



AGS NEWSLETTER

ARIZONA GEOLOGICAL SOCIETY, INC. SEPTEMBER 2006

DINNER MEETING SPEAKER SEPTEMBER 5, 2006

P. PATRICK LEAHY, ACTING DIRECTOR, U.S. GEOLOGICAL SURVEY
Defining a Science Strategy for the 21st Century

ABSTRACT: The United States has enormous mineral and natural resource wealth, and people have benefited from that wealth since from the earliest days. Minerals are the essential building blocks of society. They sustain life and provide the wealth that allows us to buy goods and services that we cannot provide ourselves. Yet despite their enormous importance, society is largely unaware of the role minerals play in our everyday lives.



As our global population continues to rise, currently exceeding 6.5 billion people worldwide, considerable natural and anthropogenic pressures are being placed on our environment and natural resources. (Source: U.S. Census Bureau)

With an estimated value of domestically processed non-fuel mineral materials totaling \$478 billion in 2005 (an increase of about 8 percent over 2004), the demand for metals and minerals by emerging industrial giants China and India directly correspond with the growing demand and production in the mining of copper, iron ore, molybdenum, and aggregates (crushed stone, sand and gravel.)

(Source: USGS "Mineral Commodity Summaries 2006" report.)

Here in the Southwest, we do not have to look far to see how these considerable demand for production of these minerals have provided for the economy and altered the landscape. States like Arizona, who from 1980 – 2000 witnessed their states population nearly double, are today facing the challenge to provide both efficient and economic recovery of mineral commodities in a way that ensures the security and health of the ecosystem and continue to meet the needs of the growing population. (abstract continued on next page)

Dinner Meeting Schedule:

Inn Suites Hotel: 475 N. Granada Ave. in Tucson

Cash Bar @ 6 pm Dinner @ 7 pm Talk @ 8 pm

Cost: With reservation: Members \$20, Guest \$22, Students \$7 Without reservation \$2 additional. Please call (520) 663-5295 by 5 pm before **September 1st**. Indicate if a low-salt or vegetarian meal is required. Please cancel if you are unable to attend.

CALENDAR OF EVENTS:

- Sept. 20 AGS Symposium Committee Meeting
- October 3, AGS Dinner Meeting, Lewis Teal, Newmont Yanacocha Mine
- November 14, AGS Dinner Meeting, Robert Powell, USGS (note this is the second Tuesday of the month)

Member News:

Welcome to new members **Frank Parker**, San Diego, **Sandra Ainsworth**, ASARCO Mission, **Deborah Anne Soutz**, Tucson, **Vanessa de Viterbo**, New Mexico Tech, **David Neyer**, U of A, and **Isadore Million**, Longmont, Colorado.

Congratulations to **David** and **Mary Maher** on their recent marriage.

ABSTRACT Continued from page 1

The USGS, with its five functional disciplines - Biology, Geography, Geology, Geospatial Information and Water, has endeavored to look at these natural, environmental and economic issues in a holistic manner.

And while much of our scientific focus is shifting towards anticipating new and changing resource demands, such as the shift from coal and oil to natural gas, and technology-driven substitutions, other focused efforts concentrate on developing new principles and concepts to increase scientific understanding of critical, high-value resources in conjunction with their increasing future demand. USGS efforts include formulating and (or) improving science-based assessment methods (including total-cost assessments) and conducting global assessments of resources having substantial economic importance, such as oil and strategically important mineral commodities.

By leveraging partnerships, collaborating and exchanging science information, data and resources, the USGS and our partners and collaborators are developing strategic science plans that layout a well balanced short-term and long-term science & research architecture focused on providing the nation's leaders and land & resource managers with the right information to make critical, time sensitive and informed natural resource decisions while ensuring both a healthy ecosystem and economy.

Our Nation's economic security depends on the ability to identify, locate and maintain accessibility to the world's minerals resources. The USGS, our partners and collaborators are essential to providing the research, information, data and assessments focused on meeting the long-term and changing mineral needs of our Nation and the world.

Patrick Leahy can be contacted at pleahy@usgs.gov.

ANNUAL MEETING AND ELECTION

Proposed Slate of 2007 Officers & Councilors

Don't miss the **AGS Annual Meeting** (September dinner meeting) where the proposed slate of Officers and Councilors will be presented for your vote. As a corporation, AGS must also get approval from you for the actions taken by the Executive Committee in the past year. Kudos to these folks for volunteering their time and efforts to make your society run smoothly, attract new members, and bring in great speakers, and organize great field trips.

President	Ann D. Pattison, Independent
VP Programs	Robert J. Kamilli, U.S. Geological Survey
VP Field Trips	Rich Brown, Clear Creek Associates
VP Marketing	Michael L. Alter, Clear Creek Associates
Treasurer	Kris Hefton, VANE Minerals
Vice Treasurer	Coleen Brown, American Red Cross
Secretary	Claudia Stone, Broadbent and Associates
Vice Secretary	J. Keith Rodgers, Terracon
Past President	Robert Powell, U.S. Geological Survey
Councilor 1 (07-09)	Corolla K Hoag, SRK Consulting
Councilor 1 (07-09)	M. Lee Allison, Arizona Geological Survey
Councilor 2 (06-08)	Alyson M. Thibodeau, University of Arizona
Councilor 2 (06-08)	Jon E. Spencer, Arizona Geological Survey
Councilor 3 (05-07)	James F. Hays, Retired
Councilor 3 (05-07)	David J. Maher, University of Arizona

2006 MEMBERSHIP DIRECTORY & SPONSORSHIP

The **2006 Membership Directory** is now in press and will be mailed to you in the next couple weeks. Thanks go to those of you who helped compile the contents and membership list (Cori Hoag, Bret Canale), solicited advertisements (Mike Alter & Cori) digitally prepared the advertisements and the directory (John Birmingham, Kevin Horstman), sent in photographs (Larry Fellows, Ken Krahulec, Cori), and proofread our 80-page directory (Cori, Mike, and Bob Powell).

Also a very special thanks goes to our **Advertising Sponsors** who helped to offset the cost of production including:

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Independent Mining Consultants

Layne-Christenson

Ninyo & Moore

SRK Consulting

Stewart Brothers Drilling Co.

Terracon

WDC Exploration & Wells

SYMPOSIUM UPDATE



Ores and Orogenesis: Circum-Pacific Tec- tonics, Geologic Evolution, and Ore Deposits

Hilton Tucson El Con-
quistador Golf & Tennis
Resort

24-30 September 2007

The Symposium Committee is moving along on a variety of fronts including advertising, exhibits, sponsorship, and program selection. There's room for you to get involved!

Karen Bolm, Exhibits, reports that we have a signed contract with the company who will handle the exhibits display set up for vendors. If your company is interested in exhibiting, please contact Karen at kbolm@usgs.gov for an exhibitor application.

The technical program is shaping up and **Ann Pattison** reports that three pre-meeting short courses are confirmed. These include:

Mineral Resource Estimation from Sampling to Classification: Methodology, Philosophy, and Examples by Mine Development Associates

Uranium Deposits by Karen Wenrich and others

A look at the NI 43-101 Reporting Process by SRK and British Columbia Securities Commission

Field Trip Chairman **Bob Cummings** is working on his field trip budget and will send out guidelines soon to the field trip leaders. An overview of the field trips is on the web site at www.agssymposium.org.

Advertising is being accepted for the program booklet, field trip guidebooks, or both. The advertising flyer is on the web page.

Special thanks to new Platinum Sponsor **BHP Billiton** for their recent donation of \$20,000, which will be used in part to assist student travel expenses. Sponsorship Chair **Don Hammer** has another \$2,500 pledged, which brings the sponsorship donations and pledges to date to \$53,070.



ARIZONA
GEOLOGICAL SOCIETY

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For info on ordering AGS
publications, visit
www.arizona Geological Soc.org.
AGS books & maps are sold at the
dinner meetings and by the
Arizona Geological Survey.

Current membership stands at 360. As always, please keep us up-to-date as you move, change jobs, or email addresses.

2006 AGS MEMBERSHIP APPLICATION OR RENEWAL FORM

Please mail check with membership form to: Arizona Geological Society, P.O. Box 40952, Tucson, AZ 85717

Dues (check box) 1 year: \$15; 2 years: \$30; 3 years: \$40; full-time student (membership is free)

Name: _____ Position: _____

Company: _____

Mailing Address: _____

Street City State Zip Code

Work Phone: _____ Home Phone: _____

Fax Number: _____ Cellular Phone: _____

E-Mail: _____ I wish to receive newsletter by E-mail

If registered geologist/engineer, indicate registration number and State _____

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

Enclosed is a _____ tax-deductible contribution for the 2007 AGS Symposium.