



Plenary and Parallel Session: Oral Presentation Tuesday 14 July

Plenary Lectures

- 09:00-09:45 **Antarctic Subglacial Exploration: First Results and Future Plans**
Martin Siegert, Grantham Institute for Climate Change & Environment, Imperial College London
- 09:45-10:30 **Modern and Ancient Grounding Zone Systems - Mediators and Indicators of Ice Sheet Dynamics**
Ross Powell, Department of Geology and Environmental Geosciences Northern Illinois University
- 10:30-11:00 **Coffee**

Parallel Session 7: The structure and evolution of the Antarctic continent in light of recent Geophysical and Geological investigations

Conveners: Fausto Ferraccioli, Joachim Jacobs, Detlef Damaske, Doug Wiens

- 11:00-11:20 **Terrane Spotting in East Antarctica: Where is the Kuunga Suture?**
Ian Fitzsimons, Curtin University
- 11:20-11:40 **Geodynamic Evolution of Eastern Dronning Maud Land Based on Research Highlights From an International Geological-Geophysical Approach**
Läufer A., Federal Institute for Geosciences and Natural Resources (BGR)
- 11:40-12:00 **Admap-2: A New International Magnetic Anomaly Compilation Project to Aid Antarctic Geosciences**
Alexander Golynsky, VNIIOkeangeologia
- 12:00-12:20 **Keweenawan and Grenvillian (?) magmatism followed by pan African collision in the recovery frontier of East Antarctica**
Fausto Ferraccioli, NERC \ British Antarctic Survey
- 12:20-12:40 **Gravity gradients at GOCE satellite altitude for lithospheric modelling in Antarctica**
Jörg Ebbing, Kiel University
- 12:40-13:00 **Geology and tectonics of the Lake Vostok Region**
Leitchenkov German, Institute for Geology and Mineral Resources of the World Ocean
- 13:00-14:00 Lunch**
- 14:00-15:30 Poster Presentation**

Parallel Session 10: The structure and evolution of the Antarctic continent in light of recent Geophysical and Geological investigations

Conveners: Fausto Ferraccioli, Joachim Jacobs, Detlef Damaske, Doug Wiens

- 15:30-15:50 **The Extent of the West Antarctic Rift System in The Amundsen Sea and Bellingshausen Sea Sectors**
Gohl, K., Alfred Wegener Institute, Helmholtz-Center for Polar and Marine Research
- 15:50-16:10 **Seismic Stratigraphic Mapping and Evolution of the Ross Island Flexural Basin in Western Antarctica Over the Past ~5 Ma**
Sumant Jha, Colorado State University
- 16:10-16:30 **Recent and Active Deformation in Elephant Island Area Related to the Scotia-Antarctic-South Shetlands Block Triple Junction: Onshore-Offshore Data Integration**
Galindo-Zaldívar, J., University of Granada
- 16:30-16:50 **Geodynamic Evolution of the Scotia Sea (Antarctica), Paleoceanographic Implications and Global Change**
Martos, Y. M., British Antarctic Survey (NERC)
- 16:50-17:10 **Stratigraphy and Tectonics of Indian Ocean? Implications on Movement of Plates in the Region**
K. S. Misra, University of Petroleum and Energy Studies
- 17:10-17:30 **Magnetotelluric study across the Schirmacher Oasis of Central Dronning Maud Land, East Antarctica: Electrical characteristics of the East African-Antarctic Orogen as a possible aid to link Gondwana fragments**
Abdul Azeez K. K., CSIR-National Geophysical Research Institute
- 17:30-17:50 **VLNDEF: An Integrated Geodetic Project and Its Latest Results**
Alessandro Capra, DIEF-University of Modena and Reggio Emilia

Parallel Session 8: ANTPAS - Antarctic Permafrost, Soils and Periglacial Environments

Convener: Goncalo Viera

- 11:00-11:20 **An Evaluation Of Diurnal Temperature Regimes For Three Sites In Dronning Maud Land, Antarctica: Nonshøgda, Vesleskarvet And Robertskollen**
Christel Dorothee Hansen, Rhodes University
- 11:20-11:40 **Rates and Significance of Rock Glacier Deformation in Hurd Peninsula (Livingston Island, Antarctic)**
Vieira G, CEG/IGOT - Universidade de Lisboa
- 11:40-12:00 **Permafrost degradation in a recently deglaciated environment (Elephant Point, Livingston, Antarctica)**
Marc, Institute of Geography and Spatial Planning, University of Lisbon
- 12:00-12:20 **Wind Regimes and Nivo-Eolian Corrasion in Maritime Antarctic (Hurd Peninsula, Livingston Island)**
Mora C, CEG/IGOT - Universidade Lisboa
- 12:20-12:40 **Ice-Wedge Temperature Trends in East Antarctica: A Thermal Puzzle?**
Raffi Rossana, Sapienza University of Rome
- 12:40-13:00 **Surface/subsurface interaction in Lake Bonney in the McMurdo Dry Valleys**
Doran, P.T., Louisiana State University



13:00-14:00 Lunch

14:00-15:30 Poster Presentation

Parallel Session 11: The Rodinian orogeny in East Gondwana- implications for supercontinent evolution

Conveners: N.C. Pant, S. Dasgupta

15:30-15:50 **India- East Antarctica connection re-visited**

Somnath Dasgupta, IISER

15:50-16:10 **Meso-to Early Neoproterozoic Terranes of East Antarctica: A Continuity through Steady Accretion or Random Neighbors through Continental Collisions?**

Mikhalsky, E.V., Institute for Geology and Mineral Resources of the World Ocean (VNIIOkeangeologia)

16:10-16:30 **The ca. 780 ma reworking of the UHT metamorphosed lower crust of the Eastern Ghats belt and its implication for the breakup of Rodinia**

Sankar Bose, Presidency University, Kolkata

16:30-16:50 **Contact relations between the Eastern Ghats Province, the Rengali Province and the Singhbhum cratonic block: implications for Indo-Antarctica correlation in Rodinia**

J.K.Nanda, Geological Survey of India

16:50-17:10 **The C. 1.0 orogeny in the Eastern Ghats province, India? Is it really related to Indo-Antarctica Collision?**

Saibal Gupta, Indian Institute of Technology Kharagpur

17:10-17:30 **Evolution of Mesoproterozoic Kumta and Mercara Suture Zones In Western India: Constraints on India-Madagascar Correlations**

K. Sajeev, Indian Institute of Science

17:30-17:50 **Petrology and U-PB Geochronology of Zircon in A Suite of Charnockitic Gneisses from Parts of the Chotanagpur Granite Gneiss Complex (Cggc), East Indian Shield: Evidence For Reworking of a Mesoproterozoic Basement during the Formation of Rodinia Supercontinent**

Subham Mukherjee, Jadavpur University

17:50-18:10 **Geological studies in Baalsrudfjellet Nunatak between Schirmacher oasis and Wohlthat Mountains to establish the continuation of East African Orogen (EAO) in cDML**

Sandip Roy, Geological Survey of India

Parallel Session 9: Antarctic Meteorite and Micrometeorite

Conveners: Akira Yamaguchi, Philippe Claeys, Jong Ik Lee, Kazuyuki Shiraishi

11:00-11:15 **Korea Expedition and Curation for Antarctic Meteorites**

Lee, J.I., KOPRI

11:15-11:30 **The U.S. Antarctic search for Meteorites (ANSMET): Search Techniques, Collection Procedures, Sample Curation and Distribution Protocols**

James Karner, Case Western Reserve University



- 11:30-11:45 **The Field Surveys and Concentration Mechanism of Meteorites from Grove Mountains, Antarctica**
B. Miao, Guilin University of Technology
- 11:45-12:00 **Successful Joint Field Campaigns for Collecting Meteorites in Antarctica: An Efficient Collaboration between Japan and Belgium**
Debaille V., Université Libre de Bruxelles
- 12:00-12:15 **The collection and studies of Antarctic micrometeorites from Japanese Antarctic Research Expedition**
Naoya Imae, National Institute of Polar Research
- 12:15-12:30 **Micrometeorites from the SØR Rondane Mountains**
Claudio Ventura Bordenca, Vrije Universiteit Brussel
- 12:30-12:45 **Eucrite versus Angrite: micrometeorites as natural forward melting experiments on chondrites**
McKibbin S, Vrije Universiteit Brussel
- 12:45-13:00 **Application of Antarctic Meteorites to Grand Performance Test of the Near Infrared Spectrometer on Board the Hayabusa 2 Spacecraft**
Nakamura T., Tohoku University
- 13:00-14:00 Lunch**
- 14:00-15:30 Poster Presentation**

Parallel Session 12: Past Antarctic ice sheet behaviour and response to external forcing

Convener: Duanne White

- 15:30-15:50 **Variability in Antarctic Precipitation and Future Projections Based on the CMIP5 Models**
Malcolm Tang, National Antarctic Research Centre, University of Malaya
- 15:50-16:10 **Reconstructing the glacial history of the South Orkney Islands, NE Antarctic Peninsula**
William Dickens, British Antarctic Survey
- 16:10-16:30 **Testing the Extent and Timing of Past Glaciations Offshore of the Sub-Antarctic Island of South Georgia**
Alastair G.C. Graham, College of Life and Environmental Sciences, University of Exeter
- 16:30-16:50 **Holocene marine-based ice sheet instability in the Ross Sea**
Rob McKay, Victoria University of Wellington
- 16:50-17:10 **Variability of Antarctic Ice sheets versus Northern ice sheets at Orbital timescales**
Roychowdhury Rajarshi, University of Massachusetts, Amherst
- 17:10-17:30 **Neogene? Quaternary Terrestrial Environmental History in Coastal Eastern Marie Byrd Land Based on Volcanic and Associated Outcrops at MT Murphy**
John Smellie, University of Leicester
- 17:30-17:50 **Bayesian Determination of Thwaites Catchment Internal Age Structure Using Radar Stratigraphy**
Gail Gutowski, University of Texas