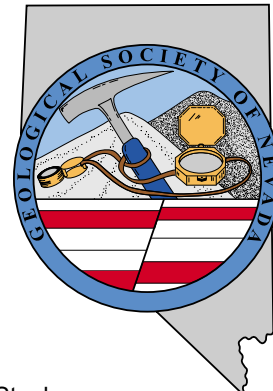


GSN NEWSLETTER



January 2006, Vol. 21, No. 1

CALENDAR OF GSN EVENTS

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**Jan. 11
Wednesday**

WINNEMUCCA CHAPTER MEETING. Speaker: William Stanley, Atna Resources. Title: "Update on Atna's Pinson Underground Project, Nevada". The Martin Hotel, Melarkey and Railroad Streets. Drinks at 6:30 pm, presentation at 7:00 pm. Contact Kim Craig, Chapter President, for more info, 775/529-5001 x1340, kim_craig@Placerdome.com. See page 9 for abstract.

**Jan. 19
Thursday**

ELKO CHAPTER MEETING. Speaker: Alan Chamberlain. Title: "Elephant Hunting in Nevada". Western Folklife Center, Elko, NV. Drinks at 6:00 pm, talk at 7:00 pm. Contact: John Watson, Chapter President, for more info: 775/738-2062, jwatson@barrick.com. See page 10 for abstract.

**Jan. 20
Friday**

GSN MEMBERSHIP MEETING. Speaker: Mike Brady, Consulting Geologist, "Nevada Gold from 1993 to 2004: A Brief Look in the Rear View Mirror to See Where We Are Headed". Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks at 6 pm, dinner at 7 pm, talk at 8 pm. Contact Laura Ruud for reservations, 775/323-3500, gsn@mines.unr.edu.

**Jan. 26
Thursday**

SOUTHERN NEVADA CHAPTER MEETING. Speaker: Jerome J. McCartney, CCSN, Biological Sciences Department. Title: "Collecting Early Middle Cambrian Trilobites: Bright Angel Shale Formation (Pioche Shale), Frenchman Mountain, Nevada". Room 105, Lily Fong Geoscience Building, UNLV, Las Vegas, NV. Social half hour at 6:00 pm, presentation at 6:30 pm. Contact Robyn A. Howley, Chapter President, 702/895-5054, robynowley@yahoo.com for more information.

**Feb. 17
Friday**

GSN MEMBERSHIP MEETING. Speaker: Eric Saderholm, Newmont Mining Corp, "Phoenix Mine – New Life in an Old District".

**Mar. 17
Friday**

GSN MEMBERSHIP MEETING. Speaker: Bill Neal, Midway Gold Corporation, "Coarse Gold at Midway Gold's Spring Valley Deposit, Pershing Co., Nevada".

GSN Newsletter is published monthly except June and July

Geological Society of Nevada, PO Box 13375, Reno, NV 89507 USA, 775/323-3500, www.gsnv.org
Office location: Laxalt Mineral Research Center, Rm 266, UNR. Hours: Mon thru Fri, 9 am-12 noon

FROM THE PRESIDENT

Dieter Krewedl, *GSN President 2004-2006*

The intensive exploration activity underway in Nevada during 2005 has generated some exciting results and created renewed interest in gold exploration from investors. Very encouraging drill intercepts were reported by companies on properties located both on and off the major trends that demonstrate Nevada continues to be great place to explore. These properties include Atna Resources at Pinson, AuEx Venture at Pequop, Midway Gold at Spring Valley and Miranda's joint venture with Barrick on Horse

continued on page 2

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News and Announcements

FROM THE PRESIDENT *continued from page 1*

Mountain. No wonder Rob McEwen, previous President of Goldcorp, has taken a significant stake in at least five junior companies working in Nevada (US Gold, White Knight, Coral Gold, Tone Resources and Nevada Pacific). Mr. McEwen has the strong conviction, backed up by his cash, that Nevada is the best place to discover a major gold deposit.

The recent exploration successes coupled with the excitement of McEwen's investments and the higher gold price have everyone optimistic about an increase in exploration activity in Nevada during 2006. This optimistic outlook also prevailed during the annual AIPG exploration outlook dinner meeting in December where twelve managers representing major and junior companies presented their results from 2005 and plans for next year. More and more junior companies, funded by investors such as McEwen, are coming to Nevada given its exploration potential as the major companies continue to merge with each other.

The good state of the exploration business also helped to make the GSN Christmas dinner meeting a fun evening of socializing and fund raising. An audience of nearly 200 people came to hear Don Hudson discuss the history of the Comstock District in an interesting and humorous presentation. Thanks to Don for his presentation and Boart Longyear/Lang Exploratory Drilling for hosting the social hour.

The 5th annual raffle and silent auction was also held during the Christmas meeting and was again an enormous success. In total, we raised a record \$8,321 for the GSN Foundation. A big thank you goes to everyone donating items for the raffle and auction especially Round Mountain Gold Corporation, who donated two 16 gram gold specimens that were auctioned off to the highest bidders. See page 8 for a complete list of the donors. We appreciate all of the volunteers and especially D.D. LaPointe and Rachel Dolbier, who made this event so successful.

The GSN meetings scheduled during 2006 will highlight some of 2005 exploration successes mentioned previously. We will first begin with the January 20 meeting when Mike Brady will make some recommendations for future exploration based on his review of Nevada gold exploration from 1993 to 2004. We appreciate **ALS Chemex** for hosting the social hour.

Meanwhile, let's keep this excitement going with more exploration discoveries during 2006. This is a great time to be in the exploration business and to be in demand as an exploration geologist.

ACTIVITY UPDATE

Mike Brady, November 2005

www.activityupdate.com

NEVADA

Newcrest Resources Inc. announced that it acquired an option to earn a 70% interest in the Highland Property from Rio Fortuna Exploration Corp. for \$5,000,000 in exploration expenditures over 5 years and by completing a prefeasibility study.
Press Release: November 2

Gateway Gold Corp. announced that recent drill results at the Big Springs/Crusher Project include 13.7-16.7 meters @ 0.100 opt Au (GW05-168); 16.8-21.4 meters @ 0.157 opt Au (GW05-171); 24.4-27.4 meters @ 0.217 opt Au (GW05-178) and 129.5-140.2 meters @ 0.069 opt Au (GW05-184). (resource = 904,200 tons @ 0.288 opt Au measured+indicated)
M.J.: October 21

Bravo Venture Group Inc. announced that Placer Dome Inc. has now begun the permitting process for 32 drill sites at the Lone Mountain Project and that an initial pass of 6 drill holes will be completed once the permits are received.
Press Release: November 8

Placer Dome Inc. announced that it terminated its interest in the South Gold Bar and Three Bar properties of Bravo Venture Group Inc.
Press Release: November 8

Miranda Gold Corp. announced that recent drill results at the Redlich Project include 360-410 feet @ 0.012 opt Au (R-50); 435-545 feet @ 0.010 opt Au (R-52); 265-280 feet @ 0.017 opt Au (R-54); 135-345 feet @ 0.019 opt Au (R-56); 525-560 feet @ 0.010 opt Au (R-59); 200-230 feet @ 0.016 opt Au (R-60); 190-260 feet @ 0.023 opt Au (R-73) and 280-335 feet @ 0.046 opt Au (R-73).
Press Release: November 4

Miranda Gold Corp. announced that recent drill results at the Red Hill Project included only one hole that was completed to a depth of 940 feet (PRH0508) that intersected no significant gold.
Press Release: November 4

Aberdene Mines Ltd. announced that recent drill results at the New York Canyon/Longshot Ridge Project include 22-305 feet @ 0.77% Cu (05-7C); 135-260 feet @ 0.40% Cu (05-19); 50-235 feet @ 0.41% Cu (05-21C); 0-70 feet @ 0.29% Cu (05-24) and 0-80 feet @ 0.38% Cu (05-25). (resource = 16,100,000 tons @ 0.55% Cu)
Press Release: November 16

continued on page 4

***Thanks to Boart Longyear/Lang Exploratory Drilling
for hosting the December meeting.***

GSN January 20, 2006 Membership Meeting

Date: Friday, January 20, 2006

Time: Social-6:00, Dinner-7:00, Meeting-8:00

Reservations: 775/323-3500; fax 323-3599,
e-mail gsn@mines.unr.edu

Deadline: Reserve by 11 am Thursday, January 19th

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

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

Speaker/topic: Mike Brady, Consulting Geologist
See abstract below.

NEVADA GOLD FROM 1993 TO 2004: A BRIEF LOOK IN THE REAR VIEW MIRROR TO SEE WHERE WE ARE HEADED

Mike Brady, Consulting Geologist

The gold price declined to an average of \$271/ounce in 2001 but then rebounded to +\$400/ounce in 2004. Exploration spending is now on the increase and, as of 2004 it returned to levels previously recorded for 1998 to 1999.

This research examines both operating mines and exploration projects before and after the gold price collapse. A discovery cost/ounce was determined for each of the 12-years of the study period and a low discovery cost of \$13.85/ounce was determined for 1993 to 1996. A return to a relatively low discovery cost of \$18.01/ounce was also calculated for 2003 to 2004.

In general, the operating mines were able to replace reserves with lower grade resources but at a rate that was less than production. Also, the successful exploration projects were of insufficient size and grade to fill the shortfall. Nevada's yearly production therefore appears poised to continue with the trend established since 2000 of a declining yearly output.

The resulting picture of Nevada's gold industry is therefore thought to be mixed but hopeful if exploration spending continues to increase. Several historic exploration methods that did prove to be successful were identified and are offered for consideration. They include a good land position within a high priority area, management patience and the willingness to drill deeper holes if necessary. Finally, exploration is now progressing to the deeper and more subtle targets that require a greater focus. The basic data from previous work completed within the state needs to be assembled and displayed within a research facility that is open to the public in order to provide the guidance necessary to maintain that focus. A proposal to investigate the formation of such a research facility is therefore offered for consideration.

Mike graduated from the University of Nevada-Reno in 1971 with a B.S. degree in Geological Engineering. He has worked as a geologist at the Nevada Test Site, a senior geologist with Ranchers Exploration and Development, a District Geologist with Hecla Mining and an Exploration Manager with Rio Algom. He went into consulting in 1995 and has enjoyed a variety of assignments with a wide variety of mining companies. Mike formed Mining Activity Update in 1997 as a research service for the mining industry.



Happy New Year!

ACTIVITY UPDATE continued from page 2

Chapleau Resources Ltd.(25%) announced that recent drill results at the Indian Ranch Project include 426-435.1 meters @ 0.046 opt Au. Two other exploration holes were barren. *Press Release: November 8*

Gold Summit Corp. announced that recent drill results at the National Project include 46.7-48.2 meters @ 0.017 opt Au, 3.31 opt Ag (1); 67-68.5 meters @ 0.012 opt Au, 3.37 opt Ag (2) and 218-219.5 meters @ 0.012 opt Au, 4.86 opt Ag (2). *Press Release: November 22*

Midway Gold Corp. announced that recent drill results at the Black Prince Project include 45.7-48.8 meters @ 0.012 opt Au, 2.74 opt Ag (BP05-1); 44.2-45.7 meters @ 0.023 opt Au, 1.11 opt Ag (BP05-2); 33.5-39.6 meters @ 0.015 opt Au, 0.38 opt Ag (BP05-3); 50.3-53.3 meters @ 0.023 opt Au, 0.82 opt Ag (BP05-6); 64-67 meters @ 0.017 opt Au, 3.03 opt Ag (BP05-7) and 97.9-120.4 meters @ 0.034 opt Au, 2.07 opt Ag (BP05-8). *Press Release: November 14*

Placer Dome Inc. announced that it terminated its interest in the BMX Property of Nevada Pacific Gold Ltd. *Press Release: November 25*

AuEx Ventures Inc. announced that recent drill results at the Fireball Ridge Project include 85-90 feet @ 0.093 opt Au (N-1); 580-585 feet @ 0.011 opt Au (N-11); 405-420 feet @ 0.027 opt Au (N-17) and 415-420 feet @ 0.024 opt Au (N-18). *Press Release: October 21*

AuEx Ventures Inc. announced that recent drill results at the Pequop/Long Canyon Project include 125-190 feet @ 0.083 opt Au (LC-008); 65-135 feet @ 0.176 opt Au (LC-010); 35-55 feet @ 0.043 opt Au (LC-011); 0-70 feet @ 0.189 opt Au (LC-012); 50-100 feet @ 0.161 opt Au (LC-013) and 60-100 feet @ 0.126 opt Au (LC-014). *Press Release: October 25*

Alaska Gold Co. announced that it terminated its interest in the Thunder Mountain Property of AuEx Ventures Inc. due to discouraging exploration results. *Press Release: October 21*

Romarco Minerals Inc. announced that recent drill results at the Buckskin-National Project include 155-160 feet @ 0.027 opt Au (BN-18); 559-564 feet @ 0.066 opt Au (BN-19) and 589-644 feet @ 0.042 opt Au (BN-19). *Press Release: October 31*

White Knight Resources Ltd. announced that recent drill results at the Gold Pick Project include 310-355 feet @ 0.037 opt Au (GPQ-1); 380-402 feet @ 0.052 opt Au (GPQ-1); 450-515 feet @ 0.018 opt Au (GPQ-3); 570-585 feet @ 0.014 opt Au (GPQ-4); 515-545 feet @ 0.062 opt Au (GPQ-6); 355-435 feet @ 0.027 opt Au (GPQ-8) and 225-250 feet @ 0.143 opt Au (GPQ-9). *Press Release: November 25*

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GSN MEMBERS' PERSONAL NOTES & NEWS

Career Related Moves

▶ Jim Matlock has been appointed Vice President, Exploration for Canyon Resources. In the early 90's, Jim was District Geologist for Cyprus Amax Minerals in Reno. He then moved to Africa and now resides in Zurich, Switzerland.

Deaths

▶ **Ken Lovstrom** passed away on Saturday December 17 after suffering a heart attack a few days earlier. His enthusiasm and abilities as an explorationist and a person will be greatly missed. He leaves behind a loving family and many long time friends. His wife Jean can be contacted at (520) 797-7604, 1770 E. Ganymede Drive, Tucson, AZ 85737.

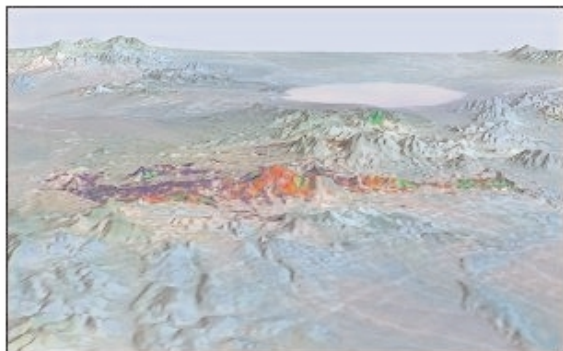
▶ **William P. Johnston**, Ph.D., P.E., died Dec. 2, 2005 in Reno, at the age of 85. He was born on Sept. 26, 1920, on a cattle ranch in Cuyama Valley, California.

Bill graduated from the University of Arizona in 1942 with a B.Sci degree in geology. He worked for the New Jersey Zinc Co. until entering the Navy in WWII where he served aboard the U.S.S. Norton Sound, a seaplane tender, in the western Pacific. After Navy service he worked for Harrison Schmidt, a renown consultant, examining breccia pipes near Prescott, Arizona. It was then he decided on a career as a consultant geologist, writing a doctoral thesis on the breccia pipes. Once finished with the thesis he sought out a university that would accept his thesis, an unusual approach at best. The University of Utah obliged, even employing him as an instructor.

Immediately upon receiving his doctoral degree he moved to Reno in 1955 to begin his consulting career. It was a courageous effort in that the value of Nevada's mineral production in 1955 was only \$113,121,000 (the first time production exceeded \$100 million), declining to \$85,947 in 1957 and not exceeding \$100 million again until 1966. It is presently several billions of dollars. The principal

(continued on page 5)

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PERSONAL NOTES AND NEWS *(continued from page 4)*

mining products in 1955, exclusive of construction related materials, were copper, tungsten, iron ore, mercury, lead, zinc and barite. It is interesting to note that no tungsten, iron ore, lead, zinc or mercury mines presently operate in Nevada. Bill's first major client was an iron mine in the Jackson Mountains. While being interviewed by the Board of Professional Registered Engineers, Lou Gordon, a Board member said, after approving Bill's application, "Well, young fellow, I don't think it will take you long to starve to death". Bill not only didn't starve but his professional abilities as well as his friendly yet professional manner assured him an almost constant stream of clients.

Bill was a founding member of GSN, a Legion of Honor member of SEM, and a fifty year member of the Society of Economic Geologists. Bill was, in every sense of the phrase, an "Economic Geologist". He will be missed by the many people in and out of the mineral industry whose lives he touched.

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 Laura at gsn@mines.unr.edu by the 21st of each month.

STATE OF NEVADA BOND POOL UPDATE

Alan Coyner,
Nevada Division of Minerals

The State of Nevada Bond Pool is now providing reclamation bonding for notice level activities on public land administered by the Bureau of Land Management. The Bond Pool, which is part of the Nevada Division of Minerals, has placed a statewide bond with the BLM and has bonds totaling \$182,794 in place covering 24 projects as of 12/31/05. Individual operator bonds are placed as riders to the Bond Pool's statewide bond. Because the Bond Pool statewide bond has been adjudicated by the BLM, the bonding process can be completed in a few hours. This can be very advantageous to an operator on a tight schedule. Operators are required to have a bond decision letter from the BLM, a cash deposit equal to 100% of the bond amount, and pay an annual premium equal to 3% of the bond amount. For more information about the State of Nevada Bond Pool, please contact Doug Driesner (775/684-7046) or Alan Coyner (775/684-7047) at the Nevada Division of Minerals, or visit the Division's website at minerals.state.nv.us.

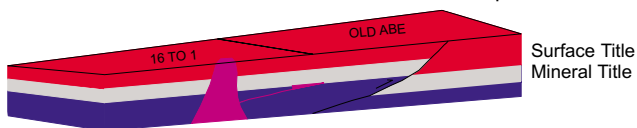
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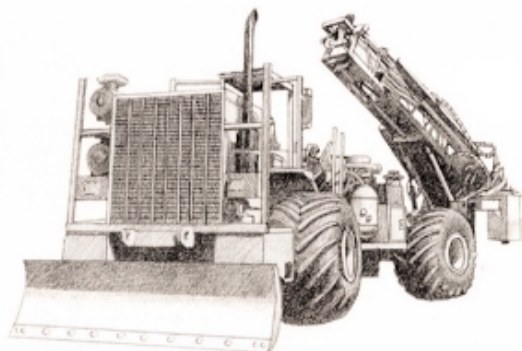
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GSN ROCK RAFFLE

D.D. LaPointe and Rachel Dolbier
GSN Education Committee co-chairs

The GSN Foundation offers a hearty thanks to all of you who made our 2005 Holiday Raffle and Silent & Live Auction the most successful event to date. By donating items, buying tickets and making bids, you helped to raise over \$8000 for the Foundation's education programs. We would especially like to express our gratitude to the following donors of raffle and auction items:

Opal Adams and Rich DeLong

AgnicoEagle (USA) Limited

AuEx Ventures

Baroid Industrial Drilling Products

Boart Longyear Co.

C&M Consultants

Tom Callicrate, Mountain Gold

Jon Carpenter

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Of course, this event doesn't happen by itself! The following individuals put in lots of time and energy to organize items, sell tickets, and run the raffle and silent auction: Ruth Buffa, Ruth Carraher, Ann Carpenter, Steve Carroll, Mario Desilets, Greg Ferdock, Greg French, Joe Kizis, Paul Muto, Ena Rhoden, Laura Ruud, Mike Visher, and Tracy Visher. On behalf of the GSN Foundation, we thank you!

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Northern Nevada Gold

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Jon Price

Nevada Bureau of Mines & Geology

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Scott Werschky & Alan Day, Miners Lunchbox

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WINNEMUCCA CHAPTER JANUARY 11TH MEETING

UPDATE ON ATNA'S PINSON UNDERGROUND PROJECT, NEVADA

William Stanley, Atna Resources

The Pinson Project is located in Nevada, one of the world's premier gold mining regions with annual production of over 7.5 million ounces. The vast majority of gold endowment and production occurs in Northern Nevada, along the four major Sediment-hosted gold belts, (Carlin, Battle Mountain, Getchell, and Independence) and significant additional production from epithermal volcanic-hosted deposits of the Northern Nevada Rift and Walker Lane Volcanic provinces. Current gold reserves are approximately 64 million ounces and increasing rapidly with the discoveries of new gold deposits such as the Cortez Hills discovery (>10 million contained ounces gold). The Pinson Mine project represents another example of new discovery potential in a prolific gold region.

The Pinson Mine Project is situated within the Getchell Gold Belt (a 30 million ounce gold district) approximately 15 kilometers southwest of Newmont's Twin Creek Mine complex (786,313 ounces of gold production in 2002) and 8 kilometers south of Placer Dome's Getchell/Turquoise Ridge Mine Complex (2.69 million ounces of proven and probable gold reserves & 1.51 million ounces gold measured and indicated mineral resources, 2002). The Project includes over 13,000 acres of private fee lands and federal lode mining claims. Gold mineralization at the project is associated with elevated levels of mercury, arsenic, and antimony and may be characterized as a Carlin-type gold system. Past mining of oxidized ores from the Pinson property by Barrick Gold and earlier operators produced over 985,000 ounces of gold prior to the closure of the mine in late-1999 from the Ordovician Comus calcareous siltstones and shales.

Modern exploration began in the early-1970s at Pinson and led to rapid discoveries by John Livermore and Peter Galli of the Cordex Syndicate. Five open pits ore bodies were outlined between 1970 and 1985, including the A, B, C, CX, and Mag deposits. Gold production came from decalcified, locally silicified and/or argillized, fine-grained, limy sedimentary rocks of the Ordovician age, Comus Formation - the preferred host unit for the major deposits in the district. Mineralization at Pinson is focused along and adjacent to the range bounding Getchell Fault zone, a major ore control at the Getchell Mine.

Between 1997 and 2003, Pinson Mining (Barrick and Homestake) drilled over 200 diamond and rotary drill holes (>70,000 m) on the property exploring the extensions of mineralization exposed at the bottom of the mine's several open pits. This work resulted in a number of encouraging high-grade gold intercepts in several target areas where Atna has focused its exploration and development efforts. Atna's initial exploration efforts commenced in August 2005 and included over 9,000 meters of rotary and diamond core

drilling establishing a 43-101 resources which contains a measured and indicated resource of 500,000 ounces gold and an additional 1.3 million ounce gold inferred resources. Atna's work concentrated on two areas of known mineralization, the CX Zone that plunges beneath the CX, C, and B pits and the Range Front Zone that is the southern extension of the Getchell Fault zone. Atna's phase two program, currently underway to convert a portion of the resource to reserve status, has included 800 meters of underground access drifting and underground drill platform establishment and an additional 7,500 meters of surface rotary, surface diamond, and underground diamond drilling. One of the most significant developments at the project during 2005 was the discovery of the Ogee Zone during drifting. Channel samples in the adit returned a weighted average of 23.7 grams/tonne across a true width of 10.5 meters. Follow-up drilling was performed along a spiral decline into the Ogee Zone and the first hole cut 45 meters grading 33.3 grams/tonne gold. From the current geologic understanding of the zone, the zone may have a strike potential of over 150 meters and down-dip potential of over 300 meters. Atna has expanded its Phase II work program at the project to evaluate this new discovery in addition to the development drilling campaign focused on the Range Front mineral resources.

UPCOMING EVENTS

Jan 3 – Arizona Geological Society Monthly Meeting – Pete DeCelles, University of Arizona. Topic: Tectonic evolution of the Lhasa Terrane, Central Tibet-Implications for Growth of the Tibetan Plateau. InnSuites Hotel, 475 N. Granada Ave, Tucson, AZ. For reservations, please call 520/663-5295 by the Friday before the meeting.

Jan 5 – Nevada Petroleum Society – Stephen Testa, Executive Officer, California State Mining and Geology Board – “A Brief History of Petroleum in California.” Austin's Restaurant, 7671 South Virginia Street in Reno, NV. Cocktails at 6:30 p.m. Dinner is served at 7:00. The talk immediately follows dinner, 7:45 or 8:00 p.m. Reservations are required; please contact Diane Phillips at trailsend@pyramid.net or 775/267-4663.

Jan 20 – MACKAY SEMINARS IN ECONOMIC GEOLOGY – Peter Vikre, USGS “Goldfield, Nevada”. Room 215, Mackay Science Building (on the SE side of the quad) University of NV, Reno campus, 3:00 p.m.

Jan 23-26 – Mineral Exploration Roundup, BC Yukon Chamber of Mines, Vancouver, BC, Canada. Phone: 604/689-5271 or visit www.chamberofmines.bc.ca.

Feb 7-9 – 108th National Western Mining Conference & Exhibition, Colorado Mining Association, Hyatt Regency Denver, Denver, CO. For information contact Stuart Sanderson @ 303/575-9199 or email: colomine@coloradomining.org, or visit www.coloradomining.org.

March 5-8 – PDAC 2006, International Convention, Trade Show & Investors Exchange, Toronto, ON, Canada. Phone: 416/362-1969 or visit www.pdac.ca.

March 26-29 – SME Annual Meeting and Exhibit and 7th ICARD, St. Louis, MO. Visit the Society of Mining & Metallurgical Engineering Website for more information – www.smenet.org.

ELKO CHAPTER JANUARY 19TH MEETING

ELEPHANT HUNTING IN NEVADA

Alan Chamberlain, President of Cedar Strat Corp.

The central Nevada thrust belt provides an opportunity to explore for giant oil and gas fields. These potential hydrocarbon fields could have an impact causing reducing geochemical systems associated with gold precipitation. However, Congressional pressure to prematurely pass Nevada Land Bills and mandate wilderness areas without proper geologic evaluation may preclude exploration of the most attractive targets in Nevada.

Thick, thermally mature, organic-rich, lacustrine oil shales deposited in the Mississippian Antler basin flood plains are the source beds for the fifty million barrels of oil already produced in Nevada. Thick karst zones below unconformities, stromatoporoid reefs, impact breccias, and sandstones make Nevada's Devonian reservoir rocks most favorable for giant accumulations. Late Cretaceous thrusting created the compressional features of the prolific Canadian foothills, Utah/Wyoming thrust belt and the central Nevada thrust belt.

Typically, oil seeps are associated with oil-bearing thrust belts worldwide. However, a blanket of Tertiary volcanics sealed in many of Nevada's oil seeps and concealed Nevada's thrust belt. Some of these seeps, including Grant Canyon, Blackburn, Trap Spring, and Eagle Springs oil fields, built up enough oil to become commercial. So far, all of Nevada's crude has been produced from these commercial oil seeps. Little effort has been expended to identify the source of these commercial oil seeps because of the lack of accurate geologic maps and models. In contrast to other states, the State of Nevada has never surveyed its mineral potential. The cursory geologic mapping by the federal government is not adequate for exploration purposes. Old depositional and deformational models, based on insufficient data, have been entrenched into the literature, thus impeding exploration. Finally, land-use policy based on inadequate data further impedes exploration in this frontier region.

A deeply entrenched notion that discouraged exploration investment is that the north-south structural grain of the eastern Great Basin was caused by Tertiary extension that could have compromised seals on older, compressional structures. An example of an intact compressional feature is the Golden Gate fault fold 40 miles south-south-east of the prolific Grant Canyon field in east central Nevada. The Golden Gate fault fold is ten miles long and five miles wide and has more than five thousand feet of closure. It may have trapped billions of barrels of oil before it was breached by headward erosion of the Colorado River. New mapping reveals that no Tertiary extensional faults compromise the structure. Similar structures, along strike that have escaped erosion, likely contain billions of barrels of oil and trillions of cubic feet of gas. Oil seeping from these giant fields is probably the source for the commercial oil seep fields in Nevada. However, old opinion and theories

based on little or poor geologic mapping have obscured the true understanding of Nevada geology for at least five decades. As a result, past oil exploration efforts in Nevada based on old tectonic and depositional models have been disappointing.

Nevada may have tremendous mineral treasures to exploit if its lands remain accessible to exploration. However, restricting exploration in the Nevada portion of the Cordillera fault fold belt may be jeopardizing our national security. Declarations of federal wilderness areas and prohibition of all types of mineral exploration should be made only after an exhaustive survey of the mineral resources of each wilderness area and the area adjacent to it. Until such surveys are complete, the lands should be made available for oil, gas, and mineral exploration.

Alan K. Chamberlain received his BA and MS from Brigham Young University and his Ph. D. from Colorado School of Mines. While working on his Master's thesis on Mississippian strata in the Great Basin, he perfected the biogeochemical technique of detecting mineral deposits by assaying sagebrush. His dissertation, *Structural Geology and Devonian Stratigraphy of the Timpahute Range, Nevada*, provides a new exploration model that could lead to significant discoveries in this frontier region. He won the Best Poster of the National AAPG Convention and two prestigious Levorson Awards for his new Mississippian Antler Basin deposition model and new tectonic model of the Great Basin. After he worked for Exxon Minerals, Gulf, Marathon, and Placid Oil Companies, he became president of Cedar Strat Corp. in 1984.

Cedar Strat was organized at the request of several major oil companies to fill a need for exploration data for Great Basin exploration. Cedar Strat measured nearly a million feet of Paleozoic sections using a technique pioneered by Alan to generate surface gamma-ray logs that look like and correlate to well logs. Cedar Strat has used its stratigraphic data set to map stratigraphic sequences in nearly three hundred 7.5' quadrangles in Nevada. Constrained by well data, measured sections, and new gravity surveys and geologic maps, Cedar Strat has identified 36 structural plays similar to the pay area of the Wyoming/Utah thrust belt. See cedarstrat.com for more information.

2005 GSN SYMPOSIUM VOLUMES UPDATE

The GSN's 2005 "Window to the World" Symposium Proceedings volumes should be in the mail by the end of this month! If you were a full-paid registrant at our Symposium in May or you pre-purchased the Proceedings, you should be on the mailing list. If you have changed your address since the Symposium and have not given the new address to the GSN office then please send it right away so we can update the list. We don't want any volumes to go missing in the mail! This 2-volume, 1368-page set contains 91 technical papers and has over 250 pages of color figures scattered throughout. The cost has been set at \$155 plus \$15 shipping & handling. If you weren't able to attend the Symposium, now is the time to order your Proceedings! Orders can be sent to Laura Ruud at the GSN office. Email: gsn@mines.unr.edu, phone 775/323-3500 or fax 775/323-3599. GSN accepts Visa or MasterCard, checks or cash.

GSN 2005 SYMPOSIUM PROCEEDINGS AND FIELD TRIP GUIDEBOOKS

2005 Symposium Proceedings

		QTY	TOTAL
05-1	2005 Symposium Proceedings, Window to the World, 1,368 p. (262 color), \$155.00 CD included	_____	_____

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05FT01	Geology and Structural Controls of the Precious Metal Deposits of the Walker Lane & South-Central NV, (2005) \$45.00	_____	_____
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05FT04	Sediment-Hosted Gold Deposits of the Getchell District, NV, (2005) \$45.00	_____	_____
05FT05	Low Sulfidation Vein Systems in the Northern NV Rift, NV, (2005) \$45.00	_____	_____
05FT06	Geology & Mineralization of Sediment-Hosted Gold Deposits of the Southern Carlin Trend, NV, (2005) \$45.00	_____	_____
05FT07	Sediment-Hosted Gold Deposits of the north-central Eureka-Battle Mountain Trend, NV, (2005) \$45.00	_____	_____
05FT08	Sediment-Hosted Gold Deposits of the Independence Range, NV, (2005) \$45.00	_____	_____
05FT09	Porphyry Deposits of the Great Basin, (2005) \$45.00	_____	_____
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