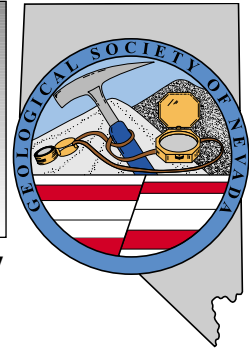


# GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

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, 9 am-1 pm



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## CALENDAR OF GSN EVENTS

### February 13, Wednesday

WINNEMUCCA CHAPTER will have the monthly meeting at the Martin Hotel, beginning at 6:30 pm, talk to follow at 7:00 pm. The speaker for the evening is Ivan Johnston. He will be presenting a talk about the Phoenix Mine Copper Leach Project. The sponsor for the evening is Geotemps. For more information contact Jon Carlson, 775/529-5001 x2318, [jcarlson@barrick.com](mailto:jcarlson@barrick.com).

### February 15, Friday

GSN MEMBERSHIP MEETING will be held the Reno Elks Lodge 597 Kumle Ln, Reno, NV, drinks at 6 pm, dinner at 7 pm, and talk at 8:00 pm. Speakers for the evening will be Gregory McN. French and Hank Ohlin on The Sleeping Giant: Copper-Iron-Gold Skarn Deposits of Pumpkin Hollow, Yerington, NV. Contact Kelly Parsons for reservations, 775/323-3500, [gsn@gsnv.org](mailto:gsn@gsnv.org).

### February 21, Thursday

ELKO CHAPTER will have the monthly meeting at the Western Forklift Center, beginning at 6:00 pm with the social hour and with the talk beginning at 7:00. The speaker for the evening is Dorian L. (Dusty) Nicol. He will be presenting a talk about "Similarities and Contrasts: Exploring Two Sediment-Hosted Gold Districts in Nevada and the Yukon." For more information contact Nancy Richter, 775/468-4527, [nrichter@barrick.com](mailto:nrichter@barrick.com). See abstract on page 6.

### February 28, Thursday

SOUTHERN NEVADA CHAPTER monthly meeting will be held at the University of Nevada, Las Vegas, Room 105 at 6:45 pm. The speaker for the evening is Wanda Taylor. The topic for the evening is the "Seismicity of the Las Vegas Valley." For more information, contact Lora Griffin at [lora.griffin@unlv.edu](mailto:lora.griffin@unlv.edu).

GSN's February monthly meeting was well attended with 83 folks (2 students) having dinner.

## FROM THE PRESIDENT

Greg Hill, *GSN President 2007-2008*

Many thanks to Brian Morris of Great Basin Gold for presenting an interesting talk on the Hollister district at the January dinner meeting in Reno. As another Nevada district approaches full production it is great to see solid examples of new mines being found in old districts. Many thanks to ALS Chemex for sponsoring the meeting. Once again a strong turnout, a strong speaker, and a generous sponsor made the meeting very enjoyable and informative.

In February, Greg French will speak at the Reno monthly meeting about Nevada Copper Corporation's Pumpkin Hollow development project near Yerington, Nevada. We anticipate another strong turnout for this talk so make your reservations early.

Membership in GSN now stands at 900. Look for your new GSN Directory in February or early March. We have several more interesting events in the works for the remainder of the GSN season including the Spring field trip to sample mines and wines of the mother lode country. Watch

*continued on page 2*

## FEBRUARY MEETING SPONSOR

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## News and Announcements

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

your upcoming Newsletters and e-mail announcements for details of this trip. In April, we will host student poster presentations at the Reno membership meeting. If you or a student you know would like to participate, please contact me or the GSN office for details. Come by the GSN booth at the upcoming PDAC convention in Toronto. We look forward to seeing many of our members there and welcome any members that would like to volunteer some time at the booth.

Finally, I would like to say Thank You to all of the volunteers and sponsors that make GSN work. Without you, the Society could not function. All of us benefit from your generosity and our lives are enriched because of it.

### ELKO CHAPTER HOLIDAY PARTY

The Elko Chapter holiday party was well attended with approximately 100 people. A number of Reno GSN members made the drive out to the Western Folklife Center to eat a great dinner prepared by the Flying Fish restaurant and to listen to Moira Smith's "Excellent Adventures" on "The Seven Summits: An Up Close and Personal View of the Tallest Peak on Each Continent". The photos and talk were very interesting and enjoyed by attendees of all ages. Numerous members brought mineral specimens for the



silent mineral auction and bidding was hot and heavy at the end. Some people were downright pushy! Fun was had by



all and the \$2,400.00 in proceeds went to the Elko Chapter scholarship fund. Cougar Gold's sponsorship of the meeting was much appreciated. Thanks to the Elko Chapter officers for a fine job of planning the event.

### MACKAY CELEBRATION WRITE UP

***Save the Date for the Mackay Centennial Celebration: April 20-26, 2008***

2008 will mark the 100<sup>th</sup> anniversary of the Mackay School of Mines. This historic event will be commemorated by a week of events that include both formal and informal activities on and off campus. Festivities begin Sunday, April 20. Highlights of Mackay Centennial Week include the following:

- April 20<sup>th</sup> - W.M. Keck Museum Open House
- April 21<sup>st</sup> - Mackay Town on the Quad
- April 22<sup>nd</sup> & 23<sup>rd</sup> - Barbeque on the Quad
- April 24<sup>th</sup> -ASUN Graduation Luncheon on the Quad and Alumni Barbeque Reception
- April 25<sup>th</sup> - Tours of Virginia City and Geological Tours of the Comstock Lode by experts, Don Hudson and Richard Bidell
- April 25<sup>th</sup> - Mackay Faculty and Staff Cocktail Reception at the W.M. Keck Museum
- April 26<sup>th</sup> - Mackay Gala Event at the Grand Sierra Resort & Casino
- April 26<sup>th</sup> - Mining Competition at Rancho San Rafael Park

*continued on page 3*

***Thanks to ALS CHEMEX for hosting the January meeting.***

# *GSN February 15, 2008 Membership Meeting*

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**Date:** Friday, February 15, 2008

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

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

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

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

**Speakers/topic:** Gregory McN. French and Hank Ohlin.  
See abstract below.

**Deadline:** Reserve by 1 pm Thursday, February 14<sup>th</sup>

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## **THE SLEEPING GIANT: COPPER-IRON-GOLD SKARN DEPOSITS OF PUMPKIN HOLLOW, YERINGTON, NEVADA**

Gregory McN. French and Hank Ohlin, Nevada Copper Corp., Yerington, Nevada

High grade copper-iron-gold skarn mineralization in the Pumpkin Hollow area southeast of Yerington Nevada has been known for years. Magnetite-rich skarn bodies, commonly greater than 40% iron, hosted by Mesozoic sedimentary and igneous rocks were originally discovered in 1959 by US Steel Corp. using airborne magnetics. Later work by Anaconda and other companies outlined copper rich areas within the system where drilling intercepted grades ranging from 1 to 20 % Cu. A recently completed resource study at a 0.2% copper cutoff now stands at 7.9 billion pounds of copper, 1.2 million ounces of gold, and 57 million ounces of silver. Iron resources at a 10% iron cutoff total 145 million tons of iron.

For a variety of reasons the property has lain dormant for years. Whether exploration was hampered by low copper or iron prices, changing company dynamics, or partial property positions many companies were unable to fully understanding the extent of the mineralization. The mineralization forms manto-like ore bodies hosted in skarn banded hornfels of the Gardnerville Formation, marble and skarn of the Mason Valley Limestone, and endoskarn-altered Jurassic granodiorite. Fine-grained skarn, skarn breccias, and massive magnetite mineralization associated with the Pumpkin Hollow deposits is distal to the Jurassic Yerington Batholith that hosts porphyry deposits in the region: Yerington Pit, Ann Mason, and McArthur deposits.

The sediments of the Gardnerville Formation have been metamorphosed to pyroxene-garnet hornfels and later veined and replaced by epidote-garnet-actinolite-calcite skarn accompanied by chalcopyrite, pyrite, magnetite, and pyrrhotite. Copper mineralization is widely disseminated as well as fracture-controlled, higher grades are found as fracture fillings in skarn breccias. The copper-skarn mineralization within the Mason Valley Limestone appears to follow favorable strata above and at the contact with a large sill of granodiorite endoskarn. Fine-grain massive magnetite mineralization replaces marble and extends hundreds of feet into underlying calcic endoskarn. Sulfides are disseminated throughout the magnetite and are particularly concentrated; in strata-bound skarn-breccia zones, at the endoskarn-marble contact, and at the replacement front between marble and magnetite. Late stage talc is present peripheral to and locally over-prints copper mineralization. A later stage of chlorite + calcite + pyrite veining overprints the entire system.

The early magnetite-hosted endoskarn resembles island-arc calcic magnetite skarn deposits with low-grade disseminated chalcopyrite and elevated cobalt. The higher grade copper mineralization with accompanying gold and silver is typical of porphyry-related skarns. These deposit types are consistent with the district setting of Jurassic porphyry mineralization in a terrane of Triassic through Jurassic island arc and related sedimentary rocks.

### **MACKAY CELEBRATION** *continued from page 2*

#### **Commemorative Medallion**

To celebrate the first 100 years of the Mackay School of Mines and its legacy, a commemorative one-ounce silver medallion featuring the John Mackay statue in front of the Mackay School of Mines building has been produced. This medallion is the first ever to be issued by Mackay or the University of Nevada, Reno! It was minted at the Carson City Mint and carries the "CC" mint mark and also the .999 Fine Silver designation on the front.

Coeur d'Alene Mines Inc. generously donated 2,500 ounces of silver to sponsor the production of the medallion. The silver is from their Rochester mine in northwestern Nevada, the world's 7<sup>th</sup> largest primary silver mine and 100 percent owned and operated by Coeur. The Medallion is available for \$50 from the Nevada Bureau of Mines and Geology.

# ACTIVITY UPDATE

Mike Brady, December 2007

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

## NEVADA

Arcelor Mittal announced it purchased 8,260,000 shares (12.7%) of General Moly Inc. (was Idaho General Mines Ltd.) for \$70,210,000. (reserve @ Mt. Hope = 1,062,500,000 tons @ 0.068% Mo proven+probable)

*M.J.:* November 11

Newmont Mining Corp. announced it would spin-off its Franco Nevada Mining subsidiary in an initial public offering. Franco Nevada (new) will then hold the royalty assets previously held by Franco Nevada (old).

*N.M.:* December 3

Rye Patch Gold Corp. announced recent drill results at the Wilco Project include 180-315 feet @ 0.012 opt Au (WR-030); 180-225 feet @ 0.017 opt Au (WR-031); 315-360 feet @ 0.014 opt Au (WR-032); 270-295 feet @ 0.013 opt Au (WR-033) and 370-410 feet @ 0.012 opt Au (WR-036). (resource @ Willard = 3,890,000 tons @ 0.022 opt Au indicated and 11,760,000 tons @ 0.022 opt Au inferred)

*Press Release:* November 29

Rye Patch Gold Corp. announced that based on recent drill results at the Jessup Project, resources aggregate 5,423,000 tons @ 0.022 opt Au, 0.31 opt Ag indicated and 1,265,000 tons @ 0.017 opt Au, 0.23 opt Ag inferred. (was 8,370,000 tons @ 0.025 opt Au, 0.25 opt Ag inferred)

*Press Release:* December 11

Atna Resources Ltd. announced recent drill results at the Jarbidge Project include 887.3-914.8 feet @ 0.042 opt Au (AJLH-06); 345-350 feet @ 0.109 opt Au (AJLH-021); 385-445 feet @ 0.045 opt Au (AJLH-022); 605-655 feet @ 0.023 opt Au (AJLH-024) and 150-155 feet @ 0.130 opt Au (AJBC-07).

*Press Release:* December 21

Tournigan Gold Corp. announced recent drill results at the Fireball Ridge Project include 155-170 feet @ 0.012 opt Au (TFB-02); 5-10 feet @ 0.010 opt Au (TFB-04); 120-130 feet @ 0.010 opt Au (TFB-05); 20-30 feet @ 0.016 opt Au (TFB-06) and 60-75 feet @ 0.075 opt Au (TFB-07).

*Press Release:* December 7

Midway Gold Corp. announced recent drill results at the Spring Valley/West Diatreme Project include 670-705 feet @ 0.199 opt Au (SV07-319); 215-450 feet @ 0.017 opt Au (SV07-340); 225-235 feet @ 0.964 opt Au (SV07-341); 455-535 feet @ 0.016 opt Au (SV07-342) and 355-445 feet @ 0.031 opt Au (SV07-343). (resource = 10,030,000 tons @ 0.024 opt Au measured+indicated)

*Press Release:* December 4

Galway Resources Ltd. announced recent drill results at the Indian Springs Project include 15-43.5 feet @ 0.22% WO3 (ISC07-131); 4.0-14.5 feet @ 0.30% WO3 (ISC07-132); 31-57.8 feet @ 0.18% WO3 (ISC07-132); 85-125.4 feet @ 0.16% WO3 (ISC07-132) and 195-245 feet @ 0.14% WO3 (ISC07-132). (resource = 11,880,000 tons @

0.171% WO3 indicated and 9,020,000 tons @ 0.167% WO3 inferred)

*Press Release:* December 6

Gateway Gold Corp. announced recent drill results at the Lower Mac Ridge Project include 70-95 feet @ 0.021 opt Au (MR07-04); 15-55 feet @ 0.015 opt Au (MR07-07); 20-30 feet @ 0.012 opt Au (MR07-08); 65-100 feet @ 0.005 opt Au (MR07-10) and 65-105 feet @ 0.017 opt Au (MR07-15).

*Press Release:* December 12

Lincoln Gold Corp. announced that based on recent studies at the Pine Grove Project, a revised resource estimate aggregate 6,060,000 tons @ 0.053 opt Au inferred. (was 2,500,000 tons @ 0.061 opt Au inferred)

*Press Release:* December 20

U.S. Gold Corp. announced recent drill results at the Limo Project include 50 feet @ 0.161 opt Au (L-23); 185 feet @ 0.018 opt Au (L-29) and 20 feet @ 0.022 opt Au (L-18).

*Press Release:* December 12

Yukon-Nevada Gold Corp. announced recent drill results at the Mahala Creek Project include 1,460-1,480 feet @ 0.241 opt Au (SH-1175A); 1,220-1,235 feet @ 0.213 opt Au (SH-1176) and 1,185-1,215 feet @ 0.238 opt Au (SH-1177A). (resource = 420,600 tons @ 0.296 opt Au measured+indicated)

*Press Release:* November 27

Western Uranium Corp. announced recent drill results at the Kings Valley Project include 35.1-36.6 meters @ 0.013% U3O8 (KV-30); 41.1-45.7 meters @ 0.088% U3O8 (KV-31); 41.15-45.72 meters @ 0.060% U3O8 (KV-32) and 25.91-33.53 meters @ 0.113% U3O8 (KV-36). (resource = 8,580,000 tons @ 0.10% U3O8 inferred)

*Press Release:* November 28

## MINING CLAIM FILINGS INCREASE 18% in 2007

Alan R. Coyner

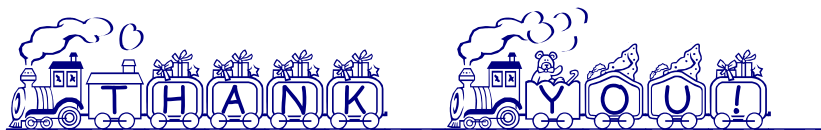
*Administrator, Nevada Division of Minerals*

Mining claim filings increased 18.0% in 2007 over 2006 according to the Nevada Division of Minerals. Nevada's county recorders registered 213,039 mining claim filings in 2007. The number of mining claim filings is comparable to, but does not duplicate, the number of active claims reported annually by the BLM. The 18.0% increase in 2007 follows increases of 8.2% in 2006, and 14.3% in 2005. Elko County had the most filings with 35,710, followed by Eureka with 34,533, and then Humboldt with 29,735. For further information concerning mining claim filings visit the Division's website at [www.minerals.state.nv.us](http://www.minerals.state.nv.us) or call Doug Driesner at 775/684-7046.

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## ELKO CHAPTER FEBRUARY 21<sup>st</sup> MEETING

### Similarities and Contrasts: Exploring Two Sediment- Hosted Gold Districts in Nevada and the Yukon

Dorian L. (Dusty) Nicol

Executive Vice President – Exploration, Yukon-Nevada Gold Corp.

Yukon-Nevada Gold Corp.'s two principal properties are the Jerritt Canyon Gold District, Nevada and the Ketza River Gold District, Yukon Territory. The two camps are similar in many respects: gold mineralization at both properties is sediment-hosted and exhibits both strong structural and strong stratigraphic control. The principal ore controlling structures at both camps are northwest and northeast trending faults. Orebodies at both camps occur where these structures intersect favorable stratigraphic horizons, with the best potential ore zones where structural intersections coincide with favorable stratigraphy.

There are, however, significant differences in the two districts: at Jerritt Canyon, the favorable stratigraphic horizons tend to be limestone and calcareous siltstones. There are few if any reliable visual guides to ore at Jerritt Canyon, though arsenic minerals (orpiment and realgar), silicification, and argillization / decarbonatization can be spatially associated (at varying degrees of proximity) with ore. At Ketza River, gold mineralization is associated with massive sulfides (pyrrhotite +/- pyrite +/- arsenopyrite) and there is a clear visual guide to mineralized zones, but not to gold grade.

Geologic mapping, geochemical sampling, and geophysics have all been successful in guiding exploration at both camps. This talk will discuss similarities and contrasts that have been useful in designing and implementing successful exploration programs at Jerritt Canyon and Ketza River.

## DIRECTORY NEWS

Memberships, renewals, and Directory Ads were accepted until January 31, 2008. The Directory will be assembled, printed, and ready for distribution by mid to late February. The GSN executive board wanted to give everyone a chance to get their name in the book, especially with the problems with emails and staff changes that the organization experienced this past year. Thanks to everyone for their participation and patience.

## *Thank you to our generous donors*

GSN would like to thank the following members for the generous donations to the Foundation and Student Dinner Funds:

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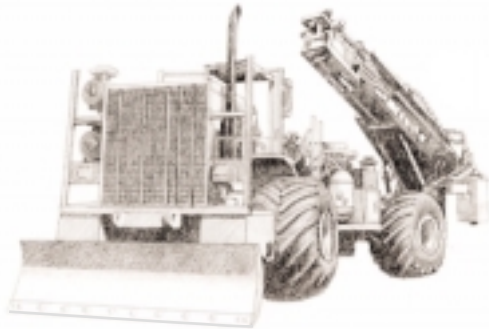
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Clark Jorgensen, M.Sc.  
 Geophysicist

*Field Work  
 Processing  
 Interpretations*

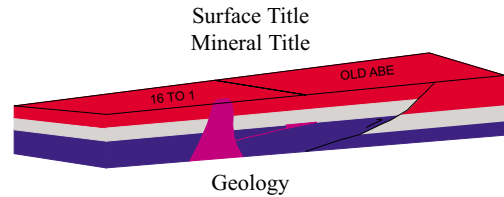
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For more details, my background, and case studies,  
 visit my webpage at [www.bigskygeo.com](http://www.bigskygeo.com)

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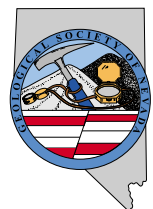
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- Virgin Valley - Nevada, USA
- Treeline - New Mexico, USA
- Ruby Hill - the Thelon Basin, Nunavut, Canada

**Historic Mineral Inventory\* of 31 Mlbs.  $U_3O_8$**   
(\*NOTE: Not NI 43-101 compliant)

**Strategic Alliance with Cameco Corporation**

**Well Funded** – \$50 million in Treasury

**Large lithium resource** on Kings Valley, spinout of  
asset into **Western Lithium Canada Corporation**

### **For further information contact:**

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