



## W19: Porphyry Copper-Gold Deposit Course

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<b>Coordinators</b>	Steve Garwin
<b>Date</b>	Mon, Sep 02
<b>Time</b>	08:45 – 16:45
<b>Location</b>	Crown Perth

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**Summary** This workshop presents the tectonic and regional controls to copper and gold mineralization in the circum-Pacific region. The major focus of the course will be the geological setting, geochemical signature and geophysical expression of porphyry copper-(gold) systems on the district-scale and provide several global examples.

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### **Schedule\***

#### **Session 1**

Tectonic and Regional Settings. Relationships of mineralization to subduction-slab geometry, varying deformational styles, cross-orogen structures, heat- and fluid-flow focussing mechanisms and other controls.

#### **Session 2**

General Descriptions of Geology, Geochemical Expression and Geophysical Signatures of Porphyry Deposits, including Introduction and Example of an Oxidized System – Batu Hijau and Elang, Indonesia and Bajo de la Alumbrera, Argentina.

#### **Session 3**

Geology, Geochemical Expression and Geophysical Signatures of Porphyry Deposits, Example of more Oxidized Systems – Alpala - Cascabel, Ecuador and Kharmagtai, Mongolia.

#### **Session 4**

Geology, Geochemical Expression and Geophysical Signatures of Porphyry Deposits, Example of Reduced Systems – Elder Creek and Fortitude, Nevada and Comparison to Intrusion-Related Gold Deposits in Alaska, USA and the Yukon, Canada.