

GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

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



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CALENDAR OF GSN EVENTS

- Jan. 1, 2015 Thursday** **SO. NEVADA CHAPTER—NO JANUARY MEETING (1st Thursday of the Month)**
Please plan to attend the next GSN Southern Nevada Chapter meeting on February 5, 2015 along with members of the GSN Board of Directors!
Please contact Josh Bonde for more information Joshua.bonde@unlv.edu.
- Jan. 14, 2015 Wednesday** **WINNEMUCCA CHAPTER MEETING (2nd Wednesday of the Month)**
The meeting will be held at the Martin Hotel, 94 W. Railroad St. Drinks at 6 pm, Appetizers at 6:30 pm, Talk at 7:00 pm. **Speaker: Karl Marlowe, Barrick Gold. Presentation will be on Geologists & token Engineers playing and sometimes working in the great outdoors of the Great Basin & Beyond. Food & Drinks Sponsored by: CGS MULE.** Please contact Pat Donovan at pat.donovan@newmont.com for more information. See page 7 for details.
- Jan. 15, 2015 Thursday** **ELKO CHAPTER MEETING (3rd Thursday of the Month)**
The meeting will be held at the Western Folklife Center, 501 Railroad St., Elko, NV. Refreshments & Appetizers at 6 pm, Talk at 7 pm. **Speaker & Topic: To be announced. Food & Drinks Sponsored by: TonaTec Exploration, LLC.** Please contact Jon Powell at jon.powell@newmont.com for more information. See page 7 for details.
- Jan. 16, 2015 Friday** **GSN Regular Membership Meeting (3rd Friday of the Month)**
The GSN's monthly meeting & dinner will be held at the Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Drinks at 6 pm, Dinner at 7 pm, Talk at 8 pm. **Speaker: Paul Hohbach, Coeur Mining. Title: "Major Silver Districts of the Western United States". Drinks Co-Sponsored by Falcon Drilling Inc. and Harris Exploration Drilling & Associates Inc.** Please make dinner reservations with Laura Ruud at the GSN Office, 775-323-3500 or gsn@gsnv.org. Dinner cost: \$25 each. Details and abstract on page 3.

The Membership Drive for fiscal year 2015 has come to an end! If you have a friend or colleague who forgot to renew their membership for the current FY 2015, please let them know that they can rejoin the GSN at anytime throughout the year!



G.S.N. JANUARY 2015 MEETING CO-SPONSORS

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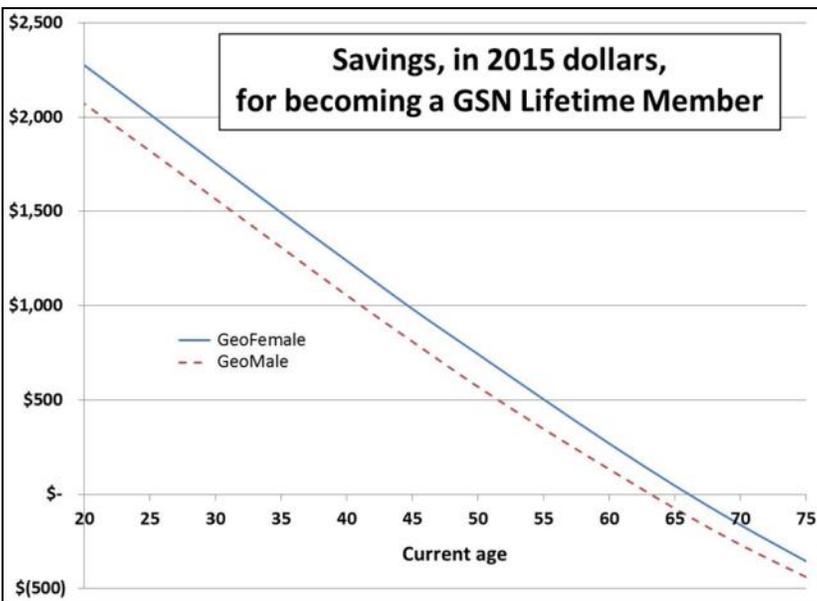
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FROM THE PRESIDENT, JANUARY 2015
“A NEW YEAR OF PROSPERITY”
Jon Price, G.S.N. President 2014-2015

Happy New Year! May 2015 be a year of prosperity for all GSN members and their families and friends! Speaking of May 2015, the GSN Symposium is coming this May. You can sign up already online to secure your spot for the fantastic lineup of talks, field trips, and short courses. The Symposium is one of the main activities of GSN, organized with the help of dozens of volunteers. As there are still opportunities to volunteer, please contact Molly Hunsaker, mollymhunsaker@aol.com, if you would like to help with registration, selling GSN publications at our booth, or other duties.

Thanks to the 300+ who came to the GSN meeting on December 17th. The talk by George Davis was superb. The GSN Foundation, thanks to the generous donations of prize specimens, gift boxes, homemade chocolates and other fine foods, company-logo gear, books, artwork, and other items of prime interests to geos and their families, netted over \$14,000 in the raffle, silent auction, and live auction. This helps the Foundation support K-12 students on field trips to appreciate geology, Nevada college students' studying field geology, and other worthy geo-efforts.

To help encourage members to sign up for GSN Lifetime Membership (only \$1,250 for the period starting June 1, 2015), we'll be awarding some unique prizes during the April meeting to the oldest and youngest GSN members who sign up. The old folks need to be over 64 to win, as there is already one Lifetime Member at that fine age. Here's a summary of some important statistics that should help you decide to sign up. According to the Social Security Administration, <http://www.ssa.gov/planners/lifeexpectancy.htm>, about 25% of 65-year olds today will live past 90, and 10% will live past 95. The chart shows savings that you would have, in 2015 dollars, if you sign up this year for GSN Lifetime Membership, assuming the average life expectancy reported by the go'ment and figuring geos live 5% longer than the general public. For example, a 40-year-old female geo would be expected to save \$1,239 if she signed up for GSN Lifetime Membership this year, and her male counterpart would save \$1,055. It seems like a no-brainer for anyone under 65 or so. For older GSN members, you might want to consider it a bet – if you live longer than the actuarial tables suggest, both you and GSN win. If you don't, GSN wins anyway, because the funds are invested in perpetuity, and your small loss in the actuarial chart is a modest donation to a great cause. So, please sign up now!



Upcoming GSN Fridays include:

- January 16** - Paul Hohbach, Coeur, on *Major Silver Deposits of the Western U.S.*
- February 20** – Alan Koenig, USGS, Denver – *Where the Trace Elements in Ore Deposits Live - Applications of a New Elemental Analysis Technique*
- March 20** –UNR-Department of Geological Sciences and Engineering Faculty – A Sampling of Geoscience Research at UNR
- April 17** – UNR student posters and 5-minute presentations (TBD).

The year will be capped off with the GSN 2015 Symposium, May 14-23, including short courses and field trips. Registration is open through the GSN website.

A BIG THANK-YOU to PERSHING GOLD for Hosting the GSN's DECEMBER 17th CHRISTMAS MEETING!

GSN JANUARY 16, 2015 Membership Meeting

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

Please e-mail gsn@gsnv.org or call 775-323-3500 by 4 p.m. on WEDNESDAY, JANUARY 14TH.

Social Hour begins @ 6:00 pm; Dinner @ 7:00 pm; Speaker @ 8:00 pm

Location: Reno Elks Lodge, 597 Kumle Lane, Reno, Nevada (off of Virginia, across from the Convention Center)

\$25.00 per person.



Major Silver Districts of the Western United States

Paul Hohbach

Director of Exploration

Coeur Mining, Inc.

This talk will discuss many aspects of important silver deposits of the western United States. How many in the audience know that the current, leading silver-producing state in the US is not the Silver State, Nevada, but it is Alaska! Of the top twenty-three current US silver producing mines, how many operations are primary silver producers?

We will look at major past-producing silver mines. There are some very surprising names on this list, such as Aspen, Colorado and Park City, Utah. Both mines now lie beneath permanent ski areas! Several silver districts have had powerful influences on the course of US history. Nevada's Comstock Lode powered Union Armies during the 1860s civil war. Silver Valley in Idaho helped to establish modern commerce in the Pacific Northwest in the 1870s, while nearly destroying the efforts of northern transcontinental railroad builders to complete their tracks.

Since this talk is given in Nevada, we have to know where the trends lie; many past and present silver-producing districts are aligned along silver "super-highways."

The geological characteristics of three current and past producing silver districts will be examined. The Coeur d'Alene District, Idaho, the Comstock Lode, Nevada and modern operations at Rochester, Nevada are discussed as examples of the great variety of geological settings of major silver deposits.

To conclude our discussion, if you were a silver-seeking geologist, how would you search for important new deposits? Where would you look? Are new deposits likely to be syngenetic, Proterozoic, epithermal, Tertiary or porphyry-related? Yes, they could be!

Paul Hohbach Biography

Paul Hohbach grew up in Beaver Falls, PA (ancient home of one Joe Namath) and later graduated from Kent State University of Ohio with a Bachelor of Science degree in geology. In his early geological career Paul worked the Wyoming uranium fields and the Nevada gold trends, as well as Jerritt Canyon. In 1980 Thomas Kuhl and Paul made important early, Carlin-trend gold discoveries at the Goldstrike Mine (including the Post Deposit with Keith Bettles), before there was Barrick. Searching for gold dust abroad, Paul worked the Western Australian gold fields, the North and South Islands of New Zealand, and the jungles of Papua New Guinea. His geological work at King of the Hills in the Western Australia outback led to development of three gold mines that yielded 1.3Moz. The KoH mine is currently back in UG production. More work followed back in Nevada's Carlin deposits, many well-known to our members; California's Mother Lodes; as well as assignments at important porphyry-copper mines at Grasberg, Bingham Canyon, Thompson Creek, and La Granja in Peru. The decade of 2010 closed with field assignments in East and West Africa and extensive work at Ocampo, Chihuahua; Guanajuato; and Sonora State, Mexico. Paul is currently the Director of Exploration for Coeur Mining Inc., a US-based silver-producing company since 1928. At Coeur, now located in Chicago, Paul specializes in structural and economic geology and places a strong emphasis on safety in the workplace.



“FACES OF GSN”

Dave Mathewson Feature

Co-written by Dave Mathewson and his daughter, Christina.



Christina...

I know someone who was told he would never walk, then spent his career hiking the mountains of Nevada and Alaska...someone who has known exactly who he is, and has known it since he was about 6 years old...a person so decisive he usually knows the solution while others are still thinking about it...a person addicted to the exploration hunt, he doesn't celebrate his finds, because he's already focused on the next prospect...a guy whose 50-year-career shows no signs of stopping...a person who has overcome unimaginable adversity. Each challenge, set back, and impossibility makes him work that much harder...someone you might call fervent, principled, persistent...and relentless. My Dad, Dave Mathewson.

When he was 5, Dave and his family moved to Cleveland (ask him about his love for the “Indians and the Brownies”). Dave and the neighborhood kids would run and play in the neighborhood streets. Little, determined, Dave would outrun and outplay everyone. Fastest kid on the block. August 24, 1950. The parents of athletic and energetic 6-year-old Dave received devastating news, “your son has *polio*” the doctor stated. At the time, this 5 letter word carried with it a reign of terror for parents across America. Dave was immediately hospitalized, they didn't know at the time that it wasn't contagious, so he was quarantined into a hospital ward comprised of other children who suffered from the same diagnosis. Over the next few months, two worried parents heard things like “he may never walk again” and “we just don't know enough about it”. Dave stayed in a crib, in a gymnasium-sized room with other kids too-old-for-cribs, for five months. He spent Christmas there and was only able to be visited by his parents, as siblings were not allowed in. He can still remember some of the other kids dying around him during his time in the ward. Now, even at such a young age, Dave had determination beyond his years. No one, not the nurse, not the doctor, not his own body could tell him he would not walk again. And he walked. After five months, he walked out of the hospital on crutches with leg braces. He had to use crutches for almost two years, and went through countless muscle transplants along the way, but never slowed down.

Dave...

Not too long after this ordeal, my parents began to detect my interest in exploration and all things geological. As a kid, almost every day I would sneak off into nearby woods to explore and bring home everything imaginable in my overall pockets, including interesting rocks, bugs, and snakes. I absolutely loved to be alone and discover new things. Starting at about age 7 or 8, I began getting geology books for Christmas and birthdays and studying them adamantly. Our family moved out West and we took several long cross-country road trips. Being persistent as always, I would talk Mom and Dad into visiting the all the geological sites along the way. Among other places, we went to the Petrified Forest, Painted Desert, Carlsbad Caverns, Yellowstone, Grand Canyon, and giving my parents little choice, we stopped at almost all the rock shops everywhere we went.

My sixth grade teacher in La Habra, California, Mrs. East, noticed that I had two strong interests...science and art. She would sneak mineral specimens to me from her husband, who was a local geologist. That same year, 1956, I built a Geiger counter for a science project; I was able to detect surface nuclear explosions set off in China 3-to-5 days after the radioactive blasts...very impactful.

At age 12, I made my first significant discovery. On a summer day, a friend and I rode our bikes into La Habra heights. We found and dug on a narrow gypsum stringer that opened up into a vug-filled with nice selenite crystals. With lots of work extracting, carefully cleaning off the gummy surface clays, washing, drying, and packaging, we took these specimens to a local rock shop to see if we could sell them. The rock shop liked them and we sold the crystal clusters to them for nickels and dimes. The rock shop then sold the crystals for dollars as local habitat specimens...the advantages of retailing!!!

My senior year of high school, our family moved to Massena, New York. I was on crutches from yet another muscle transplant operation at the time. Two nearby Universities had excellent geology programs: Queens in Canada and St. Lawrence University. I chose St. Lawrence. The SLU geology program required lots of chemistry, which I had always struggled with, so for a brief time, I became a math major just to avoid the chemistry courses! However, the department head of geology, Dr. Robert (Doc) Bloomer, noticed my passion for geology. He told me that I “reminded him of himself and that I was cut out to be a geologist.” I promptly changed my major to geology.

St. Lawrence was a tough, curve-based college. My GPA struggled and I was wearied of academics, so I decided to quit school and consider what else the world might have to offer. Through a contact to the Chief Geologist of Alcoa, I secured a job in Surinam, South America. I went for it and was soon exposed to bauxite mining around Paranam, then Moengo, and then exploration in the heart of the bush country near Moengo. In the bush camp, only a couple people spoke English, so out of necessity, I learned Taki-taki, the native language of Surinam. Surinam jungles are some of the harshest in the world with big and deadly snakes, and all kinds of hazardous critters and plant-life. I loved it!!! (cont. on page 5)

(Mathewson, cont. from pg. 4)

Some of my favorite foods were fish-head soup, sautéed sloth in hot peanut sauce, wild boar, the local fruits, and especially Parbo beer. I had a little difficulty with monkey meat, however. After a year of this incredible exploration experience, I returned to the academics of St. Lawrence with renewed vigor and success.



Dave (20) with machete at Surinam jungle camp. - 1964

Considering graduate schools, one of my geology professors encouraged me to attend his alma mater, the University of Indiana. I evaluated it by looking at a wall-scale geologic map of the United States. There were only two formations at that scale in Indiana. Upon further examination of the map, I was attracted to an area of diverse and complex geology of northern Idaho; so I went to the University of Idaho in Moscow, Idaho for my MSc in Geology. After reviewing the U of I major professor candidates, I settled on Dr. Rolland R. Reid, a notable and rigorous structural geologist. My Master's thesis was "Structural Analysis of the Osborne Fault, Coeur d'Alene Mining District, Idaho." My first job post-graduation was with Asarco in the Galena, Page, and Coeur mines as an underground geologist. I was hired to go to Peru, but never made it because of the Peruvian nationalization that occurred in early 1969. Instead, I transferred to Asarco's Denver uranium exploration group, and in 1970, joined the newly created Norandex Inc. exploration group based in Spokane, Washington.

In 1973, I left Norandex and joined forces with a Greek-born, Canadian prospector working in northeastern Washington. I found that to be fun, and challenging, but not an easy way to make a living. During this downturn in the mining business, I went back to school to learn "everything I ever wanted to know about mineral deposits" at New Mexico Tech in Socorro, NM. I had the privilege of studying and working under geochemist, Dr. Richard Beane, who was an exceptional teacher. I completed almost everything for a Ph.D., but again got antsy, so in 1977 I took off with my new family to Alaska with Union Carbide. Alaska was fantastic. I couldn't believe having a helicopter at my disposal to go almost anywhere I wished to look for mineral deposits. I loved the Igipak, Arregetch, and Noatak in the western Brooks Range, thoroughly enjoyed the Chicken-Eagle region, and even greatly enjoyed the Kuskokwim region in spite of a tragic plane crash and the at times miserable, almost-intolerable, black gnats. As a result of the unfortunate, egregious, mindless, and unnecessary land withdrawals by the Feds, Carbide shut down their Anchorage office and I transferred to Nevada. I left the declining Union Carbide group and went to work for Sergio Pastor with Seremin, a subsidiary of BRGM of France, then after those doors closed, Mother Lode Gold Mines in California. I came to realize that Californians don't understand, don't support, and don't want mines in their State. Back to Nevada, I joined Tom Nimsic's Belmont Resources in a noble attempt to revitalize the, appropriately named, Wonder Silver District. (cont. on page 6)



Dave in the Brooks Range, Alaska - 1978

(Mathewson, cont. from pg. 5)

The exploration dynamics, or perhaps I should say lack of exploration dynamics, of big mining companies has almost always left me uninterested in working for such companies. In early 1984, I founded and ran a company called Athena Gold that acquired and explored the Talapoosa prospect. We discovered the oxide Bear Creek Gold Zone. There was limited funding, and unpaid, I could not support my new family.

Late in 1984, I interviewed at a company that contacted me via a headhunter. I met my prospective exploration manager for the first time. Among many questions I was asked was “what I thought was the primary reason most companies fail in exploration?” There was my opening to strongly express “that primarily poor management leads to failure!” I was certain that I had verbally opened my mouth too wide and put my foot in it... normal for me, and that I had destroyed my shot at the job. As I was walking into my house, the phone was ringing, the headhunter effusively asked “what I had said to the interviewer/manager for him to want to immediately hire me?!” That company was Atlas Corp. and that manager was Dave Shaddrick. Atlas was a very successful company under Dave’s management. To this day, I believe strongly that successful exploration is a bottom-up process, and the primary function of management is to support the boots-on-the-ground-explorers and provide them the necessary resources.

In early 1989, I went the way of so many in Richard (Dick) Weaver’s Atlas. I joined Newmont’s Elko-based, generative exploration team working with Bruce Harvey and Bob Cuffney. I left Newmont in the fall, 1990, partly for the reason that is problematic to big companies, and for personal reasons. Bruce Harvey told me that he “was determined to change the exploration culture of Newmont”... and he did! I rejoined Newmont in January 1992, worked with the very successful Carlin Trend team until 1995, then managed the Great Basin Genex team and later the Carlin Trend exploration team until early “retirement” in 2001.

Christina...

What most of you may not know, is that for a short time starting in late 1990 my Dad gave up exploration altogether. When he was going through a custody battle for me, he was advised by his lawyer that he would need a seemingly stable, 9-to-5 type job. Without hesitation, he decided to become a high school Chemistry teacher to appease the courts. *Chemistry!* The same topic that nearly kept him from studying geology to begin with! He taught for a short time at Hug High School in Reno, and once the custody battle was over, he promptly went back to his exploration career.

Dave...

Upon “being retired in 2001” I concluded that my two favorite functions of the business were staking claims and drilling. Within this business down-turn, there was opportunity. The always entrepreneurial Dave Knight and I formed a partnership called KM Exploration and out of our pockets, we proceeded to stake and lease everything we knew about and considered prospective, about 15 prospects. The exploration business came back and we found homes for all the properties, about half of them in a Vancouver-based company we founded, Tone Resources, later taken over by McEwen’s US Gold. In 2009, after two junior company mismatches, I helped found Gold Standard Ventures Corp and managed the exploration program until mid-2014. Gold Standard acquired the Railroad project on the Carlin Trend, and three other district-scale projects in Nevada. In the Railroad program, we applied the same geological concepts and geophysical methods that I helped formulate and develop, and that worked to discover the Northwest Rain, Tess, Saddle, South Emigrant, and BJ Hill gold deposits in Newmont’s Rain District located just to the north. In 2010, we discovered the blind, large, North Bullion gold deposit at Railroad. Exploration has provided me a helluva career. Yes, the exploration business is cyclic and, at times, very rough on personal and family life. Yes, there are risks, demands, and challenges, but oh my!!!...the rewards!!!! Had I had the opportunity to pre-design this career of a lifetime, in the absolutely perfect form and fashion that was subsequently unveiled to me, I could not, and would not have done it any differently!!!



On his new field “toy” - 2014

GSN WINNEMUCCA CHAPTER MEETING

WEDNESDAY, JANUARY 14, 2015

Location: The MARTIN HOTEL, WINNEMUCCA, NV

Time: Drinks @ 6:00 p.m.; Appetizers @ 6:30 p.m.

Talk @ 7:00 p.m.

Speaker: Karl Marlowe, Barrick Gold

Belated Holiday party presentation on Geologists & token Engineers playing and sometimes working in the great outdoors of the Great Basin & Beyond

Food and Drinks Sponsored by: **CGS MULE**



GSN ELKO CHAPTER MEETING

THURSDAY, JANUARY 15, 2015

Location: The WESTERN FOLKLIFE CENTER, 501 Railroad St., Elko, NV

Time: Refreshments/Appetizers @ 6:00 p.m., Talk @ 7:00 p.m.

Speaker and Topic: To Be Announced

Food and Drinks Sponsored by: TonaTec Exploration, LLC



THANK YOU TO THE ELKO CHAPTER
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MAJOR

Drilling America, Inc.

The GSN Elko Chapter Officers would sincerely like to thank all of those companies and individuals who donated items for their Silent Auction Fundraiser held at the last meeting on December 18, 2014! Also, thank you to everyone who attended and placed bids on the items. With everyone's efforts, the Chapter was able to raise almost \$2,500 for their scholarship fund. If you know a student from Elko who is planning to study geology, please contact Jon Powell to apply for a scholarship. jon.powell@newmont.com

The GSN Winnemucca Chapter Officers sincerely thank everyone who donated items for their Silent Auction Fundraiser held at their last meeting on December 10, 2014! From home canned goods to mineral specimens and field gear to an "antique" Eklund cooler full of beer, the GSN Members in Winnemucca had a wide variety of items to bid on! Thanks to everyone who attended and participated in the bidding. It was a successful and fun evening for all.

Thank you to all of these donors who provided items for the Foundation's Christmas Raffle & Silent Auction!! Special Thanks to David Emmons, Alan Coyner, the W.M. Keck Museum and Comstock Mining for providing specimens for the LIVE AUCTION!!

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W. M. Keck Museum Open House Saturday, February 7th 12:00 - 4:00 PM

Garrett Barmore, W.M. Keck Museum curator, is inviting all GSN members to visit the Keck Museum at the University of Nevada, Reno for guided tours of the museum and a special behind the scenes tour of the [Mackay-Stanford Mineral Research Collection](#). The purpose of this open house is to reacquaint GSN members with the resources available to researchers at the Keck Museum.

When: Saturday, February 7th from 12:00 - 4:00 PM.

Where: W. M. Keck Earth Science & Mineral Engineering Museum, University of Nevada, Reno.

**For more information contact Garrett Barmore at 775-784-4528,
Email: gbarmore@unr.edu or visit the website: unr.edu/keck.**

The Mackay Stanford Ore Deposits Collection is a significant collection of more than ten thousand samples from ore deposits throughout the world donated by Stanford University to the University of Nevada, Reno. These samples will be used in teaching and research in economic geology, extractive metallurgy, and mining engineering at the Mackay School of Earth Sciences and Engineering, part of UNR's College of Science. The renamed Mackay-Stanford Ore Deposits Collection helps bolster Mackay's reputation as a leading institution in research on ore deposits and as a premier university for the education of professionals in mineral-resource fields. Global demand for mineral and energy resources has risen dramatically in recent years and has created high demand for professionals in industry, government, and academia.

Nevada Mineral Exploration Coalition

The Nevada Mineral Exploration Coalition hosted its 2nd Annual General Meeting on October 10th at the Atlantis Casino. Over 100 Nevada geologists and other interested parties attended the meeting. These included members of the press, several state legislators and Congressman Mark Amodei who gave an excellent Keynote Address. The meeting consisted of several panel discussion groups who updated attendees on several issues of importance to the Nevada exploration community including the current status of the industry, the outlook for new federal and state legislation affecting exploration and importantly, an update regarding potential sage grouse legislation. The NMEC wishes to thank all those who attended the meeting and as well, the numerous speakers who made the meeting so informative and successful. Lastly, but importantly, NMEC wishes to thank the numerous sponsors for the meeting whose financial support made the meeting possible.

In the coming months the Coalition will host a Nevada Room at both the Cordilleran Roundup in Vancouver (January) and the PDAC convention in Toronto (March). Watch for announcements. Good luck to everyone- we'll see you all again at the next event!

The Geological Society of Nevada

Again Wishes to Thank:



**For their Generous Sponsorship of
the GSN's Christmas Meeting held
on December 17, 2014!!**

G.S.N. LIFETIME MEMBERSHIP ENROLLMENT NOW AVAILABLE!

The G.S.N. Executive Committee and Board of Directors recently approved the availability to anyone to enroll as a lifetime GSN member! The cost is 25 times current dues of \$50 or \$1,250. Just think of never having to worry about renewing your dues again! There will be a prize for the oldest and youngest person to enroll. Please contact Laura Ruud by email gsn@gsnv.org for more information.

Thank you to our generous donors in December!

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Activity Update

Mike Brady, November 2014

www.activityupdate.com

NEVADA

The state announced that voters rejected a measure that would have removed a mining tax cap from the state's constitution. *Press Release:* November 8

Goldspike Exploration Inc. announced that recent drill results at the Lone Mountain Project include 114.3-204.22 meters @ 6.22% Zn, 1.34% Pb (LM14-01) and 108.2-185.93 meters @ 2.76% Zn, 0.29% Pb (LM14-02). *Press Release:* November 19

Gold Standard Ventures Corp. announced that recent drill results at the Pinion Project include 173.8-190.6 meters @ 0.62 gpt Au (P14-14); 82.3-115.8 meters @ 0.36 gpt Au (P14-15); 218.0-253.1 meters @ 0.78 gpt Au (P14-16) and 99.1-115.9 meters @ 0.22 gpt Au (P14-17). (resource = 20,840,000 tonnes @ 0.63 gpt Au indicated) *Press Release:* November 18

West Kirkland Mining Inc. announced that recent drill results at the Three Hills Project include 54.9-94.5 meters @ 1.36 gpt Au, 5.1 gpt Ag (MW14-01). (resource = 7,731,000 tonnes @ 0.61 gpt Au measured+indicated) *Press Release:* November 17

Scorpio Gold Corp.(70%) announced that recent drill results at the Mineral Ridge/NW Brodie Project include 39.62-41.15 meters @ 0.45 gpt Au (MR14-1155); 35.05-39.62 meters @ 0.89 gpt Au (MR14-1158); 27.43-28.96 meters @ 0.99 gpt Au (MR14-1162) and 18.29-21.34 meters @ 1.78 gpt Au (MR14-1163). (resource @ Mineral Ridge = 4,230,000 tonnes @ 1.47 gpt Au indicated) *Press Release:* November 24

Rye Patch Gold Corp. announced that recent drill results at the Lincoln Hill Project include 74.7-77.7 meters @ 0.02 gpt Au, 11.3 gpt Ag (LR-102); 25.9-38.1 meters @ 0.05 gpt Au, 13.8 gpt Ag (LR-105); 38.1-41.1 meters @ 0.13 gpt Au, 13.0 gpt Ag (LR-106) and 41.1-48.8 meters @ 0.18 gpt Au, 39.1 gpt Ag (LR-107). (resource = 3,847,000 tonnes @ 0.43 gpt Au, 12.2 gpt Ag measured) *Press Release:* November 24

Pershing Gold Corp. announced that recent drill results at the Relief Canyon/North Target Project include 41.13-208.64 meters @ 0.62 gpt Au (RC14-222); 10.19-195.83 meters @ 0.59 gpt Au (RC14-223); 0-43.68 meters @ 0.46 gpt Au (RC14-224) and 0-23.51 meters @ 0.24 gpt Au (RC14-225). (oxide resource = 24,270,000 tonnes @ 0.68 gpt Au measured+indicated) *Press Release:* October 29

Nevada Sunrise Gold Corp. announced that it acquired an option to purchase a 100% interest in the Roulette (was Grulla) Property from private interests for \$140,000 cash over 5 years. *Press Release:* November 17

Atherton Resources LLC. announced that it acquired an option to earn a 65% interest in the Golden Arrow Property from Nevada Sunrise Gold Corp. for \$1,600,000 cash and \$4,500,000 in exploration expenditures over 4 years. (resource = 11,065,000 tonnes @ 0.82 gpt Au, 11.3 gpt Ag measured+indicated) *Press Release:* November 25

NuLegacy Gold Corp. announced that recent drill results at the Iceberg Property include 53.0-59.1 meters @ 1.31 gpt Au (RHB-28); 94.0-106.1 meters @ 1.57 gpt Au (RHB-29) and 127.3-139.4 meters @ 3.16 gpt Au (RHB-30). *Press Release:* November 25

Corvus Gold Inc. announced that recent drill results at the North Bullfrog/Yellowjacket Project include 129.0-180.8 meters @ 0.4 gpt Au, 2.3 gpt Ag (NB14-403); 134.0-137.1 meters @ 3.8 gpt Au, 13.7 gpt Ag (NB14-404); 179.6-192.6 meters @ 2.3 gpt Au, 24.6 gpt Ag (NB14-405) and 198.7-224.6 meters @ 1.2 gpt Au, 3.3 gpt Ag (NB14-406). (resource @ Yellowjacket = 4,000,000 tonnes @ 0.97 gpt Au, 5.1 gpt Ag indicated) *Press Release:* November 20

Canamex Resources Corp. announced that recent drill results at the Bruner/Paymaster Project include 41.2-57.9 meters @ 9.94 gpt Au (B-1457); 42.7-55.8 meters @ 5.13 gpt Au (B-1458); 51.8-54.8 meters @ 1.1 gpt Au (B-1459) and 53.4-61.0 meters @ 9.98 gpt Au (B-1460). *Press Release:* November 17

Waterton Precious Metals Fund II announced that it acquired the Reward and Clover properties from Atna Resources Ltd. by purchasing \$10,000,000 of Atna shares. (resource @ Reward = 18,449,000 tonnes @ 0.65 gpt Au measured+indicated) *Press Release:* November 17

Max Resource Corp. announced that it terminated its interest in the Majuba Hill Property. *Press Release:* November 14

ROCK TALK

“Canada approves world's largest copper-gold project”

[Frik Els](#) | December 19, 2014. (Reprinted from Mining.com)

Canada's minister of the environment on Friday [gave the green light](#) to Seabridge Gold's KSM project in British Columbia, the world's largest undeveloped gold-copper project by reserves.

The joint harmonized federal and provincial environmental assessment process took nearly seven-years and KSM is only the second metal mine in five years to receive approval by Canada and BC.

Since 2006, Seabridge has spent more than \$176 million in exploration, engineering and environmental work to bring the project this far.

Seabridge Gold [plans](#) combined open-pit and underground gold copper silver and molybdenum mine in the Kerr, Sulphurets, and Mitchell Creek watersheds located approximately 65 kilometres northwest of Stewart, BC and roughly 35 km northeast of the Alaska border.

The deposit boasts 38.2 million ounces of gold, 9.9 billion pounds of copper, 191 million ounces of silver and 213 million pounds of molybdenum provable and probable reserves.

The mine is expected to process 130,000 tonnes per day of ore over an anticipated mine life of 52 years.

KSM forecasts 1,800 direct and 4,770 indirect jobs across Canada during the five-year construction period and 1,040 direct jobs annually while in production.

During construction, Seabridge will spend \$3.5 billion in British Columbia and \$6 billion in Canada. Over the life of the mine's operations, more than \$400 million in GDP will be produced for British Columbia and more than \$42 billion for Canada.

Seabridge Gold holds a 100% interest in several North American gold resource projects with its Courageous Lake gold project located in the Northwest Territories its principal asset outside KSM.



KSM Mitchell deposit looking Southeast



“Barrick to halt Lumwana mine in Zambia after tax hike”

[Cecilia Jamasmie](#) | December 18, 2014

Canada's Barrick Gold (NYSE:ABX)(TSX:ABX) [said Thursday](#) it will suspend operations at its Lumwana copper mine in Zambia, after the country increased this week mining royalties from 6% to 20%.

The world's largest gold producer said the new tax regime, expected to go into effect on Jan. 1, left the company “no choice” but to initiate the process of halting operations at its open pit mine.

“Despite the progress we have made to reduce costs and improve efficiency at the mine, the economics of an operation such as Lumwana cannot support a 20% gross royalty, particularly in the current copper price environment,” [said Barrick's co-President Kelvin Dushnisky](#).

Major job cuts at the mine, which employs about 4,000 people directly, are planned to begin in March, following the legally required notice period for putting the mine in care and maintenance, Barrick said.

The Toronto-based company also revealed it expects to record an impairment charge related to Lumwana, acquired when it bought Equinox Minerals Ltd. in 2011, in the fourth quarter of this year.



All operations at Lumwana, located in Zambia's Northwestern Province, should be fully cancelled by the second quarter of 2015, Barrick added.

The Southern Africa nation is one of the world's key copper producers and Barrick's decision to shut Lumwana makes the miner the first to react to Zambia's new royalty rates.

In the first nine months of this year, the mine produced 138 million pounds of copper at C3 fully allocated costs of \$2.98 per pound. The mine had 6.6 billion pounds of copper in reserves as of December 31, 2013.

Barrick had warned in October that it would consider suspending the mine if the Zambian government didn't change the proposed new tax system, as it would threaten the operation's viability.

OTHER UPCOMING EVENTS

Jan. 8, 2015—Nevada Petroleum & Geothermal Society Meeting. *Speaker: Dr. Wanda Taylor, Professor of Geoscience, UNLV.* Ramada Reno Hotel, 1000 E. 6th Street, Reno, NV. Cocktail Reception 6:30, Skyline Bar, 14th Floor. Dinner 7 pm, Talk at 8 pm. NPS Members \$20; Non-members \$23; Students—\$10. RSVP by January 6th with the following link: https://docs.google.com/forms/d/1D-K6FNfopL16sUcQZBQ7cfXbMDCYf_Swiux2cxaek68/viewform

Jan. 12, 2015—SME Northern Nevada Section. Happy Hour @ 6pm, Dinner @ 6:45 pm; Talk @ 7:30 pm. Circus-Circus Mandalay Room, Reno, Nevada. *Speaker: Tom Williams, Midway Gold Corp, Ely, Nevada.* Title: “**Start-Up Challenges at Midway Gold's Pan Mine, Eureka, Nevada**”. Members-\$25; Non-members \$30; Students free. Please make reservations by Wednesday, January 7th. RSVP to Brooke Miller at: NNevSME@gmail.com.

Jan. 18-19, 2015—Vancouver Resource Investment Conference will be held at the Vancouver Convention Centre. Visit their website for more information: <http://cambridgehouse.com/event/33/20th-anniversary-vancouver-resource-investment-conference-2015>

Jan. 26-29, 2015—Mineral Exploration Roundup will be held at the Vancouver Convention Centre East. For information or to register, go to the website: <http://www.amebc.ca/roundup-2015-home/about-roundup>.

Jan. 26-29, 2015—2015 Nevada Water Resource Association Annual Conference Week, Peppermill Resort Spa & Casino, 2707 So. Virginia St., Reno NV. Contact Tina Triplett @ 775-473-5473 or email: creativerno@charter.net. For more information or to register online visit their website: <http://www.nvwra.org/2015-annual-conference>.

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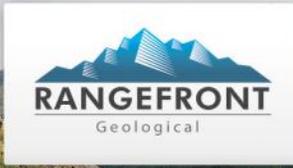
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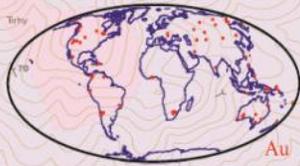
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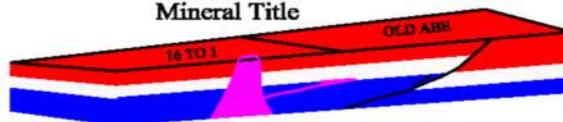
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