

GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512
(775) 323-3500 - Hours Monday -- Friday 8-3
Website: www.gsnv.org • E-mail: gsn@gsnv.org



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Rye Patch Gold Corp.
bill@ryepatchgold.com

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Dave Emmons
Kinross Gold USA, Inc.
demmons@sbcglobal.net

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John Hoskins
cbtr63@sbcglobal.net

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Bob Kastelic
Consulting Geologist
bob_kastelic@yahoo.com

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Inspectorate America Corp.
carmen.arbizo@inspectorate.com

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ALS Minerals
Mary.Stollenwerk@ALSGlobal.com

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gsn@gsnv.org

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CALENDAR OF GSN EVENTS

**Oct. 12
Wednesday**

WINNEMUCCA CHAPTER (Every 2nd Wednesday of the month)

The monthly meeting will be held at the Martin Hotel, 94 West Railroad Street. Drinks and appetizers at 6:30 PM, speaker at 7:00 PM. Speaker for the evening will be Anna Gilmore, Project Geologist with Newmont Mining Corporation. Her talk is titled "**Phoenix Mine**" (see abstract on pg. 8). Sponsors for the evening will be **Inspectorate America Corp.** For more information contact Erin Gray at (775) 635-6420.

**Oct. 20
Thursday**

ELKO CHAPTER (Every 3rd Thursday of the month)

The monthly meeting will be held at the Western Folk Life Center, 501 Railroad Street. Refreshments at 6:00 PM, talk at 7:00 PM. Speaker To Be Announced. Sponsor for the evening is **Barrick Goldstrike Mines Inc.** For more information contact Doug Eck, Elko VP at deck@barrick.com.

**Oct. 21
Friday**

GSN MEMBERSHIP MEETING (Every 3rd Friday of the month)

The monthly 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 is Richard Lundin, Wondjina Research Institute & RICH ORE Mining Inc. Title: "The Past, Current and Future Uses of Portable X-Ray Fluorescence (pXRF) in Mineral Exploration for Precious, Base, Industrial and Energy Minerals and Hydrocarbons" (see abstract on page 3). Sponsor for the evening will be **Ruen Drilling Incorporated**. Dinner reservations must be made by 3:00 PM Wednesday, October 19. Contact Laura Ruud at (775) 323-3500 or e-mail gsn@gsnv.org for reservations.

**Oct 22 & 23
Sat & Sun**

2011 FALL FIELD TRIP—Hycroft, Florida Canyon, Standard & Coeur Rochester

Sign-up form can be found on the GSN website or page 15 of this newsletter.

**Oct. 27
Thursday**

SOUTHERN NEVADA CHAPTER (Every Last Thursday of the Month)

No speaker scheduled as yet but look for an announcement later this month. Meeting is held at the Lilly Fong Geoscience bldg., Room 101, UNLV. Social at 6:30 pm with the speaker starting at about 7:15 pm. For more information contact Paul Bowen at 702-247-7765.

*Mark
it
in
your
calendar*

**Don't be left out of the 2012 Membership Directory.
Pay your dues now so you don't forget!**

Membership form can be found at www.gsnv.org or page 14 of this newsletter!

G.S.N. OCTOBER MEETING SPONSOR



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FROM THE PRESIDENT

William Howald, G.S.N. President 2011—2012

Dear GSN Members:

My main focus for GSN this year is Membership, Mentoring and data Migration. This month I would like to discuss increasing our membership. Based on our membership revenue, there has been a sharp decrease in our membership from the 2009-2010 year to the 2010-2011 year, and if nothing is done, the coming year shows a similar trend. The projections suggest a 20% decrease in our membership from 2009/2010 to the current membership year. The Executive Committee is committed to increasing the membership and has started this membership drive. A “thermometer” measuring the renewal and new member numbers has been added to the newsletter (pg. 5) and will be available every month at the monthly meeting so members can see the progress toward our goal of 1,300 members involved in the GSN by year end.

Let’s look at the cost of becoming a member and what dividends are paid to the membership for a mere \$50 (fifty dollars). Every month from September to May the GSN holds a monthly meeting with free beverages and a speaker, along with the opportunity to eat the rubber chicken.

First, let’s start with the speakers. The presentations are professionally prepared and cover avant-garde and timely topics on stratigraphy, new deposits and new geologic understanding. The presentations are thought provoking, and the ideas can quickly be incorporated into your exploration programs and thinking. Over the years, I have learned many cutting-edge facts and have been able to put that information to good use finding quality exploration projects and occasionally finding gold. There have been many breakthroughs described over the years, and John Muntean’s September presentation on ferroan carbonates is a perfect example of a new simple idea that may be useful in finding vectors toward high-grade gold in Carlin-type gold systems. So membership gives you a competitive edge for those who attend and use the information in their exploration programs.

Next let’s look at the cocktail hour. Prior to the presentation, the GSN offers a social hour hosted by top-tier industry leaders, generous service providers, and savvy mining companies. For the meager price of a request, you can order almost anything from the bar at no cost to the member. If you have two drinks per meeting over the nine monthly meetings you have received almost twice your membership dues in free adult beverages – most bars charge \$5 for a premium beer. I generally try to achieve payback by the third meeting!

Finally, let’s talk about the rubber chicken. The dinner cost is \$17 per meeting - roughly two beers and a glass of wine (which are already free) and may have a positive impact on your view of the dinner. The Elks Lodge is excellent and the remodel at the Elks Lodge looks fantastic. It’s a great venue for our meeting.

So for an annual fee of \$50 you get excellent speakers, free drinks, and the opportunity to buy a rubber chicken. I guess as the lyrics of Meatloaf go, “two out of three ain’t bad”!

Unlike most professional organizations, the GSN monthly meetings allow for camaraderie among its members with the opportunity to enhance their geologic knowledge. I think this amalgamation of friends, fun, and geologic thought makes GSN an exciting and pleasurable professional organization. I hope you agree and will continue to participate by renewing, becoming a member, and urging your friends and colleagues to become members. The goal of 1,300 members by December 31, 2011, is achievable but only through your continued support and commitment. At the start of the GSN meeting in September, I renewed my membership, and I hope you will do the same before the end of the year. Why not sign up or renew at the October meeting!

A Mile High, A Mile Deep



Your \$50 Membership Dues each year also gets you this informative newsletter each month and the Membership Directory which is considered by many to be the “Contact Bible” of the mining industry!

Each month the GSN Newsletter features a member in “Faces of GSN”. Please consider nominating a colleague for this highlight by submitting a biographic write-up and an appropriate photograph of the nominee to Laura at the GSN Office gsn@gsnv.org.



***Thanks to Boart Longyear Drilling Services
For Hosting the September Meeting!***

GSN October 21, 2011 Membership Meeting

Reservations Are Required - Please Cancel if You Are Unable to Attend

The reason we need reservations and also cancellations is because our caterer needs to know how many people to cook for.

GSN CAN NO LONGER GUARANTEE DINNER SEATING WITHOUT ADVANCE RESERVATIONS.
Please call 775-323-3500, Fax 775-323-3599 or e-mail gsn@gsnv.org by 3:00 PM, Wednesday, October 19, 2011.
Social Hour: 6:00 PM – Dinner: 7:00 PM – Speaker: 8:00 PM
\$17.00 per person

Location: Elks Lodge, 597 Kumle Lane, Reno, NV
Directions: across (W) from the Reno-Sparks Convention Center
(S. Virginia Street, behind the Les Schwab Tire Center)

**Prepaid dinner reservations will only be accepted for the current monthly meeting.
Cancellations must be received two days before the meeting in order for your money to be refunded.**
Download the prepayment form from the GSN website: <http://www.gsnv.org/membership.html>

"The Past, Current and Future Uses of Portable X-Ray Fluorescence (pXRF) in Mineral Exploration for Precious, Base, Industrial and Energy Minerals and Hydrocarbons"

By

Richard J. Lundin BA, MA, RPA, ISAP, AIPG

Mineral Exploration Consultant & Permitting Specialist

Director, Wondjina Research Institute

Vice President & Exploration Manager, RICH ORE Mining, Inc.

ABSTRACT

The use of portable X-Ray Fluorescence (pXRF) equipment in mineral exploration has come a long way since the first use of this technology in the early 1990's. This use of pXRF technology either directly came from the then current use in environmental studies or by geologists that were comparing sample results from laboratories. These early pioneering efforts in pXRF technology limited their use to field laboratories and the use of radioactive sources but still led to some use in the field by curious field geologists. Even so, the early studies utilizing the NITON "brick" and other similar instruments led directly to a realization of the potential for this technology for time and cost savings in remote field situations. Eventually, mine geologists and process metallurgists found these new instruments useful in production settings. As the knowledge of the usefulness spread to management, pioneering papers presenting Case Studies of exploration use (and success) were given at professional societies and the number of pXRF instrument suppliers (and attendant improvements in the technologies) increased, the use became wide spread. Currently there are a growing number (last count, at least 10) that are offering pXRF equipment for mineral exploration. With hundreds if not thousands of instruments in the field and new innovations/improvements in detection limits, major advances in knowledge of HOW the instruments are used, WHAT are their limitations and what, SPECIFIC instruments are best used for WHAT applications are now being considered. Examples of current use of the various types and uses of pXRF surveys will be presented. The growth of pXRF use in metals exploration and environmental studies and the attendant increase in detection capability, portability and reproducibility of laboratory data has led to the growth of pXRF use to archaeological field and laboratory studies. Further developments in instrumentation and analysis software packages to obtain lower detection limits for precious and trace elements AND the increasing ability to obtain information on elements lower in Atomic Number have DIRECTLY LED to the use of pXRF soil and plant surveys for finding deposits enriched in lighter elements. These innovations have ALSO led to the consideration of pXRF for use in petroleum, and energy mineral surface soil surveys and "chemostratigraphic-lithologic" studies in the petroleum industry. This potential for finding and characterizing, deeply buried petroleum and energy mineral deposits will be discussed.

FACES OF GSN

Carmen Arbizo

Inspectorate America Inc. and G.S.N. Membership Chair for 2011-2012

I lived on working cattle ranches for years with my late husband and two children experiencing the wonderful outdoor life existing with wood stoves to cook on, washboards to do laundry, growing a garden for the vegetables and different critters trying to live amongst us in and outside of our home. I truly enjoyed the cowboy life that combined honesty, tough rewarding work and sleep filled nights. As the kids got older it was becoming harder to move from ranch to ranch so I hired on with a company as a secretary mostly due to my typing skills. Little did I realize the opportunities that would be forthcoming in the next twenty-five years that I have been employed by Inspectorate America Corporation.

With on the job training I was able to acquire valuable knowledge at copper smelters representing concentrates, precipitates, anodes, blister and scrap for an assortment of customers. My next experience was at SX-EW plants certifying LME and COMEX copper wire and cathodes as well as warehouse certifications for the same coast to coast. Ultimately I started working at precious metal refineries where I learned how Dore, dental scrap, jewelry, etc. was melted, sampled, poured into bars and watched the process of US mint gold being processed.



When asked to relocate to our corporate offices in Houston, Texas I was removed from field work and thrust into management class roles, internal auditing, trouble shooting for IAC locations in the U.S. and abroad, and special projects. After being seconded to the U.K. for just shy of a year on one of these special projects, news came that a new building was found to rebuild our analytical lab in Sparks, NV. The chief decided I should come out to Reno and monitor the budget for this huge undertaking. Throughout this venture I traveled back and forth between Reno and Houston for two years and this is when my interest in geology was initially sparked. Even though I am not a geologist, geology is tremendously fascinating to me.

On April 1, 2008 I relocated to Reno and currently hold the position of Business Development Manager for Inspectorate America Corporation's Metals and Minerals Analytical Laboratory.

Upon my relocation I enthusiastically began getting involved in the Geological Society of Nevada. GSN field trips have primarily been the most enjoyable and greatest learning experiences for me. The location sites visited along with the participants on these trips have been entertaining and they have patiently educated me on different characteristics of geology. (Thank you to each and every one of you!) I have attended almost every meeting and was anxious to get involved with the organization. This year I became the Membership Chair for the GSN and it is the GSN goal to increase membership from the current 850 status to 1300 official members in 2012. The GSN has so much to offer in various ways to everyone within the industry, so current and non-members, let's make this goal materialize!

Cheers,
Carmen Arbizo

Goal for 2012

Geological Society of Nevada Membership Drive

2012 Goal for
Membership
1,300

1,000

2011
Membership
850

500

100



Membership Dues are due
by December 31, 2011
For members to be in the
Membership Directory!

\$50 per year for regular members
Renew now to support GSN
And remind your co-workers to renew!

- Monthly Dinners & Speakers
- Networking/contacts
- Newsletters: 10 per year
- Fall and Spring Field Trips



Thank you to our generous donors

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Please remember to donate to the Foundation when renewing your dues. Tax-Deductible gifts go to Scholarships, Field Camp & K-12 Earth Science Field Trips!!

ELKO CHAPTER OCTOBER MEETING SPONSOR



ELKO CHAPTER MEETING October 20, 2011

The monthly meeting will be held at the Western Folk Life Center, 501 Railroad Street. Refreshments at 6:00 PM, talk at 7:00 PM. Speaker To Be Announced. For more information contact Doug Eck, Elko VP at deck@barrick.com.

NEWS AND ANNOUNCEMENTS



Bob Felder and Greg Hill have founded **Kinetic Gold Corporation**, a new junior exploration company working in the Great Basin. They have opened an office in south Reno at 5375 Kietzke Lane, Suite 110, 775-624-7764.

Tax Deduction

It is that time of the year to consider gift giving. If you have any geologic books that you are considering giving away please contact Clancy Wendt. GSN and the Tucson Gem and Mineral Society have given over 55,000 books to Universities in Mexico. This is a tax deductible item and anything you have will be greatly appreciated as Mexican Universities have very little in the way of reference books. We are also seeking people who are going to Tucson who have room in the cars or trucks to take some of the books we already have. 775-852-2513



THANK -YOU LETER FROM A MACKAY STUDENT

Summer 2011

Dear GSN Foundation:

I would like to Thank You very much for your help in paying for my field camp experience. Your support is greatly appreciated.

As I am finishing my degree in Geology, the costs have added up over the three years. Your support has helped me greatly, not only the support you have given for field camp but also the opportunities you have provided me for the past three years.

During this summer I have completed the final requirements for my degree and moved on from being a student at the University of Nevada Reno to being a geologist at a gold mine here in Nevada. As the transition from the classroom to the work force has been an exciting one and also an exhausting one, it has brought about many challenges and many exciting times. I learned many things in field camp, such as it rains a lot in South Dakota in the early summer, and also many things when I returned to just working full time such as, working as an intern vs. working full time are completely different in the degree of difficulty projects assigned to work on. I have stepped up to the challenge which has been presented to me and welcome all the challenges it provides along with so many learning opportunities also.

Again I thank you for your support over the past years and your belief in me to succeed at my education and career. Your help will never be forgotten and will always be appreciated.

Thank you,
Eve Marie Hirt

**THANK
YOU**

Upcoming Events

Northern Nevada Section of the SME
Monday, October 10th, 2011

Social Hour 6 PM, Dinner 6:45 PM and Technical Session, at 7:30 PM

Circus - Circus Hotel and Resort, Mandalay Room in the Convention Center

(Casino Entrance at the corner of 5th Street and No. Sierra St.)
500 N Sierra Street, Reno, NV

Mackay students enjoy *free* admission & dinner
Members \$22/person and Non-Members \$25/person payable at the door

RSVP Kaitlin Sweet 775-225-6147 or
KCSweet@enviroincus.com

Required by noon, THURSDAY, October 6th 2011

"Hycroft Deposit, Humboldt & Pershing Counties, NV"

Donald Harris, Hycroft Exploration Manager
and Mark Gorman, Metallurgist
Allied Nevada Gold Corp.

EARTH SCIENCE WEEK FIELD TRIP Nevada Bureau of Mines & Geology

October 15 or 16, 2011

Nevada Bureau of Mines & Geology is offering its annual free public Earth Science Week field trip this year on October 15th, repeated on October 16th. This year it is called:

"Life's A Beach" - In Search of Ancient Shorelines and Volcanoes in the Grimes Point and Lahontan Mountains Area

Details and registration are at this website link:
http://www.nbmq.unr.edu/ESW/ESW_11/index.html

The trip begins in Fallon and visits several classic shoreline localities of ancient Lake Lahontan in the Eetza, Seho, and Wymeha mountains areas as well as several other outcrops with interesting altered rocks to collect. It draws heavily from the recently published NBMG geologic maps of these areas authored by John Bell and others. We welcome any GSN members, families, and friends who would like to share their knowledge with the other participants in this fun day in the field. Please sign up online if you plan to attend.

**Thanks to Enviroscientists, Inc. for sponsoring the
Elko Chapter's September BBQ Meeting**

GSN Winnemucca Chapter Meeting October 12, 2011

“Phoenix Mine”

Anna Gilmore, Project Geologist
Newmont Mining Corporation

ABSTRACT

Exploitation of gold, copper, and silver ores from the Battle Mountain mining district, best known for the world-class Fortitude gold skarn deposit, dates back to the mid-1860's. Since January 2001 Newmont Mining Corporation has been developing the district, concentrating on drilling Antler Sequence rocks untested by Battle Mountain Gold. Logging of core and reverse-circulation (RC) drill hole cuttings from development drill programs and pit mapping have led to new insights into some aspects of the district geology.

Harmony Formation rocks described as biotite hornfelsed are significantly potassically altered. Average potassium values from five samples of “fresh” Harmony rocks in the Battle Mountain Range are 3.3%K versus 6.3%K from five biotite hornfelsed Harmony samples collected from historic or current pits in the district.

XRD mineral analyses of 20' (6.1m) composites were conducted on RC and core hole samples from three north-south sections spaced 500' (152.4m) and 600' (182.9m) apart, respectively, to verify logged calc-silicate mineral zonation in the Antler Peak Limestone north of the Copper Canyon stock and south of the historic Fortitude pit.

Logging, corroborated by XRD analyses, indicates that diopside is the dominant calc-silicate mineral in the section closest to the stock, within 200' (61m) to 500' (152.4m). Progressing north, the percentage of andradite garnet versus diopside increases from 109,700 north to 110,800 north (internal mine grid). One explanation of the observed calc-silicate mineral zonation is that hydrothermal fluids responsible for the calc-silicate metasomatism in Fortitude were sourced from beneath the pit via the Echo, Virgin and “F1” and “F2” faults.

Principal structural controls in the district are oriented north-south with a contributing northeast component. F1, previously known as “Top of the World”, is a structural block bounded on the west by the north-south striking Virgin fault zone and to the east by the north-south-striking Hayden fault. The historic Fortitude deposit was hosted in a structural block defined by the north-south-striking Virgin and Canyon fault zones and occurred largely in the hanging wall of the northeast-striking, northwest-dipping F1 fault. The historic Copper Canyon underground mine area was hosted in the Virgin fault zone, in the immediate hanging wall of the northeast-striking, northwest-dipping Gulch fault. The historic West pit Cu skarn deposit exploited by Duval Corp. is spatially associated with a right-stepping dilatant jog in the Virgin fault zone. The Reona deposit, currently a ~12,442 kg (400,000 ounces Au) resource, is hosted in the hanging wall of the Canyon fault zone and is spatially associated with the northeast-striking, northwest-dipping Reona fault.

Since 2005 Newmont has been studying the feasibility of copper production at Phoenix utilizing SX-EW technology. Newmont has recognized 4 copper ore types, as defined by the copper minerals present: 1) partial leach ore, typified by adsorbed Cu onto Fe and/or Mn oxides; 2) copper oxide ore, characterized by the presence of chrysocolla, the dominant copper oxide mineral found at Phoenix; 3) enriched ore characterized by the presence of chalcocite very minor native copper; and 4) lower enriched ore, defined by the presence of covellite and hypogene chalcopyrite mineralization.

WINNEMUCCA CHAPTER OCTOBER MEETING SPONSOR



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**Thanks to Redcor Drilling
For Sponsoring the Winnemucca
Chapter's September Meeting**

Activity Update

Mike Brady, August 2011

Nevada

www.activityupdate.com

A district court ruled that the recent State-imposed fee on unpatented mining claims was unconstitutional and ordered its repeal and the fees collected refunded. *N.M.:* August 8

Atna Resources Ltd. announced that it acquired an option to purchase an additional 70% interest (to hold 100%) in the Pinson Property from Barrick Gold Corp. for \$15,000,000 and 15,000,000 shares. (resource = 2,272,000 tonnes @ 14.5 gpt Au measured+indicated) *Press Release:* August 11

Molycor Gold Corp. announced that based on recent drill results at the Tami-Mosi Project, resources aggregate 412,000,000 tonnes @ 12.3% Mg inferred. (no previous estimate) *M.J.:* August 12

Paramount Gold + Silver Corp. announced that it acquired an option to earn a 100% interest in the Dunes Property from ICN Resources Ltd. for 400,000 shares. *Press Release:* August 23

West Kirkland Mining Inc.(51%) announced that recent drill results at the TUG Project include 165.81-213.51 meters @ 1.04 gpt Au, 24.65 gpt Ag (WT11-02). *Press Release:* August 16

Silver Predator Corp. announced that recent drill results at the Taylor Project include 44.19-64.0 meters @ 58.92 gpt Au (SPT11-026); 67.05-109.72 meters @ 100.25 gpt Ag (SPT11-027); 88.39-94.48 meters @ 76.5 gpt Ag (SPT11-028) and 10.67-22.86 meters @ 54.27 gpt Ag (SPT11-030). (resource = 1,123,000 tonnes @ 85.6 gpt Ag measured) *Press Release:* August 17

Waterton Global Value LP. announced that it acquired Golden Phoenix Mineral Inc.'s interest in the Mineral Ridge Project by assuming all of Golden Phoenix's financial obligations related to the project. (resource = 4,230,000 tonnes @ 1.47 gpt Au indicated) *Press Release:* August 5

Nevada Copper Corp. announced that recent drill results at the Pumpkin Hollow/North Project include 519.7-534.9 meters @ 1.07% Cu, 0.13 gpt Au (NC11-07); 172.2-231.6 meters @ 0.41% Cu, 0.07 gpt Au (NC11-12) and 218.5-327.6 meters

@ 1.32% Cu, 0.12 gpt Au (NC11-15). (all = 155,900,000 tonnes @ 0.59% Cu, 0.10 gpt Au measured) *Press Release:* August 16

Midway Gold Corp. announced that recent drill results at the Spring Valley Project include 231.6-432.8 meters @ 0.82 gpt Au (SV11-515); 160.0-254.5 meters @ 1.06 gpt Au (SV11-517); 306.3-353.6 meters @ 0.72 gpt Au (SV11-514) and 402.3-432.8 meters @ 0.89 gpt Au (SV11-534). (resource = 145,100,000 tonnes @ 0.48 gpt Au measured+indicated) *Press Release:* August 25

International Enxco Ltd. announced that it terminated its interest in the Hot Pot Property of Nevada Exploration Inc. *Press Release:* August 16

Terra Rossa Gold Ltd. announced that it acquired an option to earn a 51% interest in the Signal Property from Bravada Gold Inc. for 250,000 shares and \$2,150,000 in exploration expenditures over 4 years. *Press Release:* July 28

Entrée Gold Inc. announced that recent drill results at the Blue Hill Project include 18-184 meters @ 0.18% Cu (EG-BH11-15); 18-198 meters @ 0.18% Cu (EG-BH11-16); 8-144 meters @ 0.16% Cu (EG-BH11-17) and 4-108 meters @ 0.17% Cu (EG-BH11-18). *Press Release:* July 28

Corvus Gold Inc. announced that recent drill results at the North Bullfrog Project include 59.4-96.0 meters @ 0.43 gpt Au (NB11-106); 56.4-100.6 meters @ 0.45 gpt Au (NB11-107); 45.7-59.4 meters @ 0.31 gpt Au (NB11-109) and 86.9-115.8 meters @ 0.30 gpt Au (NB11-111). (resource = 2,018,000 tonnes @ 0.88 gpt Au indicated) *Press Release:* August 17

Allied Nevada Gold Corp. announced that based on recent drill results at the Hycroft Mine, reserves aggregate 776,400,000 tonnes @ 0.41 gpt Au, 15.7 gpt Ag proven+probable. (resource = 1,396,400,000 tonnes @ 0.37 gpt Au, 13.3 gpt Ag measured+indicated) *Press Release:* August 23

SPECIAL ANNOUNCEMENT!!!

The G.S.N. Elko and Winnemucca Chapters will be holding a joint meeting in place of their regularly scheduled November Meetings. Everyone will meet in Battle Mountain for this first ever joint chapter meeting event!!

DETAILS WILL BE IN THE NOVEMBER NEWSLETTER!!

EXPERTISE YOU CAN TRUST

SGS has a proven track record of providing trusted exploration services to projects globally. With our industry leading expertise in

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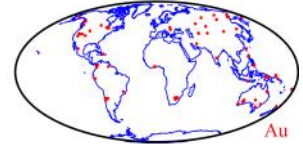
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Carmen.Arbizo@Inspectorate.com
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Richard Thorneloe-Technical Director
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Dave Williams-Vice President
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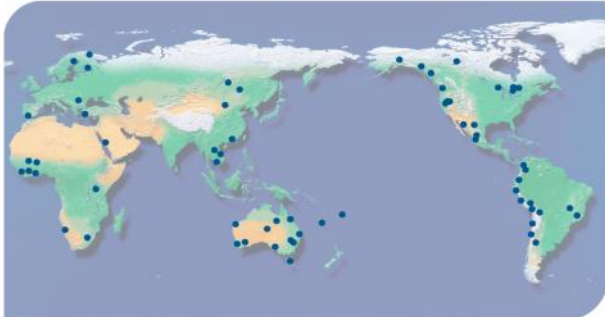




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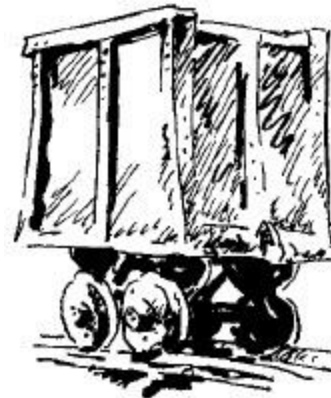
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Offices are located at NBMG's Great Basin Science Sample & Records Library at The Desert Research Institute

Office hours: 8 AM - 3:00 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 membership year begins on January 1. Annual dues of \$50.00 (\$25.00 for full time students) are due prior to December 31. The GSN conducts a Field Trip in the Fall and one in the Spring of each year. Monthly meetings are held in Reno, Winnemucca, and Las Vegas (Southern Nevada Chapter) September through May. The Elko Chapter holds meetings January through December.

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

MEMBERSHIP APPLICATION Renewal New Date: _____

Name: _____ Position/Title: _____

Everything is the same as before, except as indicated below.

Consultant: Company Name: _____

Student: University: _____

Address: _____

City: _____ State/Province: _____ Zip Code: _____

Country: _____ Website: _____

Telephone) **Work:** _____ **Fax:** _____

Numbers) **Cell:** _____ **Residence:** _____

(Your residence telephone number will not be listed in the Directory)

E-Mail: _____

Email address is required for Emailed Newsletter

- I would like to have an asterisk by my name in the directory indicating I am available for consulting.
- 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, publications updates, employment opportunities, etc.

Yes No

Optional Chapter Affiliation (to be eligible for chapter voting and emails from those Chapter Officers)

Elko Chapter Southern Nevada Chapter Winnemucca Chapter

Regular Membership Dues 2012 - email newsletter \$50.00 (**International & Domestic**) Honorary _____

Regular Membership Dues 2012 - hardcopy newsletter via postal service \$70.00 (**Domestic Only**) Honorary _____

Student Membership Dues - email newsletter only \$25.00 (Nevada students are sponsored by Geotemps, Inc.) _____

Donations: _____ I wish to donate to the **GSN Student Dinner Fund** _____

(Foundation Donated Funds will be used for unrestricted grants and scholarships unless otherwise specified below)

I wish to donate to the **GSN Student Field Trip Fund** _____

I wish to donate to the **GSN Foundation** _____

TOTAL: _____

Payment Type: Check # _____ Cash Visa MasterCard

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Signature (as it appears on card): _____

Return with payment to: Geological Society of Nevada,
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Fax to 775/323-3599, E-mail gsn@gsnv.org

**Geological Society of Nevada
2011 Fall Field Trip
Mine Visits: Hycroft, Florida Canyon, Standard and Coeur Rochester
October 22 and 23, 2011**

Saturday, October 22nd: Depart Reno @ 7:00 a.m. for **Hycroft, Allied Nevada**
Arrive at mine approximately 11:00 a.m. Lunch provided.
Tour in the afternoon, then overnight in Winnemucca.

Sunday, October 23rd: Breakfast on own
Depart hotel @ 7:00 a.m. for **Florida Canyon and Standard mines, Jipangu**
Lunch provided.
Afternoon tour **Coeur Rochester**; return to Reno Sunday evening.

SPONSORSHIP OPPORTUNITIES FOR THE FALL 2011 FIELD TRIP

Please call Laura at the GSN office 775-323-3500 or email gsn@gsnv.org if you'd like to sponsor meals, social, students, etc.

**Payments must be made by October 14, 2011
No refunds after October 14, 2011**

Name: _____
Phone: _____
Company: _____
Email: _____

Lodging: Single Double No Room

Double Roommate: _____

MEMBER COSTS:

\$200 - Double
\$250 - Single (Limited Number of Rooms)
\$150 - No Room in Winnemucca
Student Double (First come first served)

Person to contact in case of Emergency:

Name: _____
Phone: _____

***NON-MEMBER COSTS:**

\$250 - Double
\$300 - Single (Limited Number of Rooms)
\$200 - No Room in Winnemucca

*Non-members are encouraged to become members of the GSN for \$50 annual dues in order to take advantage of the reduced rate.

Total amount included with this form: _____

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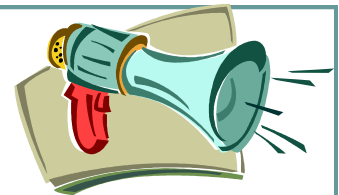
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SPECIAL ANNOUNCEMENT!!!



The G.S.N. Elko and Winnemucca Chapters will be holding a joint meeting in place of their regularly scheduled November Meetings. Everyone will meet in Battle Mountain for this first ever joint chapter meeting event!!

DETAILS WILL BE IN THE NOVEMBER NEWSLETTER!!