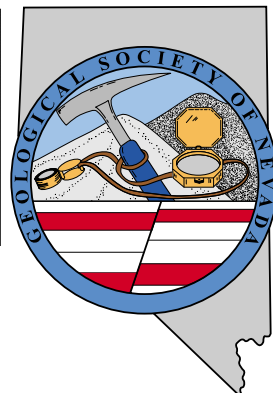


# GSN NEWSLETTER

Geological Society of Nevada, PO Box 13375, Reno, NV 89507 USA, 775/323-3500, www.gsnv.org  
Office location: Laxalt Mineral Research Center, Rm 266, UNR. Hours: Mon thru Fri, 9-4



September 2007, Vol. 22, No. 7

Published monthly except June and July

## PRESIDENT

**Greg Hill**  
Harvest Gold Corp. (US)  
hillgreg@charter.net

## VICE PRESIDENT

**Marcus Johnston**  
Victoria Resources US Inc  
marcus@apexmineralresources.com

## SECRETARY

**Leslie Olmstead**  
Agnico-Eagle (USA) Limited  
loimstead@agnico-eagle.com

## TREASURER

**Camille Prens**  
Mine Development Associates  
cami@mda.com

## MEMBERSHIP CHAIR

**Opal Adams**  
Enviroscientists, Inc.  
ofadams@enviroincus.com

## PUBLICATION CO-CHAIRS

**Marilyn Miller**  
Consulting Geologist  
marilyn.miller1@sbcglobal.net

## Debbie Schneider

Schneider and Schneider Assoc  
dschneider41@charter.net

## OFFICE MANAGER

**Rhonda Bayley**  
gsn@gsnv.org

## CALENDAR OF GSN EVENTS

### September 12, Wednesday – WINNEMUCCA CHAPTER

Our next meeting is at the Martin Hotel, Wednesday, September 12<sup>th</sup>, drinks beginning at 6:30, sponsored by X-Cal Resources Ltd, followed our speaker Mr. Robert Thomason at 7:00. The talk is entitled, "Evolution of the Sleeper Gold Property".

### September 21, Friday – GSN MEMBERSHIP MEETING

Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks at 6 pm, dinner at 7 pm, talk at 8 pm. Contact Rhonda Bayley for reservations, 775/323-3500, gsn@gsnv.org.

### September 21-23 – GSN Fall Field Trip

See page 2 for more information and sign up form.

### September 26-29

AGS Ores and Orogenesis Booth in Arizona. Volunteers needed. Please contact the GSN Office.

### September 20, Thursday – SOUTHERN NEVADA CHAPTER

Speaker is TBA.

### September 20, Thursday – ELKO CHAPTER

Our speaker for the September 20<sup>th</sup> Elko Chapter meeting is: Tom Chapin, Consulting Geologist Structure of the Pipeline Pit and Gold Acres Window.

### October 7, Sunday – GSN Annual Picnic

GSN Annual Picnic will be held at Rancho San Rafael Park beginning at 1:00 pm. See page 4.

**"IT'S DUES RENEWAL TIME!"**

## FROM THE PRESIDENT

Greg Hill, *GSN President 2007-2008*

While we prepare for the upcoming season of GSN events, the minerals industry is strong. As you are well aware, we are experiencing high prices for nearly every metal. This unprecedented situation brings with it lots of opportunity and it is worth reminding ourselves about just how good times are for geologists these days. The Society is also strong, and strengthening. As of May, our membership was up about 25% over last year and all of our events continue to be very well attended.

I think it is safe to say that many members of GSN are deeply appreciative of what the organization brings to their lives and careers. I have certainly benefited in many ways from GSN and I know many members feel the same way. This organization continues to flourish because of the efforts of many volunteers, the hard work of our minimal paid staff, and our numerous generous sponsors. This structure preserves a very low cost of doing business.

So, here's the pitch. If you've ever thought of volunteering for the Society (even in a moment of weakness), listen to those thoughts, and join the long list of those who have made this Society great. We are currently looking to fill the

## SEPTEMBER MEETING SPONSOR



# Eklund Drilling Company, Inc.

### IN ELKO

605 Union Pacific Way  
Elko, NV 89803  
(775) 738-1980  
Fax (775) 753-9229

### IN RENO

980 Caughlin Crossing, Suite 100  
Reno, NV 89519  
(775) 324-7730  
Fax (775) 787-6983

position of Secretary and other positions will also need to be filled in the future. To volunteer, get in touch with me or any member of the Executive Committee.

At this month's Reno dinner meeting, you'll hear Roger Steinger discuss some of the people that make up that list

*continued on page 4*



# News and Announcements

## GSN FALL FIELD TRIP

September 21-23, 2007

### Faults, Folds, and Mineral Belts: Regional Structural Systems, Gold Mineralization, and Exploration Potential in the Great Basin

Field Trip Coordinator:

Marcus K. Johnston, Victoria Resources US Inc.

The GSN Fall field trip is intended to elucidate relationships between the regional structural framework and gold mineralization across the Great Basin. Although the ages for gold deposits in the area range from late Jurassic to Pliocene, deposits formed between 42 and 36 Ma are the most important producers, containing well over 300 million troy ounces of gold in past production and current reserves, resources, and inventories. These late Eocene deposits are also the sites for both recent discoveries and ongoing, intensifying exploration. Besides sharing common ages, late Eocene deposits share consistent relationships with regional structural systems, especially those related to low-angle thrusting and folding during the Devonian-Mississippian Antler and Permo-Triassic Sonoma orogenies, regional Mesozoic folding, and high-angle Cenozoic extensional faulting.

This field trip will unite several experts from the mining and exploration industries to present the regional structural framework of the Great Basin. The field visits will focus on late Eocene Carlin-type deposits in north-central Nevada. Barrick and Newmont have graciously provided tentative permission to visit several of their active mines along the Getchell, Battle Mountain-Eureka, and Carlin gold belts.

We are currently planning a three-day trip, with day one including an 8 am departure from Reno on September 21<sup>st</sup>, and field visits to the Twin Creeks and Getchell open pit mines in Humboldt County. We will overnight in Battle Mountain, where a regional overview of structural systems and the use of structural systematics in gold exploration will be presented. Day two will be focused on the Cortez portion of the Battle Mountain-Eureka trend, which includes parts of Lander and Eureka Counties, with field visits to the Cortez and Pipeline open pits. Day two will also include field presentations for the recently discovered Cortez Hills deposit, and current exploration activities at the adjacent Mill Canyon property. We will stay in Elko for the second night, and close out day three with a morning visit to the Gold Quarry open pit mine, along the portion of the Carlin gold belt that cuts northern Eureka County. We will be back in Reno by 5 pm on the 23<sup>rd</sup>.

The schedule of field stops is subject to change, pending operation schedules for Barrick and Newmont. Any updates and a finalized schedule will be provided in the coming months.

Please complete and submit ASAP:

**Fall 2007 Field Trip Sign Up**

Name \_\_\_\_\_

Daytime Phone \_\_\_\_\_

Fax \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Email \_\_\_\_\_

Person to contact in case of emergency:

Name \_\_\_\_\_ Phone \_\_\_\_\_

---

**Lodging**

Single\_\_ Double \_\_

Roommate (or we will assign) \_\_\_\_\_

MEMBER COST:	double room	\$250.00
	single room (Limited Number)	\$310.00
*NON-MEMBER COST:	double room	\$300.00
	single room	\$360.00

\*Non-members are encouraged to become members of the GSN for \$35 annual dues in order to take advantage of the reduced rates.

Amount included with this form \$ \_\_\_\_\_

Paid with Check # \_\_\_\_\_

Visa\_\_ MC\_\_ Exp Date \_\_\_\_\_

Credit Card # \_\_\_\_\_

Signature \_\_\_\_\_

(as it appears on card)

**Payment must be made by August 31, 2007**  
**No refunds after August 31, 2007**

Fax: 775/323-3599 or mail to GSN office:  
P.O. Box 13375, Reno, NV 89507, or email to: gsn@gsnv.org

### FALL FIELD TRIP ITINERARY

#### Friday, September 21, 2007

- 7:30 am Meet at the UNR parking lot
- 8:00 am Bus leaves promptly at 8:00am
- 11:00 am Field stop near the Preble open pit:  
regional overview of late Eocene gold belts

*continued*

**Thanks to ENVIROSCIENTISTS, INC.**  
**for hosting the Doug Silver Summer Series.**

# GSN September 21, 2007 Membership Meeting

**Date:** Friday, September 21, 2007

**Time:** Social-6:00, Dinner-7:00 (\$17), Meeting-8:00

**Reservations:** 775/323-3500; fax 323-3599,  
e-mail gsn@gsnv.org

**Deadline:** Reserve by 1 pm Thursday, September 20<sup>th</sup>

**Location:** Elks Lodge, 597 Kumle Lane, Reno, NV

**Directions:** Across (W) from the Reno-Sparks Convention Center (S Virginia St), behind the Les Schwab Tire Center

**Speaker/topic:** Roger C. Steininger, Consulting Geologist.  
See abstract below.

## FALL FIELD TRIP ITINERARY *continued from page 2*

11:45 pm Lunch – en route  
12:15 pm Twin Creeks mine tour  
4:00 pm Bus leaves Twin Creeks for Getchell  
4:30 pm Getchell mine complex overview  
5:30 pm Bus leaves Getchell for Battle Mountain  
7:00 pm Dinner  
8:00 pm Talk: Regional Structural Systems and the Use of Structural Systematics in Gold Exploration

Overnight lodging in Battle Mountain

## Saturday, September 22, 2007

Breakfast on your own  
8:00 am Bus leaves Battle Mountain for Reese River Valley  
8:30 am Overview of regional structures in the northern Shoshone Range  
9:30 am Bus leaves Reese River Valley for Pipeline  
11:00 am Overview of the Cortez District from Pipeline  
11:45 am Lunch  
12:15 pm Pipeline mine tour  
3:15 pm Bus leaves Pipeline for Cortez  
3:45 pm Cortez mine overview, with field presentations for Cortez Hills and Mill Canyon  
5:15 pm Bus leaves Cortez for Elko  
7:30 pm Dinner

Overnight lodging in Elko

## Sunday, September 23, 2007

Breakfast on your own  
8:00 am Bus leaves Elko for Gold Quarry  
9:00 am Gold Quarry mine tour  
12:30 pm Bus leaves Gold Quarry for Reno, lunch en route  
5:00 pm Bus arrives at the UNR parking lot

Price includes transportation, overnight lodging on nights of September 21 and 22, snacks and drinks, lunches, dinners, and guidebook.

Reservations are on a **first-come, first-served basis**; attendance is limited to **21 participants; only 21 seats remaining**.

**Payment and clearance forms must be received in the GSN office by August 31, 2007 to guarantee the reservation.**

## EVOLUTION OF THE GEOLOGICAL SOCIETY OF NEVADA AND GOLD GEOLOGY CONCEPTS IN THE GREAT BASIN

Roger C. Steininger, Consulting Geologist

The first meeting of the Geological Society of Nevada was held the afternoon of December 9, 1957. During the past 50 years our Society evolved from small meetings in an upper room of the Mackay School of Mines building to a diverse group with three chapters, a foundation, well attended meetings, field trips, symposiums, and numerous special events. The evolution of the Great Basin gold industry also has humble beginnings. Three events supplied the starting point for where we are today; the USGS heavy metals program, the discovery of the Carlin gold deposit, and President Nixon closing the gold window.

GSN started as a discussion group meeting the third Friday afternoon of each month during the school year to consider geological ideas. The organization was more along the lines of the Geological Society of American, than the Society of Economic Geologists. Meetings consisted of a handful of members followed by refreshments and a discussion of the presentation. The desire to include "adult beverages" to stimulate discussions precipitated a move to the Stein Hofbrau on Sierra Street in downtown Reno in 1963. In concert with the growth in Nevada's mining and exploration industry in the late 1970s the Society's membership exploded. Meetings were held at several locations as attendance grew until the move to the Reno Elks Club in September 1996. The first GSN field trip was to Alligator Ridge in September 1981, with the first published guidebook accompanying the fall 1984 trip to Pinson, Florida Canyon, Rochester, and Relief Canyon. Field trips were expanded to the two a year format in 1988. The symposium series evolved from the initial 1987 meeting by yet another local geological group with a one volume proceeding publication into a must attend event with a highly regarded publication. Along the way, special events have become integral parts of the organization such as the family picnic, golf tournament, and Doug Silver series. The Society expanded to include chapters in Elko, Winnemucca, and Las Vegas, and the GSN Foundation.

Growth in Great Basin mining and exploration paralleled an expansion of the understanding of gold deposit

*continued on page 4*

## FROM THE PRESIDENT continued from page 1

and the accomplishments of GSN volunteers that have built the platform on which we now stand. These people have met many challenges through the years and I would like to express my gratitude to all of those volunteers.

I also want to express my gratitude to the Executive Committee and our new office manager, Rhonda Bayley. Several volunteers worked very hard to identify Rhonda as a great match for GSN and bring her into the fold. She has responded admirably and has proven to be both a quick learner and a hard worker. As an example, she has been very effective at sorting out some stubborn problems with our e-mail system which appear to be related to a recent change of the mail server.

I appreciate your patience and understanding as we work through the challenges associated with conducting the activities of your Society. I look forward to seeing you at the many fun and interesting upcoming GSN events. And don't forget, listen to those thoughts, and volunteer for the benefit of the Society.

## ABSTRACT continued from page 3

geology that can be traced in part through the articles and presentations at the Society. The initial paper on Carlin in the 1968 AIME Graton-Sales Volumes produced several misconceptions about windows through the upper plate of the Roberts Mountain thrust fault, Roberts Mountains Formation, and the thrust itself as exploration guides. As fine-grain disseminated gold deposits were discovered in other geologic environments it became clear that host rock and structure were more important than the Roberts Mountains Formation and the Roberts Mountain thrust. During the 1980s gold was also discovered in a variety of volcanic rocks, hot springs deposits, along detachment(?) faults, and in epithermal veins. Greater exposure of gold deposits through mining presented the opportunity to map and sample, developing more detailed information of processes in and origins of gold deposits. As the easily discovered gold systems were explored in the mountain ranges of the Great Basin exploration moved onto the surrounding pediments and into the basins. New research was undertaken on geophysical, remote sensing, and geochemical techniques that assisted in making discoveries. GSN meetings were commonly the venue where these new ideas could be presented.

## GSN'S 19<sup>th</sup> ANNUAL FAMILY PICNIC

The 19<sup>th</sup> annual GSN Family Picnic will be held on Sunday, October 7 at the Highland Pavilion at Rancho San Rafael, Reno, NV, starting at noon and wrapping up around 4:00 pm. We'll provide the meat, beer, and games; you bring a side dish, a competitive spirit, and possibly a spouse and kids! If you are single, bring a friend! Only \$5 a person and \$10 per family. Please contact Rhonda Bayley before October 5<sup>th</sup> if you plan on attending and let her know how many will be in your party so we can have enough meat and beer! We look forward to seeing you on October 7<sup>th</sup>.

### 19<sup>th</sup> ANNUAL GSN FAMILY PICNIC

**Rancho San Rafael, Highlands Pavillion**

**Sunday, October 7, 2007**

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

Total # family members or guests in your party: \_\_\_\_\_

Ages of children: \_\_\_\_\_

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

City/State/Zip: \_\_\_\_\_ Daytime phone: \_\_\_\_\_

Bringing salad: \_\_\_\_\_ vegetable: \_\_\_\_\_

or desert: \_\_\_\_\_

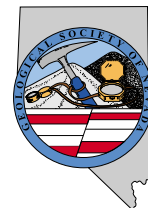
Enclosing: **\$10.00 per family** or **\$5.00 per single**

Credit Card # \_\_\_\_\_ or Check # \_\_\_\_\_

**Please mail to:**  
**Geological Society of Nevada**  
**PO Box 13375, Reno, NV 89507,**  
**or fax to: 775/323-3599**

## Join the Geological Society of Nevada

For an application form, visit our website at [www.gsnv.org](http://www.gsnv.org) or contact the GSN office at 775/323-3500 or [gsn@gsnv.org](mailto:gsn@gsnv.org)



## ALS Chemex



We are a global analytical testing company serving the mining and mineral exploration industry in Nevada and around the world.

**We specialise in:**

- Assaying and geochemical analysis for mining and mineral exploration projects
- On-site contract mine laboratory management
- Environmental monitoring of mining operations
- Acid mine drainage studies

Contact our laboratories in Nevada to find out how we can help you with all of your project's analytical needs.

**RENO, NV**

Phone: 775 356 5395

**ELKO, NV**

Phone: 775 738 2054

**WINNEMUCCA, NV**

Phone: 775 625 4192

[www.alschemex.com](http://www.alschemex.com)

*Right solutions....  
....Right partner*

# Sample Bags

HUGE INVENTORY

LOW, LOW PRICES



**NEW ADDRESS!**  
**LEGEND, INC.**

988 Packer Way  
Sparks, NV 89431

Off Glendale east of McCarran  
phone: (775) 786-3003  
fax: 786-3613  
[www.Lmine.com](http://www.Lmine.com)  
email: [info@Lmine.com](mailto:info@Lmine.com)



## Enviroscientists, Inc.

4600 Kietzke Lane, Suite C 129, Reno, Nevada 89502  
Phone: (775) 826-8822 Fax: (775) 826-8857

**Notices, Plans of Operations,  
Cost Estimates, TRI, Biological Surveys,  
Air Quality Permits & Audits**

[Info@enviroincus.com](mailto:Info@enviroincus.com)

[www.enviroincus.com](http://www.enviroincus.com)

Fire Assay  
ICP - OES  
ICP - MS  
AAS  
Custom Preparation  
Bullion Analyses  
BLEG

**Corporate Office**  
1500 Glendale Avenue  
Sparks, NV U.S.A. 89431-5902  
Telephone (775) 356-0606  
Fax (775) 356-1413

Chris Ioannakis, Managing Director,  
Analytical Services

**Elko Office**  
2320 Last Chance Road  
Elko, NV U.S.A. 89801-4852  
Telephone/Fax (775) 738-9100

E-mail: [AALADMIN@aallabs.net](mailto:AALADMIN@aallabs.net)  
Website: [www.aallabs.com](http://www.aallabs.com)



## American Assay & Environmental Laboratories



## Carlin Trend Mining Supplies & Service

[www.carlintrend.com](http://www.carlintrend.com)

369 5th St., Elko, NV 89801  
(775) 778-0668, Fax: (775) 778-0687, [carlintrend@frontiernet.net](mailto:carlintrend@frontiernet.net)

Geological Consulting - Claim Staking - Soil Sampling  
Geology & Drafting Supplies - AutoCad & GIS  
Temporary Employees In All Fields

## SERVICIOS HIDROGIS

GEOGRAPHIC INFORMATION SYSTEMS

Dirk Masuch Oesterreich (Geologist, Proprietor)  
A.P. 107; Carretera a Galeana, km. 4  
Linares, Nuevo León, México, C.P. 67700  
Tel.: +52 821 212 5908, +52 821 212 8311  
[www.servicioshidrogis.com](http://www.servicioshidrogis.com)



Please ask for our maps and GIS database of stock exchange listed mining companies in Nevada  
[info@servicioshidrogis.com](mailto:info@servicioshidrogis.com)

## MINERAL EXPLORATION SERVICES

**SOIL SAMPLING  
CLAIMSTAKING  
PROPERTY EVALUATION  
MINE HAZARD FENCING**

5655 Riggins Ct., #15, Reno, NV 89502  
Tel: (775) 954-1082 Fax: (775) 829-6882  
email: [day@mineralexploration.com](mailto:day@mineralexploration.com)

HOWARD J. ADAMS  
President

**HARD ROCK WHEELS, INC.**

4WD Pickup Rentals

14756 Pine Knolls Ln  
Reno, Nevada 89521  
(775) 852-2622  
Fax (775) 852-2075

MIKE TOLBERT  
2700 S. Cushman St.  
Fairbanks, AK 99701  
(907) 452-6631



**ENVIRONMENTAL SERVICES  
FOR THE MINING INDUSTRY**

environmental consultants, inc.

- Baseline Studies
- Environmental Permitting
- Monitoring & Compliance
- Reclamation & Closure Plans
- Investigation & Remediation

**Elko Location  
775-738-8766**

www.jbrenv.com

Reno and Salt Lake City locations



**Claim Staking / Soil Sampling / Grids  
Experienced / Dependable/ Trimble GPS**  
Gary Castagne 775-250-4879  
John Fernandez 775-815-2587

**www.westernrecon.com**

Jo Beth Allen  
*Professional Graphics*

CAD Drafting/Digitizing/Scanning  
High Resolution Presentation Graphics  
Plotting/Printing  
Geologist

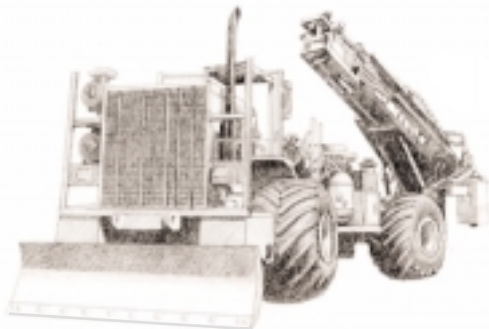
1055 Joshua Drive  
Reno, Nevada 89509

Phone: 775-324-7960  
Fax: 775-324-7583

jobeth@yellowsb.net



**DIVERSIFIED DRILLING, LLC**

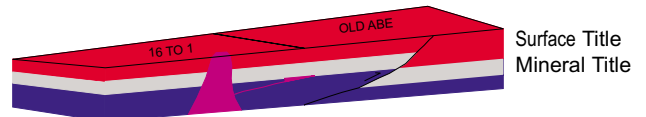


*Providing Drilling Services To The  
Mining/Metals Industry Since 1980*

3650 Grant Creek Road  
Missoula, Montana 59808  
Phone: (406) 542-1010 Fax: (406) 542-5065  
www.diversifieddrilling.com

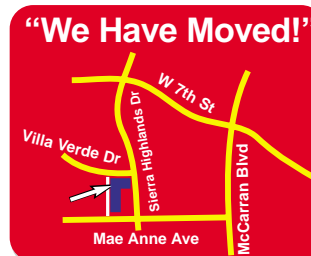
**GIS Land Services**

Greg Ekins M.S. R.L.P. #32306 President  
Mineral Landman - GIS Cartographer



*"From Courthouse Records to Final Map"*

- Land Status Maps
- Geologic
- Geo Chem
- AutoCad Map
- Arc Map
- Mapinfo
- Discover
- Power Point



5365 Mae Anne Ave B-14A  
Reno, NV 89523  
P:775-746-8803  
P:775-746-2110  
F:775-746-8802  
E:greg@gislandservices.com

www.gislandservices.com

**PARKER MINING CORPORATION  
TIP TOP GOLD PROJECT**

Parker is seeking an experienced mining firm to take on development of its Tip Top gold project located in Esmerada County, Nevada. Twenty two lode claims are held in T1N, R33E

Extensive shallow drilling in the vicinity of the historic Tip Top gold mine has defined a resource recoverable by a small open pit mine with a low stripping ratio. Column and bottle roll tests indicate that the material is amenable to conventional leaching.

The volcanic-hosted, low sulfidation, epithermal gold-silver deposit is open-ended in one direction providing an excellent exploration opportunity. The Forest Service has approved a permit for drilling an additional 25 holes through 2008.

Parker's extensive data base, including drill cores and logs, assays, maps, and reports is available for inspection in Sparks, Nevada.

**Parker Mining Corporation**  
126 San Carlos Avenue  
Sausalito, CA 94965-2047  
Telephone: 415-331-5980 Fax: 415-331-3065

*Big Sky Geophysics*

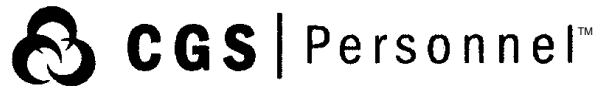
Clark Jorgensen, M.Sc.  
Geophysicist

*Field Work  
Processing  
Interpretations*

P.O. Box 353  
Bozeman, MT 59771  
USA

Phone: (406) 587-6330  
Fax: (406) 587-6394  
Mobile: (406) 580-9718  
clark@bigskygeo.com

For more details, my background, and case studies, visit my webpage at [www.bigskygeo.com](http://www.bigskygeo.com)



**DIXIE BULLOCK**  
DISTRICT MANAGER

390 East Moana Ln., Ste. 2

**WILMA HATTER**  
SERVICE REPRESENTATIVE  
HATTERW@SOSSTAFFING.COM

RENO, NV 89502  
T. 775.331.5227 F. 775.323.7772  
WWW.SOSSTAFFING.COM

*A Division of SOS Staffing Services, Inc.*

**THE GSN FOUNDATION  
NEEDS YOUR HELP**

Roger Steininger, *GSN Foundation Executive Director*

What happens when your truck needs a new starter motor? You go to the local auto parts store and get a replacement part. When the drill rigs breaks down your favorite drilling company brings in spare parts to make the repair. Look around the next GSN meeting and you will note that most of us are wearing out and will need replacing. Where will the replacement parts come from? The GSN Foundation has an answer.

The Foundation has programs designed to entice young people into considering careers in geosciences and to support them at the college level. The K-12 Field Trip program supplies support for elementary and secondary school geosciences field trips to stimulate interest in these fields. The Foundation also funds scholarships at UNR and UNLV, and we would like to expand the program at Nevada universities and colleges. We also give a modest yearly contribution to the UNR DeLaMare Library. Since most of the membership uses the library, Foundation support is important to maintaining this high quality facility. The Foundation also has a goal of contributing to the Nevada

Bureau of Mines and Geology Mapping Grant program. Lack of funds has prevented the Foundation from attaining this goal.

There are two sources for funding the Foundation, our membership and outside contributors. In the past our membership has not been too forthcoming with contributions. I am about to launch a fund raising drive to tap outside sources. This effort will be enhanced by the ability to tell prospective contributors that a large majority of our membership is behind the Foundation through their contributions. With times as good as they currently are I encourage each of you to add a contribution to the Foundation when renewing your membership. I also ask you to encourage the companies that you work with to match, or exceed, your contribution.

**VOLUNTEERS NEEDED**

GSN will be having a booth at the AGS Ores & Orogenesis Circum-Pacific Tectonics in Arizona on September 26<sup>th</sup> through the 29<sup>th</sup>. We are in need of volunteers. If you would like to volunteer please contact the GSN Office at 775/323-3500.

## ACTIVITY UPDATE

Mike Brady, July 2007  
www.activityupdate.com

### NEVADA

Atna Resources Ltd.(30%) announced that based on recent drill results at the Pinson Project, resources aggregate 2,505,000 tons @ 0.424 opt Au measured+indicated and 3,374,000 tons @ 0.340 opt Au inferred. (was 1,691,300 tons @ 0.419 opt Au measured+indicated)

*Press Release: July 11*

Barrick Gold Corp. announced it terminated its interest in the Horse Mountain Project of Miranda Gold Corp.

*Press Release: July 16*

Fronteer Development Group Inc. announced it offered to acquire NewWest Gold Inc. in a 0.26 share Fronteer/1.0 share NewWest exchange. (resource @ Northumberland (40%) = 30,800,000 tons @ 0.067 opt Au measured+indicated)

*N.M.: July 9*

Imperial Metals Corp. announced that the access ramp at the Sterling Project is progressing well and is now at 2,187 feet (out of a planned 3,300 feet). The ramp is expected to reach the 144 Zone in September when underground drilling will then commence. (resource = 214,100 tons @ 0.217 opt Au inferred)

*Press Release: July 3*

Klondex Mines Ltd. announced that recent drill results at the Fire Creek Project include 465-470 feet @ 0.734 opt Au (FC0701); 1,077.7-1,115 feet @ 0.630 opt Au (FC0702); 1,115-1,125 feet @ 0.182 opt Au (FC0711) and 935-951 feet @ 0.322 opt Au (FC0704). (resource = 1,760,000 tons @ 0.582 opt Au indicated)

*Press Release: July 4*

Midway Gold Corp. announced that recent drill results at the Spring Valley/American Canyon Project include 65-180 feet @ 0.18 opt Ag (AC07-01) and 120-190 feet @ 1.22 opt Ag (AC07-02).

*Press Release: July 5*

Midway Gold Corp. announced that recent drill results at the Spring Valley Project include 317-333 feet @ 0.011 opt Au (SV07-248C); 889-945.2 feet @ 0.023 opt Au (SV07-248C); 375-410 feet @ 0.016 opt Au (SV07-237); 405-465 feet @ 0.024 opt Au (SV07-238); 450-520 feet @ 0.013 opt Au (SV07-239) and 600-640 feet @ 0.023 opt Au (SV07-250). (resource = 10,030,000 tons @ 0.024 opt Au measured+indicated)

*Press Release: July 10*

Mill Bay Ventures Inc. announced it acquired an option to earn a 100% interest in the AC Property from private interests for \$1,500,000 cash and \$1,500,000 in exploration expenditures over 15 years.

*Press Release: July 15*

Meridian Gold Inc. announced it acquired an option to earn a 51% interest in the Golden Repeat Property from Mill

Bay Ventures Inc. for \$1,675,000 cash and \$1,300,000 in exploration expenditures over 4 years.

*Press Release: June 27*

NewWest Gold Corp. announced that based on recent drill results at the Sandman Project, resources aggregate 1,710,000 tons @ 0.048 opt Au measured; 6,323,000 tons @ 0.030 opt Au indicated and 1,418,000 tons @ 0.027 opt Au inferred. (no previous data)

*Press Release: June 25*

X-Cal Resources Ltd. announced that recent drill results at the Sleeper Project include 315-345 feet @ 0.010 opt Au (XR07-26); 160-240 feet @ 0.013 opt Au (XR07-04); 415-525 feet @ 0.010 opt Au (XR07-37); 380-450 feet @ 0.020 opt Au (XR07-32); 230-270 feet @ 0.021 opt Au (XR07-39) and 515-585 feet @ 0.011 opt Au (XR07-71). (resource = 150,000 tons @ 0.363 opt Au inferred)

*Press Release: July 10*

Nevada Copper Corp. announced that recent drill results at the Pumpkin Hollow Project include 577.2-628.8 meters @ 2.54% Cu, 0.005 opt Au (NC07-14) and 173.7-204.2 meters @ 0.99% Cu, 0.002 opt Au (NC07-15). (resource = 312,000,000 tons @ 0.44% Cu measured+indicated)

*Press Release: July 26*

Great Basin Gold Ltd. announced that reserves at the Hollister Project aggregate 869,000 tons @ 1.014 opt Au, 5.13 opt Ag proven+probable. (was 561,000 tons @ 1.048 opt Au, 6.12 opt Ag measured and 341,000 tons @ 1.009 opt Au, 5.11 opt Ag indicated)

*M.J.: July 20*

Great Basin Gold Ltd. announced that it would develop the Hollister Project at a capital cost of \$66,300,000 to produce 139,000-ounces/year gold and 600,000-ounces/year silver over 6 years. (reserve = 869,000 tons @ 1.014 opt Au, 5.13 opt Ag proven+probable)

*M.J.: July 20*

Gryphon Gold Corp. announced that it would purchase a 100% interest in Nevada Eagle Resources LLC from Jerry Baughman for \$2,500,000 and 4,500,000 shares.

*Press Release: July 6*

## EMAIL PROBLEMS

As many of you know we have had some email issues of late. I would like to take this time to thank you for your patience in this matter. We have recently moved our emails off the UNR Exchange Servers and onto our own email system. This unfortunately caused some unexpected issues.

Some large ISPs scan emails for suspect material and block anything that doesn't add up. Our email is on a service that doesn't always resolve the IP address back to GSN. When this happens our emails can get blocked. We are working diligently to provide a fix for this problem. In the interim your continued patience is appreciated.

If you have any further concerns or questions please don't hesitate to contact Rhonda at the GSN office.



# GSN MEMBERS' NEWS AND ANNOUNCEMENTS

## Career Related Moves

► **Senator Mark Amodei** takes the helm at Nevada Mining Association. Senator Mark Amodei was elected President of the Nevada Mining Association.

► **Joseph Martini** with Enviroscientists, Inc. is transferring to the Enviroscientists Elko office to take the position of Regional Manager. He will be in the Elko office starting October 1, 2007. Joseph will continue to work with all of his current clients and market company services to the northern Nevada market.

## Deaths

### ► **Ralph J. Roberts**

On Friday the 10<sup>th</sup> of August, my friend, my former partner, my mentor, and in the end, my surrogate dad, Dr. Ralph J. Roberts died as a result of a stroke. Richard Andrews and I had thankfully met with Ralph at the end of July on our way to a meeting in Vancouver.

Ralph was a great scientist and certainly a great gold predictor and gold finder. I am sure that you would agree that he was a giant among geologists and the most gentle and honorable of men. His loss to his family is acute and I hope that these sad days turn into memories, like mine, that are full of Ralph's passion for his science, gold, and his family.

Ralph's son's, who I also emailed, will be arranging memorial services for their family and I think there are plans to have another memorial in Reno, hopefully. I apologize if you already received these bad news.

*Raul Madrid*

### ► **Robert E. (Bob) Kendall**

It is with a sad heart that we announce the passing of our father Robert E. (Bob) Kendall on August 8, 2007 at the age of 84. Bob was born in San Francisco in 1923 and was raised by his parents Zeb and Belle Kendall on the Comstock Load in Virginia City. His mining roots are deep in the hills of Virginia City. Bob graduated in 1948 from the Mackay School of Mines at UNR with a degree in mining engineering. After graduation he served his apprenticeship as an engineer and mine foreman in various mines in Nevada, Colorado and California. In 1954 he joined U.S. Borax and Chemical Company and enjoyed a long very successful career starting out as a construction and mine manager and retiring in 1988 as President of the company. Bob moved back "home" to Reno in 2003 after 55 years. He had kept himself busy in his last years with being a member of the Executive Advisory Board of the Mackay School of Mineral Sciences and Engineering, being a volunteer at the Keck Museum, reading book after book and attempting his hand at water color painting. His biggest passion was for the Historic Fourth Ward School in Virginia City, NV where he attended school from 1928 to 1936. He was very proud to have created the Robert E. Kendall Endowment Fund for the school. The family would like to thank those who have entered into his life as he was a man who valued deeply the many friendships that he had. We will all miss him but solace is found in the fact that he is now in heaven with his beautiful wife Ruthie. Celebratory services will be held on August 25 at 2 p.m. at the Historic Fourth Ward

School located at 537 South C Street, Virginia City NV. In Lieu of flowers, donations can be made to the Historic Fourth Ward School, PO Box 4, Virginia City, NV 89440.

*Rachel Dolbier*

### ► **Dr. Richard H. DeVoto**

We are sad to announce Dr. Richard H. DeVoto, 72, died August 21 after a long battle with cancer. He is survived by his wife, Judy, three children and their families and three stepchildren, and nine grandchildren. A memorial service was held on August 26 at Jefferson Unitarian Church, Golden CO.

A native Californian, Dick graduated from Palo Alto High School in the shadow of Stanford University but decided to go east to attend Dartmouth College where he received an AB (1956) and MSc (1957) in Civil Engineering, and then moved west to earn a DSc in Geological Engineering from the Colorado School of Mines (1961). Dick attended Mines on a National Science Foundation Scholarship won through national competition. He did superior work in the class room and on a thesis describing the Geology of Southern South Park, Colorado. His work was one of the first to describe ash flow tuffs in Colorado, a new concept that was later expanded to interpret the processes that formed the volcanic rocks in central and southwest Colorado. As an advisor at Mines, I observed his leadership in graduate work that set high standards for colleagues and future students to emulate. Dick also had a life long interest and participation in sports, and entered politics to serve 6 years as a member of the Jefferson County School Board.

Dick distinguished himself in his 46-year career in natural resources in exploration, development, management, and education. After graduation from Mines, Dick was employed in the petroleum industry, first for Mobil Oil Co. in Libya and then Shell Oil Co. in Casper, WY. Dick returned to Mines as a professor in 1966 and retired in 1987. Following retirement, he worked full time for Canyon Resources as President and CEO, a company he co-founded in 1979. As a founding Director of an affiliated company in Australia, Delta Gold N.L., he participated in world wide exploration and development of mineral deposits.

Students at Mines rated him as an excellent teacher and an inspiration in identifying and directing thesis research projects. He published extensively about Mississippian carbonates, and contained replacement ore deposits, the Pennsylvanian system, and the Ancestral Rocky Mountains. These timeless articles leave an enduring legacy about his knowledge of Colorado Geology to be shared by all of us. In addition, he taught stratigraphy, field geology, and the economic geology of ore deposits in sedimentary rocks with emphasis on uranium geology.

The high qualities of leadership, enthusiasm for geology, and unique creative abilities that Dick displayed in the teaching and research career at Mines were carried into industrial work where, through Canyon Resources, he became a respected and admired spokesman for the mining industry in describing everyday problems caused by new regulatory laws passed in the 1970s and 80s.

His keen wit, kind and optimistic nature and dedication will be missed by family, friends, former students and colleagues. Contributions in his memory may be made to Richard H. DeVoto Scholarship Fund, Colorado School of Mines Foundation, P.O. Box 4005, Golden, CO 80401.

*Robert J. Weimer, Professor Emeritus, Geology and Geological Engineering, Colorado School of Mines, August 25, 2007*

## *Thank you to our generous donors*

### **GSN Foundation**

#### **SILVER LEVEL DONORS \$100-\$499**

William W. Walker  
Thomas N. Westervelt  
L. John (Jack) Bernard  
William C. Berridge  
Dieter A. Krewedl

#### **BRONZE LEVEL DONORS \$1-\$99**

Phil Jacob  
Sheila Bunch  
Diane Phillips-Ferree  
Joseph A. Laravie  
Elizabeth Crafford  
Thomas Kilbey  
Bert W. Jeffries  
Richard C. Fox  
Rene G. Von Boeck

### **Student Dinner Fund**

L. John (Jack) Bernard  
Bert W. Jeffries  
Richard C. Fox  
Dieter A. Krewedl

## **BRUCE HURLEY INTERVIEWED BY KTVN CHANNEL 13**

On August 15, Bruce was interviewed, as a GSN spokesperson, by KTVN (Channel 13) Television in Las Vegas. The topic of the interview was the potential for an earthquake in the Las Vegas area of similar type and magnitude which occurred on August 14 in Peru. Bruce explained that the Peruvian earthquake was caused by sliding of the ocean floor beneath the western edge of the South American continent at the boundary between these two tectonic plates, in what is called a subduction zone.

He explained that this is the geologic setting which typically produces the largest earthquakes, and that the location of Las Vegas well away from similar plate margins makes the occurrence of such an earthquake in southern Nevada very unlikely. He also mentioned that there are a number of known faults within the Las Vegas area which are believed capable of producing a sizeable earthquake, but that it would have a different type of motion and a magnitude much less than that of the Peruvian event.

## **UPCOMING EVENTS**

**September 15-16** – Elko Gem & Mineral Show at the Elko Convention Center.

**September 21, Friday** – GSN MEMBERSHIP MEETING. Reno Elks Lodge 597 Kumble Ln, Reno, NV, Drinks at 6 pm, dinner at 7 pm, talk at 8 pm. Contact Rhonda Bayley for reservations, 775/323-3500, gsn@gsnv.org.

**September 24-30** – Arizona Geological Society - Ores & Orogenesis - Circum-Pacific Tectonics, Geologic Evolution, and Ore Deposits – a symposium in honor of William R. Dickinson. Full details on the symposium can be viewed at [www.agssymposium.org/](http://www.agssymposium.org/).

**October 7** – GSN Annual Picnic Ranch San Rafael Park 1:00 pm.

**September 22-24, 2008** – Mine Expo – Las Vegas Convention Center – Visit [www.minexpo.com](http://www.minexpo.com) for more information.

**NOTE:** Some items left at the Silver Summer Series: a pair of black sunglasses (no brand but made in China) and a GeoTemps hat with a large pair of brown sunglasses (these were left in the lawn area).



*Sketch by Larry Jacox*

### **GSN Newsletter Monthly Advertising Rates**

Business card size (3 1/2 x 2'')	\$ 50.00
Quarter page (3 1/2 x 4 3/4'')	150.00
Half page (4 3/4 x 7 1/2'')	300.00
Classified ads \$10/line (up to business card size)	

**For an advertising form, call the GSN office at 775/323-3500 or fax 323-3599. Digital or text ads must be received by the 20<sup>th</sup> of the month to appear in the following month's newsletter.**



# GEOLOGICAL SOCIETY OF NEVADA

P.O. Box 13375, Reno, NV 89507 USA

Phone (775) 323-3500 • Fax (775) 323-3599 • gsn@gsnv.org • www.gsnv.org

Offices are located on the University of Nevada, Reno Campus, Laxalt Mineral Research Center, Room 266  
Office hours: 9-4 pm, Monday through Friday

The Geological Society of Nevada (GSN) is a non-profit, educational organization whose principal objective is to promote the advancement of geological sciences, especially as they relate to Nevada. GSN supports the dissemination of information through meetings, field trips, publications and academic endeavors. Membership is open to geologists, geophysicists, geochemists, engineers, educators, students, prospectors or anyone else with an interest in the geological sciences and/or the goals of the GSN.

The GSN membership year begins in June. Annual dues of \$35.00 (\$17.50 for full time students) are due in the fall. The GSN sponsors a Field Trip in the Fall and one in the Spring of each year. Monthly meetings are held on the third Friday of each month, September through May. The following are sanctioned Chapters of the GSN: Elko Chapter, based in Elko; Southern Nevada Chapter, based in Las Vegas, and the Winnemucca Chapter, based in Winnemucca.

Please remember the GSN Foundation when renewing. Foundation dollars are used for the Kindergarten through 12<sup>th</sup> grade Field Trip Grant Program, Nevada Mapping Grants and University of Nevada scholarships.

<b>MEMBERSHIP APPLICATION/RENEWAL</b>		<b>DATE</b> _____
NAME: _____		POSITION/TITLE _____
CONSULTANT <input type="checkbox"/> COMPANY NAME: _____		
STUDENT <input type="checkbox"/> UNIVERSITY: _____		
ADDRESS: _____		
CITY: _____		STATE/PROVINCE: _____
ZIP: _____ - _____		COUNTRY: _____
PHONE: WORK _____		FAX _____
CELL _____		RESIDENCE _____
E-MAIL: _____		WEB SITE: _____
<input type="checkbox"/> I WOULD LIKE TO HAVE AN ASTERISK BY MY NAME IN THE DIRECTORY INDICATING I AM AVAILABLE FOR CONSULTING.		
<input type="checkbox"/> I HAVE MET THE LICENSING REQUIREMENTS AND WANT "QP" (QUALIFIED PERSON) BY MY NAME IN THE DIRECTORY.		
I authorize GSN to send to me, via email: GSN announcements, publication updates, employment opportunities, etc.		Yes <input type="checkbox"/> No <input type="checkbox"/>
<input type="checkbox"/> Regular Membership Dues - email newsletter \$35.00	<input type="checkbox"/> Honorary	\$ _____
<input type="checkbox"/> Regular Membership Dues - hardcopy newsletter via postal service \$40.00	<input type="checkbox"/> Honorary	_____
<input type="checkbox"/> International Membership Dues - email newsletter only \$35.00		_____
<input type="checkbox"/> International Membership Dues - hardcopy newsletter via postal service \$50.00		_____
<input type="checkbox"/> Student Membership Dues - email newsletter only \$17.50		_____
<b>Optional Chapter Affiliation</b> (to be eligible for chapter voting, choose one)		
<input type="checkbox"/> Elko Chapter		
<input type="checkbox"/> Southern Nevada Chapter		
<input type="checkbox"/> Winnemucca Chapter		
<b>Student Dinner Fund</b>		
<input type="checkbox"/> I wish to donate to the GSN Student Dinner Fund _____		
<b>GSN Foundation</b>		
<input type="checkbox"/> I wish to donate to the GSN Foundation _____		
(Donated funds will be used for unrestricted grants and scholarships unless otherwise specified _____.)		
<b>TOTAL DUE</b>		<b>\$</b> _____
Payment: <input type="checkbox"/> Check # _____ <input type="checkbox"/> Cash <input type="checkbox"/> Visa <input type="checkbox"/> MC Card # _____		
Exp. Date _____ Signature (as it appears on card) _____		
<b>Return with payment to: Geological Society of Nevada, P.O. Box 13375, Reno, NV 89507</b> Fax to 775/323-3599, email gsn@gsnv.org		

# GEOLOGICAL SOCIETY OF NEVADA



gsn@gsnv.org • www.gsnv.org  
Telephone (775) 323-3500 FAX (775) 323-3599  
Post Office Box 13375  
Reno NV 89507  
USA

NON PROFIT  
ORGANIZATION  
U.S. POSTAGE  
PAID  
RENO, NV  
PERMIT NO. 931

It Is A Tough Job  
But Somebody Has To  
Permit It

©Enviroscientists

## ***Specializing in Exploration & Mining Projects on U.S.F.S., B.L.M., & Private Lands***

Plans of Operations • Notices • Baseline Studies (Biology & Cultural)  
Environmental Assessments • Environmental Impact Statements  
Permit Mediation & Negotiation



**Enviroscientists, Inc.**

Environment  Resources  Management  
Striking the Balance

4600 Kietzke Lane, Suite C129  
Reno, Nevada 89502

Phone: (775) 826-8822 Fax: (775) 826-8857

2363 North 5th Street, Suite 100  
Elko, Nevada 89801

Phone: (775) 753-9496 Fax: (775) 753-9499

[www.enviroincus.com](http://www.enviroincus.com)