



GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512
(775) 323-3500 - Hours Tuesday -- Friday, 8:30 a.m. to 3 p.m. Monday by appointment.

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CALENDAR OF GSN EVENTS

Jan. 10, 2018 WINNEMUCCA CHAPTER MEMBERSHIP MEETING (2nd Wednesdays) WEDNESDAY

The meeting will be held at the Martin Hotel, 94 W. Railroad St., Winnemucca, NV. Refreshments/appetizers at 6 p.m. Talk at 7:00 pm. **Speaker and Topic: To Be Announced. Sponsor To Be Announced.** For more information please contact Chapter President, Matt Fithian @ Mattthew.Fithian@ssrmining.com.

Jan. 18, 2018 ELKO CHAPTER MEMBERSHIP MEETING (3rd Thursdays) THURSDAY

The monthly meeting will be held at the Western Folklife Center, 501 Railroad St., Elko, NV. Refreshments begin at 6 p.m. Talk begins at 7 p.m. **Speaker and Topic: To Be Announced. Sponsor To Be Announced.** For more info please contact Mark Travis at: mark.william.travis@gmail.com.

Jan. 19, 2018 GSN REGULAR MEMBERSHIP MEETING (3rd Fridays) FRIDAY

The monthly meeting will be held at the Reno Elks Lodge, 597 Kumle Lane, Reno, Nevada. Drinks @ 6 p.m., Dinner @ 7 p.m., Talk at 7:45 p.m. **Speaker & Topic: To Be Announced. Drinks Sponsored by: RYE PATCH GOLD CORP.** Cost for Dinner—\$25. GSN Students are free. Please make reservations for dinner with Laura Ruud, by emailing gsn@gsnv.org. 775-323-3500. Details on page 3.

Feb. 1, 2018 SO. NEVADA CHAPTER MEMBERSHIP MEETING (1st Thursdays) THURSDAY

The meeting will be held at the LV Natural History Museum, 900 N. Las Vegas Blvd. Pizza & beer at 5:30 pm, Talk at 6:00 pm. Speaker: Nick Dolan, MP Materials. Title: *Historic Metal Mining in Southern Clark County, Nevada*. Please contact Chapter President, Paul Dockweiler for information @ PDockweiler@Geosyntec.com

G.S.N. JANUARY SPONSOR!



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FROM THE PRESIDENT
J. Kelly Cluer, GSN President 2017-2018
JANUARY 2018



Dear GSN Members:

Happy New Year!

I want to thank all the fine folks who turned out at the GSN Christmas parties all across the state, applaud all the sponsors who made sure they were festive, offer sincere kudos to all the excellent speakers, and express gratitude for all the important fund raising participants - you'll read more about all these in this issue of the Newsletter.

It is surely a great start to a new year, looking back on recent metal price trends. It is unusual to see strength in pricing at year end, especially in December when normally the stock market is the main game. With gold entering 2018 above \$1300 per oz and copper above \$3 per lb Nevada miners and explorers (and a few key developers) have some good times to look forward to.



The fundamentals are good for healthier metal pricing as many economies are back in action and growth is inevitable (indeed, what else can sustain the new global political order?).

Relative to 12 months ago capital markets are warming to the sector, with the usual caveats and new distractions with “crypto” currencies, but I believe this will work itself out in the near-term. The sentiment, and evidence in deals/financings, is positive for the Nevada mineral sector. We now need to out compete peer regions for that trickle of dollars. We have excellent tax and regulatory systems in place (if you exclude the hopefully transient sage grouse political experiments); now all we need is another world-class discovery to bolster our reputation as the go-to region for gold exploration. So get out there and make that happen!

Cheering you on,

J. Kelly Cluer

GSN MONTHLY MEETING—JANUARY 19, 2018



SPEAKER: To Be Announced

TITLE: To Be Announced

Social Hour begins @ 6:00 pm; Dinner @ 7:00 pm; Talk @ 7:45 pm

Location: Reno Elks Lodge, 597 Kumle Lane, Reno NV (across from the Convention Center)

DINNER COST—\$25.00 per person.

Reservations due by 5:00 p.m. on WEDNESDAY, JANUARY 17, 2018

For dinner reservations, please e-mail gsn@gsnv.org or call 775-323-3500

(Please remember you will be invoiced \$25 if you do not cancel your reservation by Jan. 18th)



GSN EXEC COMMITTEE CHRISTMAS PARTY THANKS

By Steve Weiss

On behalf of the GSN Executive Committee, I would like to extend a most hearty Thank You to the sponsors of the GSN Christmas Party, Integra Resources and Kinross Gold Corp., as well as to Dr. Dave Boden for his engaging presentation on Lake Baikal. Dave's illustrative photographs and entertaining commentary conveyed the unique and gigantic nature of a portion of our planet that most of us have never seen first-hand. Dave's talk continued the GSN Christmas tradition of sharing expert knowledge spanning a broad range of geological science. Gazing south from the north shore of Lake Tahoe a few days ago, I pondered the astounding fact that Lake Baikal is 150 times larger. Thanks again to Dave, Integra Resources and Kinross Gold for a wonderful party!



The G.S.N. wishes to thank INTEGRA RESOURCES and KINROSS GOLD for sponsoring the GSN HOLIDAY PARTY!



“FACES OF GSN”

NEIL B. PRENN

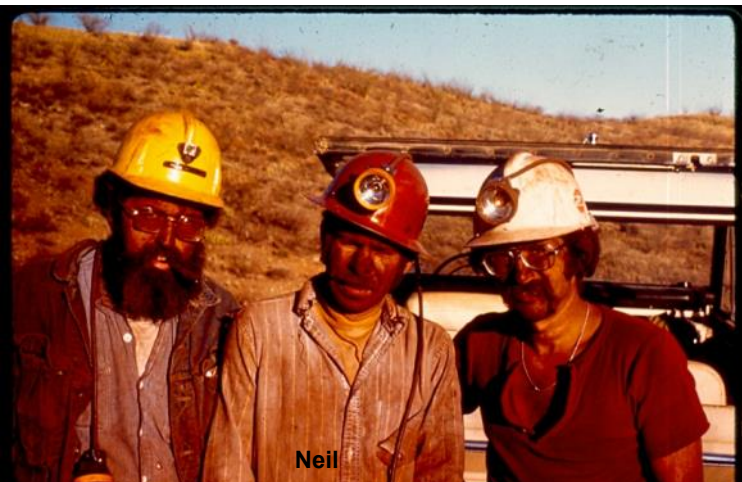
I was born in Manhattan, New York about 75 years ago. My parents moved from New York to California when I was 7, and I don't remember much of New York. My parents were both teachers, with my mother teaching English at high school (I'm sure she is not proud of my English) and my father was a physical education teacher at middle school. In California we settled in the small town of Cornell, California, population 10, northwest of the San Fernando Valley. My dad started a summer camp for boys soon after we moved there. One of my friends was the son of a movie producer that lived in the area and had one of the finer mineral collections in the world. I became interested in minerals and would ask my dad to drive me to mineral localities before I had a car.

By the time I was in high school I knew that I wanted to go to the Colorado School of Mines (CSM) to become a mining engineer, because of the fine minerals I had seen. When I graduated from Canoga Park High School, the cost of going to junior college in California was about \$6 per semester so I went to Pierce Junior College in Canoga Park and took mostly geology classes prior to going to Colorado. While at CSM, I worked two summers at US Borax in Boron, California. During the second summer I designed the next final pit for the mine, all done by hand with volumes and using planimeters and without computers except for clunky calculators. I graduated from CSM in the normal somewhat extended time period in January, 1967 with an Engineer of Mines degree with a minor in Geology.

I started working for Cyprus Mines Corporation in their headquarters office in downtown Los Angeles, where I would remain for the next 16 years. The first project I worked on was in Tuscarora, Nevada, where they had a drill program starting up to look for gold and silver. It was December, 1967, and one day an elderly resident had her pipes freeze, so we spent most of the morning thawing her pipes. I was in fairly good physical shape, but I was no match for the 65-year-old Tuscarora native, who owned the underlying claims, when we climbed over the hills of the property.

I went to Cyprus Island for about 3 weeks in 1969. Some of the mines on the Island that were being mined at the time had workings you could walk into that were several thousand years old. One of the people I met at Cyprus Island was a pilot who invited a plane full of people to go to Beirut, Lebanon. This was soon after Israel had bombed the airport and when we landed, the customs people told us to leave our passports with them. None of us were comfortable, but we proceeded to visit the city for the weekend and left without any incidents.

While I was at the Cyprus corporate office I wrote a computer program to complete an inverse distance grade model for a resource estimate. The hard part was that we had to calculate most of the model blocks by hand to check the program. We rented time on a large “super” computer to run the program. A simple model estimate took about 24 hours to run and it crashed the computer most of the time when it completed the model.



A mineral collecting trip to the Silver Bill Mine, near Gleeson, Arizona in about 1977 with friends Tom Hughes and Tony Potucek.

I worked out of the home office of Cyprus Mines until Cyprus decided I needed some practical experience and sent me to the Pima Mine near Tucson, Arizona in 1975. I alternated between operations and engineering at Pima, with my last position being Chief Engineer when the mine closed in 1977. Pima expanded twice while I was there. It may have been the first mine to have a dispatch shack and eventually had 50 large haul trucks operating each shift. Pima was fairly advanced with computers for the time, and had a seven-person department writing programs as requested from the mine staff. Arizona has fabulous mineral collecting opportunities and I took advantage of them often. Before leaving Pima, I managed (continued on pg. 5)

(N. Prenn, Faces of GSN, cont. from pg. 4)

an internal feasibility study for the Thompson Creek Molybdenum project in Idaho, where I spent two summers in Challis in the early seventies. The Thompson Creek mine started in 1983 and is not expected to be reclaimed until 2030.

From Pima, I was sent to Cyprus Uranium, whose office was in Boulder, Colorado, to work on the Tallahassee Creek uranium project near Canon City, Colorado. At the time, Wyoming Minerals had numerous contracts to sell uranium at \$8 per pound, but didn't have the material to deliver. They were buying uranium at spot prices that were five or six times their contract price! Wyoming Minerals purchased 50% of the Tallahassee Creek project which would have given them the uranium they needed to supply their contracts but the bottom then fell out of the uranium market and Cyprus and Wyoming Minerals never developed the mine. I met my future wife, Cami, at a uranium symposium in Grand Junction. I was moved back to the home office, which was now in Denver, and after a year or so, moved to the Northumberland project in central Nevada.

I invited Cami to visit me in Smoky Valley and we ended up getting engaged in Belmont. We were the last couple to get married in the Molly Brown House in Denver in January of 1982. I was the general manager for a few years at Northumberland and moved to Gardnerville, Nevada to work at the California Silver project near Markleeville, California. After three years, we were able to permit the project, but the gold price had dropped to a level where the project could not get financed. Cami and I started Mine Development Associates (MDA) in January, 1987, in the back offices of Kappes, Cassiday and Associates (KCA).

Later that year we moved out of the KCA offices and started to add staff. For me, MDA has been a wonderful experience with an exceptional staff that I've been proud to work with. We've had some phenomenal projects all over the world and have had the pleasure of working with outstanding people in the industry. 2018 will be MDA's 31st year and there's no end in sight.



GSN WINNEMUCCA CHAPTER MEETING

WEDNESDAY, JANUARY 10, 2018

Location: The MARTIN HOTEL, 94 Railroad St., Winnemucca, NV

**Time: 6:00 p.m.—Appetizers & Drinks
7:00 p.m.—Talk begins**

Speaker and Topic: To Be Announced

Food and Drinks Sponsored by:

To Be Announced



GSN ELKO CHAPTER MEETING

THURSDAY, JANUARY 18, 2018

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

Time: Appetizers & Drinks @ 6:00 p.m., Talk @ 7:00 p.m.

Speaker and Topic: To Be Announced

Food and Drinks Sponsored by:

To Be Announced

THE GSN HAS A NEW HONORARY MEMBER—VOTED IN AT THE HOLIDAY PARTY LAST MONTH!

The GSN is proud to announce that a new Honorary Member has been voted in! From Molly Hunsaker's nomination letter:

“Lance Taylor has been a source of continual and unconditional support to GSN. Lance is an amazing example of a lifelong GSN contributor. Not only has Lance contributed financially, he generously gives of his companies time and resources, in addition to his personal support and presence. His promotion and encouragement of GSN has contributed to the success of the GSN organization. ...”.

We heartily congratulate Lance on becoming an Honorary Member of the GSN and thank him for all he has done for the good of the Society over many years!



Lance I. Taylor

President, Geotemps, Inc. / Founder, Geopros, Inc.

Representing three generations of mining in Nevada, Lance Taylor has been an avid supporter of GSN for over 30 years, and most enthusiastically as the president and CEO of Geotemps, Inc. (2004), and as the founder and president of Geopros Inc. (2007) – together specializing in industrial recruitment and personnel services in the U.S. and abroad. Further, Lance Taylor is a former trustee and committee chair of the Northwest Mining Association (the American Exploration and Mining Association), and is currently an Executive Advisory Board Member of the Mackay School of Earth Science and Engineering, among other affiliations (along with Geotemps founder and GSN Honorary Membership recipient Thomas Lyle Taylor). Lance takes pride in the fact that Geotemps has supported a multitude of geotechnical professionals recruited or employed since 1986 – and in one case, three generations from a single family eventually placed on assignment.

Expanding on Geotemps' traditional level of support for GSN, Lance has sponsored monthly meetings, field trips, golf tournaments and BBQ's, while also supporting The GSN Foundation and related symposium personnel, and UNR/Mackay student memberships. In 2010 Lance was honored by *The GSN for Generous Support of Student Membership*. And since the early 2000's, Geotemps has subsidized necessary salary related employment costs of the GSN Executive Manager position. Lance greatly enjoys the company of what he considers a strong extended family of various GSN members, adopted brothers, sisters, and “good uncles” that he has either long ago worked for, with, or may have eventually recruited or employed. Having recognized (in both a personal and a professional capacity) “the unique and creative temperament of geologists” he has “humbly” traded the title “Recruiter” for “Geologist Whisperer” (in certain circles).

In support of the recruitment and retention of necessary geotechnical professionals in Nevada, Lance has established scholarships and directed donations to The University of Nevada, Reno, Mackay School of Earth Sciences and Engineering. He was honored as *Mackay Volunteer of The Year* in 1999 and in 2015 was honored (with Lyle Taylor) as a co-recipient of the award for *Distinguished Service to Mackay*. In support of industry sustainability, Lance has participated in organized efforts to inform state and federal leaders of the necessary benefits of the minerals industry (and of related industry personnel) with and through various legislative group communication efforts.

Lance (through Geotemps and Geopros) has provided repeated corporate sponsorship of The Nevada Mining Association Annual Safety Awards (as well as other such state awards), and has recently established *The Gordon C. Frisby Excellence in Safety Innovation Award* which seeks to “carry forward and inspire academic work and/or research, recognizing students at the Mackay School of Earth Sciences and Engineering whose academic work enhances and/or directly supports safe methods and practices within an industrial mining or geotechnical related environment.”



In 2016, Geotemps, Inc. was recognized on the floor of the United States Senate for its support of Nevada's minerals industry. Senator Dean Heller called upon fellow Senators and Nevadans to join him in commemorating Geotemps, Inc. 30th anniversary saying, “*Without the determination and persistence of [Geotemps] founders and entire staff, Nevada would not have experienced the excellent growth we see today... This institution has advanced Nevada's mining industry, and I am honored to recognize this important milestone.*” Heller's statement was entered into the U.S. congressional record during the second session of the 114th congress. Lance Taylor was presented with a transcript of Senator Heller's statement at the AEMA annual convention in Reno, Nevada.

Lance was presented with a gift at the GSN Holiday Party by GSN Board Member, Greg French.

GSN RECOGNIZES D.D. LAPOINTE AS HONORARY MEMBER—MAY 2017!

The GSN Members attending the May 2017 meeting in Reno had the chance to vote in favor of making D.D. LaPointe a GSN Honorary Member. Of course she was voted in unanimously. Below is the nomination letter from Elizabeth Zbinden. Congratulations D.D. and thank you for all of your hard work furthering earth science education in Nevada over the past 30+ years!

D.D. LaPointe - Reno, Nevada

From: Elizabeth Zbinden

Date: May 17, 2017

Subject: Nomination of D. D. LaPointe for Honorary Membership

D.D. LaPointe has been actively, generously, and effectively promoting the geology of Nevada for over 35 years, both in her career work as Research Geologist and Outreach Coordinator at the Nevada Bureau of Mines and Geology, and as a volunteer for GSN and numerous other geology organizations.

She opens the eyes of teachers and students, parents and kids to the wonders of geology and the Earth around them. Through the Bureau she has been the key source of information about earth sciences for countless teachers and students in Nevada. She co-designed and co-authored Earth Science Week field trips and field trip guides every year from the first one in 1999 until her retirement in 2014 (besides writing, editing, and contributing to numerous other Bureau publications). She serves on Education Committees for two organizations, the GSN Foundation and the Nevada Mining Association. For the Nevada Mining Association she organizes and teaches two workshops every year (one in the north, one in the south) for Nevada's teachers, to give them information, materials, and ideas for integrating earth science activities into classrooms. She uses some of those same activities at Reno's Earth Day celebration in Idlewild Park each year. She regularly assists with tours of the W.M. Keck Mineral Museum at the Mackay School of Earth Sciences and Engineering and keeps a supply of mineral specimens to give students at career fairs or science fairs to pique their interest with a souvenir to take home.

D. D. also is vital in generating and distributing funding for Earth Science education. For the GSN Foundation Education Committee she organizes and administers the K-12 Field Trip Grant program that awards funds for transportation so classes may visit points of geologic interest. For college-level grants and scholarships she solicits and reviews applicants not only for GSN Foundation but also for WAAIME. She energetically raises funds for Foundation programs. Most GSN members see her work every December, running the raffle and silent auction fundraiser at the holiday dinner meeting in Reno.

The Girl Scouts honored D.D. with their Women Changing Nevada award in the STEM (Science, Technology, Engineering, and Math) category; SME presented her with their Minerals Education Coalition Partnership award. GSN should add its recognition by presenting her with a GSN Honorary Membership.



Collecting ammonites for the Keck Museum. New York Canyon, NV



D.D. leading an Earth Science Week family field trip with assistance from Marilyn Miller.



D.D. was presented with an engraved hunting knife and leather holder at the GSN Holiday Party by GSN Membership Chair, Molly Hunsaker and President, Kelly Cluer.



GSN FOUNDATION

NEWS FROM THE GSN FOUNDATION

By Cami Prenn, GSN Foundation Chair

Happy New Year everyone! We had a spectacular finish to 2017 at the GSN Christmas party/raffle/auction! What incredible donors! What fabulous bidders and winners! What an incredible amount of money raised for the Foundation's programs! \$26,000! That was way beyond what we'd hoped and budgeted for and we thank every one of you!

The Foundation Board members all rallied to solicit donations and we had some really cool things. Consider all the local distilleries that were featured: Seven Troughs, The Depot, Frey Ranch, Verdi Local, not to mention the very popular national brands that were hot items! We had wines with "rock names", BIG bottles of wine, scotch, whiskey, and beers and plenty of snack baskets to go along with all that liquid. We had mineral specimens, gold nuggets, antiques, jewelry, original artwork, and home-canned garden goodies. There was a really amazing variety of prizes and I sincerely hope everyone went home feeling like a winner.

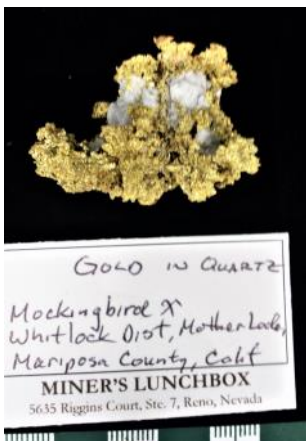
One of the highlights of the party is the live auction, emceed by Greg McNaughton French, sporting his Scottish kilt to highlight his heritage in a festive way – nice touch! Miner's Lunchbox was our very generous donor of three very different gold specimens; Round Mountain, Mockingbird Mine near Mariposa, CA and a Telluride specimen from Cripple Creek. Steve Neilsen of Envirotech also donated a Round Mountain gold specimen, Newmont donated a gold splatter, and Klondex Mines donated a polished slab with very visible gold from their Fire Creek Mine. Thank you all – the silent auction raised more than any other year!

We had some very dedicated volunteers that worked behind the scenes, starting out with DD LaPointe and Ruth Buffa. They led the way! The Executive Committee transported ALL the prizes to the Nugget; 4 pickup trucks and 1 Suburban. We also had help from Jon and Beth Price, Opal Adams, Nancy Barto, Mario Desilets, JoAnn Newbury, Lindsay Craig, Steve Green, Marilyn Miller, Mark Stock, Terri Garside, Ruth Carraher, Paul Muto, Bob Thomas, Pam Klessig, Brooke Mills, Patty Capistrant and Bob Felder. Thank you!

A full list of donors appears separately in this newsletter and I hope you take the time to thank these generous folks when you see them throughout the year. We couldn't do it without them and we couldn't do it without all of you who attended and took your chances to win.



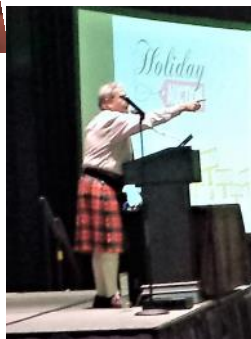
Fire Creek Mine gold ore slab donated by Klondex Mines Ltd.



Gold specimen donated by Scott Werschky of Miner's Lunchbox!



The crowd of 285 people enjoyed a very nice dinner a live gold auction and a great talk about Lake Baikal by Dave Boden.



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Greg French did a great job again as the auctioneer for the lively "Live Gold Auction".

Thank you to our generous DONORS in DECEMBER!

G.S.N. FOUNDATION

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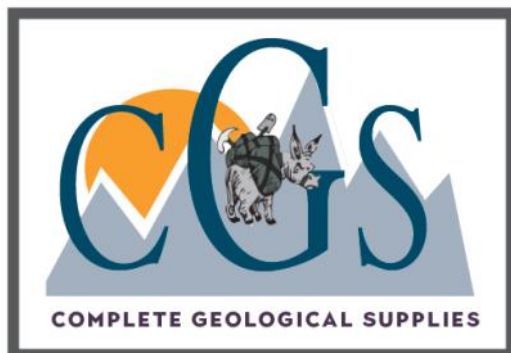
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Thank you to our generous sponsor for the Winnemucca Chapter Holiday Party

Thank you to our generous sponsors for the Elko Chapter Holiday Party



**BOART
LONGYEAR™**



Many thanks to all of our fabulous donors:

with special thanks to our top 2017 Auction and Raffle Donor,
Scott Werschky and Miner's Lunchbox



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WINNEMUCCA CHAPTER & ELKO CHAPTER HOLIDAY FUND-RAISERS ARE RECORD-BREAKING SUCCESSES!

By Laura Ruud

The **G.S.N. Winnemucca Chapter** held its annual Silent Auction Fund-Raiser at their Holiday party on Thursday, December 14, 2017 at the Martin Hotel in Winnemucca. For the third year in a row they had to set up more tables to make way for all of the donations that were received! One of the special items this year was a drill bit lamp that went to the highest bidder, Jon Carlson.. Of course the giant gift baskets, geo field supplies and the myriad of liquor items were also popular items on the tables. One of the highlights of the evening was the live auction of a Fire Creek Mine polished slab with beautiful gold veins crisscrossing it donated by Klondex Mines. Eric Ruud made a good auctioneer for the event and refereed the bidding war between Steve Neilsen and Kim Craig that Kim ultimately won (or Steve let him win?!). The evening was capped off by a wonderful talk by Joe Laravie about his SEG Field Trip adventures to Finland earlier this year. After the money was all counted it was clear that this was another record-breaking year with income well over \$3,000. Years past has been in the \$1,000 range. Sponsor **CGS MULE** provided the great food for the party and plenty of drinks to round out a very fun and successful evening!



Eric Ruud filling the role of auctioneer for the first time!



The Winnemucca crowd contemplating their bids during the auction.



Kim Craig was the high bidder and winner of the Fire Creek gold slab!



Steve Neilsen congratulating Kim on his win.

The **G.S.N. Elko Chapter** held its annual Silent Auction Fund-Raiser at their Holiday party on Saturday, December 16, 2017 at the Western Folklife Center in Elko. The Silent Auction tables were packed with great items to bid on. There were plenty of one-of-a-kind mineral specimens, lots of wine lots (thanks Charles Weakly!), field gear, framed artwork, a really cool knife and a home-made gold coin donated by Ken Snyder again this year. The item that garnered the top dollar this year was a Fire Creek Mine polished ore slab with beautiful gold veins crisscrossing it donated by Klondex Mines. If you note the repetition throughout the newsletter, Klondex donate three of these Fire Creek slabs to the GSN this year. The sponsors for the evening were **BOART LONGYEAR** and **LEGARZA EXPLORATION** who provided a lovely dinner, unlimited drinks and a band who kept our toes tapping until the end of the party! I don't have the final tally for the evening that 100% benefits the Elko Scholarship Fund, but I know I ran over \$5,400 in credit cards alone! Way to go Elko Chapter! (Check out the photos on page 13)



Elko Chapter Treasurer, Mark Bradley, Eric Ruud, volunteer and Elko President, Mark Travis (the one in the kilt!) wrapping up after a successful event.



John Marma checks out the really cool knife donated by Minex.



Steve Koehler, center examines the Fire Creek Mine gold slab that he ultimately won as the high bidder.



Elko Members enjoying drinks and socializing at the end of the evening.

Thank you to ALL of the people and companies who donated to the Winnemucca and Elko Chapter Silent Auctions. These would not be a success without you! Also thank you to all the Chapter officers who volunteer their precious time to keep the GSN Chapters vital, and growing organizations.

G.S.N. 2018 DIRECTORY PICK-UP PARTY

The **new GSN 2018 Membership Directories** will be available to pickup in Reno on **MONDAY, January 15, 2018** at the **Great Basin Brewing Company, RENO LOCATION, 5525 S. Virginia St., Reno**. Time will be from 4 p.m.—7 pm. You can help save GSN postage by picking your directory up and have a drink on our sponsor for the evening, **SRK CONSULTING!** A big thank you to the people at **SRK Consulting** for hosting this fun event for the 5th year in a row!



The 2018 Directories will also be available for pick-up at:

- ⇒ Mine Development Associates, 210 So. Rock Blvd., Reno from Jan. 15-19, 2018
- ⇒ the Winnemucca Chapter Meeting on Wednesday, January 10, 2018
- ⇒ the Elko Chapter Meeting on Thursday, January 18, 2018
- ⇒ the Membership Meeting in Reno on Friday, January 19, 2018
- ⇒ The GSN Office, 2175 Raggio Pkwy., until Jan. 19, 2018 (GSN is closed Jan 22-25)
- ⇒ For those who can't pick them up, they will be mailed out on January 29, 2018!

Activity Update

Mike Brady, November 2017
www.activityupdate.com

NEVADA

Walker River Resources Corp. announced that recent drill results at the Lapon Canyon Project include 15.2-21.3 meters @ 13.6 gpt Au (LC17-19). *Press Release:* November 8

Pure Energy Minerals Ltd. announced that it purchased a 100% interest in the Clayton NE Property from Nevada Sunrise Gold Corp.(30%) and Advantage Lithium Corp.(70%) for 7,000,000 shares. *Press Release:* November 8

Fiore Gold Ltd. announced that production at the Pan Mine during September totaled 404,700 mtons of ore, 374,000 mtons of waste and 1,602 ounces of gold. Mine operations at the site restarted in March 2017. (resource = 35,937,000 tonnes @ 0.44 gpt Au measured+indicated) *Press Release:* October 31

SSR Mining Inc. announced that two of its workers at the Marigold Mine were killed in a traffic accident. (reserve = 140,300,000 tonnes @ 0.45 gpt Au proven+probable) *Press Release:* November 1

Renaissance Gold Inc. announced that recent drill results at the Spruce East Project include 267-276 meters @ 0.31 gpt Au (SE17-04) and 163-166 meters @ 0.61 gpt Au (SE17-05). *Press Release:* October 26

Nevada Zinc Corp. announced that recent drill results at the Lone Mountain Project include 118.04-134.66 meters @ 12.79% Zn, 8.84% Pb (NLM17-01) and 226.62-244.92 meters @ 4.6% Zn, 0.1% Pb (NLM17-02). *Press Release:* November 20

Klondex Mines Ltd. announced that recent surface drill results at the Fire Creek/Zeus (was West Zone) Project include 4.3 meters @ 43.69 gpt

Au (FCC-0092) and 0.6 meters @ 69.43 gpt Au (FCC-0093). (reserve @ Fire Creek = 218,200 tonnes @ 44.74 gpt Au, 33.2 gpt Ag proven+probable) *Press Release:* November 15

Klondex Mines Ltd. announced that recent surface drill results at the Hollister/Hatter Graben Project include 0.9 meters @ 52.4 gpt Au (H17-01); 0.8 meters @ 29.7 gpt Au (H17-04) and 1.8 meters @ 40.5 gpt Au (H17-05). (resource @ Hollister = 389,600 tonnes @ 16.6 gpt Au, 86.9 gpt Ag measured+indicated) *Press Release:* November 20

Gold Standard Ventures Corp. announced that recent drill results at the Railroad/Dark Star Project include 106.7-118.9 meters @ 1.41 gpt Au (DS17-23); 120.4-128.0 meters @ 0.41 gpt Au (DS17-25); 16.7-64.0 meters @ 0.52 gpt Au (DS17-26) and 65.5-117.3 meters @ 0.76 gpt Au (DS17-27). (resource = 23n110,000 tonnes @ 0.51 gpt Au inferred) *Press Release:* November 7

Corvus Gold Inc. announced that based on recent drill results at the North Bullfrog Project, resources aggregate 34,972,000 tonnes @ 0.80 gpt Au, 4.9 gpt Ag measured+indicated and 5,908,000 tonnes @ 0.31 gpt Au, 0.7 gpt Ag inferred. (was 26,180,000 tonnes @ 0.82 gpt Au, 5.0 gpt Ag measured+indicated and 137,090,000 tonnes @ 0.21 gpt Au, 0.7 gpt Ag inferred) *Press Release:* October 31

Anova Metals Ltd. announced that recent drill results at the Big Springs/Beadles Creek Project include 114.3-118.9 meters @ 4.1 gpt Au (AWVBC17-08); 93-96 meters @ 4.3 gpt Au (AWVBC17-09) and 120.4-129.5 meters @ 4.7 gpt Au (AWVBC17-10). (resource @ Big Springs = 5,403,000 tonnes @ 2.50 gpt Au measured+indicated) *Press Release:* November 3

Groundbreaking Report: U.S. Reliant on China, Russia, Other Foreign Nations for Many Critical Minerals

U.S. 100 percent foreign-reliant on 20 minerals, Rare Earth minerals produced almost exclusively in China

Date: December 18, 2017

Contact: Interior_Press@ios.doi.gov

WASHINGTON – Today, the U.S. Department of the Interior and the U.S. Geological Survey released a report that detailed the extent to which the United States is fully, majorly, or partially dependent upon foreign competitors and even adversaries for our supply of "critical minerals." The report identified 23 of the minerals that are most-needed to sustain our national defense and economy and are used in manufacturing everything from batteries and computer chips to equipment used by our military. The report shows a troubling trend of foreign dependency.

"I commend the team of scientists at USGS for the extensive work put into the report, but the findings are shocking," **said U.S. Secretary of the Interior Ryan Zinke**. "The fact that previous administrations allowed the United States to become reliant on foreign nations, including our competitors and adversaries, for minerals that are so strategically important to our security and economy is deeply troubling. As both a former military commander and geologist, I know the very real national security risk of relying on foreign nations for what the military needs to keep our soldiers and our homeland safe."

The report found the United States is most reliant on China for critical minerals with at least 20 critical minerals being sourced exclusively in China. Russia, South Africa, Brazil and Canada also supply many of our minerals.

The mineral commodities highlighted in this book have been called critical or strategic owing to concerns about risk of supply interruption and the cost of such a disruption. Such critical mineral commodities include rare-earth elements, used in high-end electronics, and platinum-group elements, used in catalytic converters and petroleum refining.

"The best part of this report is that we can provide complete minerals information for the Nation for the first time in generations," **said Klaus Schulz, an editor and author of the volume**. "The USGS combines short- and medium-term data on the current global supply of minerals with research on the long-term potential of these minerals through our mineral-resource assessments. Despite current supply concerns, one thing we shouldn't lose sight of is that we will also need mineral commodities far into the future. We wanted to identify future needs too, so we included information to help plan for the sustainable development of each of these minerals."

This report updates another USGS report from 1973, which was published when many of the commodities that are covered in this new volume were only of minor importance. Today, advanced technologies have increased the demand for and production of mineral commodities for nearly all elements in the periodic table.

For instance, in the 1970s, rare-earth elements had few uses outside of some specialty fields, and were produced mostly in the United States. Today, rare-earth elements are integral to nearly all high-end electronics and are produced almost entirely in China.

According to the recently released USGS Mineral Commodity Summaries 2017, the United States was 100 percent net import reliant on 20 mineral commodities in 2016, including manganese, niobium, tantalum and several of the other mineral commodities covered in the new volume.

This number has risen dramatically over the past 60 years. For example, in 1954 the United States was 100 percent import reliant for the supply of only eight nonfuel mineral commodities and by 1984 for 11 commodities.

Since 1973, there has also been a significant increase in knowledge about geologic and environmental issues related to production and use. This report addresses the sustainable development of each mineral commodity in order that the current needs of the Nation can be met without limiting the ability of future generations to meet their needs.

For each mineral commodity, the authors address how the commodity is used, the location of identified resources and their distribution nationally and globally, the state of current geologic knowledge, potential for finding additional deposits, and geoenvironmental issues that may be related to the production and uses of these mineral commodities.

The volume, USGS Professional Paper 1802, is entitled "[Critical Mineral Resources in the United States—Economic and Environmental Geology and Prospects for Future Supply](#)." The USGS also regularly produces mineral information products, such as the yearly Mineral Commodity Summaries, the Minerals Yearbook, and mineral-resource assessments.

For more information on this book and mineral-resource science, please visit the [USGS Mineral Resources Program](#).

OTHER UPCOMING EVENTS

2 January 2018 Arizona Geological Society meeting, Speaker: Peter Ward, USGS Retired, presents “Bringing Peace to the Climate Wars”. 6 p.m. to 9 p.m. at the Sheraton, 5151 E Grant Rd. (& Rosemont), Tucson, AZ Click on the link for more info and online registration: <https://arizonageologicalsociety10.wildapricot.org/resources/Documents/Archived%20News%20Letters/2018/Arizona%20Geological%20Society%20January%202018%20Newsletter.pdf> Dinner closes on Dec 30th.

4 January 2018 Nevada Petroleum & Geothermal Society, Reno, Nevada monthly meeting. Cocktails at 6:30 PM, Dinner at 7:00 PM, Ramada Reno Hotel; 1000 East 6th St., Reno NV 89512. Speaker: To Be Announced. Topic: To Be Announced. Please make reservations by Tuesday, January 3, 2017 by using the following link: https://docs.google.com/forms/d/e/1FAIpQLScZfTL4uiKGOVUIxVW73KRHQEDj0i_5ny8Xm6YMugWVHxFOA/viewform

8 January 2018 DREGS (Denver Region Exploration Geologists), Speaker & Topic To Be Announced. Social 6 p.m., Presentation 7 p.m. at Berthoud Hall, Room 241, CO School of Mines, Golden. For more info. contact James Piper at geopros@q.com

8 January 2018 SME Northern Nevada Section Monthly Meeting. Circus-Circus Mandalay Room, Reno NV. Speaker and Topic To Be Announced. Happy Hour @ 6 pm, Dinner @ 7 pm. Please contact Sarah Lightner for more information at 775-746-7147 or NNEvSME@gmail.com

22-25, January 2018 AME Mineral Exploration Roundup, Vancouver, BC. Registration Information click here: <http://roundup.amebc.ca/attendees/registration-info/>. The GSN will be present in the NMEC’s “NEVADA ROOM”. Please stop by to say “hi” or to purchase some of our many GSN Publications! If there is a particular book you want, please let Laura Ruud know so we can make sure we have it with us. gsv@gsv.org

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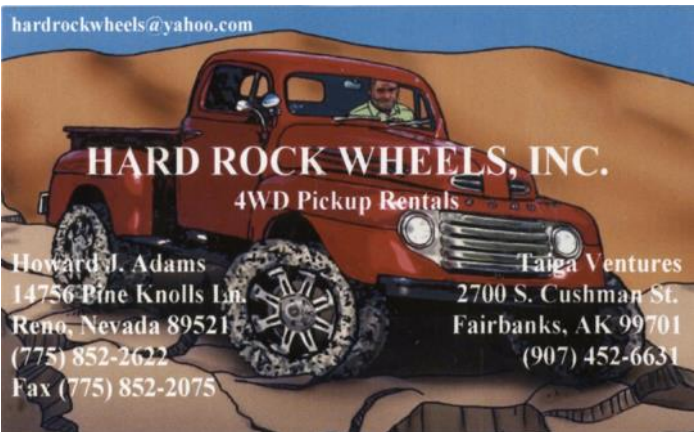
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