



Plenary and Parallel Session Oral Presentation Monday 13 July

Plenary Lectures

- 09:00-09:45 **Opportunities and Challenges in Solid Earth Research in India**
Shailesh Nayak, Govt. of India, Ministry of Earth Sciences
- 09:45-10:30 **SCAR's perspective on Antarctic Earth Sciences**
Jeronimo Lopez-Martinez, President of the Scientific Committee on Antarctic Research
- 10:30-11:00 **Coffee**

Parallel Session 1: Geochronology of Antarctic Orogens

Conveners: V. Ravikant

- 11:00-11:30 **Role of the Nimrod Group, Central Transantarctic Mountains, in the Mawson Continent**
Fanning, C, Mark, Research School of Earth Sciences, Australian National University
- 11:30-11:50 **Geology and Geochronology of Mac Robertson Land and Princess Elizabeth Land (East Antarctica): Successive Archaean to Cambrian Orogens and their Spatial Distribution**
Mikhalsky, E.V., Institute for Geology and Mineral Resources of the World Ocean (VNIIOkeangeologia)
- 11:50-12:10 **Continuous Sedimentation Along The East Gondwana Margin - Implications from Detrital Zircon Ages of Ross-Orogenic Metasedimentary Units of Northern Victoria Land, Antarctica**
Läufer Andreas, Federal Institute for Geosciences and Natural Resources (BGR)
- 12:10-12:30 **An Investigation Of Granitoid Sheets In The Hu Sverdrupfjella, Western Dronning Maud Land, Antarctica**
Burger E. P., Department of Geology, University of Pretoria. Pretoria
- 12:30-12:50 **In situ U-Pb-Hf isotope analyses of the ultra-high temperature metapelite from Mather Peninsula, east Antarctica**
WANG Yanbin, Institute of Geology, Chinese Academy of Geological Sciences
- 12:50-13:10 **On Constraining The Pan-African High-grade Metamorphism Time Of The Larsemann Hills, East Antarctica**
Ren Liudong, Institute of Geology, Chinese Academy of Geological Sciences
- 13:00-14:00 **Lunch**
- 14:00-15:30 **POSTER SESSION**



Parallel Session 4: Exploring Unknown Antarctica

Conveners: Martin Siegert, Don Blankenship, Sun Bo

- 15:30-15:50 **Exploration of Gamburtsev Subglacial Mountains, East Antarctica: Background and Plans for the Near Future**
Pavel Talalay, Polar Research Center, Jilin University
- 15:50-16:10 **An Extensive Basal Drainage System in Princess Elizabeth Land, Antarctica**
Stewart Jamieson, Durham University
- 16:10-16:30 **The polarimetric radar wave and its propagating in anisotropic ice sheet**
Bo Sun, Polar Research Institute of China
- 16:30-16:50 **Rapid Intermediate Sub-Ice Geological Drilling Technology with Air Reverse-Circulation Continual Sampling in Antarctica**
Wang Rusheng, Polar Research Center, Jilin University
- 16:50-17:10 **Late glacial subglacial lake sediments recovered and sampled in Pine Island Bay, Antarctica**
Gerhard Kuhn, Alfred-Wegener-Institut
- 17:10-17:30 **Exploring the Recovery Lakes region, East Antarctica, by airborne gravity, magnetics and radar measurements**
Rene Forsberg, National Space Institute, Technical University of Denmark
- 17:30-17:50 **Radar Internal Layer Stratigraphic Constraints on The East Antarctic Plateau? S Old Ice**
Cavitte M. G. P., UTIG, UT at Austin

Parallel Session 2: Interactions between cryosphere, atmosphere and oceans in coastal Antarctica

Conveners: Thamban Meloth, Kenny Matsuoka

- 11:00-11:30 **Keynote: Evidence of Past Climate and Ice Sheet Response from Near-Coastal Domes in the Weddell Sea Region**
Robert Mulvaney, British Antarctic Survey
- 11:30-11:50 **Trends in winter melt periods and analysis of climatological drivers for glacier mass balance changes of the inland ice cap of King George Island, West Antarctica**
Ulrike Falk, Center for Remote Sensing of Land Surfaces (ZFL)
- 11:50-12:10 **Forecasting Southern Ocean Sea-Ice Variability Using Ocean Sea-Ice Model: A Case Study around Indian Antarctic Stations**
Anurag Kumar, KBCAOS, Allahabad University
- 12:10-12:30 **Recent Anomalous Retreat Of Outlet Glaciers In Wilkes Land, East Antarctica, Linked To Oceanic Forcing**
B.W.J. Miles, University of Durham
- 12:30-12:50 **Ocean-Driven Thinning Enhances Iceberg Calving and Retreat Of Antarctic Ice Shelves**
Sainan Sun, College of Global Change and Earth System Science, Beijing Normal University
- 12:50-13:10 **Instability and Sensitivity of The Amundsen Sea Ice Streams**
Isabel Nias, University of Bristol
- 13:00-14:00 Lunch**



14:00-15:30 POSTER SESSION

Parallel Session 5: Interactions between cryosphere, atmosphere and oceans in coastal Antarctica

Conveners: Thamban Meloth, Kenny Matsuoka

15:30-15:50 **Potential of past and future regime shifts in dynamics of the Dronning Maud Land Ice Shelves**

Kenichi Matsuoka, Norwegian Polar Institute

15:50-16:10 **Recent thickening of the Blåskimen Ice Rise in western Dronning Maud Land**

Vikram Goel, Norwegian Polar Institute

16:10-16:30 **Solar radiation and temperature trends in McMurdo Dry Valleys explained: exploring the role of sulfur dioxide emissions**

Maciej Obryk, Louisiana State University / Portland State University

16:30-16:50 **Controls On a Coastal Marine Ice Sheet Instability Zone Along The Sabrina Coast, East Antarctica**

Greenbaum, J.S., Institute for Geophysics, University of Texas at Austin

16:50-17:10 **An Unparalleled Opportunity To Compare The Marine Sediment Record With A Related Ice Core In Coastal Antarctica: Herbert-Croft Fjord, James Ross Island**

Rebecca Totten Minzoni, Rice University

17:10-17:30 **Moisture and Sea Ice Variability In East Antarctica During The Last Century**

Rahaman Waliur, ESSO-National Centre for Antarctic and Ocean Research

17:30-17:50 **Relation Between of Calcium and Nitrate in Antarctic Snow – Possible Formation Mechanisms and it's Implications**

K. Mahalinganathan, National Centre for Antarctic and Ocean Research

Parallel Session 3: Paleoenviromental changes in Antarctica and Southern Oceans since the Last Glacial Maximum

Conveners: Jimenez-Espejo, F. J. Manoj, M.C. Suganuma, Y.

11:00-11:20 **Antarctic contribution to Meltwater Pulses? A New Deglacial Perspective and implications for future sea-level rise**

Weber M.E., University of Cologne

11:20-11:40 **Vulnerability of The Lambert Glacier-Amery Ice Shelf System During Deglaciation**

Amelia Shevenell, University of South Florida College of Marine Science

11:40-12:00 **Late Quaternary Variability of an East Antarctic Outlet Glacier: Insights from Sedimentary Beryllium-10 in Prydz Channel**

Michelle Guitard, College of Marine Science, University of South Florida

12:00-12:20 **Holocene Behavior of Antarctic Peninsula Glaciers Reveals Vulnerability to Modern Warming**

Rebecca Totten Minzoni, Rice University

12:20-12:40 **Dynamic Response of Antarctica Ice Shelves to Bedrock Uncertainty**

Sainan Sun, Beijing Normal University

12:40-13:00 **The Early-Middle Holocene of Adélie Land (East Antartic Marging): A High Resolution Record From IODP Site U1357**

Jimenez-Espejo F.J, Depart. Biogeochemistry, JAMSTEC, Yokosuka, Japan

13:00-14:00 **Lunch**



14:00-15:30 POSTER SESSION

Parallel Session 6: Key drivers of Antarctic biodiversity through the Cenozoic: the influence of climate, Oceanography and tectonics

Conveners: Rowan Whittle, Claudio A. González-Wevar, Pete Convey

- 15:30-16:00 **Eocene Greenhouse Roots of the Modern Antarctic Marine Fauna**
Alistair Crame, British Antarctic Survey
- 16:00-16:30 **Biological Persistence through Multiple Glacial Cycles in the Antarctic?**
Pete Convey, British Antarctic Survey
- 16:30-16:50 **Impact of Late Cretaceous to Paleogene (~70-64 ma) Climate Change on Antarctic Peninsula Vegetation**
J Francis, British Antarctic Survey
- 16:50-17:10 **Molecular Phylogeny in *Nacella* (Patellogastropoda: Nacellidae) in the Southern Ocean**
Claudio González-Wevar, GAIA-Antártica, Universidad de Magallanes & Instituto de Ecología y Biodiversidad (IEB)
- 17:10-17:30 **The Cenozoic Cooling Effect on the Bivalves from West Antarctica: A Miocene Episode**
Quaglio F, Instituto de Geociências e Ciências Exatas, Universidade Estadual Paulista
- 17:30-17:50 **Next Generation Sequencing of Glacial Ice environmental DNA from North Greenland Ice Core Project**
Ajeeth Adhikari, University of California, Berkeley
- 17:50-18:10 **Complex Marine Invertebrate Recovery In Antarctica after the Cretaceous “Paleogene Mass Extinction**
Rowan Whittle, British Antarctic Survey