FUTORES II
Future Understanding of Tectonics, Ores, Resources, Environment and Sustainability

4 - 7 June 2017
Townsville, Queensland, Australia

FIRST CIRCULAR

Conference Themes
▪ David Groves Symposium: New Insights in Mineral Deposit Understanding
▪ New Technologies and Approaches in Mineral Exploration
▪ Tectonics and Metallogenesis
▪ Basins and Energy
▪ Future Trends in the Minerals Industry

Confirmed Speakers
Richard Sillitoe  Steffen Hagemann  Richard Lilly
David Groves  Jeremy Richards  Jeremy Cook
Larry Meinert  Doug Kirwin  Simon Richards
Noel White  Antonio Arribas  Steven Micklethwaite
Richard Goldfarb  Jingwen Mao  Carsten Laukamp
David Leach  Yasushi Watanabe  Allan Collins
David Cooke  Steve Cox  Annette George
Bruce Gemmell  Joel Brugger  Roric Smith
Cornel de Ronde  Vladimir Lisitsin

FUTORES II is supported by:
Welcome

FUTORES II (Future Understanding of Tectonics, Ores, Resources, Environment and Sustainability) will be held in tropical Townsville, Queensland, Australia, 4-7 June 2017. The conference will address issues related to new understanding in mineral deposits, tectonics, basins, and metallogenesis, new technologies and approaches in mineral and energy resources exploration, including the challenge of exploration in areas with cover, and future trends in the resources industry. The FUTORES II conference will have a similar format to the inaugural and highly successful FUTORES conference held in 2013. The Economic Geology Research Centre (EGRU) at James Cook University is proud to host this event and we welcome academic colleagues, industry and government geologists, and students to this inspiring and exciting conference.

Plenary Speaker

Richard Sillitoe: Exploration in and under lithocaps

FUTORES II 2017 Conference Themes

David Groves Symposium: New Insights in Mineral Deposit Understanding

Coordinator: Zhaoshan Chang

With the increasing world population and living standards the demand for mineral and energy resources continues to grow. Further exploration will need to target resources at increasing depths and in areas with cover. Such challenges require improved understanding of mineral systems and better exploration methods. This symposium, in honour of Professor David Groves, will highlight recent developments in the understanding of major types of mineral deposits, and their physical and chemical controls.

David Groves was born in Brighton, England, and migrated to Tasmania where he was educated at Hobart High School and the University of Tasmania, and where he completed a PhD on the giant Mt Bischoff tin deposit under the mentorship of Mike Solomon. After a period with the Geological Survey of Tasmania, where he learned mapping and field skills, David was appointed Lecturer in Economic Geology at the University of Western Australia (UWA) in 1972. In 1987, he was awarded a Personal Chair at UWA and formed the Centre for Strategic Mineral Deposits, which morphed into the Centre for Global Metallogeny, with him as Director, and which became the Centre for Exploration Targeting after his retirement as Emeritus Professor. He had a very successful academic career in terms of highly-cited published papers and book chapters, keynote and invited lectures, and mentorship of many outstanding postgraduate students, being awarded 11 medals and prizes, including the SEG Silver and Penrose Gold Medals and the SGA-Newmont Gold Medal, and being inducted into the Australian Academy of Sciences as a Fellow. Since his retirement from UWA, David has continued to write papers and help students at the China University of Geosciences in Beijing, as well as consult to industry, being involved in the discovery of two gold deposits during greenfields exploration in Tanzania and Ethiopia. Having been told that many of his papers were data-free fiction, David decided to write novels in his old age, with two published and others in the pipeline.

Affirmed Speakers

- Richard Goldfarb (SGA Keynote): Orogenic Au
- David Leach (SGA Keynote): Porphyry deposits
- Larry Meinert: Skarn deposits
- Noel White: Linear structures in epithermal deposits
- Roger Skirrow (tentative): IOCG deposits
- Cornell de Ronde: Modern seafloor systems
- Bruce Gemmill: VHMS deposits
- Jingwen Mao: W-Sn deposits
- Yasushi Watanabi: REE and critical element deposits
- Steffen Hagemann: Fluid pathway modelling
- Steve Cox: Hydrothermal experiments
- Joel Brugger: Remote sensing
- Jeremy Richards: Magma fertility
- Antonio Arribas: Fluid inclusions and CL in BLEG surveys
- Steven Mickethwaite: Structural analysis techniques
- Claudia Lilly: Exploration geochemistry
- Vladimir Listin: Prospектив analysis

Tectonics and Metallogenesis

Coordinators: Eric Roberts and Maree Corkeron

Tectonics and Metallogenesis of Queensland session

Convenor: Paul Donchak

Basins and Energy

Coordinators: Paul Dirks and Carl Spandler

Future delineation and extraction of mineral wealth will rely on a holistic geoscience approach - from deposit to continent scale - that considers lithospheric-scale geological architecture, 4D tectonic evolution and metallogenic processes. The success of future mineral exploration will hinge on our ability to unlock new target areas by exploring under cover or along the ocean floor, and by applying new concepts, many driven by advancements in technology. We invite contributions covering all fields of geology, geophysics and geochemistry with relevance to tectonics and regional metallogeny.

Tectonics and Metallogenesis of Queensland session

Convenor: Paul Donchak

Future Trends in the Minerals Industry

Coordinator: Trevor Shaw

This symposium will address the relationship between tectonics, basins and energy resources. The symposium will span a range of topics that include coal, conventional and unconventional hydrocarbon accumulations, as well as studies focused on basic sedimentology, stratigraphy, palaeontology and structural geology. Emphasis will be placed on Australasian basins, however case studies from around the globe are welcome. In addition, new applications and techniques for basin analysis involving geochronology, geochemistry and other fields will be highlighted.

Confirmed Speakers

- Allan Collins: Tectonic geography and provenance of the Mesoproterozoic petroleum-bearing Roper Group, McArthur Basin
- Annette George: Australian carbonate systems - conventional and unconventional hydrocarbon accumulations

Future Trends in the Minerals Industry

Coordinator: Trevor Shaw

This symposium will include contributions on trends in the minerals industry that will affect the future of exploration, discovery, and the utilisation of resources. Topics could include, but are not limited to: commodities for the future, sovereign risk, education and training, trends in research management and application, and developments in project management.

Confirmed Speaker

- Roric Smith: Exploration strategy and project management

(Photographs courtesy of: Rob Holm; Zhaoshan Chang; Kaylene Camuti; Auctus Minerals; Tourism and Events, Qld)
Abstracts
Abstract submissions via the FUTORES web site from 1st September 2016.
Enquiries: FUTORESAbstracts@jcu.edu.au

Presentations
Oral and Poster

Registration
Registration opens: January 2017
Early bird registration until: 31st March 2017

Workshops and Field Trips
The conference committee invites proposals for short courses and workshops.
Enquiries: FUTORES2@jcu.edu.au

Sponsors
The conference committee invites companies and organisations to support the meeting.
Enquiries: egru@jcu.edu.au

Exhibitors
The conference committee invites companies and organisations to take part as exhibitors.
Enquiries: egru@jcu.edu.au

Conference Host
EGRU (Economic Geology Research Centre)
James Cook University
Townsville QLD 4811 Australia

Conference Organising Committee
Zhaoshan Chang
Judy Botting
Kaylene Camuti
Arianne Ford
Jan Marten Huizenga
Christa Placzek
Eric Roberts
Trevor Shaw
Carl Spandler
Noel White

Conference Venue
Rydges Townsville
23 Palmer St, South Townsville

General Expressions of Interest
FUTORES2@jcu.edu.au

Website
www.jcu.edu.au/futores