



Lowell Program
in Economic Geology



Short Course on Porphyry, IOCG, and Alkalic Cu and Au Deposits

December 5-14, 2017

The University of Arizona
Geosciences Department
1040 East Fourth Street
Tucson, AZ 85721-0077
USA

Dear Friends and Colleagues:

We are opening registration for the 14th offering of our popular Porphyry short course. This year the format shifts back to a version that also includes IOCG and alkalic Cu-Au deposits. The *Short Course on Porphyry, IOCG, and Alkalic Cu and Au Deposits* will be based in Tucson and will take place December 5-14, 2017. We attach the registration form. Please forward this information to your co-workers and friends.

This 9-day short course is designed for members of the industry and graduate students and will be led by Eric Seedorff, Mark D. Barton, and others. It will have a focus on exploration geology and will include 3½ days of lectures and 2 days of labs in Tucson and 3½ days of field trips to representative ore systems in Arizona. Saturday December 09, 2017, will be a day off to rest, shop, or enjoy the Tucson scenery.

Outline of Topics

The deposit types that we will cover include:

- porphyry and skarn (Cu, Cu-Au, Cu-Au-Mo, Au-Cu)
- igneous-related Au-rich epithermal systems (high- and low-sulfidation)
- alkaline epithermal Au
- iron oxide-copper-gold "IOCG" (Au, Cu-Au, barren of Cu or Au)
- brief comparisons with other deposit types

The lecture topics relating to these deposits will include:

- distribution and geologic setting
- character of related igneous systems
- hydrothermal alteration and ore mineral assemblages
- structural aspects – pre-, syn-, and post-mineral
- geochemistry of ore-forming systems
- comparative geophysics
- economics and metallurgy
- comparison with other groups of Au, Cu, and barren systems

The laboratory topics will include:

- rock suites from all deposit types, and
- alteration and ore mineral types and textures

Field trips will visit accessible examples these types of systems in southern and central Arizona.

The fee for the short course is US\$3,200 before the early registration deadline on **November 1, 2017**, and US\$3,400 thereafter. The cancellation policy provides for participant substitutions or a refund of ½ the registration fee by November 15, 2017. Thereafter, there will be no refunds or substitutions. Register soon! We expect this short course to fill up quickly!

What your registration fee payment of \$3,200 entitles you to:

We pay for:

Short course handbook

Laboratory materials

Field trip guides

1 night hotel (overnight trip to the Globe-Miami area)

2 coffee breaks per day (coffee, tea, pastries) during lecture sessions

3 group dinners (one for the keynote dinner, one on the overnight trip, and another the final evening in Tucson)

4 lunches (boxed sandwich meals) for field days

All transportation during field trips

You pay for:

Hotel for all nights (except for the overnight trip to Globe-Miami)

Meals (except for the 3 group dinners and 4 box lunches)

Airfare or other form of transportation to and from Tucson

The lecture sessions will be held at the Tucson University Park Hotel on the edge of the campus at the University of Arizona. We work with the Marriott to get a discounted rate for the short course participants. The "discounted rate" is about \$120 per night. Most participants enjoy staying at this hotel because of the accommodations and the convenience. The laboratory sessions take place mostly at the Gould-Simpson Building, which is home of the Geosciences Department. The building is located at 1040 East 4th Street, Tucson, AZ 85721-0077 and is located within walking distance of the [Tucson University Park Hotel](#).

Rocio Brambila 🍀

Program Coordinator

The Lowell Program in Economic Geology

Gould-Simpson Building, Room 342

1040 East 4th Street

Tucson, Arizona 85721-0077

Phone: (520) 626-4962

Fax: (520) 621-2672

brambila@email.arizona.edu

Web page: <http://lpeg.geo.arizona.edu/>