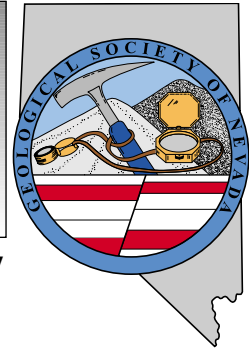


# GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, PO Box 13375, Reno, NV 89507 USA, 775/323-3500, [www.gsnv.org](http://www.gsnv.org)  
Office location: Laxalt Mineral Research Center, Rm 266, UNR. Hours: Mon thru Fri, 8-12



May 2008, Vol. 23, No. 5

Published monthly except June and July

## PRESIDENT

**Greg Hill**  
Harvest Gold Corp. (US)  
[greghillgeo@yahoo.com](mailto:greghillgeo@yahoo.com)

## VICE PRESIDENT

**Marcus Johnston**  
Victoria Resources US Inc  
[marcus@apexmineralresources.com](mailto:marcus@apexmineralresources.com)

## SECRETARY

**D.D. LaPointe**  
Nevada Bureau of Mines and Geology  
[dlapointe@unr.edu](mailto:dlapointe@unr.edu)

## TREASURER

**Camille Prens**  
Mine Development Associates  
[cami@mda.com](mailto:cami@mda.com)

## MEMBERSHIP CHAIR

**Opal Adams**  
Enviroscientists, Inc.  
[ofadams@enviroincus.com](mailto:ofadams@enviroincus.com)

## PUBLICATION CO-CHAIRS

**Marilyn Miller**  
AuEx, Inc.  
[marilyn.miller1@sbcglobal.net](mailto:marilyn.miller1@sbcglobal.net)

## Debbie Schneider

Schneider and Schneider Assoc  
[dschneider41@charter.net](mailto:dschneider41@charter.net)

## OFFICE MANAGER

[gsn@gsnv.org](mailto:gsn@gsnv.org)

## CALENDAR OF GSN EVENTS

### May 9-11

GSN SPRING FIELD TRIP, coordinator: Marcus K. Johnston, Victoria Resources US Inc. See page 2-3 for more information.

### May 14, Wednesday

WINNEMUCCA CHAPTER will have the monthly meeting at the Martin Hotel. Social at 6:30 pm, talk at 7:00 pm. The speaker for the evening is Pat Donovan and his talk is "Twin Creeks Mine-Vista Phase 7 Layback, General Geology and Mineralization". The sponsor this month is Drift Exploration Drilling, our thanks to Garth Patterson.

### May 15, Thursday

ELKO CHAPTER will have the monthly meeting at the Western Folklife Center, beginning at 6:00 pm with the social hour and the talk begins at 7:00 pm. Speaker for the evening will be Adam Simon, UNLV. The talk is "The Formation of PGE-Reefs in Layered Mafic Intrusions: An Experimental Investigation". For more information contact Nancy Richter, 775/468-4527, [nrichter@barrick.com](mailto:nrichter@barrick.com). See page 5 for abstract.

### May 16, Friday

GSN MEMBERSHIP MEETING will be held at the Reno Elks Lodge, 597 Kumle Lane, Reno, NV. Drinks at 6:00 pm, dinner at 7:00 pm, and talk at 8:00 pm. Speaker for the evening will be Ed Cope, Barrick Gold Exploration. His talk is titled "South Arturo: A Recent Oxide Gold Discovery on the Carlin Trend, Elko County, Nevada". For reservations call 775/323-3500, or email [gsn@gsnv.org](mailto:gsn@gsnv.org). See page 4 for abstract.

SOUTHERN NEVADA CHAPTER — Meetings are over for the summer!

### June 21, Saturday

GSN Golf Tournament. See page 12 for details and sign up form.

GSN's April monthly meeting was well attended with 95 for dinner and 30 for social and talk.

## FROM THE PRESIDENT

Greg Hill, *GSN President 2007-2008*

As the GSN season draws to a close I find myself reflecting on experiences of the past two years, having served first as vice president and then president of the Society. This has been a time of tremendous growth for me that I have found to be both enriching and satisfying. I am honored that you, the members of GSN, have afforded me this opportunity, and I thank you sincerely for that. There have been some challenges, but it is the many positive moments that will endure in my memory. It is the people that make up the membership of GSN that I have enjoyed most.

I am pleased to report that the membership has voted in favor of the new slate of executive committee officers and the candidates nominated to fill the two Class C board positions. The terms of the new and returning officers and the two class C board members will begin June 1<sup>st</sup>. Several current officers will be concluding their service or moving on

**MAY MEETING SPONSOR**

  
**Enviroscientists, Inc.**

Reno, Nevada Office: Ph (775) 826-8822 Fax: (775) 826-8857  
Elko, Nevada Office: Ph (775) 753 9496 Fax: (775) 753 9499

**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)

to other positions within the Society. I wish to express my gratitude to all of the current officers and board members for their service to GSN. These remarkable people have

*continued on page 2*



### FROM THE PRESIDENT *continued from page 1*

volunteered precious time in the midst of a history-making commodities boom and they are to be commended.

Cami Prenn, Debbie Schneider, Leslie Olmstead, and Rich DeLong will conclude their terms at the end of May. The amount of time and effort that these people have given to GSN is quite remarkable. Leslie Olmstead served as Secretary for five years; Cami Prenn has served as GSN Treasurer for the past six years; Debbie Schneider has served as co-Chair of Publications and Website Chair for two years; and Rich DeLong, a past president and current chairman of the board has been involved long enough to lose count. All of them have been amazing assets to the organization. Marcus Johnston, Opal Adams, Marilyn Miller, and D.D. LaPointe have been very giving of their time and I know they will continue to serve admirably in the new GSN year. They will be joined by Mike Ressel and Neville Rhoden, our newest executive committee members. Cami Prenn will be moving from the Executive Committee to occupy one of the Class C board seats; the other will be filled by returning board member Dave Shaddrick. Both Dave and Cami have made huge contributions to GSN and I'm sure, will continue to provide excellent guidance and direction to the Society. I also want to acknowledge Don Avery who has been extremely helpful to us in the computing arena, and Raye Buckley, who continues to do a great job with the newsletter and directory, and Laura Ruud who does an excellent job of keeping the books and has provided volunteer assistance to our office managers countless times. To all of you, thank you for your tremendous commitment to GSN.

And finally, to all of the members of GSN, thank you for allowing me this great opportunity. I will always remember it, and you, fondly.  
*Best wishes, Greg Hill*

### **2008 NORTHWEST MINING ASSOCIATION MEETING CALL FOR NEVADA PAPERS**

Curt Everson, *Senior Exploration Geologist*  
*Sirius Exploration, LLC*

Curt Everson is chairing an all day session at the Northwest Mining Association meeting held in Reno this year. Curt is looking for ten talks on projects, properties or geologic topics of interest for Nevada. Anyone interested please call Curt (cell 775-777-4184) or contact him at Sirius Exploration, LLC, PO Box 1629, 401 Railroad St, Suite 406, Elko, Nevada 89803, 775-777-7570.

### **GSN SPRING FIELD TRIP May 9-11, 2008**

#### **Mines and Wines: A Geologic Perspective on the Central Mother Lode and Vineyards in the Northern California Foothills**

Field Trip Coordinator:

Marcus K. Johnston, Victoria Resources US Inc.

Northern California is affected by a complex geologic history, which has given rise to a unique set of conditions that contribute to the history, culture, and economics of the region. Although the modern history of Northern California began with Spanish explorers reaching Monterey in 1602, the first Americans did not settle in the area until the early 1830s, and even so, comprised only a small number of traders and trappers. The discovery of placer gold at John A. Sutter's saw mill at Coloma in January, 1848, and the ensuing gold rush, is inarguably the catalyst that led to explosive population growth and development of other large-scale industries that today help make California one of the leading economies in the world. In the Northern California Foothills, the modern financial drivers are largely real estate, tourism, horticulture, and vinification, yet the area still retains the aura, romance, and many of the physical vestiges of its mining history. The aim of this field trip is to intertwine the past with a bit of the present, emphasizing the role geology plays for both.

We are planning a three-day trip, with day one including an 8 a.m. departure from Reno. We will travel from the High Desert via Interstate 80, over the Sierra Nevada Mountains, and into the heart of the Northern California Foothills. Our first stop will be at historic Grass Valley, one of the most important gold producers on the Mother Lode. Here, Dr. Gregg Wilkerson (Bureau of Land Management) will present a geologic overview of the Mother Lode region. We will tour the Empire mine, which produced around 5.8 million ounces of gold during its heyday, and then have a traditional miner's luncheon before continuing on to Auburn, where we will stop at the Gold Country Museum. In the later afternoon, we will visit the Boeger Winery in the Placerville area, where we will taste the local varietals and learn about the relationship between geology and terroir. We will finish day one at Placerville, where we will eat dinner and stay overnight. After dinner, George Wheeldon (Emeritus Professor, Folsom Lake College) will give a presentation on the history and hard rock mines in the Northern Mother Lode.

Day two will begin with an 8 a.m. departure from Placerville. We will head south on State Highway 49, and

*continued on page 3*

***Thanks to GEOTEMPS for hosting the April meeting.***

# GSN May 16, 2008 Membership Meeting

**Date:** Friday, May 16, 2008

**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 12 noon Thursday, May 15<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

**Speakers/topic:** Ed Cope, South Arturo.  
See abstract on page 4.

## SPRING FIELD TRIP *continued from page 2*

focus the better part of the morning and early afternoon on the 10-mile-long stretch of the Mother Lode between Plymouth and Jackson. Our trip leader for this segment will be Mark Payne (Sutter Gold Mining Inc.). This part of the trip will include a tour of the Lincoln mine, at Sutter Creek, and/or another mine in the area. In the afternoon, we will stop at the Ironstone Winery, near Murphys, to see their famous 44-pound crystalline gold specimen from the Harvard mine, tour their vineyards and processing facilities, and taste their wines. We will then travel to Sonora, where we will eat dinner and stay overnight. Before dinner, Ed Coogan (Coogan Gold Company) will discuss the fabulous successes people have had while metal detecting along the Mother Lode.

On day three, we will take a tour of the famous Harvard mine in Jamestown with local geologist Ross Grunwald (GeoResource Management). After the tour, will stop at the Tuolumne County Historical Museum in downtown Sonora, where we will see an impressive suite of gold specimens from Mother Lode deposits. We will return to Nevada via State Highway 108, weather permitting, crossing the Sierra Nevada Mountains through the picturesque Sonora Pass, and arrive back in Reno by 5 p.m.

## SPRING FIELD TRIP ITINERARY

### Friday, May 9, 2008

- 7:30 am Meet at the UNR parking lot
- 8:00 am Bus leaves promptly at 8:00 a.m.
- 10:00 am Field presentation: Geologic Overview of the Northern California Foothills, by Dr. Gregg Wilkerson (California Bureau of Land Mgmt)
- 11:00 am Empire Mine tour
- 1:00 pm Miner's Luncheon, Empire Mine State Park
- 2:00 pm Bus leaves the Empire Mine State Park for Auburn
- 2:30 pm Gold Country Museum, Auburn

- 3:30 pm Bus leaves Auburn for Boeger Winery near Placerville
- 4:30 pm Boeger Winery tour and tasting
- 6:00 pm Bus leaves Boeger Winery for Placerville
- 7:00 pm Dinner in Placerville
- 8:00 pm Talk: History and Hard Rock Mines in the Northern Mother Lode, by George Wheeldon (Emeritus Professor of Geology, Folsom Lake College)

Overnight lodging in Placerville

### Saturday, May 10, 2008

- Breakfast on your own
  - 8:00 am Bus leaves Placerville for Plymouth
  - 8:45 am Plymouth-Jackson area geologic tour with Mark Payne (Sutter Gold Mining Inc.)
  - 12:15 pm Lunch
  - 1:15 pm Bus leaves Jackson for Ironstone Winery near Murphys
  - 2:30 pm Ironstone Winery tour and tasting
  - 5:00 pm Bus leaves Ironstone Winery for Sonora
  - 6:30 pm Talk: The Great Electronic Gold Rush, by Ed Coogan (Coogan Gold Company)
  - 7:15 pm Dinner in Sonora
- Overnight lodging in Sonora

### Sunday, May 11, 2008

- Breakfast on your own
- 8:00 am Bus leaves Sonora for Jamestown
- 8:30 am Harvard mine tour with Ross Grunwald (GeoResource Management)
- 10:30 am Bus leaves Harvard mine for Sonora
- 11:00 am Tuolumne County Historical Museum, Sonora
- 12:00 pm Bus leaves Sonora for Reno, lunch en route
- 5:00 pm Bus arrives at the UNR parking lot

See sign up form on page 4.

## Sponsorship Opportunities for Wines and Mines Field Trip

Please call Marcus Johnston at his cell number (707) 225-7367 if you would like to sponsor meals, drinks, or other items for the Spring Field Trip. Each donor will be acknowledged on the field trip and in the field trip guidebook.

*Great Advertising opportunity!*

Please complete and submit ASAP:

**Spring 2008 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                  | \$275.00 |
|                   | single room (Limited Number) | \$300.00 |
| *NON-MEMBER COST: | double room                  | \$325.00 |
|                   | single room                  | \$350.00 |

\*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 May 2<sup>nd</sup>, 2008  
No refunds after May 2<sup>nd</sup>, 2008**

Price includes transportation,  
overnight lodging on the nights of May 9<sup>th</sup> and 10<sup>th</sup>,  
a copy of the guidebook,  
drinks, snacks, lunches, and dinners.

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

## GSN MEMBERSHIP MEETING MAY 16<sup>th</sup>

### SOUTH ARTURO: A RECENT OXIDE GOLD DISCOVERY ON THE CARLIN TREND, ELKO COUNTY, NEVADA, USA

Ed Cope, *Barrick Gold Exploration*

The newly discovered South Arturo deposit is a "Carlin-type", breccia-hosted, oxide gold deposit located on the Dee mine property at the north end of the Carlin Trend. The Dee Gold Mine was discovered in 1981 by Dee Delamar, a Cordex geologist and the property was subsequently put into production by Rayrock Mines in 1984. During its 16 year mine life the Dee mine produced approximately 600,000 ounces of gold from oxide ore at an average annual production rate of approximately 40,000 to 50,000 ounces per year. Barrick Gold Exploration Inc. acquired the right to earn a 60% interest in the Dee property from Dee Gold Mines via an exploration farmout agreement signed in October 1997. Barrick Gold Exploration Inc. commenced with exploration activities on the property in 1998 and vested in its 60% operating interest in 2004, but the discovery hole at South Arturo was not drilled until July 2005 from atop the historic mine dumps located 300 meters south of the Dee open-pit. The discovery hole (BD-72) encountered a cumulative 75.6 meters of oxide mineralization grading 1.9 g/t gold beneath 260 meters of dump material and post mineral Tertiary Carlin Formation volcanic and sedimentary rocks. Oxidation within the deposit extends to depths greater than 610 meters. The deposit has passed the pre-feasibility test and is presently in the feasibility stage with exploration ongoing to enhance and or enlarge the known deposit. The current resource for the deposit stands at 1.3 million ounces of gold. The South Arturo discovery is a classic example of an historic mining property yielding a new discovery through the diligent application of area selection criteria of the model type and persevering when early results were generally negative. Barrick's original exploration programs on the property were focused on the discovery of deep high-grade sulfide deposits that would likely be mined by underground methods. As it turns out, South Arturo is mostly oxidized and will be amenable to mining by open-pit methods. The presentation will focus on the exploration programs and the events that ultimately led to the discovery of the deposit.

**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 the 21<sup>st</sup> of each month.**

**Reservations are on a first-come, first-served basis; attendance is limited to 50 (including the bus driver).**

## ELKO CHAPTER MAY 15<sup>th</sup> MEETING

Adam Simon, UNLV

### The Formation of PGE-Reefs in Layered Mafic Intrusions: An Experimental Investigation

Two models for the formation of layered, laterally extensive mafic-intrusion-hosted platinum group element (PGE) deposits have been proposed: the sulfide settling (i.e., downers) model and the aqueous fluid orthomagmatic (i.e., uppers) model. The sulfide downers hypothesis proposes that sulfide crystals or immiscible sulfide melts sequester PGEs from the melt and then gravitationally settle to the bottom of the magma chamber forming PGE-reefs. The aqueous fluid uppers hypothesis invokes a magmatic gas phase to scavenge PGEs and transport the PGEs up through the magma where precipitation of PGEs occurs owing to changes in fluid chemistry. The downers model suffers from its inability to explain the ubiquitous stratigraphic offsets of PGEs in most deposits. The uppers model suffers from the supposed inability to scavenge and transport the necessary mass of PGEs to form large-scale deposits. I am currently testing the hypothesis that a combination of both the uppers and downers processes are responsible for PGE-deposit formation. In this model, early formed sulfides sequester PGEs from the melt. Subsequent degassing of the melt yields a moderate salinity aqueous fluid and also a transient increase in the oxidation state of the magma, the latter causing resorption of sulfides rendering PGEs available to the low-density aqueous fluid. At low crystallinity, the aqueous fluid should ascend easily through the magma, and metal precipitation is expected to occur at separate stratigraphic horizons owing to expected different solubilities of individual PGEs as a function of pH, sulfur fugacity, oxygen fugacity, etc. In this study, we are examining experimentally the capacity of sulfides and exsolved magmatic volatile phases to transport PGEs, Cu and Au in both rhyolite and basalt magmatic systems between 800 and 1200 degrees C at shallow crustal conditions. These data will be placed in the context of an evolving mafic to intermediate magmatic-hydrothermal system to model the formation of PGE-reefs.

---

Adam Simon is currently an assistant professor of Economic Geology and High-Temperature Geochemistry at the University of Nevada Las Vegas. He completed his B.S. in Geology at the University of Maryland, M.S. in Geology at the State University of New York Stony Brook and PhD in Geology at the University of Maryland before moving west to work on real rocks. His research focuses on the physical and chemical connections between magma chambers and proximal magmatic-hydrothermal ore deposits. Current projects include: the evolution of platinum-group-element deposits, the timing and source of Au in Carlin-type deposits, the genetic connectivity between porphyry and epithermal deposits, the evolution of arc volcanoes and their relationship to subduction of ocean lithosphere, the triggers for pluton eruption, the effect of sulfur on metal mobility in crustal fluids, and the use of iron isotopes to decipher crustal fluid flow.

## GSN FOUNDATION NEWS

Roger Steininger, *Chair Foundation Board*

Recently it came to the Foundation's attention that the Nevada Historical Society needed assistance to complete the purchase of the Grosh Brothers' letters. These letters were made available to the Nevada Historical Society for \$210,000, but incredibly the Historical Society needed an additional \$1,000 to complete the purchase. An anonymous GSN member stepped forward to supply the funding through the Foundation to complete the purchase. Why are the Grosh Brother letters important? Glad you asked.

Ethan Allen and Hosea Ballou Grosh left Reading, PA to join the California gold rush and eventually relocated their prospecting activities to Washoe County, Nevada in the mid-1850s. During this time they wrote detailed and articulate letters describing their adventures in central California and western Nevada. During 1856 and 1857 they were prospecting in what was to become the Virginia City area and had the foresight to assay the blue clay that was cursed and thrown away by other gold miners. Of course, this material was extremely rich in silver. By early 1857 they had discovered the Comstock Lode, two years before its reported discovery. Late that summer Hosea struck his foot with a pick and died from the infection. Allen wanted to confirm the silver find and decided to take samples to California, but was unable to start his trip until late November 1857. He and his traveling partner were trapped in a snow storm near Truckee and rescued two weeks later. Allen died shortly thereafter of frostbite and exposure. The twist is that Allen hired Henry Comstock as caretaker for his Nevada cabin. After Allen's death Comstock took over the cabin and realized that the Groshs had made a significant discovery. Comstock staked the Grosh discovery and is commonly given credit as one of the original Comstock Lode discoverers in 1859.

The GSN Foundation is pleased to be able to help bring these important NV mining history documents back to NV.

## THE BENEFITS OF A GSN MEMBERSHIP

When was the last time that you thought about the value of your GSN Membership? The most valuable part of GSN is the intangible part. Meeting up with colleagues, potential employees, potential employers, making new friends, attending the presentations, and finding out what is going on in our fast paced industry doesn't have a direct dollar value. The free drinks aren't really free as they are paid for by generous sponsors. Even the dinners don't pay for themselves. Over \$32,000 a year are paid to produce the newsletter, membership directory, dinner deficit, the convenience of taking credit cards, filing tax returns, liability insurance, publication storage, having a phone, running the office, and providing scholarships in order to be located on university facilities. The cost of administrative services and promoting GSN are above and beyond this amount. In addition, the dedication of GSN volunteers makes the organization run. Take a few minutes to think about the role that GSN plays in your career and take time to thank all of the volunteers and sponsors that provide the venue for your GSN experience.

## ACTIVITY UPDATE

Mike Brady, March 2008  
www.activityupdate.com

### NEVADA

Romarco Minerals Inc. announced that it terminated its interest in the Red Canyon Property of Miranda Gold Corp.

*Press Release:* March 4

Atna Resources Ltd. announced that it terminated its interest in the Jarbidge Property of Miranda Gold Corp.

*Press Release:* March 11

Queensgate Resources Corp. announced that it acquired an option to earn a 51% interest in the Coal Canyon, BPV and CONO properties from Miranda Gold Corp. for 100,000 shares and \$3,000,000 in exploration expenditures over 5 years.

*Press Release:* March 18

Allied Nevada Gold Corp. announced that recent drill results at the Hycroft/Brimstone Project include 390-930 feet @ 0.014 opt Au (H08R-3123); 245-575 feet @ 0.022 opt Au (H08R-3126); 485-800 feet @ 0.011 opt Au (H08R-3127); 435-700 feet @ 0.011 opt Au (H08R-3128) and 220-645 feet @ 0.021 opt Au (H08R-3131). (resource = 61,567,000 tons @ 0.018 opt Au inferred)

*Press Release:* March 6

AuEx Ventures Inc. announced that recent drill results at the Trinity Project include 25-45 feet @ 0.83 opt Ag (TS-012); 230-255 feet @ 0.83 opt Ag (TS-013); 95-125 feet @ 1.12 opt Ag (TS-015); 220-260 feet @ 1.05 opt Ag (TS-019) and 190-230 feet @ 1.04 opt Ag (TS-020). (resource = 1,000,000 tons @ 5.25 opt Ag inferred)

*Press Release:* March 20

Bonaventure Enterprises Inc.(60%) announced that recent drill results at the New Pass Project include 180-215 feet @ 0.014 opt Au, 0.49 opt Ag (NP07-19); 30-60 feet @ 0.009 opt Au, 0.30 opt Ag (NP07-21); 50-130 feet @ 0.014 opt Au, 0.43 opt Ag (NP07-23); 305-375 feet @ 0.032 opt Au, 0.11 opt Ag (NP07-39) and 375-455 feet @ 0.029 opt Au, 0.17 opt Ag (NL07-40). (resource = 11,500,000 tons @ 0.023 opt Au, 0.22 opt Ag inferred)

*Press Release:* February 26

New Dimension Resources Ltd. announced that it acquired an option to earn a 51% interest in the San Francisco Property from Gold Summit Corp. for \$350,000 in exploration expenditures over 3 years.

*Press Release:* February 28

Imperial Metals Corp. announced that recent drill results at the Sterling/114 Zone Project include 90-191 feet @ 0.050 opt Au (SU08-1); 87-210.9 feet @ 0.040 opt Au (SU08-7); 98.5-229 feet @ 0.060 opt Au (SU08-8); 124-277.5 feet @ 0.140 opt Au (SU08-11) and 0-88.5 feet @ 0.070 opt Au (SU08-12). (resource = 214,100 tons @ 0.217 opt Au inferred) *Press Release:* March 13

Klondex Mines Ltd. announced that recent drill results at the Fire Creek Project include 740-765 feet @ 0.375 opt Au (FC0746). (resource = 1,760,000 tons @ 0.582 opt Au indicated)

*Press Release:* March 19

Yukon-Nevada Gold Corp. announced that recent drill results at the Jerritt Canyon Complex, total reserves aggregate 3,155,200 tons @ 0.227 opt Au proven+probable. (was 2,000,000 tons @ 0.250 opt Au proven+probable) *Press Release:* March 3

Yukon-Nevada Gold Corp. announced that it received a "stop order" from the Division of Environmental Protection to close the west and east roasters at the Jerritt Canyon Complex due to excessive emissions.

*Press Release:* March 12

Western Uranium Corp. announced that based on recent drill results at the Kings Valley Project, resources aggregate 2,978,000 tons @ 0.081% U3O8 inferred. (was 8,580,000 tons @ 0.100% U3O8 inferred) *Press Release:* February 27

Midway Gold Corp. announced that it expanded the Gold Rock (was Monte) Project by staking an additional 204 claims and through a lease of 3 separate claim groups (aggregating 36 claims) from private interests for \$64,000 cash and other considerations. (resource @ Easy Junior = 3,680,000 tons @ 0.031 opt Au inferred) *Press Release:* March 11

Coeur d'Alene Mines Corp. announced that recent drill results at the Rochester/Pump + Corner Veins Project include 35-60 feet @ 0.017 opt Au, 0.26 opt Ag, 0.05% Pb, 0.03% Zn (R07-01); 50-95 feet @ 0.039 opt Au, 0.06 opt Ag, 0.11% Pb, 0.18% Zn (R07-02); 170-295 feet @ 0.014 opt Au, 0.73 opt Ag, 0.78% Pb, 1.06% Zn (R07-03) and 66.4-70.8 feet @ 0.091 opt Au, 1.11 opt Ag, 0.86% Pb, 0.32% Zn (R07-04). *Press Release:* February 28

## Revision of Constitution Ballot Issue Approved

The proposed revision to the GSN Constitution voted on in April has been approved by a two-thirds majority of the members. As a result, the wording of the Constitution will be changed to indicate that a simple majority of Board of Directors positions is necessary for quorum requirements. This replaces the two-thirds majority of Board positions required previously.

## ELECTED GSN OFFICERS 2008-2009

### GSN Mothership Executive Committee Officers 2008-2009

President, Marcus Johnston

Vice President, Mike Ressel

Secretary, D.D. LaPointe

Treasurer, Neville Rhoden

Membership Chair, Opal Adams

Publications Chair, Marilyn Miller

### Winnemucca Chapter Officers 2008-2009

President, John Marma

Vice President, Matt Hoffer

Secretary, Lora Chiehowsky

Treasurer, Randy Vance

### Elko Chapter Officers 2008-2009

President, Moira Smith

Vice President, Jim Essman

Secretary, Laleh Carter

Membership Chair, Dave Tretbar

Treasurer, Richard Yancey

See Southern Nevada Chapter Officers in the August newsletter.

# 2008/2009 GSN ORGANIZATIONAL CHART WITH DUTIES OF THE BOARD OF DIRECTORS AND EXECUTIVE COMMITTEE

## GSN CONSTITUTION

### GSN Board of Directors

Current GSN President  
Marcus Johnston

Most Recent Past GSN President  
Greg Hill

Elko Chapter President  
Maira Smith

Southern Nevada Chapter President  
Josh Bonde

Winnemucca Chapter President  
John Marma

Six Past Officers of GSN or  
Chapters are elected for staggered  
three year terms

Class A, 2006-2009  
Fred Breit, Steve Green

Class B, 2007-2010  
David Caldwell, Dieter Krewedl

Class C, 2008-2011  
Dave Shaddrick,  
Camille Prenn

Audit Committee  
w/ GSN Treasurer

Nominating  
Committee  
  
Fiscal Committee  
  
Rules Committee

Symposium  
Committee

Foundation  
Committee

### GSN BOARD OF DIRECTORS

- Serves as Trustees of GSN
- Provides institutional memory and continuity
- Guides overall direction of GSN
- Reviews & approves annual operating plan & budget
- Manages GSN investment funds
- Reviews & approves Bylaw Amendments
- Promotes communication within GSN

## GSN BYLAWS

### GSN Executive Committee

President  
Marcus Johnston

Vice President  
Mike Ressel

Secretary  
D.D. LaPointe

Treasurer  
Neville Rhoden

Membership Chair  
Opal Adams

Publication Chair  
Marilyn Miller

GSN Office Mgr.

Web  
Committee  
  
Don Avery  
Debbie Schneider

### GSN EXECUTIVE COMMITTEE

Runs daily affairs of GSN

- Meetings
- Field trips
- Newsletters
- Management of operating funds & assets
- Development of annual operating plan & budgets of GSN & chapters
- Propose Bylaw amendments to BOD
- Nominate candidates to fill vacancies on BOD
- Draft Bylaws and any changes
- Oversight of hired staff
- Establish other GSN committees
- Membership dues & records
- Accounting
- Publications

## CHAPTER BYLAWS

### GSN Chapter Members

Elko Members  
Winnemucca Members  
Southern Nevada Members

### GSN Members

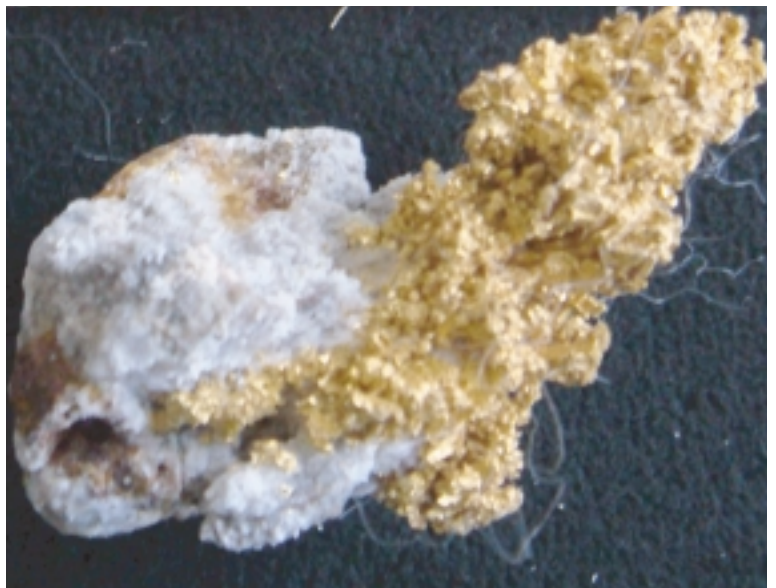
- Vote for GSN officers & BOD
- Vote on Honorary members
- Serve on Executive Committee
- Serve on Committees
- Propose Amendments to Constitution

## **GSN May Meeting**

# *GOLD AUCTION*

The Geological Society of Nevada is pleased to offer eight specimens of gold for auction at the May 16 meeting.

These fine specimens were donated by Alan Day and represent true Nevada gold. Three will be available for live auction; five at the silent auction table. Marcus Johnston will bring additional items for the silent auction.



**All proceeds benefit the Geological Society of Nevada Foundation.**





**LET US  
FIND YOU OFFICE  
GOLD!**



**COMMERCIAL REAL ESTATE  
EXPLORATION SERVICES**

We can do the prospecting for you when the time comes to locate your new facility or office. Our locating service is free of charge and includes our expertise and in-depth knowledge of the local market. Call us today and tell us what you're looking for.

775.851.9500 | 775.851.9551 (FAX)  
9533 GATEWAY DRIVE, SUITE B, RENO, NV 89521  
WWW.TRINITYCOMMERCIAL.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



**Enviroscientists, Inc.**

Reno, Nevada Office: Ph (775) 826-8822 Fax: (775) 826-8857  
Elko, Nevada Office: Ph (775) 753 9496 Fax: (775) 753 9499

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

Info@enviroincus.com www.enviroincus.com

**ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES



**Mineral Division - 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
- 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

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

**Jo Beth Allen  
Professional Graphics**

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

1055 Joshua Drive Phone: 775-324-7960  
Reno, Nevada 89509 Fax: 775-324-7583  
jobeth@yellowsb.net

**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<br>(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.

## Big Sky Geophysics

Clark Jorgensen, M.Sc.  
Geophysicist

*Field Work  
Processing  
Interpretations*

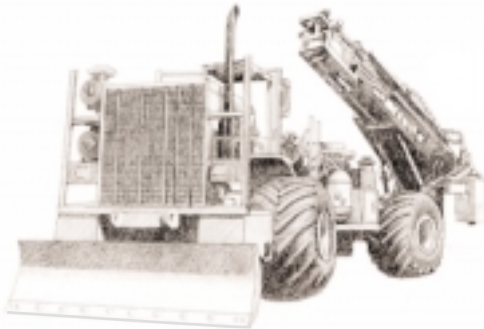
P.O. Box 353  
Bozeman, MT 59771  
USA

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)



## 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](http://www.diversifieddrilling.com)



## 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



### What the M2 Crew can do for you:

|                  |                     |                      |
|------------------|---------------------|----------------------|
| Claim Staking    | Soil Surveys        | 3D Laser Scanning    |
| Core Logging     | Trimble GPS Surveys | Technical Writing    |
| Outcrop Sampling | Sample Preparation  | Geologic Mapping     |
| Surpac Modeling  | ArcGIS Mapping      | Database Development |
| RC Chip Logging  | Data Evaluation     | Drill Program Mgmt.  |
|                  | Core Drilling       |                      |

#### MAIN OFFICE LOCATED AT:

4207 E. Rowan Ave.  
Spokane, WA 99217

Ph: 509.483.3035  
Fax: 509.483.3040

Ken Mears  
President  
801.971.4065  
Email: [kmears@m2tsi.com](mailto:kmears@m2tsi.com)

John Mears, P. Geo.  
Principal  
509.714.2044  
Email: [jmears@m2tsi.com](mailto:jmears@m2tsi.com)  
[www.m2tsi.com](http://www.m2tsi.com)



## Stephen D. Lappin

Consulting  
Landman

- Claim Staking
- Mapping
- Land Status
- Title

Cell: (970) 260-0293

Fax: (970) 241-9523

Email: [Lappins@earthlink.net](mailto:Lappins@earthlink.net)

2830 North Ave., C5B #164

Grand Junction, CO 81501

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

**North American Exploration Inc.**

We can complete any of your exploration needs. With over 40 years of experience we will work on any job from large to small.

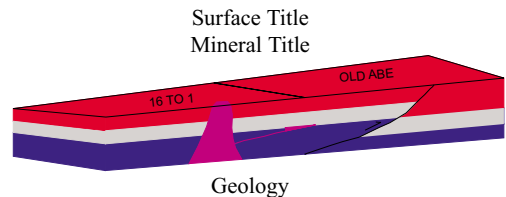
Call us for your next claim staking or soil sampling job, we will not disappoint you.

**801-544-3421**

**North American Exploration, Inc.  
447 North 300 West Suite 3  
Kaysville, Utah 84037  
Fax: 801-544-4554  
Email: [nae@nae-xploration.com](mailto:nae@nae-xploration.com)**

**G.I.S. Land Services**

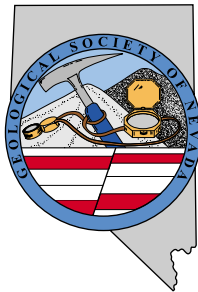
**Greg Ekins** M.S. R.P.L. #32306 President  
Mineral Landman - Commissioned Abstractor  
"From Courthouse Records to Final Map"



A professional firm of  
Landmen, Geologists, Draftsmen and Technicians  
Providing Abstracts of Title, Land Status and  
Exploration Geology Services  
Utilizing AutoCad - ArcMap - MapInfo - PowerPoint  
[www.gislandservices.com](http://www.gislandservices.com)

5365 Mae Anne Dr., Suite B 14A  
Reno, NV 89523  
Ph: 775-746-8803 Fax: 775-746-8802  
email: [greg@gislandservices.com](mailto:greg@gislandservices.com)

**Join the Geological Society of Nevada**



- Our mission is to promote the advancement of the geologic sciences, especially as they relate to Nevada.
- The GSN provides a monthly newsletter, membership directory, and numerous publications about ore deposits in the Great Basin as well as the North and South American Cordillera.
- The GSN has monthly meetings and two field trips annually.
- Every five years the GSN sponsors a highly respected GSN Symposium. The next one will be held in Reno, Nevada in 2010.

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@mines.unr.edu](mailto:gsn@mines.unr.edu)

# 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



## ATTENTION GOLFERS!!



The GSN annual golf tournament is scheduled for Saturday, June 21, 2008 at Washoe County Golf course. A 1:00 PM shotgun start is planned, with a barbeque to follow. The lead sponsor is **Inspectorate America Corporation**. Thanks to our generous sponsors there will be no charge for the event! We can accommodate only 144 golfers, so sign up early! Deadline for registration is Friday, June 13<sup>th</sup>. You may call (775-323-3500), fax (775-323-3599) or email (gsn@gsnv.org) Kathy at the GSN office to sign up individually, or as a foursome. Please provide the following information for each golfer.

### Registration Form

Name: \_\_\_\_\_ Ave. score: \_\_\_\_\_

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

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Teamed with: \_\_\_\_\_

BBQ Guest Name(s): \_\_\_\_\_

Thanks to **INSPECTORATE AMERICA CORPORATION**  
for sponsoring the 2008 tournament.

