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Hong Kong, China
18–21 March 2015

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INVITATION TO REGISTER

On behalf of the organising committee
I am pleased to invite you to PACRIM 2015, which will be held in Hong Kong from 18-21 March 2015 in conjunction with the recently formed AusIMM Hong Kong Branch.

PACRIM 2015 follows a tradition of successful technically-focused meetings which have become the premier AusIMM conference on the Pacific Rim, bringing together the most recent advances in academic research and geological understanding, regional surveys by government agencies and the industry’s latest discoveries and projects that showcase the importance of the Pacific Rim for global mineral wealth and investment.

The program will consist of three full technical days followed by congress-hosted workshops in collaboration with SEG. A number of high-profile plenary keynote speakers have been invited to present at the congress and based on previous events, we anticipate a very high standard of speakers. The program also offers a range of invaluable workshops, together with a number of site visits and excellent networking opportunities.

It’s going to be a great event. We hope you’ll join us to experience it for yourself.

Dale Sims FAusIMM(CP)
Congress Chair, PACRIM 2015

WHO SHOULD ATTEND?
- Exploration, mining and research geologists
- Exploration managers
- Government departments including geological surveys and mines departments
- Resource analysts and professionals involved in financing exploration and mining projects
- Consultants and service providers
- Academia and research organisations
- Affiliated Industry organisations and professional bodies

WHAT ARE THE BENEFITS OF ATTENDING?
- Keep up to date with the latest mineral exploration and research techniques, future projects and key issues
- Engage in valuable discussions with industry stakeholders presenting on key issues
- Connect and network with fellow industry professionals
- Participate in pre- and post-conference workshops and field trips
- Meet key service and instrument providers relevant to mineral exploration

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KEYNOTE SPEAKERS

MAC CANDY
Vice President, Eurasian Exploration, Freeport-McMoRan Exploration Corporation, USA

Mac is currently Vice President of Eurasian Exploration for Freeport-McMoRan Exploration Corporation. He has worked for Freeport and its constituent companies for 27 years, where he has led or otherwise participated in teams making copper and gold ore deposit discoveries in Asia, Europe and the Americas. He is a Fellow and former Vice President – Europe of the Society of Economic Geology, a Fellow of the London Geological Society and a member of the Colorado Scientific Society, the Geological Society of Nevada and the Denver Regional Explorationist’s Society.

CORNEL DE RONDE
Principal Scientist, GNS Science, New Zealand

Cornel is a Principal Scientist at GNS Science. He leads the Offshore Minerals part of the New Zealand E2E program. Since 1997, the research that he and his team do has largely concentrated on seafloor hydrothermal vents associated with submarine arc volcanoes of the Kermadec Arc (~1,300 km), north-east of New Zealand, although their work has taken them to arcs all around the world, including the Mariana, Toba and Aeolian arcs. De Ronde and colleagues at GNS, NOAA, NINA, WHOI and elsewhere have now surveyed ~150 major volcanoes around the world for their seafloor hydrothermal systems and associated mineral deposits.

JEFFREY HEDENQUIST
Principal, Hedenquist Consulting Inc, Canada

Jeffrey conducted research with national institutes in the USA, New Zealand and Japan for 24 years on geothermal energy development, the composition of volcanic discharges and epithermal and porphyry deposits of the circum-Pacific region. Since 1999, he has been based in Ottawa as an independent consultant to the mineral resources industry and numerous agencies worldwide. He has received several recognitions for his landmark publications and training efforts, the latter in part while affiliated with four universities. In 2010, he was President of the Society of Economic Geologists.

LARRY MEINERT
Head of the Mineral Resources Program, US Geological Survey, USA

Larry is head of the Mineral Resources Program at the US Geological Survey, where he is responsible for leading the research, assessment and information-gathering functions of more than 300 scientists. Previously, he had a successful academic career spanning three different universities, where he managed research laboratories and advised dozens of postdoctoral students. He has several recognitions for his landmark publications and training efforts, the latter in part while affiliated with four universities. In 2010, he was President of the Society of Economic Geologists.

FRANCO PIRAJNO
Adjunct Professor at Centre for Exploration Targeting, University of Western Australia

Franco, a mineral systems geoscientist in the Geological Survey of Western Australia, has considerable experience in tectonic, ore deposit geology and mineral exploration in Europe, southern Africa, South East Asia, New Zealand, the southwest Pacific, China, Greenland, southern and eastern Siberia and Australia. In the last 20 years Franco has worked extensively in Western Australia’s Proterozoic terrains and was instrumental in the discovery of a new large igneous province in Australia. He has been visiting Professor at Peking University in 2003 and China University of Geosciences, Beijing in 2004, and on the Steering Committee of the Large Igneous Provinces Working Group.

RICHARD SILLITOE
Managing Director, MinEx Consulting and Adjunct Professor at the University of Western Australia

Richard has experience in a wide variety of project analysis, business development and strategic planning roles within the international resources industry – including 15 years at WMC and, more recently, four years at BHP Billiton. In 2008, Richard founded MinEx Consulting to provide strategic and economic advice to industry and government. His main focus is on the economics of mineral exploration. Richard has published several dozen papers on exploration performance and is internationally recognized by peers as a world leader in mineral economics. He serves on the Editorial Board of the Journal of Resources Policy and the organising committees for the AusIMM and the Melbourne Mining Club, and is also a member of SEG and the SME, and an Adjunct Professor at the Centre for Exploration Targeting at UWA.

RICHARD SCHODDE
Managing Director, AusIMM Consulting and Adjunct Professor at the University of Western Australia

Richard has operated for more than 40 years as an independent consultant to mining companies, international agencies and foreign governments. He has worked on a wide variety of mineral deposits and prospects in nearly 100 countries worldwide, but focuses on the epithermal gold and porphyry copper environments. Published research has earned him awards in Europe, Australia and North and South America, including the Silver Medal of the Society of Economic Geologists, of which he was President from 1999–2000.

LARRY MEINERT
Managing Director, MinEx Consulting and Adjunct Professor, Cornell University

Larry has been a senior geoscientist at the US Geological Survey for over 20 years, and has been involved in a wide variety of projects related to mineral exploration and geoscientific research for over 20 companies. He has been a member of the SME, SEG and the WGC, and has served on the editorial boards of the Journal of Geology, the Geological Society of America Bulletin and the Economic Geology.

JEFFREY HEDENQUIST
Adjunct Professor, Hedenquist Consulting Inc, Canada

Jeffrey has been an active researcher for over 30 years, working on a wide variety of projects related to mineral exploration and geoscientific research. He has been a member of the SME, SEG and the WGC, and has served on the editorial boards of the Journal of Geology, the Geological Society of America Bulletin and the Economic Geology.

RICHARD SCHODDE
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JOHN THOMPSON
Consultant, PetraScience Consultants and Professor, Cornell University, USA

In 1982, John joined the BP Minerals group (Rio Tinto) initially in Australia, followed by positions in the UK and Salt Lake, USA. In 1991, John became director of the Mineral Deposit Research Unit at the University of British Columbia, managing exploration-related research for over 20 companies. He returned to industry in 1998 as Chief Geoscientist for Teck, and then Vice President Technology and Development. In the latter role, he managed technology and innovation programs and was involved in corporate development including resource and technology-related transactions. He left Teck in 2012 and is now Principal, PetraScience Consultants, an exploration, development and technology consultancy, and is also the Wold Professor of Environmental Balance for Human Sustainability at Cornell University.

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and 2 million ounces of silver

Annual production target 250,000 ounces of gold

1,515,228 oz of silver

First year full production: 281,477 oz of gold and 1,515,228 oz of silver

GROWTH IN CONFIDENCE AND QUALITY

WGC All-In Sustaining Cost: $700-$800/oz

WGC Adjusting Operating Cost: $450-$550/oz

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Strategic Drivers

GROWTH IN CONFIDENCE AND QUALITY

WGC All-In Sustaining Cost: $700-$800/oz

WGC Adjusting Operating Cost: $450-$550/oz

LOW GOLD COST PRODUCER 2014 FORECASTS

Strategic Drivers

OUTSTANDING QUALITY OF DEPOSITS

Resources: 8.1 Moz of gold and 73.8 Moz of silver
Reserves: 3 Moz of gold and 31.9 Moz of silver

GROWTH IN CONFIDENCE AND QUALITY

LOW GOLD COST PRODUCER 2014 FORECASTS

Strategic Drivers

SUSTAINABLE STAKEHOLDERS ENGAGEMENT

A State-owned Enterprise managed by the North Sumatra province and South Tapanuli regency holds 5% of Martabe Gold Mine’s shares
2,500 employees, more than 97% Indonesian

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Exploration and Mining Investment

**Business**

Technical Considerations for Initial Public Offerings and Ongoing Compliance — M Berry, P Stoker, S Stephenson, C Arnold and G Mosher

Challenges in Maximising the Value from Epithermal Gold Deposits — D Buyley, S Kanaoka, R Chester, E Gleeson and P Allen

Resource Nationalism — A New or Renewed Sovereign Risk? — C Roberts

Setting For Success — Private Equity Exploration and Mining Project Buy-in to Listing and Divestment — P Stoker, P Allen and A Knogh

A Technical Framework to Assist Miners Explorers Facing an Uncertain Future, with Historic Case Studies of Radical Industry Change from the Pacific Rim — J Sykes, J Vann and A Trench


**Governance**

Due Diligence in Mining Investment — A Spotlight on Unearthing Common A Koog, P Stoker and M Thomas

Introducing the Indonesian Metallogenic Map 2013 — L D Setijadji

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Exploration Success at the Maritabe Gold Mine — S Crispin, J Hertijaya and P Albert

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Disparately Tectonic Settings for Mineralisation in an Active Arc, Eastern Papua New Guinea and Solomon Islands — R J Ho, S W Richards, G Rosenbaum and C Spandler

Timing and Geostrategic Setting of the Late Palaeozoic Polyetalnic Mineralisation in China — R J Ho, J Guo, J Zhu, C Li, L Li, R Li, J Liu and J Tan

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The Diaye Iron Deposit, East China — The Possible Missing Link Between the Kirung En-suite and the Archean Ferrar Ores — G Niu, J Hu, L Dientz and Z Duan

Northern Baikal Region Ni-Cu Deposits — E Kisluk

A Giant Porphyry-related Mo-Pb-Zn-Ag Metallogenic System in the Fuden Ore Field, Southern North China Craton — Constraints from U-Pb, Re-Os and Zircon Geochronology and its Lead Isotope Analysis Lead isotope — Z-K Li, J-J Li and X-F Zhao

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High-Sulfidation Epithermal Cu-Au Deposit, Xikewa, Eastern Java, Indonesia — Alteration and Implications for Potential Porphyry Cu Mineralization — J-S L Chan and B-W Yang

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The Gosowong Goldfield — A World Class Epithermal Gold-Silver District in Indonesia — N Ichii, F C Masucookig, D Wardman


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Yangtze River, China — A LA-ICP-MS Study of Fluid Inclusions — W L Li, A Audetel and J Zhan

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Modern Seafloor Massive Sulfdte

Hydrothermal Discharge on Submarine Spreading Ridges — More Common Than Thought — C J Moodie, G T Baker, A J Cotts, C J Winters, D S Patten, X-R Feng and B Gemmell

Hydrothermal Alteration in Active Seafloor Hydrothermal Systems in the Okinawa Trough — J J Hobbs and Y Miyoshi
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PRELIMINARY LIST OF ABSTRACTS

Orogenic Gold of the Pacific Rim
Disseminated and Invisible Gold in the Globe Progress Orogenic Gold Deposit, Reefton Goldfield, South Island, New Zealand — P Duranage and A Christie

Orogenic Gold Deposits Through Time — A Two-stage Process — R Large

Secular Gold Mineralization in the Xiong’ershan District, Southern North China Craton — Products of the Trassic Orogenic Deformation and the Cretaceous Cratonic Destruction — J-W Li

Geochronology and Mineralogy of North Kostobe Sedimentary-hosted gold Deposit, Eastern Kazakhstan — K H Wong and M-F Zhou

Porphyry-style Mineralisation
in the Ertsberg Mining District — Papua, Indonesia — G De Jong, W Sunyoto and M Cloos

High-resolution X-ray-computed Tomography Studies of Gold in Porphyry-skarn Copper-gold deposits — R Kyle and K Ketcham

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High-grade Copper-gold Mineralisation in North-west Ecuador — The Añapa Cu-Au Porphyry Discovery — R Rohrach, O Poma, B Rosero, J Silva and J Ward

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Iron Isotope Fractionation in Magmatic-hydrothermal Minerals — A Porphyry Copper Case Study — C M Wawryk and J D Foden

Early Cretaceous Granitoids and Mineralisation of the Aershan and Yili Porphyry Mo Deposits in the Great Xing’an Range — Implications for the Geodynamic Evolution of North-eastern China — C Wu, C Liu, H Zhang, Y Zuo and M Li

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The Evolution of Prograde Skarn at Yemaquan Iron-Zinc Deposit, Qimantage, Eastern Kunlun — P Zuo, J Hao, S Ge and R Zhao

Volcanogenic Massive Sulfide Deposits

Secular Variations in the Abundance and Characteristics of Volcanogenic Massive Sulfide Deposits — Implications for Evolution of Convergent Tectonics and Ocean Geochemistry — D Huston, B Eglington, S Petrukson and S Piercy

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Improving Post Discovery Definition of Resources — C De-Vierry

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The Cali-silicate-hosted Watershed Tungsten Deposit, Far-north Queensland, Australia — M Gressmann and J Williamson

Stratigraphy of the Thomson Dolerite — New Insights from Mt. McLaren, North-east Australia — M Lee, C Verdier and A Oorloff

New Zealand

Exploration for Epithermal Gold Deposits in New Zealand — A B Christie and R G Barker

Technic, Severance of Links Between Placer Gold and its Sources, Southern New Zealand — D Craw and P Upton

A Resource Profile of Orogenic’s Macraes Gold Mine — J Moore and S Doyle

Technic and Magnmatic Influences on the Goldbocks Zone — Insights Into Controls on Ore Grade Epithermal Mineralisation from Northern New Zealand — J Rowland, S Barker, S Smii Palinka, S F Simmons, M Sampson, C J N Wilson and M Zouman

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A New Model for the Intrusive Sequence and Skarn Formation at the Antamina Deposit, Peru — S Mounie, Z Chang and L Menenti

The Mabilo Copper-Gold-Iron Deposit — A New Skarn Discovery in the Philippines — N Reyno, B Ayres, R Mclean and G Maude

Skarn Alteration and Mineralization in the South-east Cu-Au Prospect, Papua, Indonesia — U F T Rumbia, C A Leys and B Rynoos

The Origin of Baistrus-type REE Mineralisations — Insights from O and C Stable Isotope Systematics — F Sahistrim, E Jonsson, K Higdaft, C Harris, V R Troll and E M Joly

E Elaine Dorothy Cu-Au (REE-U) Skarn Deposit — P Sha, C Spandler and Z Chang

Laser Ablation ICP-MS Study on Fluid Inclusions of the Bajinyoue Skarn Zn-Pb Deposit, North-east China — G Shi, J Hammerli, Z Chang, Y Lai and J-M Haizheng

Geology, Chronology and Isotope Geochemistry in the Large Yeojiling Zinc-Gold Deposit, Tongling Ore District, Anhui Province, China — G X Zhong, Y P Zhou and Z S Chang

The Evaluation of Prograde Skarn at Yemaquan Iron-Zinc Deposit, Qimantage, Eastern Kunlun — P Zuo, J Hao, S Ge and R Zhao

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### Preliminary List of Abstracts

**Fluid Inclusion and Isotopic Constraints on the Mineralisation of the Shagou Ag-Pb-Zn Deposit, Luoning, Henan Province, China — J. Han, J. Yao and A. Chernykh**

A magmatic-hydrothermal origin of Gold Deposits from the Xihe-Hezuo Area, West Qinling Orogen, Western China — J.-W. Li


Discovery and Geochemical Significance of Volcanic Intrusions of Hongqi Formation in Xi Ujimqin Banner, Inner Mongolia — C. Liu, Y. Zhang, Z. Zhou, Y. Qiu and X. Wang

**Inclusion Studies of the Huangyan Pb-Zn Deposit, Eastern Tianshan, Xinjiang — W. Lu, L. Zhang and H. Chen**

Mineralisation and Alteration of the Yandong Porphyry Cu Deposit — J. Wu, J. Liu and C. Liu

**Geochemistry, Geochronology and Geodynamic Setting — Late Mesozoic Molybdenum Mineralisation in Hainan Island, South China — X.-F. Zhao, L.-P. Zeng and J.-W. Li**

**Hydrothermal Alteration and Mineralisation Characterisation of Deep Cr and REE Mobility by Na-bearing High-temperature Hydrothermal Solution — An Example from Mantle Diopsidite and Crustal Diopsidite**

Mineralization and Re-Os Geochronology of Penjom Gold Mine, Pahang, Malaysia — H. Li

Mineralisation and Alteration of the Sam Lan Copper-Gold Deposit, Lao PDR — P. Leaman, B. Tucker and K. Logan

**Tectonic evolution of Loei and Sukhothai Fold Belts – Implications for Gold Mineralisation in Mainland South-east Asia — S. Khotisanont and K. Zaw**

**Mineralisation and Petrography Analysis on Granitoids — Structural Controls on Gold Mineralisation in South-eastern Truong Son Fold-thrust Belt and its Significance to Regional Metallogeny — T. X. Le, K. Zaw and T. Manaka**

**Style of Veins in Penjom Gold Mine, Malaysia – Implications on Gold Mineralisation Episode and Structural Episode — Z. Endut, T. F. Ng, H. I. Basori, T. F. Ng, S. T. Konopa, R. W. Lewis, R. Logan, C. Szeiler and P. T. Stower**

**Notes:**

- All attendees receive a full participants list to enhance your networking base.
- A selection of conference proceedings, monographs and technical publications will be available to purchase at this conference.
- Members of The AusIMM receive a significant discount on the conference and its related activities. This discount is generally above the cost of an individual’s annual membership subscription.
- Non-members of The AusIMM receive a great offer relating to AusIMM membership. It is a requirement of AusIMM membership that attendance is at the discretion of the site. Final itinerary details will be made available two weeks prior to the congress.

### Congress Technical Tours

**T1: Geology of the North-east New Territories Region of the Hong Kong Geopark**

**Sunday 22 March 2015**

The North-east New Territories Region of the Hong Kong Geopark is characterised by a variety of sedimentary rocks of Late Palaeozoic, Mesozoic and Cenozoic age. The region includes the oldest rocks, as well as the youngest rocks exposed in Hong Kong. Many of these strata are exposed along the shores of Tolo Channel, around Double Haven and in Minsi Bay. The tour will include a boat trip down Tolo Channel, a bekanntu of ancient trampolines and island waters of Double Haven with two major stops to examine the coastal geology, separated by a seafood lunch at a traditional fishing village. The coastal stops will include examination of soft sedimentary structure and deformation structures in a sequence of Jurassic volcanoclastic rocks, and a visit to a Cretaceous sedimentary breccia sequence which forms a spectacular sea arch.

**Cost:** HKD 559

**Time:** 8.00 am – 5.00 pm

**Numbers:** Minimum 24 – Maximum 48

**Pick up point:** Conrad Hotel, One Pacific Place

**Includes:**
- Buffet lunch
- Return transfers from the Conrad Hotel and seafood buffet lunch

**Notes:**
- A subtropical humid monsoon climate, possible light rain and mild sunshine, temperature approx 20°C with cooler nights.
- All bookings are subject to site approval and attendance is at the discretion of the site. Final itinerary details will be made available two weeks prior to the congress.

**T2: Danxiashan Exploration Geo-Tour**

**Sunday 22 March — Tuesday 24 March 2015**

Danxiashan is located in the north of Guangdong and is recognized as one of the Global Geoparks in China. The Danxia Mountain is formed from a reddish sandstone and conglomerate and noted as “Danxia”landform, which is well recognized in the geology internationally. This tour will visit the Zhangzuo Peak (Elder Peak) with the Sunrise view and Yangshan Rock (Male Rock) and will include two boat rides in Xianglong Lake and the Jin River. Experience the collaboration of local heritage, religious culture and the geological landscape – ideal for accompanying persons.

**Cost:** HKD 4103

**Time:**
- 6.00 am on 22 March 2015 – 7.00 pm on 24 March 2015

**Numbers:** Minimum 10 – Maximum 20

**Pick up and drop off point:** 88 Queensway, Hong Kong

**Includes:**
- The price includes all transfers, meals and 2 nights’ accommodation at Hong Jun Wen Hot Springs Hotel (4 stars), entrance and activity fees.

**Additional Information:**
- A subtropical humid monsoon climate, possible light rain and mild sunshine, temperature approx 20°C with cooler nights.
- All bookings are subject to site approval and attendance is at the discretion of the site. Final itinerary details will be made available two weeks prior to the congress.

**T3: Exploration Geo-Tour of Sai Kung South-east Volcanic Rock Region**

**Tuesday 17 March 2015**

The geo tour to the Sai Kung south-east volcanic rock region of Hong Kong geopark is suggested for those who would like to explore the coastal geological landscapes with hexagonal volcanic rock columns. The volcanic rock with columnar joints found in the High Island region is a type of acidic rhyolite foidal rhyolitic pyroclastic lava. It is a rich in potash feldspar and quartz phenocrysts and at around 400 metres thick, these rocks are known as High Island Formation. They am part of the Early Cretaceous Kau Sai Chau Volcanic Group. Most outcropped strata of Sharp Island belong to Mesozoic volcanicioclastic volcanic Cleawyer Bay Formation, a formation composed primarily of flow-banded porphyritic rhyolite lava, rhyolite breccia and eutatic tuff. The Clearwater Bay Formation is part of the Kau Sai Chau Volcanic Group, a rock body of its kind in the territory. It is marked by features of volcanic activities in Hong Kong during the final stage of the Mesozoic Era also found on Sharp Island, just below Clearwater Bay. The tour includes all transfers, seafood buffet lunch, entrance and activity fees.

**Cost:** HKD 559

**Time:** 8.00 am – 6.00 pm

**Numbers:** Minimum 24 – Maximum 48

**Pick up point:** Conrad Hotel, One Pacific Place, 88 Queensway, Hong Kong

**Includes:**
- The price includes all transfers, seafood buffet lunch, entrance and activity fees.

**Additional Information:**
- A subtropical humid monsoon climate, possible light rain and mild sunshine, temperature approx 20°C with cooler nights.

**Notes:**
- All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.
CONGRESS TECHNICAL TOURS

T4: The Panzhihua Fe-Ti-V deposit and the Lala Fe-Cu deposit, Sichuan Province, South-West China

Sunday 22 March – Thursday 26 March 2015

The tour will visit the Panzhihua Fe-Ti-V deposit and the Lala Fe-Cu deposits in Sichuan Province, South-West China. The Panzhihua deposit is one of the largest magmatic Fe-Ti-V oxide deposits in the world, containing 1.333 Mt with an average grade of 43% Fe, 11.7% Ti and 0.3% V. The Lala deposit is a giant hydrothermal Fe-Cu deposit in the Kangdian (KCG) province, containing 200 Mt with an average grade of 13% Fe and 0.92% Cu, associated with Mo, Cu, LREE and Au. The tour covers 4-5 days including travel time.

Cost: HKD 7400

Numbers: Minimum 10 – Maximum 20

Start and finish point: Hong Kong International Airport

Includes: The price includes return airfares from Hong Kong to Kunming, all meals and 4 nights’ accommodation.

Additional Information: The temperature in March is usually mild in Panzhihua but can be cooler in the evening. Minimum type of footwear, safety vest or hard hat will be provided by the participant or will be supplied at the site.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Ma Yuxiao, Mei-Fu Zhou and Wei Terry Chen

Tour Conclude: Jinlusheng Xiaozhen Hotel, #88 Baoshannan Road, Nanming District, Guiyang, Guizhou

Tour Start: Guiyang Longdongbao Airport

T5: China’s Carlin-like Golden Triangle

Sunday 22 March – Tuesday 24 March 2015

Jinfeng (Lannigou) and Shulyinting gold mines (deposits) are the largest of the ‘Carlin-like’ deposits within China’s Golden Triangle. The tour will include visits to Eldorado Gold’s Jinfeng and Zijin’s Shulyinting operations, as well as updates on the geology and mineralization and plant facilities.

Cost: HKD 3450

Numbers: Minimum 5 – Maximum 15

Tour Start: Guiyang Longdongbao Airport

Tour Conclude: Jinlusheng Xiaozhen Hotel, #88 Baoshannan Road, Nanming District, Guiyang, Guizhou

Includes: The price includes and 2 nights’ accommodation at Qifeng Hotel at Shuangjufeng (Bread Hill), Jinfeng county.

Additional Information: Footwear, safety vest and hard hat will be provided on site at Jinfeng mine, and can be borrowed to be used at Zijin mine and returned to Jinfeng mine’s office in Jinfeng county town.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Prof. Yong Xu, Institute of Geochemistry, Chinese Academy of Sciences Xingchun Zhang, Institute of Geochemistry, Chinese Academy of Sciences

Please note: Flights from Hong Kong to Guiyang on 22 March 2015 and overnight accommodation in Guiyang on 24 March 2015 are not included and must be arranged by the tour attendee.

Tour Conclude: Xinleng Holiday Hotel, Nanchang City

Includes: The price includes, transfers, meals, 2 nights’ accommodation at Xinleng Hotel, Nanchang City and 1 nights’ accommodation at Xinleng Hotel, Nanchang City.

Additional Information: Comfortable hiking boots and outdoor clothing are recommended.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Xinling Wei, Chief Geoscientist, Jiangxi Nonferrous Metal Geological Exploration Bureau Xiaofeng Li, Institute of Geology and Geophysics, Chinese Academy of Sciences

T6: Porphyry Cu and Orogenic Au Deposits in Dexing District, North-East Jiangxi, South China

Saturday 21 March – Monday 23 March 2015

This tour is a unique opportunity to visit three very different mineral deposits, all within a short distance. These are Dexing porphyry Cu-Mo-Au deposits, Yishan subvolcanic-related Cu-Au-Pb-Zn-Ag polymetallic deposit, and Jishan orogenic Cu deposit. The tour will visit three operating mines (both open pit and underground): Tongchang, Yishan and Jishan. The field visits will focus on the alteration assemblages associated with the porphyry Cu and orogenic Au mineralization. The mineralization (i.e., Cu-Mo-Au, Cu-Au, Pb-Zn-Ag, Au) will be presented and highlighted through deposit overviews and on-site tours over the course of this 2-day post-congress trip.

Cost: HKD 5600

Numbers: Minimum 5 – Maximum 50

Tour Start: Nanchang Changbei Airport, Jiangxi Province

Tour Conclude: Xinleng Holiday Hotel, Nanchang City

Includes: The price includes, transfers, meals, 2 nights’ accommodation at Dexing Hotel, Dexing City and 1 nights’ accommodation at Xinleng Hotel, Nanchang City.

Additional Information: Comfortable hiking boots and outdoor clothing are recommended.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Xinling Wei, Chief Geoscientist, Jiangxi Nonferrous Metal Geological Exploration Bureau Xiaofeng Li, Institute of Geology and Geophysics, Chinese Academy of Sciences

T7: The Porphyry and Epithermal Systems of the Zijinshan Orefield, Shanghang, Fujian

Sunday 22 March – Tuesday 24 March 2015

The Zijinshan ore field is the most complete porphyry-epithermal system in mainland China, and the aim of this excursion is to examine the nature and genesis of the key deposits (Zijinshan, Luoboling, Yueyang) within the orefield. The tour will include a brief presentation on the regional and deposit scale geology by geologists from Zijin Mining, and a visit to the Zijinshan open pit, core shed and processing plant.

Cost: HKD 2750

Numbers: Minimum 10 – Maximum 20

Tour Start: Hong Kong Airport

Tour Conclude: Zijin Hotel (Xiamen), #128 Xiangyun 3rd Road, Huli District, Xiamen, Fujian

Includes: The price includes transfers from Xiamen to Shanghang, all meals and 2 nights’ accommodation at Zijin Hotel, Shanghang, Fujian (4 stars).

Additional Information: Safety vests and hard hats will be provided on site at Zijinshan gold mine and can be borrowed to be used on Zijinshan gold mine site and returned to the mine office after the field trip has finished.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Kaifu Yang and Huayong Chen

Tour Start: Ulaanbaatar Airport, Mongolia

Tour Conclude: Ulaanbaatar Airport, Mongolia

Cost: HKD 31 500

Numbers: Minimum 10 – Maximum 10

Included: HKD 5600

Tour Start: Xiamen, Fujian

Tour Conclude: Xinleng Holiday Hotel, Nanchang City

Includes: The price includes chartered flight to Oyu Tolgoi, coach transfers, all meals and accommodation on the 14 – 15 March 2015.

Additional Information: Weather condition throughout March can be unpredictable, and conditions can be cold, with daytime average temperature ranging from 5 to –20 degrees. Extreme cold should be expected. Safety vest and hard hat will be provided on site.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Andrew Stewart and Imants Kavaleris

T8: Palaeozoic Porphyry Copper Deposits of the Gurvansayhan Arc, South Gobi Region of Mongolia

Saturday 14 March – Monday 16 March 2015

Porphyry copper deposits are among the most sought after targets for both base and precious metal exploration in the world today. The Middle Palaeozoic Gurvansayhan (Southern Mongolia) Belt of the Central Asian Orogenic Belt is one of Central Asia’s most significant porphyry copper provinces. The belt has become the focus of extensive exploration for porphyry copper-gold deposits over the last decade following the discovery of the giant Oyu Tolgoi district. This exciting field based trip will examine the major porphyry deposits. Deposits visited include Oyu Tolgoi (one of the world’s largest deposits), Tsagaan Souvarga and Kharmagtai. A series of presentations by researchers and exploration geologists working in the South Gobi will address the geology, tectonic-setting and important exploration criteria for each deposit.

Cost: HKD 31 500

Numbers: Minimum 10 – Maximum 10

Tour Start: Ulaanbaatar Airport, Mongolia

Tour Conclude: Ulaanbaatar Airport, Mongolia

Includes: The price includes chartered flight to Oyu Tolgoi, coach transfers, all meals and accommodation on the 14 – 15 March 2015.

Additional Information: Weather condition throughout March can be unpredictable, and conditions can be cold, with daytime average temperature ranging from 5 to –20 degrees. Extreme cold should be expected. Safety vest and hard hat will be provided on site.

Notes: All bookings are subject to site approval and attendance is at the discretion of the site. Attendees are responsible for organising their own visa. Final itinerary details will be made available two weeks prior to the congress.

Tour Leaders: Andrew Stewart and Imants Kavaleris

Please note: Return flights from Hong Kong to Ulaanbaatar Airport, Mongolia and overnight accommodation in Ulaanbaatar on 13 and 16 March 2015 are not included and must be arranged by the tour attendee.

Tour leaders have suggested arranging your return flights from Hong Kong to Ulaanbaatar with MIAT Airlines. www.miat.com
CONGRESS WORKSHOPS

W1: Geology, Mineral Deposits and Exploration in China
Saturday 21 March 2015

This course will provide a comprehensive overview of the mineral resources of China and the major challenges facing exploration in the country. The geology, ore characteristics and deposit distribution will be presented for the most widespread and economically important deposit types by Chinese and overseas experts from government, academia, and industry. The requirements and difficulties of carrying out greenfields and brownfields exploration within China will be detailed from both local and Western company perspectives.

SAVE! Register before 31 January 2015 and save HKD 400

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Time: 8:30 am – 5:30 pm

Numbers: Minimum 30 – Maximum 100

Venue: Conrad Hong Kong, Pacific Place
88 Queensway, Hong Kong

Includes: Morning tea, lunch, afternoon tea and workshop manual

Presented by:
- Geological Evolution of China and its Gold Resources
  Rich GoldBzf, US Geological Survey and China University of Geosciences Beijing
  Dr. Chuan Long, University of Melbourne, Australia

- Sedimentary Rock-hosted Base Metal Deposits in China
  David Leach, Exploration Consultant

- IOCG Deposits in China
  Terry Chen, Hong Kong University

- China’s Porphyry Deposits
  Jingwen Mao, Chinese Academy of Geological Sciences

- Mineral Deposits Associated with Mafic Intrusive Rocks in China
  Meifu Zhou, Hong Kong University

- Tin and Tungsten Resources of China
  Yanbo Cheng, Chinese Academy of Geological Sciences

- Rare Earth Element Deposits in China
  Yufang Xie, University of Science and Technology Beijing

- Exploration and its Challenges in China
  Kaihui Yang, Zijin Mining Group

- How to Succeed as a Western Exploration Company in China
  Greg Collins, Eldorado Gold China Operations

W2: Regional Metallogenic to Local Controls on Circum-Pacific Gold and Copper Deposits
Tuesday 17 March 2015

The workshop will consist of two parts. The first, presented by Steve Garwin, is titled “Regional and Structural Controls to Gold and Copper Mineralisation in the Circum-Pacific Region.” This presentation will consist of three main topics:

1. Regional aspects and structural controls for gold and copper mineralisation in South-east Asia – Western Pacific and the Peruvian Andes
2. Examples of district-scale controls to porphyry and epithermal deposits in Indonesia, Japan, and Peru
3. Controls to Carlin-type deposits in northern Nevada, USA, and Guizhou Province, China.

The second part of the course, presented by Craig Hart, is titled “Intrusion-related Gold Metallogeny.” This presentation will consist of three main topics:

1. Intrusion-related gold systems and classifications, with an emphasis on Alaska and the Yukon
2. Redox controls on intrusion-related metallogeny
3. Controlling features of mineralizing intrusions.

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Time: 9.00 am – 5.30 pm

Numbers: Minimum 20 – Maximum 50

Venue: Conrad Hong Kong, Pacific Place
88 Queensway, Hong Kong

Includes: Morning tea, lunch, afternoon tea and workshop manual

Presented by:
- Steve Garwin, Independent Consultant, Adjunct Research Fellow, CET, University of Western Australia, Australia
- Craig Hart, Director, MDRU-Mineral Deposit Research Unit, University of British Columbia, Canada

W3: Skarn Deposits
Tuesday 17 March 2015

Skarn deposits are some of the largest ore deposits in the world but can be complexified in the field. This one-day workshop is designed to help you understand skarn deposits with common sense exploration concepts and easy to apply mineralogical guides. We will clarify the basic concepts and terminology, explain the current understanding of skarn-forming processes and summarize the general characteristics of major skarn types. The focus will be on the zonation patterns in skarns that are useful in exploration with a discussion of how the zonation pattern varies in different environments. The workshop will cover the following topics:

1. Introduction, definition and mineralogy
2. Classification and terminology
3. Skarn-forming processes and evolutionary stages
4. General characteristics of major skarn types
5. Zonation in skarn systems
6. Factors affecting the formation of skarns and zonation patterns
7. Skarn exploration techniques.

The workshop will include hand samples to demonstrate various skarn minerals, skarn types and zonation patterns.

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Time: 9:00 am – 5:30 pm

Numbers: Minimum 20 – Maximum 50

Venue: Conrad Hong Kong, Pacific Place
88 Queensway, Hong Kong

Includes: Morning tea, lunch, afternoon tea and full colour workshop manual

Presented by:
- Zhaoshan Chang, Director of Economic Geology
  Xiamen University, China

- Larry Meinert, Head of Mineral Resources Flagship, CSIRO

W4: Portable X-ray Fluorescence (pXRF) Technology
Monday 16 March 2015

Portable X-ray fluorescence (pXRF) technology can be used to collect large amounts of multi-element data rapidly at relatively low cost and has been widely embraced within the minerals industry. However, to date, it has been difficult to compare data-sets collected by different users or at different times because there is no standardised approach to the collection of these data. I will show you how to collect reliable pXRF data, some of the pitfalls to avoid and how to assess that your data are robust and fit-for-purpose.

Participants will be invited to provide input to the workshop regarding applications that they are interested in so that the short course can be focussed to their interests if possible.

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Time: 9:00 am – 5:30 pm

Numbers: Minimum 30 – Maximum 50

Venue: Conrad Hong Kong, Pacific Place
88 Queensway, Hong Kong

Includes: Morning tea, lunch, afternoon tea and full colour workshop manual

Presented by:
- Michael Gazley, Research Scientist, Mineral Resources Flagship, CSIRO

www.pacrim2015.ausimm.com.au
Structural controls are emphasised as one of the most important controls on hydrothermal mineralization, but workplace practice in the exploration and mining industry does not always avail itself of the latest techniques in the discipline. This workshop will start with a refresher on the basics of structural geology, and show how these principles affect exploration and mining. New techniques of visualisation, working with orientated care, and using ground-based and UAV (drone) photogrammetry will be covered.

**Cost:**
- AusIMM Member: HKD 7400
- Congress Supporter Member: HKD 7400
- Non-member: HKD 8000

**Time:**
- 8:30 am – 5:00 pm

**Venue:**
- Conrad Hong Kong, Pacific Place
- 88 Queensway, Hong Kong

**Includes:**
- Morning tea, lunch, afternoon tea and workshop manual

**Presented by:**
- Tom Blenkinsop, School of Earth and Ocean Science, Cardiff University, United Kingdom
- Steven Mckidellwaite, Centre for Exploration Targeting, The University of Western Australia

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**Opening Session**

**Date:**
- Saturday 21 2015

**Speaker:**
- Dr Gideon Chitombo

**Theme:**
- Mass Mining, mine design and case studies

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**Current Practice, Lessons Learnt, The Future**

**Date:**
- Monday 16 March 2015

**Speaker:**
- Peter Stoker, Principal Geologist, AMC

**Theme:**
- Mass Mining, mine design and case studies

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**Sponsorship and Exhibition Opportunities**

Participating as a sponsor or exhibitor at MassMin 2016 can take you straight to your target market and demonstrate your level of support and commitment to the Mass Mining Industry.

Benefits of sponsoring and exhibiting at MassMin 2016 include:
- maximum exposure at a premier conference
- opportunity to build and reinforce strategic relationships within the mining industry
- access to a broad network of industry partners
- opportunity to reinforce your organisation’s brand and build brand awareness amongst a relevant audience
- opportunity to present the latest innovations and new products or services

The sponsorship and exhibition package contains a variety of levels. Should you wish to discuss opportunities, develop a package to suit your budget, or have any questions, please contact Event Management.

**Call for Papers**

Submission deadline: 20 April 2015

The conference will give presenters the chance to exchange information on topics such as, but not exclusive to:
- mass mining, mine design and case studies
- mine production and mine planning
- transition of mining method
- mining equipment and mining automation
- blasting
- applied geomechanics in mining
- subsidence and slope stability
- caving processes and gravity flow.

We invite authors wishing to present a paper at MassMin 2016 to submit an abstract not exceeding 300 words, in English, to the MassMin 2016 Speakers’ Portal, available via the conference website. Papers that are accepted will be subject to peer review and will be published in the conference proceedings volume. Authors are required to register and attend the conference to present their papers.

Attending or presenting at this conference will contribute towards your professional development.

**Event Management:**
- For further information, please contact:
  - Taza Sarmasik, Event Coordinator, Events
  - Telephone: +61 3 9658 6167
  - Email: eventvolume@ausimm.com.au

**For publication enquiries please contact:**
- Claire Lockyer, Coordinator, Publishing
  - Telephone: +61 3 9658 6167
  - Email: confvolume@ausimm.com.au

**www.massmin2016.com**
VISA INFORMATION
Australian nationals whose passports have at least six months validity can enter Hong Kong for a period of up to three months without a visa. Visas for mainland China can be obtained at the Chinese Consulate offices or in Hong Kong. Please see website for further information.

CLIMATE
Hong Kong has a sub-tropical climate with distinct seasons. PACRIM 2015 takes place in spring. During this season, temperature and humidity will begin to rise before cooling down in the evening. The average temperature is between 17°C – 26°C.

RUGBY 7’S
PACRIM delegates will have the opportunity to extend their stay and attend the Hong Kong Rugby 7’s which takes place immediately after PACRIM from 25 – 30 March 2015. PACRIM delegates have been offered discount packages to attend. Please visit the website for further information.
**SECTION 1 – PERSONAL DETAILS**

Please indicate (*) if you do NOT wish to appear on the list of participants

* Required information

**Special Requirements**

Please advise any special requirements regarding diet and mobility below

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**SECTION 2 – CONGRESS REGISTRATION**

Please indicate (*) if you do NOT wish to appear on the list of participants

* Required information

**Special Requirements**

Please advise any special requirements regarding diet and mobility below

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**SECTION 3 – NETWORKING FUNCTION TICKETS**

Please indicate your attendance at all functions and advise if additional tickets are required. Boxes not ticked indicate you will not be attending.

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**SECTION 4 – CONGRESS PROCEEDINGS**

Note, one printed and one USB copy of the proceedings is included with your registration.

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**SECTION 5 – CONGRESS WORKSHOPS**

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**SECTION 6 – CONGRESS TECHNICAL TOURS**

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**SECTION 7 – PAYMENT – INVOICE**

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**REGISTRATION**

All participants are required to officially register for PACRIM 2015. Early bird registration closes 31 January 2015. Congress fees are quoted in Hong Kong Dollars. Register online via the congress website www.pacrim.ausimm.com.au

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**REGISTRATION PROCEDURES**

**ATTENDANCE**

Only pre-registered, pre-paid registrants will be guaranteed access to the conference. Upon receipt of your registration and payment, The AusIMM will send registration confirmation.

**REGISTRATION ON-SITE**

On-site registrants, with payment only, will be admitted on space availability.

**AusIMM MEMBER RATES**

To qualify for the special rates of ‘AusIMM Member’ as quoted on the registration booking form you must be a financial (paid) member. AusIMM 2015 Membership Fees are due on 1 January 2015. Non-member registration fees apply to all non-members and non-financial AusIMM members.

**METHOD OF PAYMENT – CREDIT CARD ONLY**

Payment must be approved in advance. We accept the following credit cards: Visa and MasterCard. All enquiries regarding payments, please telephone +61 3 9668 8130.

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**SECTION 5 – CONGRESS WORKSHOPS**

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**SECTION 6 – CONGRESS TECHNICAL TOURS**

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**SECTION 7 – PAYMENT – INVOICE**

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