

# GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512  
(775) 323-3500 - Hours Monday -- Friday, 8 a.m. to 4 p.m.  
Website: [www.gsnv.org](http://www.gsnv.org) • E-mail: [gsn@gsnv.org](mailto:gsn@gsnv.org)



April 2012, Vol. 28, No. 4

Published monthly except June and July

## CALENDAR OF GSN EVENTS

### PRESIDENT

**William (Bill) Howald**  
Rye Patch Gold US Inc.  
[bill@ryepatchgold.com](mailto:bill@ryepatchgold.com)

### VICE PRESIDENT

**Dave Emmons**  
Kinross Gold USA, Inc.  
[demmons@sbcglobal.net](mailto:demmons@sbcglobal.net)

### SECRETARY

**John Hoskins**  
[cbtr63@sbcglobal.net](mailto:cbtr63@sbcglobal.net)

### TREASURER

**Bob Kastelic**  
Consulting Geologist  
[bob\\_kastelic@yahoo.com](mailto:bob_kastelic@yahoo.com)

### MEMBERSHIP CHAIR

**Carmen Arbizo**  
Inspectorate America Corp.  
[carmen.arbizo@inspectorate.com](mailto:carmen.arbizo@inspectorate.com)

### PUBLICATION CHAIR

**Mary Stollenwerk**  
ALS Minerals  
[Mary.Stollenwerk@ALSGlobal.com](mailto:Mary.Stollenwerk@ALSGlobal.com)

### OFFICE MANAGER

**Laura Ruud**  
[gsn@gsnv.org](mailto:gsn@gsnv.org)

### GSN BOARD OF DIRECTORS

**Chairman**  
David Shadrack

**GSN President**  
Bill Howald, Current

**Most Recent Past GSN President**  
Peter Vikre

**Elko Chapter President**  
Jared Townsend

**So. Nevada Chapter President**  
Paul Bowen

**Winnemucca Chapter President**  
Erin Gray

**Class A, 2009-2012**  
Lynne Volpi  
Kim Craig

**Class B, 2010-2013**  
David Caldwell  
Marcus Johnston

**Class C, 2011-2014**  
David Shadrack (Chairman)  
Camille Prenn

**Apr 11, 2012  
Wednesday**

### **WINNEMUCCA CHAPTER (Every 2nd Wednesday of the month)**

The monthly meeting will be held at the Martin Hotel, 94 West Railroad St. Drinks and Appetizers @ 6:30 PM, Talk @ 7:00 PM. **SPEAKER:** Rick Streiff, Geology Area Mine Manager for Newmont Mining. **TITLE:** "New Discoveries in an Old District: Waihi, New Zealand" (see abstract on page 5). **Sponsor for the evening is GEOTEMPS, INC.** For more info. contact Erin Gray @ 775-635-6420.

**Apr 19, 2012  
Thursday**

### **ELKO CHAPTER (Every 3rd Thursday of the month)**

The monthly meeting will be held at the Western Folk Life Center, 501 Railroad St. Refreshments at 6:00 PM, Talk at 7:00 PM. **SPEAKER:** Chris York, Barrick Cortez. **TITLE:** "Cortez Hills Lower Zone Discovery and Geologic Update" (see abstract on pg. 7) For more information contact Jared Townsend at [jtownsend@barrick.com](mailto:jtownsend@barrick.com); or Doug Eck, at [deck@barrick.com](mailto:deck@barrick.com).

**Apr 20, 2012  
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. Drinks at 6:00 PM, Dinner at 7:00 PM, Talk at 8:00 PM. **SPEAKER:** Graeme Davis, Kinross Gold Corp. **TITLE:** "Geology and Discovery History of the Tasiast Gold Deposit, Mauritania" (see abstract on page 3). **Sponsor for the evening is: GEOTEMPS, INC.** Dinner reservations must be made by NOON Thursday, April 19th. Contact Laura Ruud at (775) 323-3500 or e-mail [gsn@gsnv.org](mailto:gsn@gsnv.org) for reservations. **\$18/person.**

**Apr 26, 2012  
Thursday**

### **SOUTHERN NEVADA CHAPTER (Every Last Thursday of the month)**

The monthly meeting will be held at the Lilly Fong Geoscience building at UNLV, Room 105. Social hour begins at 6:45 pm with the speaker starting at roughly 7:15 pm. **Speaker TBA.** For more information contact R. Paul Bowen, 702-247-7765.

**May 5 & 6,  
2012  
Sat. & Sun.**

**G.S.N. SPRING FIELD TRIP**—to Yerington and Tonopah, Nevada. See Details and Registration form on page 6! First come, first served.



## G.S.N. APRIL 2012 MEETING SPONSOR



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**FROM THE PRESIDENT**  
**William Howald, G.S.N. President 2011—2012**

Dear GSN Members:

A special thank you to Chris Henry for the excellent presentation and discussion on Mesozoic-Cenozoic magmatism and mineralization in the greater Cortez area. Chris noted that he might be a bit promotional. With the excellent work the Nevada Bureau of Mines and Geology does, I think more promotion is warranted -- this is good stuff!

I'm going to repeat my mantra that Nevada is a great place to find giant orebodies, and if you repeat yourself enough, the squeaky wheel gets the oil! Dave Arbonie's and Chris Henry's presentations show the ability of Nevada's Carlin districts and specifically the Cortez area to produce world-class gold deposits. Over 10-million ounces of gold have been poured from the Cortez district, and I believe with continued exploration drilling, the Cortez district will deliver more new gold deposits with potential to become the next 100-million ounce trend in Nevada. The trend is your friend.

Our April speaker is Graeme Davis, Vice President Geoscience, Kinross Gold Corporation, and the title of his presentation is "Geology and Discovery History of the Tasiast Gold Deposit, Mauritania". Now Mauritania is not Nevada -- so much for the mantra, but I know the presentation will prove informative, exhilarating, and show how multi-national companies such as Kinross approach and balance the risk/reward equation for long-term growth opportunities.

I want to take some time in this newsletter to update the membership on where we stand with regard to **Membership**, data **Migration** and **Mentoring**. Everyone has done a great job at getting their colleagues, neighbors, friends, wives, husbands, and a few geologists to join the GSN. Last year, the 2010-2011 membership year ended with roughly 850 members. This year, the 2011-2012 membership year will end with approximately 1,200 members. That's a 41% increase (**WOW!**). Representing 28 states and 9 different countries (U.S.A.,

Canada, Argentina, Australia, Chile, Ireland, Portugal, Mexico, and New Zealand), the increase in membership caused some issues with mailing of the membership directory. The growth and corresponding weight caused the postage to increase significantly. The cost of success!

Mary Stollenwerk and Laura Ruud have been working on the data **Migration** to a digital format on the GSN publications and the website. The interactive map is running on the website and shows the available publications for a given geographic area in Nevada. Running your mouse over the map highlights the areas with GSN publication information. The online store is ready for its inaugural launch. Eventually, you will be able to buy publications online and have them delivered to your computer wherever an Internet connection exists. This way you will be able to amaze your friends and confound your enemies with your ever increasing, cutting-edge knowledge of Nevada geology and ore deposits -- all at your finger tips.

I hope everyone has had the chance to **Mentor** an up and coming geoscientist. This April, I'm helping to host a field trip with geology students from California State University at Sacramento to illustrate the exploration process from exploration idea to operating mine. The trip will feature some exploration projects near Lovelock and culminate with a trip to the Hycroft mine. I'm looking forward to meeting and discussing geology and ore deposits with the group.

Finally, it's time to elect our next executive committee and 2 new Board members for the 2012-2013 membership year. The ballot is in this newsletter, and I entrust you will take the time to vote. There are also some modest changes to the GSN constitution that will be presented for your review and approval.

A mile high, a mile deep



**Thanks to Enviroscientists, Inc.**  
**For Hosting the March 16, 2012 Meeting!**

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# *GSN April 20, 2012 Membership Meeting*

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

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 **NOON on Thursday, April 19, 2012.**  
Social Hour: 6:00 PM – Dinner: 7:00 PM – Speaker: 8:00 PM

**\$18.00 per person (note new price. The attendees voted last month to cover the caterer's additional costs for china plates and being able to sit at the dinner tables during the talk)**

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)

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## **“Geology and Discovery History of the Tasiast Gold Deposit, Mauritania”**

**Graeme Davis – Vice President Geoscience, Kinross Gold Corporation**

### **Abstract**

Kinross Gold Corporation acquired the Tasiast gold mine in Mauritania in September 2010, following the business combination with Red Back Mining Inc. The project is located in northwest Mauritania, 300km north of the capital Nouakchott. As of December 31, 2011 the total Reserve stood at 128Mt at 1.80g/t Au (7.46Moz), with additional Measured and Indicated Resources of 403Mt at 0.86g/t Au (11.11Moz) and Inferred Resources of 78Mt at 0.74g/t Au (1.86Moz). The mine produced 200,600 gold equivalent oz in 2011.

The Tasiast Mine is located within the north-south trending Archaean Aouéouat greenstone belt, in the western part of the Precambrian Reguibat Shield. This highly prospective and largely under-explored belt shares many similarities with several other Archaean belts that host major gold deposits, eg. Timmins camp and the Laverton belt.

Mineralization lies within a series of parallel shears, which, in broad terms, separate an epiclastic sedimentary basin to the west from mafic, ultramafic and iron formation rocks to the east. Individually or collectively, these shears appear to represent an inversion structure at a basin margin.

The first deposits found and exploited at Tasiast were the Piment and West Branch footwall zones, which are mainly hosted within magnetite-quartzite iron formation, extending over a strike length of more than 6km. The Piment Zone is up to 200m wide and consists of moderately east dipping mineralization with shallow south-plunging higher grade shoots. The zone is hosted above the footwall contact with felsic volcanics. The West Branch footwall zone, also hosted by east dipping iron formation and volcanoclastics, lies below the hanging wall contact with felsic volcanics. Stratigraphic repetitions within these units suggest the presence of an antiform; however definitive evidence is yet to be mapped.

During step-out drilling at West Branch, significant blind mineralization was discovered in mafic rocks, known as the Greenschist Zone. This is a sheeted style of thin quartz-carbonate-albite-pyrrhotite veining within biotite-chlorite-sericite altered rocks. The zone plunges south at 25 degrees and averages approximately 70 metres wide downhole, 800 metres horizontally and has been drilled to 700 metres vertically. The average Reserve grade is around 1.8g/t Au, although higher grades exist near surface, and the deposit responds well to conventional CIP treatment. The Tasiast expansion project is Kinross' top development priority and is the cornerstone asset in the company's long-term growth strategy.

### **Graeme Davis – Kinross Gold Corporation**

Graeme Davis holds the position of Vice President of Geoscience with Kinross Gold Corporation, where he is responsible for improving exploration effectiveness at all of Kinross's mine sites and projects.

He has 27 years experience as an explorer, and prior to Kinross worked for Newcrest Mining, Placer Dome and Renison Goldfields. He considers himself fortunate to have worked on some truly world class deposits, including the Kupol deposit in Far Eastern Russia, Pueblo Viejo in the Dominican Republic and the Tasiast deposit in Mauritania. Graeme graduated with Honors from the University of Technology, Sydney and holds a Masters Degree from James Cook University of North Queensland. He has lived in Reno, Nevada for the past 7 years and now calls the United States home.

## “FACES OF GSN”

### Life in the Fast Lane – Comments from Tommy B. Thompson

Growing up and being educated in New Mexico, along with life on a family ranch, introduced me to rural settings and set my path towards an outdoor career. My first job in the mining industry was a Summer position with Standard Metals Corporation at the Sunnyside mine area north of Silverton, CO. I had just received my B.S. in Geology (1961). The following Summer I tried the “oil patch” with employment from Humble Oil & Refining on the King Ranch in south Texas. That latter experience (*i.e.* never seeing a rock) convinced me that the mining/exploration field was more to my liking. I’ve never looked back!

On receiving my Ph.D. (1966, University of New Mexico; dissertation in the Sierra Blanca igneous complex of south-central NM where historic mining and active exploration were ongoing), I was offered a position with Bear Creek Mining Company; however, I had worked Summers for them and was moved several times each Summer. With a wife and 4 children, I decided I needed to have a set home site while the kids grew up. So, I took a faculty position with Oklahoma State University (I had been offered 3 faculty positions, and OSU was the university closest to the west where I wanted to work). Seven years, formulating the OSU Graduate Program, and being the token “hard-rocker” was enough, and I took a position in 1973 at Colorado State University. The next 22 years went by rapidly with more than 75 graduate advisees completing their degrees in Economic Geology. I was out on field projects every Summer, principally as a consultant, giving me the opportunity to work all over the western U.S. and Mexico (growing up in New Mexico had exposed me to Spanish as a second language). The Leadville district had just become active again prior to my arrival at CSU (I served as the Black Cloud mine geologist in 1981), and I enjoyed the work there, ultimately culminating in the Society of Economic Geologists Monograph 7 (Carbonate-hosted Sulfide Deposits: Central Colorado Mineral Belt, 1990, edited with colleagues and co-investigators; 9 of the papers in the Monograph are authored with or by former students). In 1980 the Cripple Creek district experienced reactivation, and my research expanded to that epithermal district; working in those 2 districts at the same time with many graduate students was invigorating. In addition, the “Mexican Mafia,” a group of congenial graduate students from Mexico, began to filter into our Economic Geology graduate program in the late 1970’s, opening the door to a variety of deposits throughout Mexico. In 1994 the College of Forestry & Natural Resources, within which the geology program was located, hired a new Dean (aka Federal Bureaucrat) who told me he “couldn’t support my graduate program” as he wanted the College to be known for its environmentally-responsible programs. I stayed at CSU through 1995 so that my last students could complete their graduate degrees, and I received emeritus status with retirement.

During the Spring, 1994 I had taken a sabbatical that was a 5-month trip throughout South America, visiting 57 mining operations and getting acquainted with companies-geologists in Ecuador-Perú-Bolivia-Chile-Argentina. Additionally, I visited national parks and historic sites because of a “Geology of National Parks” course that I had taught for 5 years at CSU in addition to the Economic Geology curriculum. Machu Picchu and the Islas Galapagos were among some of those sites visited along with a visit to the Equator where I stood in both North and South America! That South American experience opened the door to many years of intense mapping-exploration for a variety of mining company clients throughout South America, including time at Yanacocha & Minas Conga in Perú and Veladero in Argentina to mention a few.

Returning home from South America in the Fall, 1996, I received a conference call from Chief Geologists of 3  
(Cont. on page 5)

Mapping (2008) the Cinco Estrellas vein, Pinos mining district, Zacatecas, Mexico.



(T. Thompson, cont. from page 4)

companies asking why I hadn't applied for a position at the Mackay School of Mines. My response was "I've done that and I'm enjoying the consulting work in Latin America." They insisted on coming to Fort Collins, CO to visit with me about the new center that was being developed between the Department of Geological Sciences, Nevada Bureau of Mines & Geology, U.S. Geological Survey, and the Mining Industry. They convinced me to apply, and I came for an interview later that Fall. The rest is history!! Fourteen years + as Director, *Ralph J. Roberts Center for Research in Economic Geology (CREG)* and teaching the Economic Geology curriculum has been rewarding; however, many of the university administrators have been less than supportive as they don't appreciate a program that prepares geologists to work in the minerals industry! In spite of those issues CREG has been a major contributor to graduate degree generation within the Department of Geological Sciences & Engineering. CREG has funded 56 M.S. and Ph.D. students with most going to the mining industry on degree completion. I've advised 34 of the 56 CREG-funded graduate students.

As part of my experience within the Society of Economic Geologists (Guidebook Editor (1986-2002), Vice President (1997), Distinguished Lecturer (1996), and the Marsden Awardee for Service (2006)), I helped open a Mackay Student Chapter that has been very active. Each Spring Break the members of the Chapter have organized a fieldtrip. Visits to Tasmania-Queensland (Australia), northern Chile, central Mexico, northern Mexico, Great Basin, and Turkey (this year) mines have expanded the students' experiences beyond the classroom. The opportunities afforded UNR students as GSN members is an additional experience that is equally rewarding to them and me. To sum it all up.....I wouldn't change anything in my career choice!!



Tommy T. and Peggy Arps  
on the GSN Fall Field Trip

## G.S.N. WINNEMUCCA CHAPTER MEETING

April 11, 2012

New Discoveries in an Old District:

Waihi, New Zealand

Lorraine Torckler and Rick Streiff, 2011

Waihi is a historic mining center within the Hauraki Goldfield, a classic epithermal mining district located on the North Island of New Zealand. Over 50 producing epithermal veins are located on the Coromandel Peninsula, hosted mainly in Miocene to Pliocene andesites or dacites overlying a Jurassic aged meta-sedimentary sequence. Significant veining also occurs in the overlying rhyolites. The district has produced 12 million ounces of gold and 62 million ounces of silver since its discovery in 1862.

The principal producer in the district is the Martha mine, which was initially mined from 1883 to 1952 by underground methods and produced 4.9 million ounces of gold. The mine was reopened in about 1985 and has produced an additional 2 million ounces from an open pit which is mining stope fill, remnants and adjacent stockwork veining.

Experience working at Waihi has built a toolkit for exploration which includes historic datasets, new geologic and structural models, geochemistry, geophysics and modern drilling techniques. A strong social license has allowed Newmont to explore in areas once thought to be off-limits.

Renewed exploration efforts in Waihi have resulted in 4 new discoveries within a historic mining area once thought to have been thoroughly explored. Moonlight was discovered in 1997 by recognizing the significance of near-surface geologic features. Favona was subsequently discovered in 2000, in part as a result of the Moonlight discovery. The Union/Trio discovery in 2003 was a result of reviewing historic data and applying new geologic concepts. The most recent discovery, Correnso in 2009, was a result of using oriented core on a routine basis and reinterpreting older drill intercepts.

The GSN Winnemucca Chapter is seeking nominations for the position of Secretary for the 2012-2013 fiscal year beginning on June 1, 2012. Please contact Erin Gray if you'd like to volunteer or nominate a friend! [Erin.Gray@Newmont.com](mailto:Erin.Gray@Newmont.com)

**WINNEMUCCA CHAPTER  
APRIL 2012 MEETING SPONSOR**



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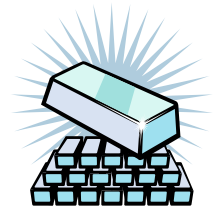
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**Geological Society of Nevada Spring Field Trip Registration  
May 5 and 6, 2012**

**“Copper, Silver and Gold in the Walker Lane”**



**Saturday, May 5th:** Depart Reno @ 7:00 a.m. from the GSN Office  
9:00 to 12:00 noon—Tour MacArthur Copper Project  
12:00 to 1:00 p.m.—Sack lunch provided.  
1:00—2:30 p.m. Core & map display at Pumpkin Hollow Project.  
2:30—6:00 p.m. Drive to Tonopah for Dinner and Overnight.

**Sunday, May 6th: Breakfast on your own**  
8:00—11:00 a.m.—Tour Three Hills Project  
12:00 noon - 2:30 p.m. Lunch at and tour of the Tonopah Historic Mining Park.  
2:30—7:00 p.m. Return to Reno



**SPONSORSHIP OPPORTUNITIES FOR THE SPRING 2012 FIELD TRIP**

**SNACKS/BEER ON THE BUS—\$400, SATURDAY LUNCH—\$450,**

**SATURDAY DRINKS—\$500, SATURDAY DINNER—\$1,200, SUNDAY LUNCH—\$450.**

**Please call Laura at the GSN office 775-323-3500, Fax 775-323-3599, or e-mail [gsn@gnsnv.org](mailto:gsn@gnsnv.org) if you would like to be a sponsor. Each donor will be acknowledged on the field trip and in the field guidebook.**

**GREAT ADVERTISING OPPORTUNITY!**

**May 5 and 6, 2012 Field Trip Sign Up**

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

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

Company: \_\_\_\_\_

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

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

Person to contact in case of emergency:

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

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

Lodging: Single \_\_\_\_\_ Double \_\_\_\_\_

Double roommate: \_\_\_\_\_

**MEMBER COSTS:** Double Room (LIMITED #!) \$235.00  
Single Room \$255.00  
Room Not Required in Tonopah \$175.00

**\*NON-MEMBER COSTS:** Double Room (Limited #) \$285.00  
Single Room (Limited Number) \$305.00  
Room Not Required in Tonopah \$225.00

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

Paid with Check Number: \_\_\_\_\_

Visa:  MasterCard:  Expiration date: \_\_\_\_\_

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

3-digit security code (back of credit card): \_\_\_\_\_

Signature: \_\_\_\_\_

Payments must be made by April 20, 2012. No refunds after April 20, 2012. Fax: (775) 323-3599 or mail to GSN office: 2175 Raggio Pkwy., Reno, NV 89512 or email to [gsn@gnsnv.org](mailto:gsn@gnsnv.org)

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



## **CALL FOR NOMINATIONS—2012/2013 CHAPTER OFFICERS**

The G.S.N. Elko Chapter is seeking nominations for the positions of Vice-President, Secretary, Treasurer and Membership Chair for the coming fiscal year beginning on June 1, 2012. Please contact Jared Townsend at [jtownsend@barrick.com](mailto:jtownsend@barrick.com) if you are interested or would like to nominate someone.

### **G.S.N. ELKO CHAPTER MEETING**

**APRIL 19, 2012**

#### **“Cortez Hills Lower Zone Discovery and Geologic Update”**

**By Dave Arbonies, Kevin Creel, and Meghan Jackson**

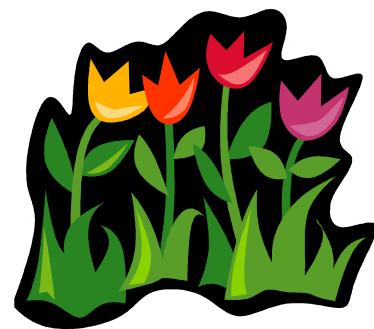
The Cortez Hills Complex is comprised of two in-situ and connected Carlin-Type ore bodies with differing geometries and an exotic satellite deposit ( Pediment deposit) which is the eroded and re-deposited top of the subcropping Cortez Hills orebody. The main deposit consists of a conical shaped polyolithic breccia located between Tertiary quartz porphyry sills which cut Devonian Wenban Limestone and locally recognized Horse Canyon Formation (Rodeo Creek Formation equivalent). This zone is referred to as the Cortez Hills Breccia Zone (CHBZ) and is currently being mined from surface and underground operations. During the delineation of the CHBZ, a “Lower Zone” was recognized as differing from the CHBZ due to its tabular geometry and refractory character. Subsequent exploration delineated the Cortez Hills Lower Zone (CHLZ) and showed that gold mineralization is localized along the north-northwest trending intersection of a complex low angle structural zone and a steeply west dipping, north-northwest striking dike swarm. The structural zone hosting gold mineralization is know as the Ponderosa Fault Zone and transects the carbonate section from the Hanson Creek Dolomite to the south, through the Roberts Mountains Formation to the base of the Wenban Limestone to the north. The formations are locally folded and imbricated within the Ponderosa fault zone. Tertiary quartz porphyry rhyolite dikes and sills also occupy the Ponderosa Fault. The Ponderosa Fault is the structural conduit that fed ore fluids into the CHBZ. The CHLZ ranges from 1,500 ft to 3,000 ft below ground surface. Gold mineralization in the CHLZ is dominantly refractory to the north and transitions to dominantly oxide as the zone plunges to the south. Gold is associated with decarbonization and local silicification. Despite the presence of intensely decalcified groundmass, some mineralized intercepts are associated with abundant calcite veining. The gold system exhibits classic Carlin-type geochemistry with gold mineralization closely associated with anomalous concentrations of arsenic, mercury, antimony and thallium. CHLZ gold mineralization was discovered in 2003, and focused surface drilling delineated the resource from 2005-2007. The CHLZ remains open to the south and at depth and is being explored from underground drilling platforms.

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*Thank you to our  
MARCH donors!*

### **STUDENT DINNER FUND**

**Kenneth Coleman  
Del Flint  
Mike Ressel  
Wendell Osbey**



**Thanks to  
DOSECC Exploration Services, LLC  
for sponsoring the  
Elko Chapter meeting in March!**

**Thanks to  
TonaTec Exploration LLC  
for sponsoring the  
Winnemucca Chapter  
meeting in March!**



# Activity Update

Mike Brady, February 2012

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



## NEVADA

Nevada Copper Corp. announced that based on a recently completed feasibility study of the Pumpkin Hollow Project, open-pit reserves aggregate 134,900,000 tonnes @ 0.50% Cu, 0.10 gpt Au proven+probable while underground reserves (East and E2 deposit) aggregate 21,200,000 tonnes @ 1.5% Cu, 0.21 gpt Au probable. (was 155,900,000 tonnes @ 0.59% Cu, 0.10 gpt Au measured) *M.J.:* January 27

General Moly Inc. announced that it obtained a syndicated loan from the China Development Bank as well as a consortium of other Chinese and international banks for \$665,000,000 to fund development of the Mt. Hope Project. General Moly was required to pledge all the company's assets including its 80% interest in the Mt. Hope Property as collateral. (reserve = 965,909,000 tonnes @ 0.068% Mo proven+probable) *M.J.:* February 20

Solitario Exploration + Royalty Corp. announced that based on a recently completed feasibility study of the Mt. Hamilton/Centennial Project, reserves aggregate 20,479,000 tonnes @ 0.75 gpt Au, 4.7 gpt Ag proven+probable. (was 7,000,000 tonnes @ 1.19 gpt Au inferred) *Press Release:* February 22

Yukon-Nevada Gold Corp. announced that recent drill results at the West Mahala Project include 264.13-298.29 meters @ 9.98 gpt Au (SH-1205); 211.97-213.5 meters @ 10.32 gpt Au (MAH-447); 317.66-369.96 meters @ 6.17 gpt Au (MAH-456) and 324.82-354.1 meters @ 5.56 gpt Au (MAH-459). (resource = 1,799,000 tonnes @ 6.52 gpt Au inferred) *Press Release:* February 13

Stina Resources Ltd. announced that it acquired an option to earn a 70% interest in the Searchlight Property from Royal Mines + Minerals Corp. for \$1,000,000 in exploration expenditures over 3 years. *Press Release:* February 1

Rye Patch Gold Corp. announced that recent drill results at the Gold Ridge Project include 29.0-83.8 meters @ 0.29 gpt Au, 5.7 gpt Ag (GR-04); 4.6-25.9 meters @ 0.13 gpt Au, 21.1 gpt Ag (GR-05); 71.6-93.0 meters @ 0.36 gpt Au, 7.0 gpt Ag (GR-06) and 117.3-135.6 meters @ 0.20 gpt Au, 3.2 gpt Ag (GR-07). *Press Release:* February 1

Nevada Sunrise Gold Corp.(49%) announced that recent drill results at the Kinsley Mountain Project include 111.7-120.4 meters @ 6.23 gpt Au (PK-02C); 102.7-110.2 meters @ 6.75 gpt Au (PK-03C); 42.7-61.1 meters @ 5.91 gpt Au (PK-04C) and 159.6-165.0 meters @ 0.58 gpt Au (PK-05C). (resource = 1,795,000 tonnes @ 1.13 gpt Au inferred) *Press Release:* February 10

Nevada Copper Corp. announced that it began the construction of a 7.3 meter diameter, 671 meter deep shaft at the Pumpkin Hollow Project. *Press Release:* February 22

Pilot Gold Inc. announced that it acquired an option to earn a 60% interest in the Griffon Property from Molycor Gold Corp. for \$119,600, 120,000 shares and \$750,000 in exploration expenditures over 4 years. *Press Release:* February 22

Midway Gold Corp. announced that recent drill results at the Gold Rock/Easy Junior Project include 209.4-230.1 meters @ 0.41 gpt Au (GR11-15C); 53.3-103.9 meters @ 1.37 gpt Au (GR11-23C); 106.7-161.2 meters @ 0.55 gpt Au (GR11-25C) and 179.8-246.9 meters @ 0.58 gpt Au (GR11-28RC). (resource = 3,345,000 tonnes @ 1.06 gpt

Au inferred) *Press Release:* February 21

International Enxco Ltd. announced that recent drill results at the Contact Copper Project include 24.4-38.1 meters @ 0.92% Cu (ENR-3); 65.5-82.3 meters @ 0.43% Cu (ENR-6); 32.0-71.6 meters @ 0.24% Cu (ENR-8) and 39.6-57.9 meters @ 0.12% Cu (ENR-14). (resource = 122,900,000 tonnes @ 0.26% Cu measured+indicated) *Press Release:* February 14

Klondex Mines Ltd. announced that recent drill results at the Fire Creek Project include 225.7-248.57 meters @ 1.53 gpt Au, 10.2 gpt Ag (FC-1127); 301.9-306.5 meters @ 1.40 gpt Au, 9.9 gpt Ag (FC-1130) and 233.3-239.4 meters @ 1.09 gpt Au, 3.4 gpt Ag (FC1136). (resource = 5,176,000 tonnes @ 9.9 gpt Au indicated) *Press Release:* February 14

Atna Resources Ltd. announced that based on recent drill results at the Reward Project, resources aggregate 16,379,000 tonnes @ 0.69 gpt Au measured+indicated and 4,315,500 tonnes @ 0.47 gpt Au inferred. (was 12,600,000 tonnes @ 0.70 gpt Au measured+indicated and 4,778,000 tonnes @ 0.46 gpt Au inferred) *Press Release:* February 27

Evolving Gold Corp. announced that recent drill results at the Jake Creek Project include 283.65-286.7 meters @ 0.412 gpt Au (JC-010); 160.1-161.6 meters @ 0.618 gpt Au (JC-011); 161.6-167.75 meters @ 0.344 gpt Au (JC-012) and 321.77-338.55 meters @ 0.605 gpt Au (JC013). *Press Release:* February 24

Gunpoint Exploration Ltd. announced that recent drill results at the Talapoosa Project include 78.33-159.72 meters @ 1.21 gpt Au, 22.7 gpt Ag (GTL-05); 91.14-138.38 meters @ 0.94 gpt Au, 12.8 gpt Ag (GTL-06) and 108.51-227.08 meters @ 1.42 gpt Au, 18.3 gpt Ag (GTL-07). (resource = 20,955,000 tonnes @ 0.92 gpt Au, 12 gpt Ag measured+indicated) *Press Release:* February 15

Boxxer Gold Corp. announced that recent drill results at the Boss Project include 1.7-44.8 meters @ 0.10% Cu, 0.04 gpt Au (08-11); 2.1-27.4 meters @ 0.15% Cu, 0.05 gpt Au (09-11) and 0-29.5 meters @ 0.60% Cu, 0.07 gpt Au (10A-12). *Press Release:* February 21

Atna Resources Ltd. announced that based on recent drill results at the Pinson Project, resources aggregate 2,648,800 tonnes @ 12.6 gpt Au measured+indicated and 2,028,600 tonnes @ 12.97 gpt Au inferred underground as well as 23,102,600 tonnes @ 1.32 gpt Au measured+indicated and 747,900 tonnes @ 1.18 gpt Au inferred open pit. (was 2,272,500 tonnes @ 14.5 gpt Au measured+indicated and 3,067,000 tonnes @ 11.6 gpt Au inferred) *Press Release:* February 6

Allied Nevada Gold Corp. announced that based on recent drill results at the Hasbrouck Project, resources aggregate 116,909,000 tonnes @ 0.31 gpt Au, 7.8 gpt Ag inferred. (was 18,400,000 tonnes @ 0.78 gpt Au, 11 gpt Ag indicated) *Press Release:* February 27

Allied Nevada Gold Corp. announced that based on recent studies at the Hycroft Project, reserves aggregate 307,876,000 tonnes @ 0.24 gpt Au, 8.2 gpt Ag proven+probable heap leach and 723,642,000 tonnes @ 0.44 gpt Au, 17.1 gpt Ag proven+probable mill. (resource = 1,396,400,000 tonnes @ 0.37 gpt Au, 13 gpt Ag measured+indicated) *Press Release:* February 23

Max Resource Corp. announced that recent drill results at the Majuba Hill Project include 21.9-51.1 meters @ 0.69% Cu, 30.5 gpt Ag (MM-18); 44.2-86.9 meters @ 0.03% Cu, 16.8 gpt Ag (MM-17) and 2.4-6.0 meters @ 0.45% Cu, 14.3 gpt Ag (MM-19). *Press Release:* February 7





# GSN 2012-2013 BALLOT



This Ballot will also be attached as a separate file to your email so you can submit online!

In accordance with Article V, Section 4 of the GSN Constitution and Article II of the GSN By-Laws, the GSN Executive Committee and the GSN Board of Directors are recommending the slate of candidates listed below to serve as Officers for 2012-2013 and Directors for 2012-2015; these positions become effective on June 1st.

The entire GSN membership has the right to vote separately on approving the elected positions to the GSN Executive Committee and the Class A three year term on the Board of Directors as presented below:

## Officers for the 2012-2013 GSN Executive Committee

### PRESIDENT

David Emmons

### SECRETARY

John Hoskins

### MEMBERSHIP CHAIR

Carmen Arbizo

### VICE PRESIDENT

Tommy Thompson

### TREASURER

Robert Kastelic

### PUBLICATIONS CHAIR

Keith Fowlow

FOR SLATE \_\_\_\_\_

AGAINST SLATE \_\_\_\_\_

\*\*\*\*\*

## GSN Board of Directors

### Class A: Three Year Term – 2012 to 2015

Lynne Volpi

Randy Vance

FOR BOTH \_\_\_\_\_

AGAINST BOTH \_\_\_\_\_

\*\*\*\*\*

## Proposed Changes to the GSN Constitution

Suggestions for amendments to 2 articles (green font is a deleted section, gold font is an added section).

Article VI. Dues, Section 1: Members shall be considered [~~delete in good standing~~] **current when dues have been paid for the current year.**

Article IV. Membership, Section 2: Members shall be persons whose professional activities or whose interests are in keeping with the Objectives of the GSN **and who are considered current, as defined in Article VI, Section 1.**

FOR BOTH \_\_\_\_\_

AGAINST BOTH \_\_\_\_\_

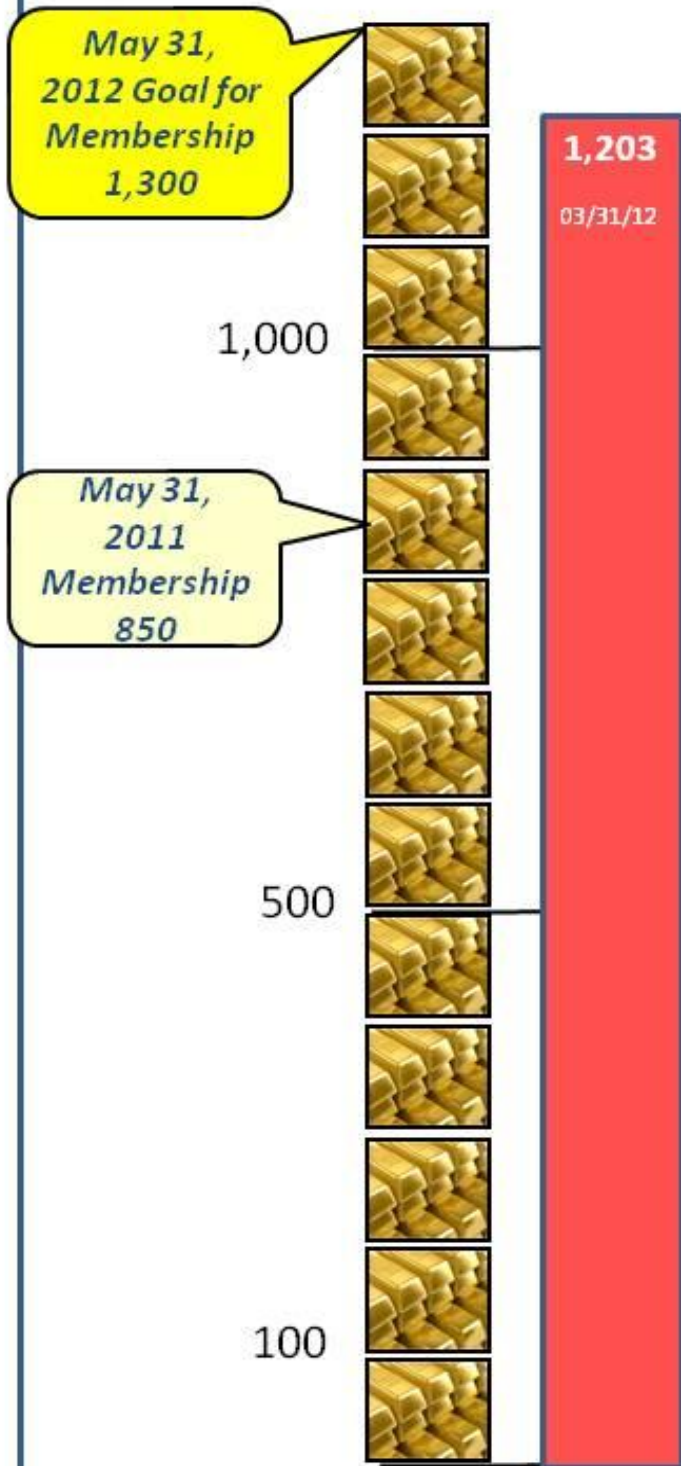
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GSN MEMBER'S NAME \_\_\_\_\_

All votes must include the GSN Member's Name. Vote without a name will not be counted.

If you are receiving this notice by mail, either mail your vote to GSN, 2175 Raggio Parkway, Reno, Nevada 89512 or fax it to (775) 323-3599. In order for the vote on this ballot to be counted the completed ballot must be received in the GSN office on or before 11:59 pm on Friday, April 20, 2012. Thank you for your participation.

## Goal for 2012



## Geological Society of Nevada Membership Drive

THANK YOU EVERYONE FOR  
MAKING OUR 2012  
MEMBERSHIP DRIVE A HUGE  
SUCCESS!

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



# WHERE IN NEVADA??

1. Where is it ?
2. What is it ?
3. How was it formed ?

Send your entries to Laura no later than Thursday, April 19, 2012. All entries must be accompanied by your own suggested mystery geology photo taken somewhere in Nevada. The winning entry will be selected at random from among all the correct entries, and a fabulous prize may be awarded.



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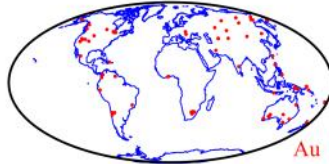
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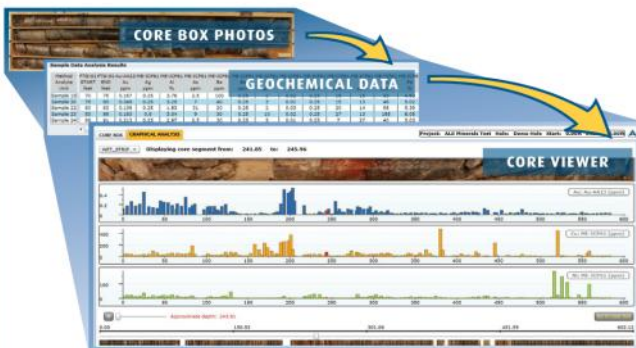
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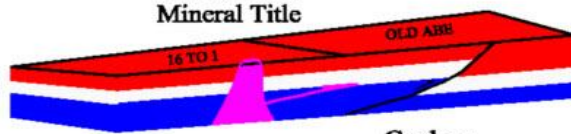
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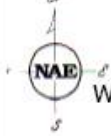
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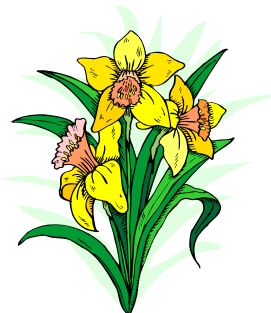
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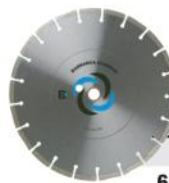
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#### Accessories Included with BD-2005G

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