



## Plenary and Parallel Session Oral Presentation Wednesday 15 July

### Plenary Lectures

- 09:00-09:45 **Global Climate Change, ENSO and Black Swan Events: A Paleoclimate Perspective from the World's Highest Mountains**  
Lonnie G Thompson, Byrd Polar and Climate Research Center, School of Earth Sciences  
The Ohio State University
- 09:45-10:30 **Himalayan Glaciers: A source of water in North Indian Rivers**  
Anil Kulkarni, Divecha Center for Climate Change, Indian Institute of Science
- 10:30-11:00 **Coffee**

### Parallel Session 13: The Himalaya Cryosphere- Global versus Regional climate forcing

Conveners: Rasik Ravindra, Naresh C Pant, Deepak Srivastava

- 11:00-11:20 **Himalayan glaciers – Climate change and their heterogeneous behavior**  
Deepak Srivastava,
- 11:20-11:40 **Quantifying Annual Mass Balance Gradient (12 Years) And State Of Dokriani Glacier, Central Himalaya, India**  
Bhanu Pratap, Centre for Glaciology, Wadia Institute of Himalayan Geology
- 11:40-12:00 **Monitoring of snow cover variability in Chenab basin using IRS AWiFS sensor**  
B. P. Rathore, SAC (ISRO)
- 12:00-12:20 **Response of Glaciers towards the Changing Climate: A Case Study of Chandra-Bhaga Basin, Western Himalaya, India**  
Farjana Birajdar, Centre of Studies in Resource Engineering, IIT Bombay
- 12:20-12:40 **Velocity and thickness estimation of Siachen Glacier using Optical Remote Sensing data**  
H. S. Gusain, SASE (DRDO)
- 12:00-13:00 **Understanding the Complex Changes in the Himalayan Cryosphere**  
Shakil Ahmad Romshoo, University of Kashmir

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

14:00-15:30 **Poster Presentation**

### Parallel Session 16: The Himalayana Cryosphere- Global versus Regional climate forcing

Conveners: Rasik Ravindra, Naresh C Pant, Deepak Srivastava

- 15:30-15:50 **Regional Climate Modeling over the Himalayas Glacier**  
A. P. Dimri, Jawaharlal Nehru University
- 15:50-16:10 **The Monsoon Induced Aggradations in the Three River Valleys of NW Himalayas During MIS 3 - A Comparative Evaluation on Spatial Variability in the Timing of Deposition**  
Saini, H.S, Geological Survey of India (Rtd)



- 16:10-16:30 **Debris Control on the Glacier Thinning-a Case Study of Batal Glacier, Western Himalaya**  
Lavkush Patel, ESSO-National Center for Antarctica and Ocean Research
- 16:30-16:50 **Records of Late Quaternary Glacial? Interglacial Transitions and Abrupt Holocene Climate Change along Baspa River Valley, North-West Himalaya, India**  
Sharat Dutta, Geological Survey of India
- 16:50-17:10 **Evidence of Formation and Breaching of Two Palaeo Lakes around Leh in Upper Indus Valley during Late Quaternary**  
Naresh C. Pant, Department of Geology, University of Delhi
- 17:20-17:40 **Mass Balances of Chhota Shigri Glacier (Benchmark Glacier, Western Himalaya), India Since 2002**  
A. L. Ramanathan, Jawaharlal Nehru University
- 17:40-18:00 **Snow accumulation and ablation processes in the Himalayas**  
Sarita Tiwari, National Center for Medium Range Weather Forecasting, NOIDA, India
- 18:00-18:20 **Monitoring Accumulation Zone of Glaciers in the Alaknanda River Basin Using IRS-P6, Awifs Satellite Imageries**  
Ashok K. Keshari, Department of Civil Engineering, I.I.T Delhi

## Parallel Session 14: Crustal blocks adjacent to Antarctica- Sri Lanka, Mozambique and Antarctica

Conveners: Geoffrey Grantham, Daniel Dunkley

- 11:00-11:30 **Gondwana Assembly in Sri Lanka and Dronning Maud Land: Constraints from Zambia, Madagascar and Southern India**  
Ian Fitzsimons, Department of Applied Geology
- 11:30-11:50 **Linking high-temperature metamorphism of southern India and Sri Lanka**  
K. Sajeev, Indian Institute of Science
- 11:50-12:10 **Neoproterozoic to Neoproterozoic crustal domains in the Lutzow-Holm Complex, east Antarctica**  
Daniel J. Dunkley, Western Australian School of Mines, Curtin University
- 12:10-12:30 **Neoproterozoic to Cambrian Granitoids of Northern Mozambique and Dronning Maud Land Antarctica: Timing, Genesis and Tectonic Implications for Gondwana Amalgamation**  
G.H. Grantham, University of Johannesburg
- 12:30-12:50 **A Geochemistry Of The Straumsnutane Lavas (Jutulstraumen Group) In Western Dronning Maud Land, Antarctica And The Espungabera Lavas (Mkondo Group) In Central Mozambique: Evidence For Comagmatic And Continental Emplacement**  
Geoffrey Grantham, Council for Geoscience
- 12:50-13:10 **Metamorphic and Isotopic Evidence for the Continuation of the Arabian-Nubian Shield into Antarctica**  
Boger, S.D., The University of Melbourne
- 13:00-14:00 **Lunch**
- 14:00-15:30 **Poster Presentation**

## Parallel Session 17: Large Igneous Provinces in Gondwanaland

Conveners: S. Sensharma, Bryan C. Storey

- 15:30-15:50 **Petrogenesis of the Butcher Ridge Igneous Complex, A Unique Layered Glassy Silicic Intrusion Within The Ferrar Large Igneous Province**  
Demian Nelson, University of California, Santa Barbara
- 15:50-16:10 **Trace of the Mid-Ocean Ridge Basalt (Morb)-Like Component: Evidences from A Tholeiitic Flow of Anjar, Deccan Volcanic Province, India**  
Ray D, Physical Research Laboratory
- 16:10-16:30 **Contemporary Felsic and Orthopyroxene-bearing Basalt and Andesite Volcanism in the Eastern Margin of Rajmahal Basalts (India): Genesis of High-Mg Andesite by Magma Mixing**  
N. C. Ghose, Formerly Department of Geology, Patna University
- 16:30-16:50 **The Links Between Large Igneous Provinces and Environmental Change; Evidence Reviewed from Antarctica**  
Bryan Storey, University of Canterbury
- 16:50-17:10 **Reverse Volcanic Straigraphy In the ~2.5 Ga Dongargarh Large Igneous Province, Central India: Implications for Rift History**  
Sarajit Sensarma, University of Lucknow
- 17:10-17:30 **Tectonic History of the Conrad Rise and Magnetic Anomalies in the Southern Indian Ocean**  
Nogi Y., National Institute of Polar Research
- 17:50-18:10 **The Ferrar Large Igneous Province: Field, Geochemical, and Geochronological Constraints on Emplacement Order of Components of the Magmatic System**  
David H. Elliot, School of Earth Sciences and Byrd Polar Research Center
- 18:00-18:20 **Mantle Melting Mechanisms and Mapping Shallow Magma Chambers in Deccan Volcanic Province and Other Large Igneous Provinces**  
K. Vijaya Kumar, SRTM University

## Parallel Session 15: West Antarctica: Problem Child of Gondwanaland" – A Symposium Highlighting the Contributions of Ian W.D. Dalziel and David H. Elliot to Antarctic Tectonics

Conveners: W. Terry Wilson, Thomas Fleming, Anne Grunow, Bryan Storey

- 11:00-11:30 **Reconstructing Gondwana: A Global Perspective**  
Lawver, L.A., University of Texas at Austin
- 11:30-12:00 **Ian W. D. Dalziel and David H. Elliot: Contributions toward our understanding of the Paleo-Pacific Margin of Gondwanaland**  
Mukasa, S. B., University of New Hampshire
- 12:00-12:20 **Crustal Blocks and Large Igneous Provinces within Gondwana**  
Bryan Storey, Gateway Antarctica, university of Canterbury
- 12:20-12:40 **Eocene Organized Oceanic Spreading during the Initial Development of the Southwestern Scotia Sea (Antarctica)**  
Andrés Maldonado, Instituto Andaluz de Ciencias de la Tierra (CSIC/UGR)
- 12:40-13:00 **South Georgia Microcontinent? Another? Problem Child?: Preliminary results of RVIB Nathaniel B. Palmer cruise NBP1408**  
Ian Dalziel, The University of Texas at Austin



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

**14:00-15:30** Poster Presentation

**Parallel Session 18: Geodynamic evolution of the Dronning Maud Land Mountains**

Conveners: Joachim Jacobs, A. Läufer, S. Elvevold, M. Satish-Kumar, M. Elburg, N.C. Pant

**15:30-16:00** **The geology and geochronology of a Tonian Oceanic Arc Super Terrane (TOAST) in eastern Dronning Maud Land**

Jacobs, J., Department of Earth Science, University of Bergen

**16:00-16:20** **Deglaciation history of Sør Rondane Mountains in Dronning Maud Land, East Antarctica deduced by geomorphology, exposure ages, and GIA modeling**

Yusuke Suganuma, National Institute of Polar Research

**16:20-16:40** **Neoproterozoic 650-550 Ma geologic events at Sør Rondane Mountains, East Antarctica**

Tomokazu Hokada, National Institute of Polar Research

**16:40-17:00** **Pan-African Strike-Slip Tectonics in the SØR Rondane Region, Dronning Maud Land, and Lateral Extrusion of the East African-Antarctic Orogen**

Ruppel A., Federal Institute for Geosciences and Natural Resources (BGR)

**17:00-17:20** **Tectonic Evolution of SØR Rondane Mountains, East Antarctica Based on SR-ND Isotope Geochemistry of Metacarbonate Rocks**

Satish-Kumar, M, Niigata University

**17:20-17:40** **Spatial and Temporal Influences on the Geochemical Signature of Pan-African Magmatism in the SØR Rondane Mountains (East Antarctica)**

Marlina Elburg, University of Johannesburg

**17:40-18:00** **The evolution of an Antarctic landscape at the Weddell Sea margin of Gondwana? An example from the Shackleton Range**

Frank Lisker, University of Bremen