



# SME

A Member Society of AIME

## Southern California Mining

February 2012 Edition

### UPCOMING EVENTS

#### **February**

02.21.12

Dinner

6-9pm

Pomona Valley Mining Company

Presenter: G. Todd Ririe

Topic: BP Energy Outlook

(See main article for details)

\*

#### **March**

03.20.12

Dinner

6-9pm

Pomona Valley Mining Company

Presenter: Jeff Light

Topic: A topic from the Henry Krumb

Lecture Series

\*

#### **April**

4.12.12

At CSUSB

Joint meeting with SME, IGS, & AEG

Presenter: Brock O'Kelley

Topic: Project Phoenix

6-9pm

\*

#### **May**

Dinner or Field Trip

(TBD)

\*

### February 21, 2012 SME Dinner

The next regular SME Meeting will be on Tuesday evening, February 21, 2012 at 6:00 pm. at The Pomona Valley Mining Company Restaurant, 1777 Gillette Road Pomona, CA 91768.

6pm Social; 7pm dinner, \$30 per person (\$10 to student members of SME).

**RESERVATIONS REQUIRED**, please RSVP Lucy at ([lucy@sepor.com](mailto:lucy@sepor.com)) or call (310) 830-6601.

#### **Speaker:**

G. Todd Ririe, BP, La Palma, CA

#### **Topic:**

#### **ENERGY UPDATE AND FUTURE TRENDS**

His presentation will be an overview of the BP Energy Outlook which started out as an internal BP document and has recently been made public in order to help foster important information and analysis available for public debate on energy. The outlook seeks to identify long term energy trends along with BP views on the evolution of the world economy, policy and technology to develop a projection for world energy markets to 2030. A copy of the complete document is available at:

[www.bp.com/energyoutlook2030](http://www.bp.com/energyoutlook2030)

In addition a short update will be presented on hydro-fracturing for development of shale gas which is playing an ever increasing role in the rapid production of natural gas from unconventional reservoirs. This is having a very significant impact on current and future energy use scenarios.

#### **Speaker Bio:**

Todd has worked for BP since 2006 as an internal advisor on environmental geology providing technical support to BP's remediation efforts on hydrocarbon and mining sites (BP has the Anaconda liability via the ARCO acquisition). Prior to joining BP, Todd worked as a geologist for Unocal providing internal technical support on mining, oil and gas, and geothermal exploration before transitioning to environmental work in the early 1990's. Todd has a BA in geology from Cornell College and a MS and PhD in geology from the University of Iowa.

## Request for papers.

A call to SME members with unique mining/processing/exploratory methods that you would like to share in the SME newsletter. Are you using new technology to improve data acquisition? Creating more efficient mining methods? Reducing power consumption or using green technology? Is there some new product that you would like to share with SME members that we could include in the newsletter? Please send questions and or ideas to [Eharrison@Calportland.com](mailto:Eharrison@Calportland.com)

\*

## Request for articles on historical or current mines located in Southern California.

Are you a mine operator or owner that has a deposit that you want people to know about? Or are you a history buff that wants to revive the memories of an old mine that's seen the sunset? Let me know if you would like to share your deposit with the SME newsletter. Please send questions and or ideas to [Eharrison@Calportland.com](mailto:Eharrison@Calportland.com)

## SOUTHERN CALIFORNIA LOCAL MINES AND DEPOSITS: BAXTER IRON MINE

The Baxter Iron mine is located approximately 16 miles south of Baker, CA 6 miles south off of Basin Rd at the I-15 intersection. Currently privately owned and operated by CalPortland Company; the patented mine has been in notable operations since 1930 when A.S. Vinnell Company mined the material for CalPortland for its use in cement manufacturing.

Geology of the Baxter mine consists of a petrologist's "candy store" of minerals and geology (a comment from a CalPortland Company employee discussing the need for additional exploration of the property back in 1967). For every candy shop wished for by the petrologist, there's always a geologist trying to identify the formations in which the ore lays and can be economically extracted. Granitics, crystalline limestone or dolomite, sandstone fanglomerate and alluvium make up the majority of the property. The orebodies themselves are steeply inclined lenses of magnetite, hematite with trace limonite.

The deposit was most likely created from contact-metamorphic replacement of the limestone and dolomite located within the area. Some areas of ore appear to replace voids created through faulting that occurred in the N70°E direction.

In the beginning the deposit was mined through underground workings which have now been replaced by an open pit operation. The mine continues to supply CalPortland's cement plants with high quality iron ore.



## SPECIAL NOTES:

- (1) The annual SME Local Section dues of \$15 for Professional & Registered Members for the current year 2011-2012 are due beginning in September. The dues can be paid at the meeting or by sending a check to our treasurer, Kristen Daly, whose address is listed on the following page.
- (2) Space is available for business advertisers on the last page of our Newsletter at a cost of \$50 per column inch per year. Please contact Edward Harrison, Newsletter & Email Administrator, for details regarding insertion of your ad. The annual renewal cost for the business ads are due beginning in September should be forwarded to our Treasurer, Pat Colville, whose address is listed on the following page.
- (3) Beginning in September, student memberships in SME (which cost \$31 per year) will be offered **FREE** to any full-time college student (undergraduate or graduate) majoring in Geology or mining related curriculum by our Southern California Mining Section. In order to qualify, interested students must attend an upcoming SME meeting at the Pomona Valley Mining Co. Restaurant and demonstrate a continuing interest in joining SME. Students will be required to complete a SME Student Membership Application and will receive full benefits as a Student Member of SME. Students are always welcome at our monthly meetings and field trips. The student cost for dinner at our regular meetings is \$10.

**SME Southern California Section**  
Officers Voted in 5/17/11 for the 2011-2012 Year

**Chairman:**

Peter E. Jahn  
1339 N. Padonia Ave.  
Whittier, CA 90603-1744  
(H) 562-691-2419  
peter.jahn@charter.net

**Vice Chairman:  
& Program Chairman:**

Alan Levy  
14027 Roblar Rd.  
Sherman Oaks, CA 91423-4615  
818-472-5717  
Alevyandassoc@gmail.com

**Secretary & Student Liaison:**

Austin G. Marshall  
Mitsubishi Cement Corporation  
5808 State Hwy. 18  
Lucerne Valley, CA 92356-8179  
(B) 760-248-5100 Ext. 100  
(F) 760-248-9022  
amarshall@mitsubishicement.com

**Treasurer:**

Patricia A. Colville  
1555 Washburn Rd.  
Pasadena, CA 91105-2758  
323-254-9831  
patrylis@aol.com

**Deputy Treasurer:**

Kristen B. Daly  
Santec  
25864-F Business Center Drive  
Redlands, CA 92374  
909-335-6116  
(C) 909-561-7637  
(F) 909-335-6120  
(H) 909-913-8995  
kristen.daly@stantec.com

**GEM Christmas Party Chairman:**

Owen Long  
15476 Idaho Rd.  
Apple Valley, CA 92307-4530  
(B) 760-987-5226  
(H) 760-946-3287  
(F) 760-946-3907

**Membership Committee Chairman:**

Charles H. Kubach  
Sepor Inc.  
1030 E. Carson St. Apt H  
Long Beach, CA 90870-3639  
(B) 310-830-6601

**Field Trip Chairman:**

Doug Shumway  
TerraMins Inc.  
12277 Apple Valley Rd. Unit 184  
Apple Valley, CA 92308  
(B) 760-559-7126  
shumwaydoug@gmail.com

**Newsletter & E-Mail Administrator:**

Vacant as of 8/1/11

**Newsletter Editor:**

Edward Harrison  
California Portland Cement Co.  
2025 E. Financial Way  
Glendora, CA 91741-4692  
(B) 626-691-2227  
(H) 951-240-7828  
(F) 626-852-9347  
eharrison@calportland.com

**GEM Committee Co-Chairmen:**

Erik B. Melchiorre, PhD  
CSU-San Bernardino  
5500 University Parkway, B1-116  
San Bernardino, CA 92407  
(B) 909-537-7754  
(F) 909-537-7005  
emelch@scub.edu

&

Dinah Shumway  
TerraMins Inc.  
12277 Apple Valley Rd. Unit 184  
Apple Valley, CA 92308  
(B) 760-285-5801  
(F) 760-240-2720  
terramins@earthlink.net

**Nominating Committee Chairman:**

G. Todd Ririe, PhD  
BP Remediation & Engineering  
6 Centerpointe Drive  
La Palma, CA 90623-1066  
(B) 714-670-3062  
(CC) 714-504-2316  
(F) 714-670-5195  
Todd.ririe@bp.com

**SME Southern California Section SME Member Advertising.**

**John R. Prysi**  
**Filtration  
Consulting & Sales**  
64 Ranchview Road  
Rolling Hills Estates, CA  
90274-2434  
Ph: 310-375-3634  
Fx: 310-373-4419  
Email: jr.prysi@verizon.net

**T.W. COOPER, INC.**  
Engineers – Constructors  
  
Civil/Structural Analysis and Design, Foundations,  
Hydraulics-Hydrology, Pipe Lines, Site work,  
Surveying, Environmental/Regulatory

**THE BARBER-WEBB COMPANY  
Incorporated**  
**GEOMEMBRANE LINING SYSTEMS**  
3833 E. MEDFORD STREET  
LOS ANGELES, CA 90063-1940  
Tel: (323)264-4800 & (800) 235-6620  
Fax: (323) 260-7164  
Email: bw@barber-webb.com  
Home Page: www.barber-webb.com

Mining, Mineral Processing & Process  
Equipment For Pilot Plants & Laboratories  
*SEPOR*  
Free Catalog Of Equipment  
  
Phone: 800-753- MINE SEPOR, Inc.  
718 N. Fries Ave.  
FAX: 310-830-9336 WILMINGTON, CA 90748

**Chris A. Hesse, P.Eng., C.Eng.**  
MINING ENGINEER  
  
323 464-4504 HESSE ASSOCIATES  
323 463-8851 2701 Lake Hollywood Drive,  
cahesse@att.net Los Angeles, CA 90068

 GE Water & Process  
Technologies  
  
Mark J Owens  
Regional Sales Executive  
T +1 951 303 9532  
M +1 951 719 5933  
markj.owens@ge.com  
www.ge.com  
  
32713 Hupa Dr.  
Temecula, CA 92592  
USA  
GE Betz  
  
   
WORLDWIDE PARTNER

**TerraMins Inc.**  
Consulting Mining/ Economic Geologists  
  
**Dinah O. Shumway**  
Principal Geologist  
  
12277 Apple Valley, #184  
Apple Valley, CA 92308  
www.TerraMins.com  
  
Phone: 760-285-5801  
Fax: 760-240-2720  
shumway@terramins.com