GIANT ORE DEPOSITS DOWN-UNDER

13TH QUADRENNIAL IAGOD SYMPOSIUM | 2010
ADELAIDE | SOUTH AUSTRALIA | 6-9 APRIL

Scientific Program

INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS
1964
IAGOD

Government of South Australia
Primary Industries and Resources SA

PROGRAM

Tuesday 6 April 2010	
2.00pm - 4.00pm	Registration Opens at the Adelaide Convention Centre
2.00pm - 5.00pm	Exhibitor Bump In
5.00pm - 7.00pm	*Welcome Drinks – South Australian Museum*

Wednesday 7 April 2010	
7.30am - 9.00am	Registration
9.00am - 10.30am	**Welcome to Country** **Welcome to Symposium & Official Opening** **Plenary Address One**
10.30am - 11.00am	Morning Tea in Exhibition
11.00am - 12.40pm	**Concurrent Sessions**
12.40pm - 2.40pm	Lunch & Poster Sessions in Exhibition
2.40pm - 4.00pm	**Concurrent Sessions**
4.00pm - 4.30pm	Afternoon Tea in Exhibition
4.30pm - 5.30pm	**Concurrent Sessions**

Thursday 8 April 2010	
8.00am - 9.00am	Registration
9.00am - 10.00am	**Plenary Address One**
10.00am - 10.30am	Morning Tea in Exhibition
10.30am - 12.10pm	**Concurrent Sessions**
12.10pm - 2.00pm	Lunch & Poster Sessions in Exhibition
2.00pm - 3.40pm	**Concurrent Sessions**
3.40pm - 4.00pm	Afternoon Tea in Exhibition
4.00pm - 5.00pm	**Concurrent Sessions**
6.30pm - 10.30pm	*Symposium Dinner – Adelaide Zoo*

Friday 9 April 2010	
8.00am - 9.00am	Registration
9.00am - 10.00am	**Plenary Address One**
10.00am - 10.30am	Morning Tea in Exhibition
10.30am - 12.10pm	**Concurrent Sessions**
12.10pm – 2.00pm	Lunch & Poster Sessions in Exhibition
2.00pm - 3.40pm	**Concurrent Sessions**
3.40pm - 4.00pm	Afternoon Tea in Exhibition
4.00pm - 5.00pm	**Concurrent Sessions**
5.00pm	*Symposium Closing Session*

PROGRAM UPDATES

For program updates please check the IAGOD Symposium website at: www.alloccasionsgroup.com/IAGOD2010

DISCLAIMER

All information is correct at the time of printing. In the event of unforseen circumstances, the Organising Committee reserves the right to delete or alter items in the Symposium Program.

Giant Ore Deposits

Convenors: **Ross Large** (CODES, University of Tasmania) and Lynton Jacques (Geoscience Australia)

Keynote speakers: **Kathy Ehrig** (BHP-Billiton)

'Olympic Dam'

and to be announced

The flagship 'Giant Ore Deposits' session covers giant-sized ore deposits throughout the world, including deposits of all types (e.g. Carlin Au, IOCG, SEDEX, VHMS, magmatic Ni and PGE, porphyry, orogenic Au, epithermal and diamonds). Numerous giant ore deposits 'downunder' will feature in the session (e.g., Olympic Dam, Broken Hill, Mt Isa, Rosebery, Bendigo, Kalgoorlie and Boddington), as well as more recent giant discoveries such as the Merlin Mo-Re deposit, Queensland.

Australian Regions

Each of the following sessions will showcase key mineral deposits in the respective states, new exploration successes and research results

New South Wales

Convenors: **Lindsay Gilligan** (Geological Survey of NSW) and **Ian Plimer** (University of Adelaide)

Keynote speaker: **Lindsay Gilligan** (Geological Survey of NSW) and **RG Barnes** (Geological Survey of New South Wales)

'Evolution of a Mineral Endowment, New South Wales, Australia'

Northern Territory

Convenor: **Ian Scrimgeour** (Director, Geological Survey of the Northern Territory)

David Huston (Geoscience Australia)

'The geodynamic and metallogenic evolution of the North Australia Craton - links to the amalgamation and breakup of Nuna'

Queensland

Convenors: **Nick Oliver** (James Cook University) and **Dave Mason** (Director, Geological Survey of Queensland)

Keynote speaker: **Doug Kirwin** (Ivanhoe Australia)

'Recent Exploration Successes in the Southern Cloncurry region, Eastern Fold Belt, Northwest Queensland'

South Australia

Convenors: **Tim Baker** (Primary Industries and Resources South Australia) and **David Giles** (University of Adelaide)

Keynote speakers: **Martin Fairclough** (PIRSA, Adelaide)

'Metallogeny and Geological Setting of IOCG and Uranium Systems in South Australia'

Jocelyn McPhie (CODES, University of Tasmania) and **Vadim Kamenetsky** (CODES, University of Tasmania)

'Origin of Olympic Dam: Why is it a supergiant?'

Tasmania

Convenors: **Andrew McNeill** and **Jeff Foster** (CODES, University of Tasmania)

Keynote speaker: to be announced

Australian Regions cont...

Victoria

Convenor: **David Phillips** (University of Melbourne)

Keynote speaker: **Christopher Wilson** (University of Melbourne)

'Fault control on gold mineralization in the central Victorian portion of the Lachlan Fold Belt, Australia'

Western Australia

Convenor: **Mark Barley** (University of Western Australia)

Keynote speakers: **John Miller** (University of Western Australia)

'Developments in understanding the location of world-class Archean gold systems'

Mike Nugus (AngloGold Ashanti)

'Gold deposits of the Laverton Greenstone Belt'

World Regions

Each of these sessions will showcase key mineral deposits in the respective geographical regions, new exploration successes and research results

New Zealand, Papua New Guinea and the Pacific Islands

Convenors: **Tony Christie** (GNS, New Zealand)

and **Jeff Mauk** (University of Auckland, New Zealand)

Keynote speaker: **Greg Corbett** (Sydney)

'Pacific Rim Cu-Au'

Southeast Asia

Convenors: **Khin Zaw** (CODES, University of Tasmania)

and **Stuart Smith** (G-Resources)

Keynote Speaker: **Sebastien Meffre** (CODES, University of Tasmania)

'***Tectonic evolution of SE Asia: Progress and Problems***'

China and East Asia

Convenors: **Franco Pirajno** (Geological Survey of Western Australia)

and **Jingweng Mao** (Chinese Academy of Geological Sciences, Beijing)

Keynote speakers: **Prof Ruizhong Hu** (Institute of Geochemistry, Chinese Academy of Sciences, Guiyang)

'***The relationship between uranium mineralisation and lithospheric extension during Cretaceous to Tertiary in South China***'

Jingweng Mao (Chinese Academy of Geological Sciences, Beijing)

'Mesozoic metallogeny of polymetallic deposits (Au, Cu, W, Sn W and Mo) and their corresponding geodynamic setting in East China continent'

Taofa Zhou (School of Resources and Environment Engineering, Hefei University of Technology, China)

'Granites and volcanic rocks in West junggar, Xinjiang, China: Geochronological, geochemical characteristics and their geodynamic and metallogenic significance'

Europe

Convenors: **Nigel Cook** (University of Adelaide / SA Museum) and **Cristiana Ciobanu** (University of Adelaide / SA Museum)

Keynote speakers: **Krister Sundblad** (Turku University, Finland)

'Metallogeny of indium in the Fennoscandian Shield ¨C 100 years of investigations'

Jamie Wilkinson (Imperial College, University of London and CODES, University of Tasmania)

'Irish Zn-Pb: New insights, new discoveries'

World Regions cont...

Russia and Central Asia

Convenors: **Elena Belousova** (Macquarie University, Sydney)
and **Nikolay Goryachev** (Northeastern Institute of Scientific Research, Magadan, Russia)
Keynote speakers: **Kreshimir Malitch** (Russian Geological Research Institute, St. Petersburg)
'Geochronology and Hf-Nd-Sr-Os-S isotope systematics of the Noril'sk-type intrusions: New insights for prolonged evolution and source heterogeneity'
Andy Wilde (Wilde Consulting, Melbourne)
'The giant gold deposit at Muruntau, Uzbekistan: did lightning strike more than once?'

Africa and Madagascar

Convenors: **Bert De Waele** (SRK consulting) and **Vicky Niku-Paalova** (Geological Survey of Namibia)
Keynote speakers: **Cliff D. Taylor** (USGS, Denver, CO, USA)
'The metallogeny and major mineral deposits of Madagascar'
Stuart Bull (CODES, University of Tasmania)
'The central African Copperbelt'

North, Central and South America

Convenors: **David Lentz** (University of New Brunswick), **Paul Spry** (Iowa State University)
and **Eduardo Zappetini** (Instituto de Geología y Recursos Minerales, Buenos Aires, Argentina)
Keynote speaker: **Richard Goldfarb** (USGS, Denver, CO, USA)
Title to be announced

Specific Themes

Gold deposits

Convenor: **David Huston** (Geoscience Australia)
Keynote speakers: **Neil Phillips** (University of Melbourne and Phillipsgold Pty Ltd.) and **Roger Powell** (University of Melbourne)
'Formation of gold deposits in high metamorphic grade terrains'
Greg Corbett (Sydney)
'Anatomy of porphyry Cu-Au and epithermal Au-Ag systems'

Magmatic ore deposits

Convenors: **Steve Barnes** (CSIRO), **Dan Layton-Mathews** (Queens University, Ont., Canada)
and **Reid Keays** (Monash University)
Keynote speaker: **Peter Lightfoot** (Vale-INCO, Canada)
'Advances in Ni-Cu-PGE Sulphide Deposit Models: implications for the origin of the Voisey's Bay Deposits, Canada'

Volcanic-hosted massive sulphide districts (IGCP-502)

Convenors: **Rodney Allen** (Boliden Mineral Exploration Department, Sweden)
and to be announced
Keynote speaker: to be announced

Specific Themes cont...

Fluvial palaeo-systems and onshore basins: evolution and mineral deposits

Convenors: **Baohong Hou** (Primary Industries and Resources South Australia)
and **Harald Dill** (Federal Institute for Geosciences and Natural Resources, Hannover, Germany)
Keynote speaker: **Prof. Ziying Li** (President, CNNC Beijing Research Institute of Uranium Geology)
'Uranium deposits related to Meso-Cenozoic Fluvial Palaeochannel systems in China'

Mineralogy – from exploration to beneficiation

Convenors: **Allan Pring** (SA Museum/ University of Adelaide) and **Peter Williams** (University of Western Sydney)
Keynote speaker: **Roger Smart** (University of South Australia, Adelaide)
'The Critical Role of Surfaces in Minerals Processing'

New geophysical and geochemical exploration techniques

Conveners: **Graham Heinson** (University of Adelaide), **Jeff Foster** (CODES, University of Tasmania)
and **Martin Fairclough** (Primary Industries and Resources SA)
Keynote speakers: to be announced

Uranium resources

Convenors: **Michel Cuney** (Henri Poincaré University, Nancy, France), **David Burrows**
and **Frank Bierlei**n (AREVA, Adelaide)
Keynote speaker: **Kurt Kyser** (Queen's University, Canada)
'Why don't big U deposits always form?'

Present-day mineralising systems

Conveners: **Cornel deRonde** (GNS New Zealand) and **Bruce Gemmell** (University of Tasmania)
Keynote speaker: **Cornel deRonde** (GNS New Zealand)
'Hydrothermal systems of intraoceanic arcs'

Gem deposits

Conveners: **David Phillips** (University of Melbourne),
Lin Sutherland (Australian Museum/University of Western Sydney),
Brendan Laurs (Gemological Institute of America)
and **Khin Zaw** (CODES, University of Tasmania)
Keynote speakers: **Jeff Harris** (University of Glasgow, Scotland)
'***The genesis of diamonds***'
Gaston Giuliani (IRD-CRPG, Nancy, France)
'What makes a giant gem deposit'

GIS and Spatial statistical applications to mineral exploration

Conveners: **Alok Porwal** (University of Western Australia) and **Klaus Gessner** (University of Western Australia) & **Oliver Kreuzer**
Keynote speaker: **John Carranza** (International Institute for Geo-Information Science and Earth Observation, The Netherlands)
'Applications of spatial statistics to mineral exploration: An overview'

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