



# AGS NEWSLETTER

ARIZONA GEOLOGICAL SOCIETY, INC., NOVEMBER 2007

## NOVEMBER DINNER MEETING

Ralph Stegen, Freeport-McMoRan

November 6, 2007

The Climax porphyry molybdenum deposit,  
Colorado: An update of the geology and  
mineralization since the Wallace era

## FALL FIELD TRIP, DECEMBER 8, 2007

For the fall field trip, AGS has arranged a half-day guided tour of the Hayden Udall Water Treatment Plant (H/U) and Clearwater Renewable Resource Facility (Recharge & Recovery Project) (CRRF). The trip will be held DECEMBER 8th. Meet at the Tucson Water Building downtown at 7:45 am. The trip is free and compliments of Tucson Water. They have a van that will take up to 14 people; any more than that will have to carpool behind the van.

### SCHEDULE:

08:00 -00:00 AM- Travel to Site & Setup (TW STAFF)

08:00 -08:30 AM- Travel to H/U

08:30 -10:00 AM- Tour of H/U

10:00 -10:30 AM- Travel to CRRF

10:30 -11:30 AM- Tour of CRRF

11:30 AM-12:00 PM- Travel to TW (TW STAFF)

For more details about the sites, please check "Guided-Tours": <http://www.tucsonaz.gov/water/ed-outreach.htm>

Please contact Rich Brown if you have any questions.  
[rbrown@clearcreekassociates.com](mailto:rbrown@clearcreekassociates.com)

## CALENDAR OF EVENTS

- December 4, 2007—Lee Allison, Arizona Geological Survey: *Intelligent Design and the Attack on Science*
- January 6, 2008—Eric Force, U.S. Geological Survey: *Chaco Canyon*
- February 5, 2008—Alyson Thibodeau, University of Arizona: *The Strange Case of the Earliest Extraction of Silver by European Colonists in the New World*
- March 4, 2008—Mark Barton, University of Arizona: *Iron Oxide Copper Gold Deposits: A Cordilleran Perspective*

## GENERAL ANNOUNCEMENTS

SYMPOSIUM ITEMS FOR SALE—Field trip guidebooks, hats, meeting bags, mugs, Programs with Abstracts, and shirts will be for sale at dinner meetings, and some will be for sale by mail. Please look inside for details.

DUES INCREASE—The executive committee has voted unanimously to raise AGS annual dues. Effective January 2008, dues will be raised to \$20 for 1 year, \$35 for 2 years, and \$50 for 3 years. Until the end of December 2007, you can pay at the current rates, which are listed on the last page of the newsletter.

MEMBERSHIP DIRECTORY ERRATA—Change Bob Cumming's email address to [bnbcumm@aol.com](mailto:bnbcumm@aol.com).

## Dinner Meeting Schedule — Inn Suites, 475 North Granada, Tucson

To reserve your place for dinner, please call 520-663-5295 before 5 pm, Thursday, November 2, 2007.

Indicate if a low-salt or vegetarian meal is required. Please cancel if you are unable to attend.

Cost: With reservation: Members \$24, Guest \$27, Students \$10. Without a reservation, \$3 additional.

Cash Bar @ 6 pm

Dinner @ 7 pm

Talk @ 8 pm

## A word about dinner meeting costs...

Despite a recent raise in dinner prices, AGS is still running a large deficit each year on dinner meeting costs. The meeting costs are not just for food. The costs include room rental, bar set-up fee, subsidized student dinners, taxes, and gratuity—plus the cost of dinners ordered, but not eaten. AGS has an on-going problem with reservations not equaling members present for dinner, and the Secretary must play a risky guessing game when ordering dinners. Occasionally, so many guests show up without reservations, that there is not enough food available. Frequently, too many dinners are ordered with the result that AGS must pay for all places set but not occupied.

**What you can do:** Please make your reservation early, and be sure to cancel (even as late as Tuesday afternoon) if you will not be attending.

**What AGS will do:** Starting with the November dinner meeting, we will be more conservative with our estimates, ordering an amount of dinners that more closely matches the number of actual reservations made by Thursday evening, which is the hotel deadline. We will also start giving reserved dinners to walk-ins at 6:50 unless the Secretary has been notified that a late arrival is expected (you can do this when you make your reservation, if you know ahead of time, or you can even have a colleague notify one of the nice people taking money at the door to hold your dinner for you). Note that this may mean there will be more times when people who arrive without a reservation (or arriving late even with a reservation) will not be served dinner. We hope that these measures will delay the need to raise

“GEOLOGY, n. The science of the earth's crust—to which, doubtless, will be added that of its interior whenever a man shall come up garrulous out of a well. The geological formations of the globe already noted are catalogued thus: The Primary, or lower one, consists of rocks, bones or mired mules, gas-pipes, miners' tools, antique statues minus the nose, Spanish doubloons and ancestors. The Secondary is largely made up of red worms and moles. The Tertiary comprises railway tracks, patent pavements, grass, snakes, mouldy boots, beer bottles, tomato cans, intoxicated citizens, garbage, anarchists, snap-dogs and fools.”

*Ambrose Bierce (1842–1914)  
American Writer, Journalist, and Editor*

## Symposium Items For Sale

### Field Trip Guidebooks (\*)

Field Trip 1 – Gold deposits in Kyushu, Japan	\$20
Field Trip 4 – Globe-Superior-Ray area	\$20
Field Trip 7 – Porphyry copper, Pima District	\$10
Field Trip 8 – Porphyry copper, Southern AZ	\$25
Field Trip 13 – Gold deposits of Sonora-Mojave	\$20
Field Trip 15 – Transect of N. Canadian Cordillera	\$20
Field Trip 18 – Paleoproterozoic models of SW US	\$20
Field Trip 19 – Catalina Mountains	\$20

Symposium Short Course Manuals	TBA
Program with Abstracts	\$5
Meeting Bag with O&O, AGS, August Resources logos	\$10
Coffee Mug with AGS logo (*)	\$5
Ball Cap with AGS logo	\$5
Polo Shirt with O&O and AGS logos	\$15

(\*) Field Trip guidebooks and AGS mugs will be sold by mail. Shipping and handling charges will be added to the above prices. Address inquiries to [c.stone@srk.com](mailto:c.stone@srk.com).

## AGS Executive Committee–2007 Resolutions

The following resolutions were moved, seconded, and approved unanimously at Executive Committee meetings during 2007:

That the AGS newsletter shall be delivered one of three ways: e-mail only, mail only, or both.

That students and speakers with free memberships will receive the AGS newsletters by email only.

That Digipost shall pay for our newsletter postage if there is no money in the AGS postage account. Postage each month is about \$50 and they charge only 10 percent to do this.

That dinner prices be increased to: \$24 for members, \$27 for nonmembers, \$10 for students, and \$3 for late registrants (\$12 for late students), effective May 2007.

That the 2008 slate of officers be accepted, as presented by Bob Powell, Head of the Nominating Committee.

That the 2008 budget be accepted, as prepared and presented by Kris Hefton, AGS Treasurer.

That annual membership dues be raised to \$20 for one year, 35 for two years, and \$50 for three years, effective January 2008.

# SYMPOSIUM WRAP-UP

## Thanks and Appreciation from Bill Dickinson

A special salute to all AGS members for the recent symposium with my name in the subtitle. The personal kudos were gratifying in ways that words cannot describe, but my appreciation for the conference goes well beyond matters of ego into the professional realm. The meeting was just a stunning scientific success and a real service to geoscience. Attendee after attendee buttonholed me in the corridor to tell me it was the best meeting they had attended in a decade or several decades or ever. That fits my own appraisal, as I have to go back in my mind almost 40 years to the Asilomar Penrose of 1969 to find a series of sessions as stimulating, hour after hour and day after day. Everyone who worked so hard to make the show come off deserves a pat on the back. It took institutional courage in the face of potential fiscal risk and an almost masochistic appetite for hard work for AGS to stage the event, and I am prouder than ever to be an AGS member!



*Bill Dickinson speaking at the Plenary Session*

*Bob Kamilli, Program Chairman, presenting the first place Economic Geology poster award to Lora Griffin, University of Nevada, Las Vegas*

## Symposium Poster Winners

### Tectonics

#### 1st PLACE

26-16 Peryam, Thomas, University of Oregon, USA  
Lower Cretaceous strata of the southwestern Bisbee basin of north-central Sonora, Mexico: Evidence for early Cretaceous (~130 ma) arc accretion

#### 2nd PLACE

26-4 Beranek, Luke, University of British Columbia, Canada  
Triassic stratigraphic links between pericratonic terranes of the northern Canadian Cordillera and the North American margin: A new tectonic and paleogeographic model from detrital mineral and whole-rock provenance data

#### 3rd PLACE

26-13 Izaguirre-Pompa, Aldo, Universidad Nacional Autónoma de México, Mexico  
Mesoproterozoic (~1.2 Ga) quartzite and intruding anorthosite (~1.08 Ga) from Sierra Prieta, NW Sonora: Mexican additions to the Precambrian history of SW Laurentia

### Economic Geology

#### 1st PLACE

27-18 Griffin, Lora, University of Nevada, Las Vegas, USA  
Characterization of minerals associated with gold deposition in Carlin deposits, northern Nevada

#### 2nd PLACE

27-29 Lee, Robert, Oregon State University, USA  
Reassessing the absolute ages of porphyry copper intrusions at El Salvador, Chile using SHRIMP-RG U/Pb zircon ages

#### 3rd PLACE

27-19 Grün, Gillian, ETH Zurich, Switzerland  
Distribution and orientation of veins in the Bingham porphyry Cu-Mo-Au deposit, Utah





# Ores & Orogenesis Symposium 2007 Workers and Sponsors



*Registration Desk*



*Greta Orris*



*Karen Bolm, manning  
the USGS exhibit*



*Virginia McLemore*

*Exhibition Hall*



*Barb Thomsson*



*Silver and Copper Sponsors*





## Ores & Orogenesis Symposium 2007 Speakers



*Spence Titley*



*Eric Seedorff*

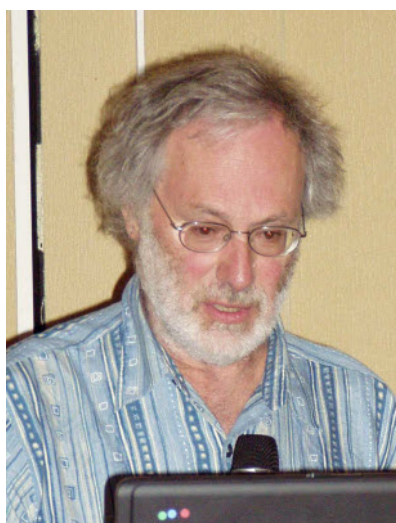
*Mark Barton*



*Dick Sillitoe*



*Gary Ernst*



*Gordon Haxel*



*Susan Beck*



*Dwight Bradley*



*Brian Rusk*





## ARIZONA GEOLOGICAL SURVEY

P.O. Box 40952  
Tucson, AZ 85717-0952

Phone: 520-663-5295  
[www.arizonageologicalsoc.org](http://www.arizonageologicalsoc.org)

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For information on ordering AGS  
publications, visit  
[www.arizonageologicalsoc.org](http://www.arizonageologicalsoc.org).

AGS books and maps are also sold at the dinner  
meeting and by the  
Arizona Geological Survey.

*As always, please keep us up to date as you move, change jobs, or change your e-mail address.*

### 2008 AGS MEMBERSHIP APPLICATION OR RENEWAL FORM

Please mail check with membership form to: Arizona Geological Society, P.O. Box 40952, Tucson, AZ 85717.  
Dues (circle one): 1 year: \$15; 2 years: \$30; 3 years: \$40. Full-time students receive free membership, but a membership application must be submitted to AGS annually to remain on the membership list. (Newsletter is by e-mail only.)

MEMBERSHIP DUES INCREASE AFTER 12/2007. RENEW NOW FOR THE CURRENT PRICE.

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Street

City

State

Zip Code

Work Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_

Fax Number: \_\_\_\_\_ Cellular Phone: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Please send the newsletter by e-mail only ☐ by regular mail only ☐ by e-mail AND regular mail ☐

If registered geologist or engineer, indicate registration number and state: \_\_\_\_\_

Enclosed is a \_\_\_\_\_ tax-deductible contribution to the J. Harold Courtright Scholarship Fund.