



**ASEG-PESA-AIG 2016**  
**25TH GEOPHYSICAL**  
**CONFERENCE & EXHIBITION**

*Interpreting the Past, Discovering the Future*

## **POST-MEETING WORKSHOPS**

**Tectonic and structural controls to gold and copper mineralization in the circum-Pacific region (Part 1); and**

**Geological setting, geochemical signature and geophysical expression of porphyry copper-(gold) systems on the district-scale: global examples (Part 2)**

**Thursday 25 August 2016, approximately 8.00 am – 5.00 pm; Grosvenor Hotel, Adelaide.**

\$195 for Part 1 delegate; \$270 Part 1 non-delegate.

\$300 for Part 1 and 2 delegate; \$375 for Part 1 and 2 non-delegate.

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

*Minimum 20 attendees*

The workshop will consist of two parts. The first is titled Tectonic and Structural Controls to Gold and Copper Mineralization in the Circum-Pacific Region. This presentation will consist of three main topics:

1. tectonic and regional structural controls for gold and copper mineralization in the magmatic arcs of Southeast Asia, Western Pacific, Peruvian Andes and Ecuador;
2. examples of district- and deposit-scale controls to porphyry and epithermal copper and gold deposits in Indonesia, Japan, Peru and Ecuador; and
3. controls to Carlin-type (disseminated sedimentary rock hosted) gold deposits in northern Nevada, USA and Guizhou Province, China.

The second part of the course is titled Geological Setting, Geochemical Signature and Geophysical Expression of Porphyry Copper-(Gold) Systems on the District-scale: Global Examples. This presentation will consist of five main topics:

1. Key geological ingredients and physical constraints that make for productive porphyry copper-(gold) systems
2. General geochemical zoning and hydrothermal alteration models, using Yerington (Nevada), Tintic (Utah) and global systems as examples;
3. Examples from continental and island arc settings, including oxidized magmas from Alpala (Ecuador), Tujuh Bukit and Batu Hijau (Indonesia) and reduced magmas from Elder Creek (Nevada) and others – comparison to intrusion-related gold deposits (e.g., Alaska-Yukon);
4. Geophysical expression of porphyry system and relationships to geology using examples from Indonesia, Ecuador, North America and elsewhere; and
5. Exploration models for porphyry deposits in different geological settings, erosion levels and weathering environments.

**To register for this course, follow the link below and designate Workshops 16 A and / or 16B:**

**<http://www.conference.aseg.org.au/workshops.html>**



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*Interpreting the Past, Discovering the Future*

Presented by

**Steve Garwin, Consultant, Perth**



Steve has 27 years of experience as an exploration geologist in SE Asia, China, Papua New Guinea, Solomon Islands, Australia, the western USA, British Columbia, Mexico, Peru, Ecuador and Chile. He worked with Newmont Mining for ten years, including two years as Chief Geologist in Nevada. Steve is one of the leading authorities on epithermal, porphyry and Carlin-style mineralization in the circum-Pacific region, particularly SE Asia. He is an adjunct research fellow at the Centre for Exploration Targeting at the University of Western Australia and a visiting fellow to the Research School of Earth Sciences at the Australian National University.

