FROM THE PRESIDENT

Ellie Davie Leavitt, GSN President 2006-2007

Gold lured a sellout crowd to the October 20th membership meeting in Reno. Dave Emmons provided a succinct overview of the remarkable world class Round Mountain deposit to an attentive audience. A series of excellent photos and diagrams portrayed the relatively straightforward geology. A picture of an approximately 50 pound chunk of gold really wowed the crowd! Seventeen students attended this meeting; thank you for your continued contributions to the student dinner fund, and to Lance Taylor of Geotemps, Inc. for sponsoring student memberships. Adding to the festive atmosphere was the bar sponsored by American Assay Labs; thank you, George Burke, Chris Ioannakis, and staff for your support.

October was a busy month starting with the GSN family picnic at Rancho San Rafael. After an excellent meal, many of the 60+ attendees were game for sack races, 3-legged races and the gold pan, hammer, and egg toss competitions. During the latter event, a few eager participants

continued on page 2
Thanks to American Assay & Environmental Laboratories for hosting the October meeting.

were slow to catch on to warnings of cracks, resulting in (self-inflicted) egging. D.D. LaPointe and Rachel Dolbier did a great job of orchestrating the games, and Steve Castor’s culinary skills once again met muster (see article). The following weekend, the Nevada Bureau of Mines and Geology led field trips for the general public along the Truckee River Corridor, with many GSN members in attendance (see article). Junior (future?) geologists seemed especially enthusiastic, learning important skills including how to hammer rocks and not have them land in the next county, and the proper use of sample bags (no, not over your head!). Even seasoned geologists gained an appreciation of the geology of an area that we drive through more times than we like to count, as well as a realization that we have skills to pass down to future generations of earth scientists. The road log can be found at the following NBMG link: http://www.nbmg.unr.edu/esweek/trip6.pdf.

October will end with the Fall Field Trip to Bald Mountain and the Eureka area. As of this writing, the trip is still hotly anticipated. It’s full to overflowing, with a growing waiting list. If you are unable to attend, there are more trips coming up! The Northwest Mining Association (NWMA) and GSN are jointly organizing field trips that will follow the NWMA conference in Reno, December 4-8. Leslie Olmstead, Ruth Carraher, and Dave Caldwell of GSN, in conjunction with NWMA, have assembled a remarkable set of trips in an equally remarkable short time, with the cooperation of numerous mines, and exploration and consulting groups. These trips promise to be world-class, and I encourage you to sign up before they’re full. See page 10 of this newsletter for more information or visit www.nwma.org to register.

The diversity of commodities sought (and produced) in Nevada is exciting! Monthly updates on exploration are provided in our newsletter, many thanks to Mike Brady! November’s membership meeting will host a talk by Greg Ferdock on Mt. Hope, a porphyry-hosted molybdenum deposit north of Eureka. Be sure to mark the GSN Christmas party, Wednesday, December 13th, on your calendars! It’s not too early to donate raffle prizes and items for the silent auction. GSN relies on the support of its members! Stay posted and we’ll see you at the next membership meeting, Friday, November 17th!

GSN Holiday Party

ROCK RAFFLE ITEMS NEEDED!!
December 13, 2006
D.D. LaPointe
GSN Foundation Trustee and Education Co-Chair
Rachel Dolbier
GSN Education Co-Chair

It’s time to think about donating items for the Geological Society of Nevada Foundation’s fundraiser “Rock Raffle and Silent Auction” to be held at our annual Christmas meeting on December 13. We are seeking donation of any items suitable for raffle – gift baskets, attractive rock or mineral samples, gems or gemstones, jewelry, wine or other spirits, logo items, geological equipment or publications, commemorative coins, GOLD, or any geology or mining-related items will be gratefully accepted.

Raffle proceeds support GSN’s educational projects, which include grants to Nevada K-12 classes for transportation on earth science related field trips, scholarships to UNR and UNLV geology students, grants to the UNR DeLaMare Library, and grants for geologic mapping in Nevada.

Donors will have their names displayed on signs at the event as well as having their names listed in the January newsletter. The GSN Foundation is a 501(c)(3) public charity, tax ID # 88-0447867. Please send donated items to D.D. LaPointe at the following address to arrive before the December meeting date, or call to arrange pick-up of donated items if you are in the Reno-Sparks-Carson City area.

Thank you for your support!

D.D. LaPointe
NV Bureau of Mines and Geology/MS178
University of Nevada, Reno
Reno, NV, 89557-0088
Phone: (775)784-6691, ext.134, FAX: (775)784-1709
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Rachel Dolbier, Administrator
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(775)784-4528 phone (775) 784-1766 fax
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GEOLOGY OF THE MT. HOPE MOLYBDENUM DEPOSIT, EUREKA COUNTY, NEVADA

Greg Ferdock, CGF Geological Consultants

The Mt. Hope molybdenite porphyry deposit is located 35 km north of the town of Eureka, Nevada within the old Mt. Hope zinc mining district. The deposit is hosted within the 38 Ma Mt. Hope rhyolite volcanic-intrusive complex and metamorphosed siliciclastic rocks of the Ordovician Vinini Formation. There are at least two lobes of rhyolite-granite at depth with the molybdenite mineralization forming haloes in the shape of inverted tea cups along the contact margins of these intrusions. Where this mineralization overlaps grades increase substantially (to locally in excess of 0.3% molybdenum). A third lobe, at depth, has been inferred from a lone drill hole which intersected high grade mineralization (0.1% to 0.2% molybdenum) on the east side of the deposit.

Alteration is similar to that encountered in many other porphyry systems: a silica rich core, surrounded by potassic and phyllic alteration. A weak propylitic halo is identified distal to and overprinting these alteration phases. Argillic alteration is limited to near surface expressions of the deposit and in some of the structural zones. Structurally the deposit is rather simple with only a few cross-cutting features, and only one with significant offset, the Mt. Hope fault, an arcuate shaped normal fault with approximately 300 meters of normal displacement.

Mining first commenced on the property in the 1870’s after zinc ore was discovered on the surface by Basque who were manufacturing charcoal from the local forests for the mines in Eureka. The Mt. Hope mining district was formed, and underground operations produced zinc, copper, lead and silver sporadically up until production ceased in 1947. Nearly 9,000 feet of workings were developed in the nearly 70 years of intermittent life of the district. In the late 1970’s geologists from Asarco, Phillips and Exxon examined the property and identified it as a potential porphyry deposit. It was extensively drilled in the early 1980’s by Exxon, who took it though an EIS but ceased work after collapse of molybdenum prices. The property remained idle until acquired by Idaho General Mines, Incorporated in 2005.

The current owner of the project, Idaho General Mine, incorporated in Spokane, Washington, is in the permitting phase of putting the deposit into production in the 4th quarter of 2009 or first quarter of 2010. The company is poised to become a major supplier TMO by 2010, supplying 10% of the world market. Mine life, at current estimates, is expected to be 53 years at a production rate of 40 kt per day.

The mine plan is based on $7.00 per pound molybdenum, with production costs at $4.07 per pound. Capital development costs are currently hovering around the $500 million mark. Current designs call for the development of a conical pit, 1.5 km in diameter and 1 km deep. Plans call for a sustained labor force of about 250 personnel.

The deposit contains 920 million tons grading 0.069% molybdenum metal or 1.28 billion payable pounds of molybdenum based on 165 drill holes and 230,000 feet of core. At present the ore body is open to the north, northeast, southeast and at depth. There is potential to recover zinc, lead, silver and copper from the property.
Thank you to all GSN members who accompanied us on the 2006 NBMG Earth Science Week public field trip “Rockin’ Along the River” the weekend of October 7th and 8th. We had a total of more than 150 people in more than 40 vehicles participate on both days combined, and a record turn-out of GSN geofolks.

Besides those who cooperated to help lead the trip – Jon & Beth Price, Dave Davis, Rachel Dolbier, Jim Faulds, and Mike Visher, many other GSN members gave of their time and talents to attend and help answer questions along the Truckee corridor trek: Richard Bedell, Dave Boden, Steve Carroll, Mario Desilets, Larry Garside, Don Hudson, Ellie Leavitt, Maureen & Tom Leshendok, Marilyn Miller, Pat Mohn, Laura & Eric Ruud, Rick Schwarz, and Neil Upchurch. Thanks also to Dave Shaddrick and Golden Odyssey Mining, Inc., who generously provided sample-collecting bags for all participants.

We visited jokelhaups-transported boulders, a lahar deposit, a landslide, fluvial features, and volcanic rocks new and old. In keeping with the national theme of Earth Science Week, “Be a Citizen Scientist,” we encouraged people to look at outcrops the way geologists do in order to ask questions about and find answers to questions about Earth history. A great time was had by all and many thanks to those who helped make this educational community service project a success.

EARTH SCIENCE WEEK
D.D. LaPointe, GSN Education Co-Chair

Thank you to all GSN members who accompanied us on the 2006 NBMG Earth Science Week public field trip “Rockin’ Along the River” the weekend of October 7th and 8th. We had a total of more than 150 people in more than 40 vehicles participate on both days combined, and a record turn-out of GSN geofolks.

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Goldcorp Inc. announced that it offered to acquire Glamis Gold Ltd. through a share exchange on the basis of 1.0 share Goldcorp/1.96 share Glamis valuing Glamis at $51.41/share or a total value of $7,800,000,000.  

W.S.J.: September 1

Newmont Mining Corp. announced that reserves at the Midas Mine aggregate 1,500,000 tons @ 0.580 opt Au, 7.33 opt Ag proven+probable. (was 2,900,000 tons @ 0.510 opt Au, 6.21 opt Ag proven+probable)

2005 Annual Report

Newmont Mining Corp. announced that reserves at the Turquoise Ridge Mine aggregate 1,900,000 tons @ 0.560 opt Au proven+probable. (was 1,700,000 tons @ 0.610 opt Au proven+probable)

2005 Annual Report

Klondex Mines Ltd. announced that based on recent drill results at the Fire Creek Project, resources aggregate 1,760,000 tons @ 0.582 opt Au indicated. (was 556,300 tons @ 0.720 opt Au inferred)

Press Release: September 5

Canyon Copper Corp. (was Aberdene Mines Ltd.) announced that recent drill results at the New York Canyon Project include 0-115 feet @ 0.403% Cu (06-5R); 0-160 feet @ 0.285% Cu (06-6R); 0-30 feet @ 0.240% Cu (06-7R); 0-300 feet @ 0.344% Cu (06-8R) and 0-230 feet @ 0.612% Cu (06-9R). (resource @ Longshot Ridge = 16,100,000 tons @ 0.55% Cu)

Press Release: September 1

AuEx Ventures Inc. announced that recent drill results at the Long Canyon Project include 90-140 feet @ 0.040 opt Au (LC-015); 20-30 feet @ 0.010 opt Au (LC-016); 75-100 feet @ 0.014 opt Au (LC-017); 115-160 feet @ 0.585 opt Au (LC-018); 35-120 feet @ 0.092 opt Au (LC-020); 5-35 feet @ 0.109 opt Au (LC-023); 20-60 feet @ 0.048 opt Au (LC-024); 5-25 feet @ 0.037 opt Au (LC-025) and 55-135 feet @ 0.074 opt Au (LC-028).

Press Release: September 21

Barrick Gold Corp. announced that reserves at the Goldstrike Open-Pit operations aggregate 114,512,000 tons @ 0.128 opt Au proven+probable. (was 123,334,000 tons @ 0.131 opt Au proven+probable)

2005 Annual Report

Barrick Gold Corp. announced that reserves at the Goldstrike underground operations aggregate 7,318,000 tons @ 0.279 opt Au proven+probable. (was 7,575,000 tons @ 0.392 opt Au proven+probable)

2005 Annual Report

Pan-Nevada Gold Corp. announced that recent drill results at the Jessup Project include 60-65 feet @ 1.632 opt Au (JP06-50C); 315-375 feet @ 0.085 opt Au (JP06-47C); 147-152 feet @ 0.068 opt Au (JP06-48C); 185-190 feet @ 0.020 opt Au (JP06-49C); 106-131 feet @ 0.040 opt Au (JP06-51C) and 70-105 feet @ 0.031 opt Au (JP06-53C). (resource = 8,370,000 tons @ 0.025 opt Au, 0.25 opt Ag inferred)

Press Release: September 18

Midway Gold Corp. announced that recent drill results at the Spring Valley Project include 92-108 meters @ 0.078 opt Au (SV06-192); 233-235 meters @ 0.025 opt Au (SV06-193); 95-107 meters @ 0.024 opt Au (SV06-194); 90-98 meters @ 0.015 opt Au (SV06-195); 223-231 meters @ 0.035 opt Au (SV06-196) and 107-115 meters @ 0.178 opt Au (SV06-197). (resource = 10,030,000 tons @ 0.024 opt Au measured+indicated)

Press Release: September 21

Queenstake Resources Inc. announced that recent underground drill results at the SSX-Steer Project include 385-420 feet @ 0.628 opt Au (SX-995); 380-395 feet @ 0.610 opt Au (SX-997); 365-380 feet @ 0.365 opt Au (SR-080); 15-60 feet @ 0.225 opt Au (Z50743); 0-15 feet @ 0.431 opt Au (Z50750) and 0-50 feet @ 0.330 opt Au (Z50837).

Press Release: September 13

Miranda Gold Corp. announced that recent drill results at the Redlich Project include 330-360 feet @ 0.012 opt Au (79); 430-440 feet @ 0.010 opt Au (80); 125-135 feet @ 0.023 opt Au (82); 250-290 feet @ 0.011 opt Au (83) and 275-280 feet @ 0.440 opt Au (84).

Press Release: September 27

Miranda Gold Corp. announced that recent drill results at the Horse Mountain Project include 926.2-1,024.4 meters @ 0.023 opt Au (BHM-001).

Press Release: September 27
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Metals mobility during weathering has a significant influence on the interpretation of surface and near-surface exploration geochemical survey results, and such mobility and metals redistribution may produce economic accumulations of transition and precious metals under appropriate conditions of oxidation-leaching-redeposition. Supergene solutions responsible for metals transport also alter source rocks and ultimate metals hostrocks to characteristic, generally low-pH and sulfate-stable, mineral assemblages.

The weathering of sulfide-bearing protoliths, even those of low metals concentration, may nonetheless yield economically-significant ore deposits; this is especially notable for mineral occurrences in terrains that experience cyclical, temperate-climate weathering and that have locally favorable fault block movements that permit protolith exposure-enrichment-preservation. Development of a mature geochemical stratigraphy does not ensure economic metals accumulation, but is necessary for such.

Well-developed supergene enrichment profiles display consistent and predictable metals and mineral zoning, even within a distinct geochemical environment. Examples of leached capping, oxide zone, and metals accumulation zones from porphyry systems demonstrate the internal zoning of orebodies developed from enhanced weathering-related metals mobility and accumulation in temperate environments.

South Arturo is a “Carlin-type”, breccia-hosted, oxide gold deposit located at the north end of the Carlin Trend. The discovery hole was drilled in August 2005 from mine dumps 1,000 ft south of the Dee open pit. Discovery hole (BD-72) encountered a cumulative 245 ft @ 0.056 opt Au beneath 850 ft of post mineral Tertiary Carlin Formation. Oxidation extends to depths greater than 2,000 ft in the deposit area. The deposit is presently in definition drilling stage with 100,000 ft of drilling completed to date. A resource estimate is in progress. This paper will focus on the discovery and descriptive characteristics of the mineralization.
Dec 4-8, 2006 – Northwest Mining Associations 112th Annual Meeting, Exposition and Trade Show will be held at John Ascuagas Nugget Casino-Resort in Reno, Nevada. For information, please see the home page on this website or call Pat Heywood at the NWMA office in Spokane, WA at 509/624-1158. Email: pheywood@nwma.org, http://www.nwma.org

Dec 13, Wednesday – GSN CHRISTMAS MEETING & ROCK RAFFLE/SILENT AUCTION: Speaker: Dr. Rich Schweickert, UNR Dept of Geological Sciences. Title: “Neotectonics of the Tahoe Basin: Implications for Landslides and Tsunamis”. Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks 6-pm., dinner-7 pm. ($20), talk-8 pm. Silent Auction and Raffle will be going on from 6 – 9 pm. Contact Laura Ruud for reservations, 775/323-3500, gsn@mines.unr.edu

UPCOMING EVENTS


Nov 8, Wednesday – WINNEMUCCA CHAPTER MEETING – Speaker: William X. Chávez, Jr., Professor of Geological Engineering, New Mexico School of Mines. Title: “Supergene Metals Mobility and Accumulation: Examples of Ore-Forming Processes and Ore Deposits in Arid Terrains”. The Martin Hotel, W Railroad and Malarkey Streets. Drinks at 6:30 PM, Presentation at 7:00 PM. Sponsored by American Assay Laboratories. Contact Ivan Johnston, Chapter President, for more info, 775/635-4292, IvanJohnson@Newmont.com.


Nov 12-16, 2006 – EPA Hard Rock 2006 Sustainable Modern Mining Applications Conference to be held at the Doubletree, Tucson Reid Park in Tucson, Arizona. This conference will provide participants with an opportunity to examine and discuss current and future environmental issues which provide sustainable opportunities for efficient extraction and maximum utilization of resources in mining. For more information, contact Alina Martin at 703/318-4678 or by email. Email: tcs-events@saic.com http://www.epa.gov/hardrockmining/hardrock/hardrock2006.htm

Nov 14, Thursday – NOV PETROLEUM SOCIETY MEETING: Speaker: Bill Ehni, Geologist, Ehni Enterprises, Title: “Petroleum and Geothermal Activity in Nevada”. Austin’s Restaurant, 7671 South Virginia St, Reno, cocktails at 6:30 pm. Dinner at 7:00 pm. ($17 for members; $19 for non-members). Contact Diane Phillips for reservations. 775/267-4663, email: trailsend@pyramid.net.

Nov 15-16, Thursday – GSN MEMBERSHIP MEETING: Speaker: Greg Ferdock, CGF Geological Consultants, Title: “Geology of the Mt. Hope Molybdenum Deposit, Eureka County, Nevada”. Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks at 6 pm, dinner at 7 pm ($17), talk at 8 pm. Contact Laura Ruud for reservations, 775/323-3500 or gsn@mines.unr.edu.

Nov 16, Thursday – ELKO CHAPTER MEETING: Richard Hipsley, Barrick Gold Exploration Inc., Topic: South Arturo Project. Western Folklife Center, 501 Railroad Street, Elko, NV. Drinks at 6:00 pm with the talk at 7:00 pm. Contact Richard Reid, Chapter President, at 775/778-3912, Richard.Reid@newmont.com for more information.

Nov 17, Friday – GSN MEMBERSHIP MEETING: Speaker: Greg Ferdock, CGF Geological Consultants, Title: “Geology of the Mt. Hope Molybdenum Deposit, Eureka County, Nevada”. Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks at 6 pm, dinner at 7 pm ($17), talk at 8 pm. Contact Laura Ruud for reservations, 775/323-3500 or gsn@mines.unr.edu.

Nov 30, Thursday – SO NEVADA CHAPTER MEETING: Speaker: Dr. Bruce Crow, tentative title: - “Volcanism in the vicinity of Yucca Mountain”. UNLV Lily Fong Geoscience Building, Room 105, refreshments at 6 pm, talk at approx. 6:30 pm. Contact Bruce Hurley, Chapter President at 702/295-1284, rocks2wh@aol.com.

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SOUTH AFRICAN WINE TASTING AND FUNDRAISING EVENT FOR SAIWI

The Student Association for International Water Issues (SAIWI) at the University of Nevada and BK’s Wine Storage & Accessories are holding a fundraiser on Saturday, November 4. SAIWI works on international issues of water quality and supply in remote and underdeveloped areas.

This wine tasting will be held from 3-5pm and then again from 5-7pm, and will feature South African wines. There will also be a short slideshow of SAIWI’s recent trip to Kenya in June and a silent auction. The cost is $20 per person, and you keep the glass. You can buy tickets at BK’s Wine Storage, or email Harmony Farnsworth (SAIWI Treasurer) at hfarnswo@unr.nevada.edu.

BK’s Wine Storage & Accessories is located at 2540 Sutro St, Suite 6, Reno, NV 89512 (just south of Hug High School’s football field between McCarran and Oddie Blvds). 775-786-4744, winestoragebks@sbcglobal.net.

GSN MEMBERS’ PERSONAL NOTES & NEWS

Career Related Moves

• CGS Personnel has recently moved to a new location in Reno, 390 East Moana Lane, Suite 2, in Independence Square. Our telephone and fax numbers remain the same.

• CGS Personnel has been serving the mining and exploration industry for over 15 years. We welcome your business and resumes.

We are having an open house Wednesday, November 14th from 11:00 am until 1:00 pm. Please come by and meet the mayor and enjoy the great food. Hope to see you.

Members are encouraged to keep us informed about their own career related moves and awards, and deaths of GSN colleagues. Your information needs to be received by Laura at gsn@mines.unr.edu by the 21st of each month.
Northwest Mining Association and the Geological Society of Nevada

Fax (509) 623-1241 or mail completed form to Northwest Mining Association prior to November 24, 2006
10 N Post St., Ste. 220, Spokane, WA 99201-0705

Post Technical Session & Exposition Field Trips
Friday December 8 - Sunday December 10, 2006

All field trips will depart after the close of the Exposition Hall on Friday afternoon December 8 approximately 2:00 p.m. and return on Sunday December 10.

Northwest Mining Association, in conjunction with the Geological Society of Nevada, is happy to be able to offer a variety of field trips as post-convention events. Space is limited for each of these tours and will be assigned on a first come basis. (See paragraph below) Register early to guarantee your space. There is a separate registration form for the field trips, or you may register on-line at www.nwma.org. If you have any questions, please contact Northwest Mining Association – info@nwma.org, or call 509/624-1158 x 10.

For those attending the NWMA Annual Meeting and have a Technical Session badge, the cost per tour is only $395 per person. This includes transportation from the Nugget, box dinner Friday, box breakfasts and lunches on Saturday and Sunday, dinner Saturday evening, two nights lodging and a guidebook. For those not registering for the technical sessions, the cost is $500. NWMA registrants receive 1st priority.

Tour 1 – limit 40 people
Reclamation and Closure Tour – bus to Winnemucca, NV
Saturday & Sunday tours of several or all of the following:
Pinson (Atna Resources Ltd. and Barrick Gold Corp.)
Getchell (Barrick Gold Corp.)
Sleeper (New Sleeper Corp. and X-Cal Resources, Ltd.)
Florida Canyon (Jipangu, Inc.)
Rochester (Coeur d’Alene Mines Corp.)

Tour 2 – limit 40 people
Metallurgical Tour – bus to Elko, NV
Carlin Trend Processing – Saturday
Battle Mountain-Cortez Trend Processing – Sunday

Tour 3 – Limit 30 people
Geologic Tour – bus to Winnemucca, NV
Sunday’s underground tours are limited to 15 each. List 1st & 2nd choice on form.
Pipeline/Cortez Area (Barrick Gold Corp.) – Saturday
Turquoise Ridge Underground Mine (Barrick Gold Corp.) – Sunday
Getchell Underground Mine (Barrick Gold Corp.) – Sunday

2006 GSN Family Picnic

Our GSN Family Picnic on Sunday, October 1, was the most attended picnic in a long time. Thanks to all of you for coming out on such a beautiful fall day and making this annual event such a success! We dined on roast pork and tri-tip (thanks to Steve Castor for once again acting as BBQ-meister) and sampled not one, but two kegs of beer (thanks to Cami and Neil Prenn) and enjoyed a plethora of sides and salads that were brought to share. All the food was much appreciated!

We had games for adults but were lacking kids so we only held one round of each game. The following is a list of winners:

Gold Pan Toss: 1st Place Winner – Greg Ekins
Hammer Throw: 1st Place Winners – Jim Leavitt
3-Legged Race: 1st Place Winners - Jerry Baughman & Steve Castor
Sack Race: 1st Place Winners (tie) – Steve Carroll, Vicki Parratt
Egg Toss: 1st Place – Tom Nimsic & Jerry Baughman

Let’s keep this wonderful tradition going and plan an awesome picnic for 2007!
Multiple cycles of basaltic volcanic activity post-date the Miocene major caldera cycles of the Southwest Nevada Volcanic Field with continued episodes of small-volume eruptive pulses in the Pliocene and Quaternary. The waning phase of the eruptive cycle of the Timber Mountain caldera cycle includes voluminous basaltic volcanic activity (cumulative volume > 10 km$^3$) centered mostly near the southern part of the Timber Mountain caldera (Dome Mountain and temporally associated basalts of Crater Flat, Jackass Flat and the Amargosa Valley; ~ 11 to 9.5 Ma). Subsequent basaltic activity include episodes of small volume (< 3 km$^3$) basaltic volcanism along the northern part of the Silent Canyon ring-fracture zone (~ 9-9.5 Ma), the Yucca-Frenchman Flat basins and adjacent ranges (~ 8.6 to 7.3 Ma) and within the southern part of the Amargosa trough (~ 4.6 to 0.1 Ma). The latter episodes of basaltic volcanic activity have received considerable attention because of their potential impact on a repository for geologic disposal of high-level radioactive waste at Yucca Mountain.

Background information will be presented on the methods for developing alternative probabilistic volcanic hazard models for Yucca Mountain.

Dr. Bruce Crowe is a geologist and environmental scientist with Battelle Memorial Institute and is currently the science advisor for the environmental management programs at the Nevada Test Site. Bruce received his B.A. from Fresno State University and his M.S. and Ph.D. from the University of California, Santa Barbara. He worked for 29 years for Los Alamos National Laboratory before joining Battelle. The focus of Bruce’s current work is on the development and application of probabilistic performance assessment models for disposal of low-level and transuranic radioactive waste and on the implementation of modeling strategies incorporating uncertainty for evaluating groundwater transport of contaminants at the Nevada Test Site. He is currently a member of the expert judgment panel that is updating the probabilistic volcanic hazard assessment for Yucca Mountain.

**SOUTHERN NEVADA CHAPTER**

**NOVEMBER 30th MEETING**

**BASALTIC VOLCANIC CYCLES AT THE SOUTHWEST NEVADA VOLCANIC FIELD**

Bruce Crowe, Battelle

**DIRECTORY ADS – GOLD PAGES**

It is time to get your advertisements in for the 2006/2007 Membership Directory. Don’t miss this opportunity to reach your clients. The Directory was distributed to approximately 900 members last year and we are projecting over 1,000 members. The Directory will be published in January 2007. Prices are as follows:

- 2” x 3 1/2” Business Card – Horizontal $  50
- 3 1/2” x 5” Quarter Page – Vertical 150
- 5” x 7” Half Page – Horizontal 300
- 3 1/2” x 10” Half Page – Vertical 300
- 7” x 10” Full Page – Vertical (Gold Pages) 450
- 7” x 10” Opposite, Inside Back Cover – Vertical 600
- 7” x 10” Qualified Persons Page 600
- 7” x 10” Inside Back Cover – Vertical 700
- 7” x 10” Inside Front Cover – Vertical 800
- 7” x 10” Outside Back Cover – Vertical 1,000

As in the past, the first complete payment received in the GSN office for a requested location will be assigned that location. Please contact Laura Ruud at the GSN Office, 775/323-3500, or Greg French, GSN Membership Chairman, at 775/856-2422 for more information or to obtain a form.
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