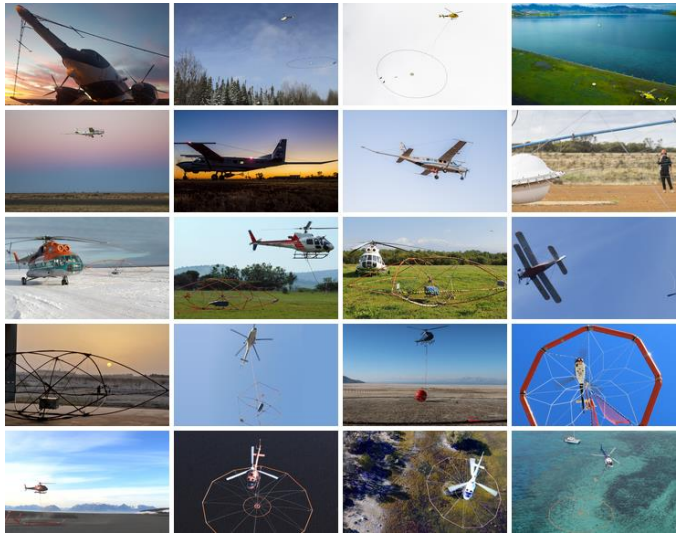
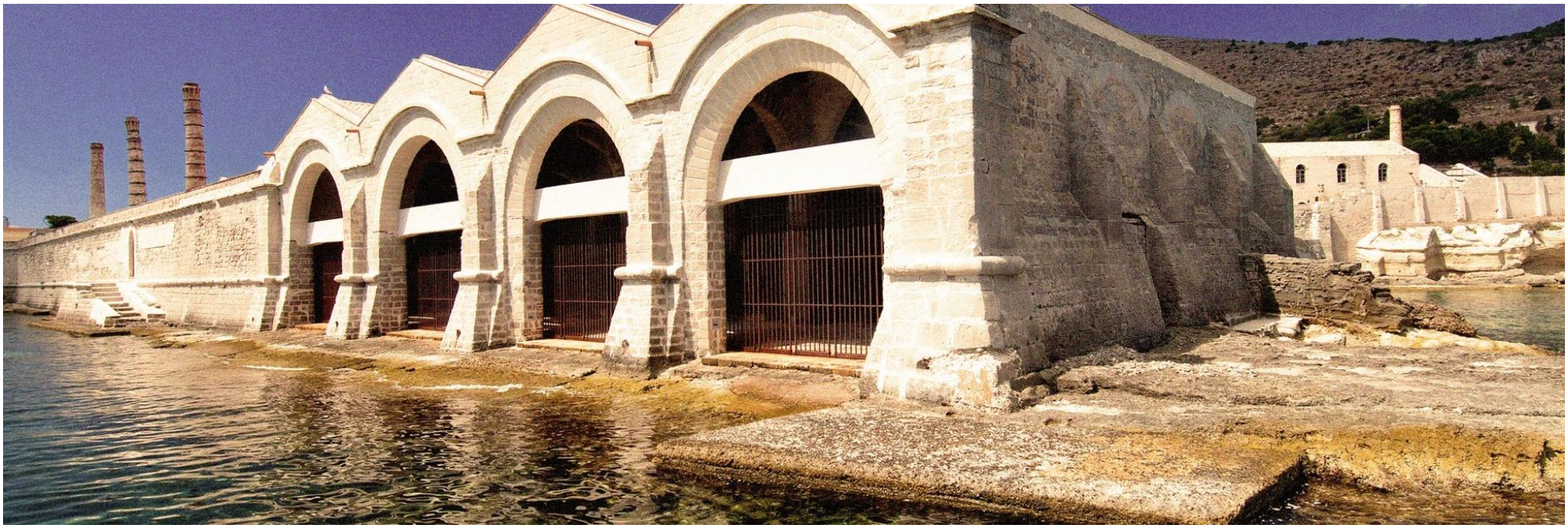
AEM 2026

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

9:00–9:40	**Keynote 1**	
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**	
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**	
11:20–11:40	**Andrea Viezzoli** | EMergo	Further lessons learned in AIP modelling
11:40–12:00	**Francesco Dauti** | EEM Team, Milano Univ.	Airborne Induced Polarization effects in the TEMPEST fixed-wing system
12:00–12:20	**Jim 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**	
14:20–15:00	**Changchun Yin** | Jilin Univ.	Advanced Technologies for three-dimensional Airborne EM inversions
15:00–16:00	**Modelling 1**	
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**	
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 Ciaffarafà** | 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		
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		
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		
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	**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		
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		
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
18:00–22:00 Sunset Dinner, Cibo Chiacchiere e Vino		

DAY 3

Wednesday, 9 September 2026

9:00–9:40 Keynote 4		
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		
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	**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		
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		
14:20–15:00	**Joel Jansen** | Lundin Mining.	Safety and Sustainability: How to Get Sh!t Done
15:00–16:00 Mineral exploration and critical minerals 2		
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		
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		
9:00–9:40	**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	**Ockert Terblanche** | AngloGold Ashanti	3D Total-Field Modelling and Inversion of Grounded-Wire Source TFEM Data with Induced Polarization Effects

10:40–11:20 Coffee Break

11:20–12:40 Mineral exploration and critical minerals 3		
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	**Malcolm Aranha** | HIF	3D prospectivity modelling of Ransko Mafic-Ultramafic Massif for Ni-Cu Sulphide using inverted AEM, potential-fields, and geological-data

12:40–13:00 Open data & data standards		
12:40–13:00	**Stephanie James** | USGS	Cultivating Open Data: Updates to the Geophysical Survey (GS) Data Standard and GSPy Software Tools

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**	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 magnetsim to draw litho-structural map of basement under volcanic cover
14	**Martin Michaelsen** | 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** | TechnoImaging	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

16:20–16:40 Break

16:40–17:20

17:20–18:00

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

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

11:20–11:40 Break

11:40–12:20

12:20–13:00

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

13:30–14:30 Workshop participants' lunch · Camparia

Workshop 3 · Afternoon session

15:00–15:40

15:40–16:20

16:20–16:40 Break

16:40–17:20

17:20–18:00

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

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
Central Denmark Region and Aarhus University, Denmark	**Central Denmark Region / Aarhus Univ.**	Denmark
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Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia	**CSIRO**	Australia
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The EEM Team Spin-Off company s.r.l., Italy	**EEM Team Spin-Off**	Italy
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Emerald Geomodelling, Norway	**Emerald Geomod.**	Norway
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Expert Geophysics Surveys Inc., Canada	**Expert Geophysics**	Canada
Geoscience Australia, Australia	**GA**	Australia
Geotech Ltd., Canada	**Geotech**	Canada
Helmholtz Institute Freiberg for resource technology, Helmholtz-Zentrum Dresden-Rossendorf	**HIF**	Germany
LLC Geotechnologies, Russian Federation	**Geotechnologies**	Russian Federation
Geological Survey of Denmark and Greenland (GEUS), Denmark	**GEUS**	Denmark
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GRM-services Oy Ltd, Finland	**GRM-services**	Finland
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Department of Earth Sciences, University of Milano, Italy	**Milano Univ.**	Italy
NewGen Geo Pty Ltd, Australia	**NewGen Geo**	Australia

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Geological Survey of Norway (NGU), Norway	**NGU**	Norway
Nordic Geoscience Pty Ltd, Australia	**Nordic Geoscience**	Australia
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
Politecnico di Torino, Italy	**Polito**	Italy
Promiseland Exploration Ltd, Canada	**Promiseland Exploration**	Canada
RMG, Canada	**RMG**	Canada
Sander Geophysics Ltd., Canada	**Sander Geophysics**	Canada
SkyTEM, Denmark	**SkyTEM**	Denmark
SkyTEM Australia Pty Ltd, Australia	**SkyTEM Australia**	Australia
Spectrem Air, South Africa	**Spectrem Air**	South Africa
TechnoImaging, LLC, United States	**TechnoImaging**	United States
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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
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