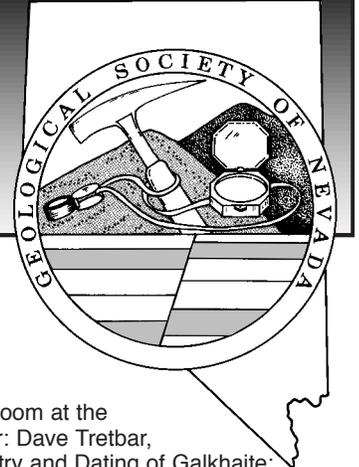


# GSN NEWSLETTER



November 2001, Vol. 15, No. 9

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## CALENDAR OF EVENTS

- Nov 7 Wednesday** WINNEMUCCA CHAPTER MEETING: Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: Dave Tretbar, Barrick Goldstrike. Topic: The Distribution, Chemistry and Dating of Galkhaite; an Uncommon but Important Accessory Mineral in Carlin-type Gold Deposits. Bar opens at 6:45 pm, meeting at 7 pm. Meeting sponsor is American Assay Labs. Contact Sheila Bunch for information, sbunch@lambdacom.com, 775/623-0202.
- Nov 15 Thursday** ELKO CHAPTER MEETING: High Desert Inn, Elko, NV. Speaker and topic to be announced. Refreshments at 6:30 pm. Contact Bill Weiner, BWeiner@bgmi.com for information.
- Nov 16 Friday** GSN MEMBERSHIP MEETING: Reno Elks Lodge, Reno, NV. Speaker: Terry L. Jennings, Nevada Contact Inc., Reno, NV. Topic: Tonkin Springs, Eureka County, NV. Social-6 pm, dinner-7 pm (\$17), talk-8 pm. Contact Laura Ruud, 775/323-3500, gsn@mines.unr.edu.
- Nov 22 Thursday** SOUTHERN NEVADA CHAPTER MEETING: Lilly Fong Geoscience Building, Room 102, UNLV, Las Vegas, NV. Speaker and topic to be announced. Social-5:30 pm. Contact Chris Riecken, 702/435-5664 for information.
- Dec 19 Wednesday** GSN CHRISTMAS MEETING and FOUNDATION ANNUAL ROCK RAFFLE: Reno Elks Lodge, Reno, NV. Contact Laura Ruud for information, 775/323-3500.

➔ IF YOU HAVEN'T RENEWED YOUR DUES, THIS IS YOUR FINAL NEWSLETTER! ➔

GSN Newsletter is published monthly except June and July  
Geological Society of Nevada, PO Box 12021, Reno, NV 89510-2021 USA, 775/323-3500

## FROM THE PRESIDENT

Dave Shaddrick, GSN President 2001-2002

**Don't forget to renew your membership.** GSN is professionally rewarding and a great way to stay connected to the geologic community and all your friends.

### HOMESTAKE TOUR

On October 10, 2001 a small group of geologists participated in an underground tour of the Homestake Mine at Lead, South Dakota. The trip was arranged and organized by the GSN. Our thanks to Kathy Hart and Tom Trancynger for all their help and courtesy. We had a Great Time!

The Homestake Mine will close before the end of the year, after 125 years of nearly continuous operation. The mine has exploited the largest iron formation hosted gold deposit in the world and at closure will have produced 39.6 million recovered ounces of gold. Workings extend to a depth of 8000 feet and there are over 300 miles of lateral workings on more than 55 levels. A large "open cut" has produced several million ounces of gold from orebodies extending from the surface to the 800 foot level. This is a magnificent operation.

continued

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## News and Announcements

We were able to visit two working stopes below the 7000 foot level in one of the western ledges. "Ledge" is a local term for major ore bearing folds in the mine. The group did a pretty good job of "mining" their tonnage of the ore specimens exposed in the stopes. This made the several thousand foot walk out to the shaft seem even longer.

The deposit is strata-bound within the Homestake Formation, a 1.84 to 1.72 Ga assemblage of ferruginous metasedimentary rocks dominated by cummingtonite/grunerite schist and sideroplesite/siderite schist. The rocks have been deformed by at least four and probably six deformational events which have produced a complex series of folds and cross folds at multiple scales and orientations. Ore occurs as discrete volumes of mineralized rock with sharp boundaries. These "ore bodies" range in size from a few tons (subeconomic) to well over a million tons. They cluster in a structurally controlled distribution within the folded Homestake Formation. Ore consists of free gold occurring on cleavages, grain boundaries and fractures in both silicate and sulfide minerals. Sulfides include pyrrhotite, arsenopyrite and lollingite. Gangue minerals include vein quartz, chlorite, ankerite and various iron silicates and carbonates.

Following the Homestake Tour the group visited a number of sites of geologic and social interest in the Lead area.

The next day, October 11, part of the group toured the Foley Ridge Mine of Wharf resources. Our thanks to Ried Kotchel and Jim Lessard for their courtesy. This is an open

pit/heap leach operation a few miles west of Lead. The mine has produced more than 1.2 million recovered ounces of gold and has a mine life of over 5 years at current prices.

The Foley Ridge Mine exploits Tertiary age gold/silver mineralization hosted by Paleozoic carbonate and calcareous clastic rocks. Ores are generally oxidized and occur along high angle fractures locally called "verticals" and as manto-like replacements into the country rock.

If anyone is interested in further details on either of these deposits I will be happy to discuss them and recommend some reading on them.



Back row left to right: Peter Maciulaitis, Dave Shadrack, Malcolm Norris, Greg Ekins, and Peter Dilles. Front row left to right: Patrick Highsmith and Kathy Connors. Photo taken in the hoist room for the Ross Shaft.

## MEMBERSHIP RENEWAL NOTICE

This is the FINAL NEWSLETTER for those of you who have NOT renewed your dues for the 2001/2002 fiscal year. For those of you who receive the newsletter via the postal service, please check the date after your name. If it says 9/02 then you have renewed, but if it says 9/01 you have not renewed and this will be your last newsletter. For those who receive the newsletter via email, you will receive a note along with your newsletter if you have not renewed. The 2001/2002 Directory will be published in December this year so if we receive your renewal after Nov 30<sup>th</sup>, we will not be able to publish your name in the Directory. Please RENEW TODAY!

### The GSN Foundation wishes to thank the following new Founding Donors for their support:

<b>"Gold" Level</b>	Thomas E. Callicrate
Homestake Mining Company	Jerry D. Dolence
	Rich Lorson
<b>"Donor" Level</b>	John Prochnau
Richard Bedell	Paul B. Renken
William C. Berridge	Peter D. Rowley
Keith Bettles	Robert W. Schafer
Kelvin J. Buchanan	Eric Seedorff
Carol J. Callaghan	Kenneth D. Snyder

## DIRECTORY ADS – GOLD PAGES

It is time to get your advertisements in for the 2001/2002 Membership Directory. Don't miss this opportunity to reach your clients. The Directory was distributed to approximately 950 members last year and we are projecting close to the same number of members for the current fiscal year. The Directory will be published in December 2001 and advertising rates are the same as last year. Prices are as follows:

2"×3 <sup>1</sup> / <sub>2</sub> "	Business Card – Horizontal	\$ 50
3 <sup>1</sup> / <sub>2</sub> "×5"	Quarter Page – Vertical	150
5"×7"	Half Page – Horizontal	200
3 <sup>1</sup> / <sub>2</sub> "×10"	Half Page – Vertical	200
7"×10"	Full Page – Vertical (Gold Pages)	400
7"×10"	Opposite, Inside Back Cover – Vertical	550
7"×10"	Inside Back Cover – Vertical	650
7"×10"	Inside Front Cover – Vertical	750
7"×10"	Outside Back Cover – Vertical	850

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.

# GSN November 16, 2001 Membership Meeting

**Date:** Friday, November 16, 2001  
**Time:** Social-6:00, Dinner-7:00, Meeting-8:00  
**Cost:** \$17.00 (dinner)  
**Reservations:** 775/323-3500; fax 323-3599 or e-mail:  
gsn@mines.unr.edu  
**Deadline:** Reserve by noon Wednesday, November 14

**Location:** Elks Lodge, 597 Kumle Lane, Reno, Nevada  
**Directions:** Across (W) from the Reno-Sparks Convention Center (S Virginia St), just behind the Les Schwab Tire Center  
**Speakers/topic:** Terry L. Jennings, Nevada Contact Inc., Tonkin Springs, Eureka County, Nevada

## TONKIN SPRINGS, EUREKA COUNTY, NEVADA

Terry L. Jennings, Nevada Contact Inc.

The Tonkin Springs Mine Property consists of approximately 36 square miles of unpatented load claims in the south-central portion of the Battle Mountain-Eureka Gold Trend in Eureka County, Nevada. The Tonkin Springs "Carlin Style" gold deposits occur between Placer Dome's Pipeline Complex to the north and Atlas's Gold Bar Mine to the south. Elevations on the property range from 6400' to 8180' and the terrain varies from low hills of moderate relief to steep rocky cliffs.

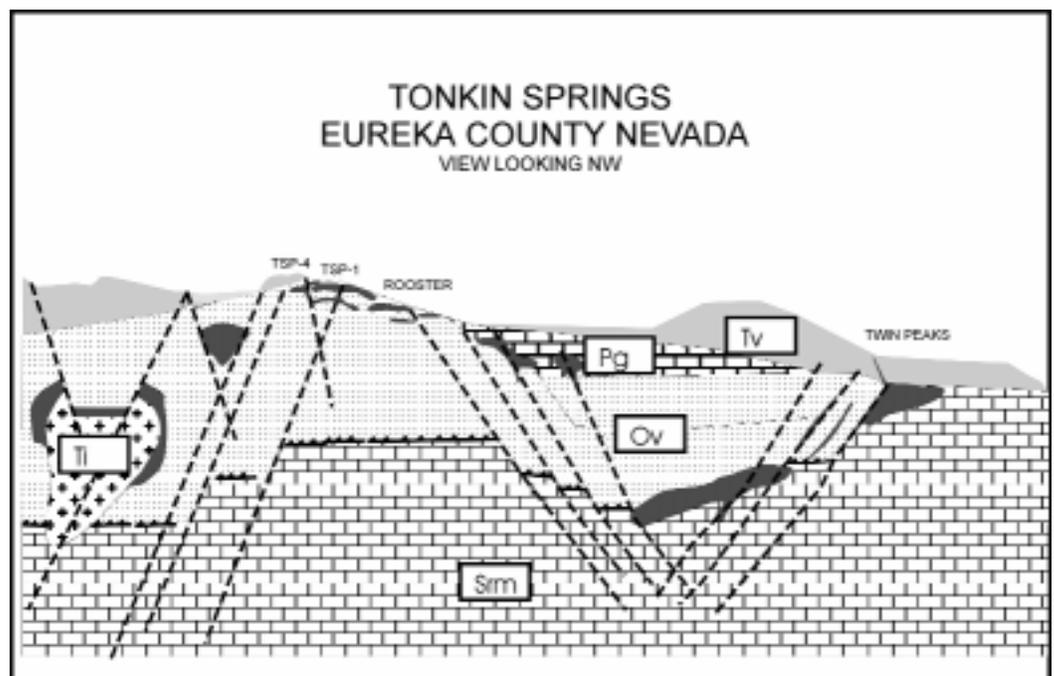
The oldest sedimentary rocks identified at Tonkin Springs are the Ordovician Vinini siliciclastic, carbonate and greenstone lithologies. The Vinini is well exposed and makes up most of the central core of the property. Homestake Mining Company divided the Vinini into three distinct units designated as Ov<sub>1</sub>, Ov<sub>2</sub> and Ov<sub>3</sub>. The rocks of Ov<sub>1</sub> are predominately siltstone, sandstone, shale and chert. Ov<sub>2</sub> is made up of thin to medium bedded sandy limestone, calcareous siltstone, carbonaceous shale and greenstone. The upper most member, Ov<sub>3</sub>, consists of a sequence of quartzite with minor interbeds of shale and limestone.

Limestone exposures of Devonian Devils Gate and Denay Formations are incorporated into the Vinini package and are thought to have been back-thrusted into this position. Both of the units occur throughout the central core of the claim area and on the western side of the property.

Permian Garden Valley Formation clastic sediments and Cretaceous Newark Canyon Formation clastic sediments flank the area in isolated exposures to the north, east and west.

Tertiary volcanics and volcanoclastic rocks flank the project area to the east, west and north and occur within the interior on the southern end of the property. These units are unaltered and appear to be post mineral in age. A weathered paleosurface is evident at the base of the volcanics and ranges from a few feet to greater than 100 feet in thickness.

Mineralization occurs in clusters along a series of north to northwest trending structures. There is also a subtle, but distinctive, east-northeast alignment within each of these clusters which is postulated to represent an east-northeast fold axis created by strike slip faulting along master faults on the eastern and western edges of the range. The gold mineralization is almost exclusively contained in dirty carbonates, greenstones, silicified siltstones and silicified cherts of the Ov<sub>2</sub> member of the Vinini Formation and Tertiary sills and dikes intruded into the Ov<sub>2</sub>. Geologic interpretation of drill data has shown that there is a strong spatial relationship between igneous rocks and gold mineralization along, or adjacent to, the lower contact of the Vinini limestone and underlying shale and siltstone units. This represents a zone of low angle disruption that was invaded by rhyolitic to andesitic intrusive rocks as well as gold bearing hydrothermal solutions. The strongest mineralization occurs in areas of multiple intrusion and warping of the sediments.



The gold mineralization is intimately associated with arsenic-bearing pyrite and marcasite. Other sulfides associated with the gold, but to a much lesser degree include orpiment, realgar, arsenopyrite and stibnite. Oxidized mineralization includes limonite and minor amounts of scorodite. Late stage barite mineralization occurs locally.

Decalcification and silicification, including replacement and veining, are the dominant alterations found associated with gold mineralization on the project. Lesser alteration styles identified are argillization, particularly in the intrusive and greenstone rocks, carbon depletion/enrichment and iron oxide staining.

The first significant gold exploration began in 1966 at which time Lyle Campbell staked an area of jasperoid bearing lower plate Paleozoic carbonates and siliceous Vinini Formation rocks. The evaluation of the area continued until 1981 resulting in the delineation of the Rooster Deposits as well as significant gold targets several miles to the south. Continued exploration resulted in the delineation of several gold deposits and significant gold resources. Silver State Mining Company optioned the property in 1985 and began production from several shallow open pits. Gold was produced from 8 areas; Rooster, TSP-1, TSP-2, TSP-3, TSP-4, TSP-5, TSP-6E and TSP-6W. Presently there is a gold resource of 1.4 million ounces.

## DONATIONS REQUESTED FOR GSN FOUNDATION ROCK RAFFLE

The Geological Society of Nevada Foundation will be having a "Rock Raffle" fundraiser at the GSN annual Christmas meeting, December 19th, 2001. We are seeking donations of any items suitable for raffle: attractive rocks, fossils, or mineral samples, wine or other spirits, logo items, geological equipment or publications, commemorative coins, books, cakes, gift baskets, or any geology or mining-related items will be gratefully accepted.

The raffle proceeds will be applied to the GSN Foundation's unrestricted fund to benefit 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 NV.

Please send donated items to D.D. LaPointe at the following address to arrive before Dec. 17th, or drop them off at NBMG, or call to arrange pick-up of donated items if you are in the Reno-Sparks-Carson City area. Please let me know if you would like a receipt for the value of your tax-deductible donated items, and I'll send you one.

Thank you! D.D. LaPointe, GSN Educational Committee Co-Chair and GSN Foundation Trustee, NBMG/MS178, Room 314, Scrugham Engineering/Mines Bldg, UNR, Reno, NV, 784-6691, ext 134.

Compliments of Peg O'Malley, including ideas and encouragement from Pete Dilles



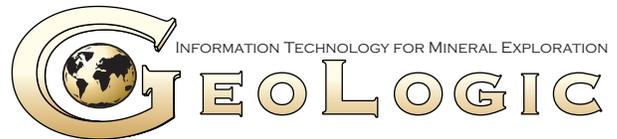
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## AIPG 12<sup>TH</sup> ANNUAL ROUNDUP DINNER

Please join the AIPG, Nevada Section, as they hold their 12<sup>th</sup> annual Exploration Roundup Dinner at the Eldorado Hotel and Casino. Confirmed speakers are from the following companies:

<b>Meridian</b> Rich Larson	<b>Barrick</b> Ed Cope	<b>Echo Bay</b> Ralph Bullis	<b>Placer Dome</b> Greg Cox
<b>Agnico-Eagle</b> Mark Abrams	<b>Cameco</b> Al Moran	<b>Newmont</b> Ken Paul	<b>Kennecott</b> Geoff Ballantyne
<b>Cordex</b> Andy Wallace	<b>Kinross</b> Bob Schafer		

Invited speakers are **Don Birak**, AngloGold and **Dieter Krewedl**, Coeur d'Alene.

**Date:** Tuesday, December 18, 2001.

**Time:** 6:15 pm, cocktails hosted by **Eklund Drilling Co.**; 7:00 pm dinner; 8:00 pm program.

**Place:** Eldorado Hotel and Casino (corner, 3rd & Sierra St, Reno, NV, parking entrance, Sierra St, free with validation).

**Cost:** \$35 AIPG, GSN Members and Spouses; \$40 others.

Door prizes courtesy of **Mark Stock**, Global Hydrogeologic Services, Inc.

Reservations are required. Contact Kel Buchanan at 786-4515, fax 786-4324 or summitcrk@aol.com.

# The U.S. Trade and Development Agency: An additional Source for Potential Employment in International Mining Industry Projects

Alan Di Stefano, Director, Global Trade and Investment,  
Nevada Commission on Economic Development

A U.S. agency unknown to, and overlooked by, most Nevadans is the U.S. Trade and Development Agency (TDA). Their goal is to assist in the creation of jobs for Americans by helping US companies pursue overseas business opportunities. They accomplish this through the funding of feasibility studies, orientation visits, training grants, conferences and various forms of technical assistance. Through these activities, American businesses, and their contractors, can become involved in the planning stages of infrastructure and industrial projects in middle income and developing countries. Their primary projects are in the **mining and minerals development**, environmental/water resources, IT, agriculture, energy, healthcare, manufacturing, telecommunications and transportation sectors. For more information on TDA, please visit their web site at: [www.tda.gov](http://www.tda.gov).

A very interesting publication of TDA is their Pipeline report. This is available free by signing up on their web site; the publication will then be sent to you automatically by e-mail every other Friday. You can view the current issue at: [www.tda.gov/pipeline](http://www.tda.gov/pipeline). By knowing what to look for in one of the eight sections of the Pipeline report you will be able to find job opportunities. For example:

- In the Definitional Mission, Desk Studies and New Projects section, consulting companies can have the opportunity to bid on the early stage of a project.

- In the Completed Definitional Missions and Desk Studies section, you will be able to find out what missions were funded and who was awarded the initial funding. Contacting these companies could result in you being a consultant or sub-contractor.

- In the Feasibility Study Opportunities section, you can find out what new projects TDA is funding and have a chance to bid on the project. This is more of an opportunity for a small company than an individual.

- Probably the best section of the report is New Feasibility Study Contracts Awarded to U.S. Firms. This is the place that individuals, and small companies, can find real job opportunities. It shows what contracts were awarded, the amount of the TDA funding and contact total value, and the contact information for the awardees. These companies are usually project management groups that still need consultants and suppliers of services and equipment. **Calling them may get you a job.**

- The Other Activities, Completed TDA-Feasibility Studies, and TDA-Assisted Multilateral Development Bank (MDB) Funded Projects sections can also yield similar job opportunities as outlined in the previous section.

- The TDA Calendar section will tell you about upcoming conferences and visits by foreign delegations where feasibility or funded projects will be discussed. By attending the meetings you will have a chance to meet the US companies and foreign nationals who are participating in the project. If your background meets their needs, you may be able to uncover immediate job opportunities.

You may not have tapped this resource in the past for new project or job opportunities. You may find that participating in the expanding global market may open up more opportunities for you than the domestic market. If there is any way that we can assist you in working with TDA, please feel free to contact us at: (775) 687-4325, or by e-mail at: [ccintl@bizopp.state.nv.us](mailto:ccintl@bizopp.state.nv.us).

## MICROPALAEONTOLOGY APPLIED TO MINING

Microfossils can be used to solve a number of geologic problems in the exploration for economic deposits. They are abundant, diverse, widespread and occur in most sedimentary rocks. Learn about radiolaria, foraminifera and conodonts, their unique and fascinating forms, how to collect and process rocks to extract them, and examples of their utility in unraveling geologic problems.

A 1 credit course will be offered beginning November 13 through December 11 at Great Basin College, Elko, NV. The class will be held on Tuesday evenings, from 7 pm to 9:45 pm and will be taught by Dr. Mira T. Kurka. Call Great Basin College at 775/753-2100 to register, or Mira at 775/778-3246 for more information.

## GSN PICNIC – FUN FOR ALL

The Annual GSN Picnic was held Saturday, September 22<sup>nd</sup> and was a fun time for everyone who attended. The Alaskan salmon caught and grilled by Liz Crafford was enjoyed by all, along with plenty of pork loin and tri-tip. Competition in the adult games was fierce. Tom Callicrate won first place in the gold pan toss and he continued his throwing prowess in the hammer throw by tying for first place with newcomer, Jonathan Brown of the Nevada Mining Association. Laughs were had by all when everyone joined in the sack races and the ever-popular egg toss. Thanks to **The Great Basin Brewing Company** who generously donated the beer for the event. The Education Committee are to be commended again for another **s u c c e s s f u l** event!

Allison and Bob  
Thomas (GSN VP)  
clean their plates at  
the barbecue.



## UP-COMING EVENTS

**Nov 7, Wednesday – WINNEMUCCA CHAPTER MEETING:** Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: Dave Tretbar, Barrick Goldstrike. Topic: The Distribution, Chemistry and Dating of Galkhaite; an Uncommon but Important Accessory Mineral in Carlin-type Gold Deposits. Social-6:45 pm, meeting-7 pm. Meeting sponsor is American Assay Labs. Sheila Bunch for information, sbunch@lambdacom.com, 775/623-0202.

**Nov 9** – Northern NV section of SME meeting. Noon at the Bonanza Casino, Reno, NV. See the website for more information: www.smennv.org.

**Nov 9&10** – The Mighty Sullivan Mine is closing. Cominco is pleased to host a final geological meeting and mine tour in Kimberly, B.C. No registration fee. For registration information email helen.augustin@cominco.com.

**Nov 15, Thursday – ELKO CHAPTER MEETING:** High Desert Inn, Elko, NV. Speaker and topic to be announced. Refreshments at 6:30 pm. Contact Bill Weiner, BWeiner@bgmi.com for information.

**Nov 16, Friday – GSN MEMBERSHIP MEETING:** Reno Elks Lodge, Reno, NV. Speaker: Terry L. Jennings, Nevada Contact Inc., Reno, NV. Topic: Tonkin Springs, Eureka County, NV. Social-6 pm, dinner-7 pm (\$17), talk-8 pm. Contact Laura Ruud, 775/323-3500, email: gsn@mines.unr.edu.

**Nov 22, Thursday – SOUTHERN NEVADA CHAPTER MEETING:** Lilly Fong Geoscience Building, Room 102, UNLV, Las Vegas, NV. Speaker and topic to be announced. Social-5:30 pm. Contact Chris Riecken, 702/435-5664 for information.

**Dec 3-7** – Northwest Mining Association's 107<sup>th</sup> Annual Meeting, GeoDestiny-Resources for the Future, Double tree Hotel, City Center, Spokane, WA. 509/624-1158, www.nwma.org. Stop by the GSN Booth!

**Dec 15** – SME Christmas Party, Harrah's Prospector Club, Reno, NV. Begins at 6 pm. Contact Marcie Wood, 775/331-2375 for information.

## FALL FIELD TRIP WRAP-UP

The Fall Field Trip was held on September 29-30. The theme of the trip was "Magmatism and Gold Deposits in North-Central Nevada-Variations on a Theme". Our "laboratory" for the trip was Echo Bay's McCoy/Cove operation. After leaving early Saturday Morning, we arrived for lunch at Echo Bay's administration building. Following lunch, **Dave Emmons** and **Marcus Johnston** gave presentations and reviewed maps. Dave gave an interesting account of the history of the property, including the initial acquisition of McCoy and the later discovery of Cove. Marcus shared his findings from his work on the property as a PhD candidate with the CREG program at Mackay School of Mines. We then made several stops in the Cove Pit, which is filling up rapidly with water following cessation of mining and turning off the pumps. The next stop was the core shack, where we examined high-grade core and drill chips from both Cove Underground and McCoy. Saturday's dinner at the Hideaway Restaurant in Battle Mountain featured a large portion of prime rib. In addition to the 31 attendees, dinner guests included McCoy/Cove mine manager Keith Jones and his wife Shawn. Sunday morning was spent making various stops in the McCoy pit, where we got a good look

Field trip leader **Dave Emmons** gives his sermon in the McCoy pit.



at the stratigraphy, the Gold Dome dike swarm, and skarn mineralization at the pit bottom. Finally we got some exercise by walking to the old McCoy iron mine, which is a magnetite deposit within a dolomitic member of the Triassic Osobb formation.

The trip represented somewhat of a departure from the normal practice of visiting several mines in a particular area. The benefit was that we were able to spend more time examining geologic details and come to a better understanding of the two nearby McCoy and Cove deposits. Our field trip leaders really prepared well, and deserve a big thank you for their efforts. Dave lent a big hand in preparing the field trip guide book, which will serve as an excellent source of data for McCoy/Cove, particularly as the mining there has recently terminated and not much in the way of additional material will be forthcoming. The guidebooks can be purchased for \$35 from the GSN office. Acknowledgments go to the following generous sponsors that made the cost of the trip so reasonable to members – **Geotemps, Eklund Drilling, Bondar Clegg, CGS, and ALS Chemex.** Thanks also to **Keith Jones**, mine manager, and **Echo Bay Minerals** for allowing us to tour the property, and to **Debbie Crabtree** of Echo Bay for helping bind the guidebooks. Finally, thanks again to **Dave Emmons** and **Marcus Johnston** for a great job leading the trip.

## REQUEST FOR MEMBERSHIP INPUT – FIELD TRIP QUESTIONNAIRE

We want to provide members with interesting field excursions. Historically, we have emphasized economic geology and mine tours, reflecting the overriding interest of our membership. Visiting mines, however, is not something that is cast in stone. The basic goal of the trip is to see interesting geology and have fun. That covers a lot of ground. In that spirit, we are providing the following questionnaire.

For the spring GSN field trip, would you like to:

- \_\_\_\_\_ Continue to focus on mine tours and economic geology?
- \_\_\_\_\_ Industrial minerals?
- \_\_\_\_\_ Emphasize more purely geological aspects?
- \_\_\_\_\_ Do something totally different, like mineral or fossil collecting?

Please respond to this questionnaire: Laura Ruud (GSN office), email gsn@mines.unr.edu, 775/323-3500, or fax 775/323-3599.

Thanks for responding!

# GEOLOGICAL SOCIETY OF NEVADA



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