

# EMIW2018 Program: Oral session, BMs, social events

## Monday, 13 August, 2018

12:00 - 17:00	Registration & Poster installation
17:00 - 20:00	Ice-breaker

## Tuesday, 14 August, 2018

08:30 - 09:00		Opening & Welcome
09:00 - 09:45	Review 4 Session 4	<b>Collisional Orogeny in the Scandinavian Caledonides (COSC): The importance of the Alum shale for seismic and EM interpretations of crustal structure</b> Christopher Juhlin
09:45 - 10:00		Poster introductions: S1.0 in Store Scene
10:00 - 11:30		Poster viewing including break in poster hall (HAL 14 / Værftshallerne) Posters S1.0-P101-P128
11:30 - 11:45	S1.0-T104	<b>Current and voltage source induced polarization responses: a general consideration</b> Nikolay Kozhevnikov & Antonov, E.
11:45 - 12:00	S1.0-T111	<b>Improvement in magnetotelluric data processing by two novel pre-stacking data selection criteria</b> Platz, A. & Ute Weckmann
12:00 - 12:15	S1.0-T113	<b>Intrinsic response of a TEM measuring unit as cause of slowly decaying anomalous transients</b> Maxim Sharlov & Kozhevnikov N.
12:15 - 12:30	S1.0-T114	<b>Mapping Induced Electromagnetic Fields across the Continental United States</b> Benjamin S. Murphy & Egbert, G.D.
12:30 - 14:00		Lunch
14:00 - 14:15	S2.3-T203	<b>2D Sparse, meshfree inversion of magnetotelluric data</b> Jan Wittke, Bülent Tezkan
14:15 - 14:30	S2.3-T219	<b>AEM imaging based on deep neural network system</b> JinFeng Li, Liu, Y.H., Yin, C.C., Hui, Z.J., Ren, X.Y., Cai, J.
14:30 - 14:45	S2.3-T233	<b>custEM: an open-source toolbox for customizable finite-element modeling of complex 3D controlled-source electromagnetic data</b> Raphael Rochlitz, Skibbe, N., Günther, T
14:45 - 16:45		Poster viewing including break in poster hall (HAL 14 / Værftshallerne) Posters S2.1-P222-P287, S2.2-P205-P285 & S2.5-P235-P280
16:45 - 17:00	S2.4-T226	<b>Bayesian Joint Inversion of Surface-Towed CSEM and MT data: Quantifying the Resolution Gain</b> Daniel Blatter, Key, K., Ray, A., Gustafson, C.
17:00 - 17:15	S2.4-T238	<b>Electromagnetic imaging of subsurface fluid flow</b> Wenke Wilhelms, Haber, E., Schwarzbach, C.
17:15 - 17:30	S2.4-T257	<b>MT joint inversion of temperature and resistivity in a synthetic geothermal field</b> Alberto Ardid, D. Dempsey, R. A. Archerwilhelms
17:30 - 17:45	S2.3-T261	<b>Probabilistic 2-D inversion of controlled-source electromagnetic data: a CO2 sequestration case.</b> Franco Macchioli Grande, Rosas-Carbajal, M., Zyserman, F.
17:45 - 18:30		Discussions: S1 & S2
18:30 -		WNE (Women's Networking Event); venue TBD

## Wednesday, 15 August, 2018

<b>08:30 - 09:15</b>	<b>Review 1 Session 2</b>	<b>2D/3D model uncertainty and resolution Zhengyong Ren</b>
09:15 - 11:00		<b>Poster viewing including break in poster hall (HAL 14 / Værftshallerne) Posters S2.3-P203-P283 &amp; S2.4-P201-P286</b>
11:00 - 11:15	S2.2-T214	<b>3D modelling and inversion using elongated electric field receivers Cedric Patzer, Tietze, K., Ritter, O.</b>
11:15 - 11:30	S2.2-T217	<b>A Divergence-free Solution Approach for Frequency Domain Electromagnetic Forward and Adjoint Problems Hao Dong, Egbert, G. D.</b>
11:30 - 11:45	S2.2-T230	<b>Considering true layout geometry in magnetotelluric modelling Wolfgang Soyer, W., Miorelli, F., Mackie, R.L.divre</b>
11:45 - 12:00	S2.2-T231	<b>Continental scale magnetotellurics: effects of the Cartesian approximation Qi Han, Anna Kelbert, Xiangyun Hu</b>
12:00 - 12:15	S2.2-T242	<b>Fast direct solver for 3D marine controlled-source EM problems based on sparsity utilization and BLR approximation Amestoy, P. R., de la Kethulle de Ryhove, S., L'Excellent, J.-Y., Moreau, G., Shantsev, Daniil V.</b>
12:15 - 12:30	S2.2-T248	<b>Fractional Helmholtz to Help Detect Fine Scale Features Bart van Bloemen Waanders, Harbir Antil, and Chester Weiss</b>
<b>12:30 - 14:00</b>		<b>Lunch</b>
<b>14:00 - 14:45</b>	<b>Review 2 Session 2</b>	<b>Three dimensional joint inversions of Multi-EM data sets Naser Meqbel</b>
14:45 - 16:30		<b>Poster viewing including break in poster hall (HAL 14 / Værftshallerne) Posters P3.1-P301-316 + P317-P332 + P347-P356</b>
16:30 - 16:45	S3.1-T304	<b>Resistivity Structure of the Meitlar area in the Hengill geothermal field, SW Iceland Ásdís Benediktsdóttir, Árnason, K.</b>
16:45 - 17:00	S3.2-T364	<b>EM-microseismic reservoir monitoring system Sofia Davydycheva, T. Hanstein, M. Smirnov, K. M. Strack</b>
17:00 - 17:15	S3.1-T352	<b>Characterization of intermediate depth reservoirs in complex coastal areas with CSEM method Coppo, N., Darnet, F., Bretaudeau, F., Wawrzyniak, Pierre, Porte, J., Rembert F. Jacob, T., Lamotte, C.</b>
17:15 - 17:30	S3.1-T356	<b>On the application of the controlled source radiomagnetotellurics (CSRMT) for near surface exploration Bülent Tezkan, I. Muttaqien, A. Saraev</b>
17:30 - 18:15		<b>Discussions: S2 &amp; S3</b>
<b>18:15 - 20:00</b>		<b>IAGA Div VI meeting (BM1)</b>

## Thursday, 16 August, 2018

08:00 - 19:00		<b>Excursion</b>
---------------	--	------------------

## Friday, 17 August, 2018

<b>08:30 - 09:15</b>	<b>Review 3 Session 3</b>	<b>The role of global/regional Earth conductivity models in natural geomagnetic hazard mitigation</b> Anna Kelbert
09:15 - 11:00		<b>Poster viewing including break in poster hall (HAL 14 / Værftshallerne)</b> <b>Posters S3.1-P333-P346, P3.2-P357-P371 &amp; P3.3-P372-P380</b>
11:00 - 11:15	S3.1-T329	<b>Magnetotelluric imaging for hydrocarbon exploration in mountainous regions: a case study</b> R. Streich and A. Abhishek
11:15 - 11:30	S3.1-T328	<b>Integrated structural and lithological interpretation of magnetotelluric sounding data versus detailed 3D seismic survey, example from Lublin Basin, Eastern Poland.</b> Michal Stefaniuk, Marek Sada, Joanna Figura, Adam Cygal, Krzysztof Dzwiniel
11:30 - 11:45	S3.1-T334	<b>Integrated interpretation of airborne and ground geophysical data for graphite exploration in Northern Norway</b> Vikas C. Baranwal, Rønning, J.S., Gautneb, H., Larsen, B.E., Ofstad, F., Brønner, M.
11:45 - 12:00	S3.1-T337	<b>The physical-geological model of the LS-epithermal Au-Ag deposit (Chukotka) on the result of AMT data integration</b> Evgenii Ermolin, Ingerov O, Savichev AA, Smirnov M
12:00 - 12:15	S3.1-T339	<b>Finding haystacks: A new approach to mineral exploration</b> Graham Heinson, Kay, B., Robertson, K., Thiel, S
12:15 - 12:30	S3.2-T360	<b>CSEM Signal Frequency Content Due to Geologic Structures, Oilfield Infrastructure, and Subsurface Fluid Movement as Applied to Hydraulic Fracturing</b> Mark S. Hickey, Treviño, S., Vasquez, O., Everett, M. E.
<b>12:30 - 14:00</b>		<b>Lunch</b>
14:00 - 14:15	S3.2-T368	<b>Temporal variation in the resistivity structure of Aso volcano, Japan, over the magmatic eruptions from 2014 to 2015, as inferred by CSEM volcano monitoring system, ACTIVE</b> Takuto Minami, Utsugi, M., Utada, H., Kagiya, T., Inoue, H.
15:15 - 14:30	S3.3-T377	<b>3-D modelling of storm time ground geoelectric field spatio-temporal evolution for the Northeastern United States</b> Elena Ivannikova, Kruglyakov, M., Kuvshinov, A., Rastätter, L., Pulkkinen, A., Ngwira, C., Murphy, B.
14:30 - 14:45	S3.3-T379	<b>Modelling geomagnetically induced electric fields using a 3-D electrical conductivity model and AusLAMP data</b> Liejun Wang, Paskos, G., Duan, J., Lewis, A., Kemp, T., Jones, W.
14:45 - 16:45		<b>Poster viewing including break in poster hall (HAL 14 / Værftshallerne)</b> <b>Posters S4.1-P401-P466</b>
16:45 - 17:00	S4.1-T409	<b>Analysis of magnetotelluric array data from the Central Finnish Lapland</b> Uula Autio, Smirnov, M.Yu., Cherevatova, M., Korja, T.
17:00 - 17:15	S4.1-T411	<b>AusLAMP in Tasmania: The 3D geoelectric structure of Tasmania</b> Thomas Ostensen, Reading, A., Cracknell, M., Thiel, S., Robertson, K.
17:15 - 17:30	S4.1-T425	<b>Electrical resistivity models give evidence for crustal boundaries, a weak lower crust, and an asthenospheric upwelling beneath the Hangai Dome, Mongolia</b> Comeau, M.J., Käufl, J., Becken, M., Kuvshinov, A., Grayver, A., Kamm, J., Batmagnai, E., Demberel, S.
17:30 - 17:45	S4.2_T402	<b>3-D Electrical Resistivity Structure Beneath a Graben with a Focus on Aso Caldera, Southwest Japan Subduction Zone.</b> M. Hata, M. Uyeshima, Y. Tanaka, T. Hashimoto, N. Oshiman, and R. Yoshimura
17:45 - 18:30		<b>Discussions: S3 &amp; S4</b>

## Saturday, 18 August, 2018

<b>08:30 - 09:15</b>	<b>Review 5</b> Session 8	<b>EM Studies in Polar Regions</b> Graham J. Hill
09:15 - 11:00		<b>Poster viewing including break:</b> <b>Posters S4.1-P469-P492 &amp; S4.2-P402-P482</b>
11:00 - 11:15	S4.1-T462	<b>Mapping and characterizing lithosphere discontinuities: examples of southern Australia using AusLAMP MT</b> StephanThiel, Reid, A., Heinson, G., Robertson, K.
11:15 - 11:30	S4.1-T467	<b>New geoelectrical characterization of a continental collision zone in the Central – Eastern Pyrenees: Constraints from 3-D joint inversion of electromagnetic data</b> Joan Campanyà, Ledo, J., Queralt, P., Marcuello, A., Muñoz, J.A., Liesa, M., Jones, A.G.
11:30 - 11:45	S4.2_T428	<b>Evidence for crustal and mantle weak zones controlling intra-plate seismicity associated with the 2017 Botswana earthquake sequence.</b> M. Moorkamp, Fishwick, R.J. Walker, A. G. Jones
11:45 - 12:00	S4.2-T408	<b>Amphibious MT investigations of melt storage beneath Okmok caldera, Alaska</b> Paul A. Bedrosian, Bennington, N., Key, K., Zelenak, G., Chesley, C.
12:00 - 12:15	S4.2-T414	<b>Bi-modal Magma Storage across the Main Ethiopian Rift Zone as imaged by 3-D Magnetotellurics</b> Juliane Huebert, Whaler, K., Fisseha, S., Iddon, F., Hogg, C.
12:15 - 12:30	S4.2-T433	<b>Geothermal inferences drawn from 3D inversion of Magnetotelluric Data recorded from Chamoli region, Uttarakhand, India</b> Anita Devi, Israil, M., Singh, A., Gupta, P.K.
<b>12:30 - 14:00</b>		<b>Lunch</b>
14:00 - 14:15	S4.2-T434	<b>Imaging regional and local electrical structure in central Chile (35 – 36° S) using magnetotellurics: The Laguna del Maule Volcanic Field and its links to regional scale subduction processes</b> Darcy Cordell, Unsworth, M.J., Diaz, D., Reyes-Wagner, V.
14:15 - 14:30	S4.2-T439	<b>Investigating crustal scale fault systems controlling volcanic and hydrothermal fluid processes, using regional scale magnetotelluric and gravimetric signatures in the South-Central Andes</b> Rebecca Pearce, Moorkamp, M., Mitchell, T., Cembrano, J., Araya, J., Yanez, G., Meredith, P., Hammond, J.
14:30 - 14:45	S4.2-T443	<b>Joint MT and seismic imaging of Yellowstone supervolcano - connections between deeper mantle melt sources and shallow hydrothermal expressions from wideband MT array data collected in 2017</b> Adam Schultz, Bennington, N., Bowles-Martinez, E.J.
14:45 - 15:00	S4.3-T436	<b>Imaging the transition from weakly to strongly coupled plate interface at the Hikurangi margin, New Zealand</b> Wiebke Heise, T. Grant Caldwell, Edward A. Bertrand, Stewart L. Bennie, Yasuo Ogawa, Zenshiro Saito, Kaori Seki, Yasuo Matsunaga, Atsushi Suzuki, Takahiro Kishita, Yusuke Kinoshita, Hiroshi Ichihara and Ryokei Yoshimura
15:00 - 15:15		<b>Poster introductions: S6 &amp; S7</b>
15:15 - 16:45		<b>Poster viewing including break</b> <b>Posters S4.3-P413-P484, S6.0-P601-P610, S7.0-P702-P714</b>
16:45 - 17:00	S6.0-T605	<b>Graphitic and Pyritic Black Schist and Black Shale - Conduction Mechanisms in Highly Polarizable Rocks and Their Impact on EM Surveys</b> Jana H. Börner, Girault, F., Kiyari, D., Bhattarai, M., Adhikari, L. B., Rath, V., Perrier, F., Spitzer, K
17:00 - 17:15	S6.0-T607	<b>Study on complex resistivity of artificial sandstone containing conductive mineral under high pressure</b> Gang Tian, Xingong Tang, Kui Xiang, Meiyao Chi
17:15 - 17:30	S6.0-T611	<b>Azimuthal anisotropy in 33 Ma Pacific lithosphere</b> Christine Chesley, Key, K., Constable, S., Behrens, J., MacGregor, L.
17:30 - 18:15		<b>Discussions: S4, S6 &amp; S7</b>
<b>18:15 - 19:30</b>		<b>IAGA Div VI meeting (BM2)</b>

## Sunday, 19 August, 2018

08:30 - 08:45	S5.0-T502	<b>Marine EM on Land: MT Measurements in Mono Lake</b> Steven Constable & Peacock, J
08:45 - 09:00	S5.0-T515	<b>Marine CSEM gas hydrate studies in the Danube Delta, Western Black Sea</b> Katrin Schwalenberg, R. Gehrman, S. Hoelz and T. Zander
09:00 - 09:15	S5.0-T522	<b>3D modeling of marine CSEM using survey decomposition and local meshes</b> Dikun Yang & Key, K.
09:15 - 09:30	S5.0-T525	<b>MARTEMIS – A New EM Tool for the Detection of Buried Seafloor Massive Sulfides</b> Sebastian Hölz, Haroon, A., Reeck, K., Jegen, M.
09:30 - 10:00		<b>Poster introductions: S5 &amp; S8</b>
10:00 - 11:30		<b>Poster viewing including break</b> Posters S5.0-P501-P527, S8.0-P801-810
11:30 - 11:45	S7.0-T701	<b>Can seafloor ocean tidal electromagnetic data provide more constraint on the conductivity of lithosphere and asthenosphere?</b> Huiqian Zhang, Egbert, G.D., Chave, A.D., Huang, Q., Kelbert, A.
11:45 - 12:00	S7.0-T704	<b>EM Induction from Space: The Swarm Satellite Constellation Mission and its Data Products</b> Nils Olsen & the Swarm Satellite Mission Science Team
12:00 - 12:15	S7.0-T711	<b>Probing upper mantle electrical conductivity with solar quiet variations: An approach and results</b> Martina Guzavina, Grayver, A., Kuvshinov, A.
<b>12:15 - 13:30</b>		<b>Closing ceremony</b>
<b>19:00 - 23:00</b>		<b>Workshop Dinner</b>