of Large-Scale Airborne Electromagnetic Data Using Machine Learning
12:40–13:00	Regis Neroni NewGen Geo	Exposing a blind nickel sulphide discovery masked by induced polarisation effects in AEM data
13:00–14:20 Lunch Break		
14:20–15:00 Keynote 2 – Convenor: Lindsey Heagy UBC		
14:20–15:00	Changchun Yin Jilin Univ.	Advanced Technologies for three-dimensional Airborne EM inversions
15:00–16:00 Modelling 1 – Convenor: Lindsey Heagy UBC		
15:00–15:20	Eldad Haber UBC	Airborne Electromagnetic Modelling Using a Physically Informed Architecture
15:20–15:40	Weiyi Zhong Jilin Univ.	Fast 3D transient electromagnetic forward modeling using compressed sensing solver
15:40–16:00	Bo Zhang Jilin Univ.	New Methods for Three-Dimensional Airborne EM Inversions
16:00–16:20 Break		
16:20–17:20 Data quality and processing workflows – Convenor: Yusen Ley-Cooper GA		
16:20–16:40	Anandaroop Ray GA	Noise Estimation from Repeat Flight Lines with a Non-linear Inversion Based Height Correction
16:40–17:00	Magdel Combrinck NRG	Analysis of topographic effects on AEM data
17:00–17:20	Michele Ciaffarà EMergo	From Experience to Automation: A Pragmatic Supervised CNN Approach for Airborne EM Data Processing
17:20–19:00 Poster session 1 + Aperitif		
19:00–21:00 Couscous & Cannoli, Ex Stabilimento Florio delle Tonnare di Favignana e Formica		

DAY 2

Tuesday, 8 September 2026

9:00–9:40 Keynote 3 – Convenor: Timothy Munday | CSIRO

09:00–09:40 John Doherty | WNC Parameterizing a groundwater model using AEM data? Can the scale and physics gap be bridged?

9:40–10:40 Modelling 2 – Convenor: Timothy Munday | CSIRO

09:40–10:00 Lindsey Heagy | UBC 3D hybrid-parametric inversion of AEM data accelerated by tiling
10:00–10:20 Carsten Scholl | Viridien 2D inversion of airborne electromagnetic data with deep neural networks
10:20–10:40 Gianluca Fiandaca | EEM Team, Milano Univ. Tessellated Multi Mesh-Cycle-Norm (TMMCN) 3D Inversion of AEM-IP data accelerated by 3D U-Nets deep-learning

10:40–11:20 Coffee Break

11:20–13:00 Groundwater, Geological and Infrastructure interpretation 2 – Convenor: Paul Bedrosian | USGS

11:20–11:40 Frans Schaars | Artesia Bridging the Gap: Different Pathways for Translating Airborne EM Data into Groundwater Models
11:40–12:00 Stefano Galli | EEM Team Spin-Off Borehole and geological constraints in AEM inversion: a workflow test at a Dutch coastal groundwater site
12:00–12:20 Burke Minsley on behalf of Bennet Hoogenboom | USGS California WSC Salinology: Joint Interpretation of Lithology and Salinity Using Airborne Electromagnetics and Borehole Observations
12:20–12:40 Kisa Mwakanyamale | Illinois GS Defining the Hydrogeological Framework of the Mahomet using Airborne Electromagnetics and a Novel Sediment Interpretation Method
12:40–13:00 Anastasiia Moilanen | Geotechnologies Airborne EM Imaging for Coastal Aquifer Management in Muravera, Sardinia, Italy

13:00–14:00 Lunch Break

14:00–15:00 Poster session 2

15:00–16:00 Mineral exploration and critical minerals 1 – Convenor: Gianluca Fiandaca | EEM Team, Milano Univ.

15:00–15:20 Paul Bedrosian | USGS Airborne Electromagnetics in Support of Critical-Mineral Resource Assessment: The Earth Mapping Resources Initiative
15:20–15:40 Evgeny Karshakov | Geotechnologies AEM for hydrogenic uranium exploration – EQUATOR case study
15:40–16:00 Jean Legault | Geotech Characterizing the geophysical response of a Carlin-style gold deposit using Helicopter NFEM-Magnetics at Hyland Project, Yukon

16:00–16:20 Break

16:20–17:00 New AEM system and survey concepts 1 – Convenor: Evgeny Karshakov | Geotechnologies

16:20–16:40 Aamna Sirohey | Expert Geophysics Heliborne and Drone Natural-Field Airborne EM: Differences, Advantages and Applications
16:40–17:00 Nicklas S. Nyboe | SkyTEM By drone or helicopter – exceptional resolution from a compact and fully airborne TEM system

17:45–22:00 Sunset Dinner, Cibo Chiacchiere e Vino

DAY 3

Wednesday, 9 September 2026

9:00–9:40 Keynote 4 – Convenor: Stephanie James | USGS

09:00–09:40 **Richard Smith** | Laurentian Univ. The story of the development of the GEOTEM and MEGATEM systems

9:40–10:40 Groundwater, Geological and Infrastructure interpretation 3 – Convenor: Stephanie James | USGS

09:40–10:00 **Daniel Juul Okholm** | Central Denmark Region / Aarhus Univ. Utilizing the SkyTEM Diamond system for point-source pollution investigations

10:00–10:20 **Alexander Prikhodko** | Expert Geophysics Airborne mTEM Survey for Geotechnical Characterization Around the Kansanshi Mine, Zambia

10:20–10:40 **Lindsey Heagy** on behalf of Pablo Chang Huang Arias | UBC Airborne Electromagnetic Characterization of Shallow Permafrost in the Canadian Arctic for Infrastructure Challenges

10:40–11:20 Coffee Break

11:20–13:00 Modelling 3 – Convenor: Burke Minsley | USGS

11:20–11:40 **Thomas Hansen** | Aarhus Univ. Fast probabilistic inversion of airborne and ground-based EM data using GPU-accelerated rejection sampling

11:40–12:00 **Xiuyan Ren** | Jilin Univ. 3D Modelling of Superparamagnetic Effect in Airborne Electromagnetics

12:00–12:20 **Devin Cowan** | UBC A 3D finite volume approach for time-domain electromagnetic simulations with thin, highly conductive structures

12:20–12:40 **Anthony Zamperoni** | Zamperoni Geophysics Modelling and inversion of deformable thin-sheet conductors for airborne time-domain electromagnetics

12:40–13:00 **Anders V. Christiansen** | Aarhus Univ. Resolution matrix based depth of investigation incorporating model constraints

13:00–14:20 Lunch Break

14:20–15:00 Industry Safety and Social License to Operate – Convenor: Magdel Combrinck | NRG

14:20–15:00 **Joel Jansen** | Lundin Mining. Safety and Sustainability: How to Get Shlt Done

15:00–16:00 Mineral exploration and critical minerals 2 – Convenor: Magdel Combrinck | NRG

15:00–15:20 **Murat Sahin** | Xcalibur Integrated Airborne Electromagnetic and Magnetic Interpretation for Target Evaluation in a Sediment-Hosted Mineral System, Oman

15:20–15:40 **Stefano Panepinto** | EEM Team, Milano Univ. Geological and Magnetic Constraints for Enhanced AEM-IP Inversion for Mineral Exploration

15:40–16:00 **Alessandro Signora** | BRGM Investigating the former mining site of Abbaretz (France) with the new SkyTEM Diamond and tTEM systems

16:00–16:20 Break

16:20–17:20 New AEM system and survey concepts 2 – Convenor: Muhammad Rizwan Asif | Aarhus Univ.

16:20–16:40 **Xinhao Zhang** | Jilin Univ. A Novel Lightweight, Large Magnetic Moment UAV-Borne Transient Electromagnetic System and Its Field Tests

16:40–17:00 **Ekaterina Tretiakova** | Geotechnologies Nonlinear model for the self-interference compensation in AEM

17:00–17:20 **Nikita Zorin** | Harbin Institute of Technology Drone-borne EM mapping using VLF radio signals

17:20–19:00 Poster session 3 + Aperitif

20:30–23:30 Gala Dinner, Camparia

DAY 4

Thursday, 10 September 2026

9:00–10:40 Modelling 4 – Convenor: Bo Zhang | Jilin Univ.

9:00–9:20	Benjamin Bloss YmerFlow / BlossGeo / AGF	YmerFlow: An open-source browser-based platform for AEM processing, forward modeling, and inversion
9:20–9:40	Maryam Bayat LIAG	Infrastructure-aware inversion for imaging a fault zone with semi-airborne electromagnetics
9:40–10:00	Guro H. Skurdal Emerald Geomod.	Machine-learning prediction of rock quality designation from AEM and geotechnical data in a Himalayan railway tunnel
10:00–10:20	Gerhard Schöning GIA	Inverting for Features: A Hierarchical Latent Framework for Airborne Electromagnetic Inversion
10:20–10:40	Kelin Qu EEM Team, Milano Univ.	3D Total-Field Modelling and Inversion of Grounded-Wire Source TFEM Data with Induced Polarization Effects

10:40–11:20 Coffee Break

11:20–12:20 Mineral exploration and critical minerals 3 – Convenor: James Macnae | CD3D & RMIT

11:20–11:40	Vikas Chand Baranwal NGU	Recent follow-up geophysical surveys after airborne survey for Graphite exploration in Vikeid area, North Norway
11:40–12:00	Marilena Moroni Milano Univ.	Ground IP Follow-Up Targeting for Mineral Exploration Using 3D AEM Modelling in Mountainous Terrain
12:00–12:20	Yunqi Zhu Central South Univ.	Wide-Azimuth Semi-Airborne Electromagnetic Method Using Total Magnetic Field Intensity for 360° Detection

12:20–12:40 Open data & data standards – Convenor: James Macnae | CD3D & RMIT

12:20–12:40	Stephanie James USGS	Cultivating Open Data: Updates to the Geophysical Survey (GS) Data Standard and GSPy Software Tools
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12:40–13:00 Closing ceremony

12:40–13:00	Gianluca Fiandaca & Andrea Viezzoli EEM Team, Milano Univ. & EMergo	Awards and Closing ceremony
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13:30–14:30

Workshop participants' lunch · Camparia

15:00–18:00

Workshops 1 and 2 · Running in parallel

POSTER PRESENTATIONS

EXTENDED ABSTRACTS

Stand	Author Affiliation	Poster title
1	Annika Steuer BGR	Driving Deep Mineral Exploration with Semi-Airborne EM Technologies: The DESMEX Project Suite
2	Markus Schiffler Leibniz IPHT	Three-dimensional inversion of QAMT airborne natural-source electromagnetic data
3	Zihan Huang Jilin Univ.	A Cloud Platform for Joint Time-Frequency Electromagnetic Inversion and Multi-Method Airborne-Related EM Processing
4	Nansong Chang Jilin Univ.	CNN-GRU-Based One-Dimensional Inversion of Airborne Transient Electromagnetic Induction and Polarization Effects
5	Kseniia Antashchuk Geotechnologies	FD Airborne System EM4H: A Tool for Efficient Regional-Scale Geological Mapping and Mineral Exploration
6	Dmitrii Khliustov Geotechnologies	Comparison of Extended and Unscented Kalman Filter Algorithms for Geophysical Inversion
7	Thomas Bager Rasmussen I-GIS	ReDoCO2: High-resolution mapping of lowland soils using drone-based geophysics
8	Vladislav Kaminski Promiseland Exploration	Mobile MT surveys over epithermal gold deposits in central Azerbaijan
9	Vladislav Kaminski Promiseland Exploration	Using advanced hybrid type UAV for semi-airborne TDEM: examples from South Africa and Russia
10	Pierre-Alexandre Reninger BRGM	Trial-and-error approach for noise reduction in AEM data
11	Oscar Ivan Calderon Hernandez Polito	Cumulative Conductance Mapping for the Direct Transformation of TDEM Data into 1D Resistivity Models
12	Kseniia Antashchuk Geotechnologies	Drone-based frequency domain EM sounding system MEMI: 6 years' experience for mineral exploration.
13	Damien Ciolczyk BRGM	Using joint interpretation of AEM and magnetics to draw litho-structural map of basement under volcanic cover
14	Martin Michaelson Aarhus Univ.	Generating Power Line Maps from High-Resolution Aerial Imagery for Automated Detection of Galvanic Coupling in TEM-Data
15	Rod Paterson Intrepid Geophysics	Adaptive AEM Inversion driven by Decay Characteristics and Improved Estimation of Background Resistivity
16	Gregory Paleolog Independent	A New UAV-Based Semi-Airborne EM System for Shallow and Deep Investigations
17	Aleksei Trusov AGP Consulting	A New Natural Field Airborne EM System: AGP-MT
18	Niels-Peter Jensen I-GIS	Managing Geological Knowledge Derived from Airborne Electromagnetic Mapping: The LARCOS Framework for National 3D Geological Models
19	Matthew Griffiths Aarhus Univ.	First application of the Anemone Python Package to Airborne Transient Electromagnetic Data
20	Jian Chen EEM Team, Milano Univ.	On-Time System Response Modeling in 3D AEM-IP Inversion
21	Jian Chen EEM Team, Milano Univ.	Joint inversion of inductive and galvanic data: improved resolution with 3D EM and 2D DCIP
22	Jian Chen EEM Team, Milano Univ.	Array effects in TEM: misplacement of anomaly locations in 1D inversion
23	Jian Chen EEM Team, Milano Univ.	3D Time-lapse AEM Inversion for Monitoring Salinity Dynamics at Bookpurnong
24	Gianluca Fiandaca EEM Team, Milano Univ.	Saltwater-Freshwater interface: direct inversion of Airborne EM data in terms of hydraulic parameters
25	Jean Legault Geotech	Multi-scale imaging with complementary airborne electromagnetic methods: implications for regional groundwater studies

POSTER PRESENTATIONS Short abstracts

Stand	Author Affiliation	Poster title
26	Nengyi Fu Tulsa Univ.	Wukong Drone-Based Transient Electromagnetic System and Accelerated Inversion for Airborne Surveys
27	Yecheng Liu Central South Univ.	Controlled-source Electromagnetic Signal Detection Using a Hybrid Deep Learning Model: Convolutional and Long Short-Term Memory Neural Networks
28	Xiang Wang Jilin Univ.	Suppression of AEM Motion Noise Based on An Improved Dynamic Bandwidth VMD Method
29	Yu Gao Jilin Univ.	3D Joint Inversion of Airborne Electromagnetic and Magnetic Data Based on Multi-scale Structural Similarity
30	Fuying Yang Jilin Univ.	Deep-Operator-Learning-Driven Rapid Targeting for Airborne EM Exploration
31	Siqi Wang Jilin Univ.	Artificial Intelligence Based Airborne Electromagnetic Flight Altitude Reconstruction Technology
32	Chengqian Huang Jilin Univ.	Finite-element method Based on Unstructured Grids for 3D AEM B-field Inversions
33	Vincenzo Sapia INGV	Airborne Electromagnetic Survey for the subsurface characterization of the Einstein Telescope Italian candidate area (Sardinia, Italy): Mapping Fractured Granite and Groundwater Systems
34	Katrin Schwalenberg BGR	Airborne Electromagnetics at BGR: Present Status and Future Directions
35	Benjamin Bloss YmerFlow/BlossGeo/AGF	AEM Mapping of Saline Water for Management of Water Resources
36	Naomi Cretton BRGM	Investigating the Quaternary sedimentary filling of glacial valleys using airborne electromagnetics, northern Pyrenees, France
37	Markus Schiffler Leibniz IPHT	Preliminary results of the UNDERCOVER semi-airborne EM survey at the Juomasuo deposit (Kuusamo Schist Belt, Finland)
38	Kapil Karki Memphis Univ.	Fault Signatures in AEM Inversion: On Interpreting Structural Styles
39	Irina Savinova Geotechnologies	The application of combined airborne electromagnetic surveys for ore targets in the russian far east
40	Leif Cox Technolmaging	Three-dimensional Gramian-Constrained Joint Inversion of Airborne Electromagnetic Data into Conductivity and Chargeability Models
41	Ingelise Møller GEUS	Resistivity-lithology relationships: A tool in geological modelling based on electromagnetic data
42	Manuel Guerra Xcalibur	A Preliminary Multi-Attribute HELITEM Workflow for EM Response Classification and VMS-Oriented Target Screening
43	Philipp Kotowski TU Freiberg	Development of a New UAV-Towed Three-Component Receiver System for Semi-Airborne Electromagnetics
44	Lyndsay Ball USGS	The regional occurrence of closed basin brines in North America's Basin and Range Province: Transforming regional AEM survey results into mappable criteria for lithium assessments.
45	Lyndsay Ball USGS	Guiding the effective application of AEM surveys for United States military installation resource management through the development of an AEM suitability framework
46	Arianna Rapiti Emergo	Country-scale AEM survey for sustainable water management
47	Philipp Kotowski TU Freiberg	Inferring Platform Attitude from UAV Logs: Learning-Based Sensor Fusion Demonstrated on Semi-Airborne Electromagnetics
48	Henry Steinhoff TU Freiberg	Comparison of Deep Learning Architectures for Cross-Sensor Time Series Reconstruction
49	Andrew Sunderland UWA	Uncovering hidden minerals with a towed bird electromagnetic system
50	Kisa Mwakanyamale Gilkie Illinois GS	The Material-Type Characterization Method: Addressing Interpretation Uncertainty in Inverted HTEM Data
51	Andrea Viezzoli Emergo	Integrating surface spectral and subsurface geophysical data for comprehensive resource characterisation of mining residues
52	Alexander Prikhodko Expert Geophysics	Beyond Conductivity: Simultaneous Resistivity and Chargeability Recovery from Airborne Time-Domain EM Data
53	Yinfeng Wang Jilin univ.	A Multiscale Finite Element Method for Accelerating 3D Airborne Electromagnetic Inversion

WORKSHOPS

DAY 4

Thursday, 10 September 2026

13:30–14:30 Workshop participants' lunch · Camparia	
Workshop 1 · Building Data Trees with the Geophysical Survey (GS) Data Standard and GSPy Software Organizers: Stephanie James, Burke Minsley and Leon Foks - U.S. Geological Survey Overview: Hands-on introduction to the GS data standard, netCDF metadata conventions, data-tree structure, GSPy software, example datasets and Jupyter workflows. 15:00–15:40 15:40–16:20	Workshop 2 · Drone AEM Organizers: TEMcompany and The EEM Team Spin-Off company Overview: Drone AEM systems, participant-led QA/QC, processing, inversion & interpretation. 15:00–15:40 15:40–16:20
16:20–16:40 Break	
16:40–17:20 17:20–18:00	16:40–17:20 17:20–18:00

DAY 5

Friday, 11 September 2026

Workshop 3 · EMFlips: a successor to EMFlow plus Local anomaly, IP and SPM fitting and correction Organizers: James Macnae (CD3D & RMIT) Overview: Practical EMFlips workflows for fast laptop processing, detection of excessive spatial filtering, and fitting/correction of IP, SPM and local anomalies. 10:00–10:40 10:40–11:20	Workshop 4 · Hands-on processing, modelling, visualization and integration of AEM data Organizers: Andrea Viezzoli (EMergo), James Reid (Mira Geoscience) and Gianluca Fiandaca (The EEM Team Spin-Off company) Overview: Hands-on processing, inversion, modelling, visualization and integration of AEM data with drillholes, geological surfaces and supporting geoscientific information. 10:00–10:40 10:40–11:20
11:20–11:40 Break	
11:40–12:20 12:20–13:00	11:40–12:20 12:20–13:00
13:30–14:30 Workshop participants' lunch · Camparia	
Workshop 3 · Afternoon session 15:00–15:40 15:40–16:20	Workshop 4 · Afternoon session 15:00–15:40 15:40–16:20
16:20–16:40 Break	
16:40–17:20 17:20–18:00	16:40–17:20 17:20–18:00

AFFILIATION KEY

Standardized full affiliations and abbreviations used in the oral and poster programmes.

Full affiliation	Short affiliation	Country / state
Aarhus University, Denmark	Aarhus Univ.	Denmark
AGP Consulting, Kazakhstan	AGP Consulting	Kazakhstan
AngloGold Ashanti, Australia	AngloGold Ashanti	Australia
Artesia B.V., Netherlands	Artesia	Netherlands
Australian Society of Exploration Geophysicists (ASEG), Australia	ASEG	Australia
Federal Institute for Geosciences and Natural Resources (BGR), Germany	BGR	Germany
BRGM - French Geological Survey, France	BRGM	France
CD3D and RMIT University, Australia	CD3D & RMIT	Australia
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NRG, Canada	NRG	Canada
NRG, South Africa	NRG	South Africa
Office of Groundwater Impact Assessment, Australia	OGIA	Australia
Pioneer Exploration Consultants Ltd., Canada	Pioneer Exploration	Canada
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SkyTEM Australia Pty Ltd, Australia	SkyTEM Australia	Australia
Spectrem Air, South Africa	Spectrem Air	South Africa
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TU Bergakademie Freiberg, Germany	TU Freiberg	Germany
University of Tulsa, United States	Tulsa Univ.	United States
University of British Columbia, Canada	UBC	Canada
U.S. Geological Survey, United States	USGS	United States
California Water Science Center, U.S. Geological Survey, United States	USGS California WSC	United States
University of Western Australia, Australia	UWA	Australia
Viridien, Germany	Viridien	Germany
Viridien, Italy	Viridien	Italy
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Carbon Containment Lab, Yale University, United States	Yale Univ.	United States
YmerFlow, Norway	YmerFlow	Norway
YmerFlow, BlossGeo and AquaGeoFrameworks, United States	YmerFlow / BlossGeo / AGF	United States
Zamperoni Geophysics, Canada	Zamperoni Geophysics	Canada