



GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512
(775) 323-3500 - Hours Monday -- Friday, 9 a.m. to 4 p.m.

Website: www.gsnv.org • E-mail: gsn@gsnv.org



NOVEMBER 2021 ISSUE, Vol. 37, No. 9

Published monthly except June and July

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Practical Geochemistry
patsy@practicalgeochemistry.com

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HB Engineering Group
summitcrk@aol.com

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gsn@gsnv.org

**NOV. 10, 2021
WEDNESDAY
VIA ZOOM**

GSN WINNEMUCCA CHAPTER MEETING

The Winnemucca Chapter will hold their meeting via Zoom beginning at 7:00 pm. **Speaker: Tyler Hill, i-80 Gold. Title: "The Formation of a New Nevada Focused Mining Complex"**. Please contact Chapter President Chad Peters for more information at: cpeters@ridgeline minerals.com. Zoom details on page 6.

**NOV. 16, 2021
TUESDAY
NOTE!
Different Day!
Via Zoom and
in person watch
Party.**

GSN SO. NEVADA CHAPTER MEETING

The So. Nevada Chapter meeting will be held at 6:30 pm in person & via ZOOM! **Speaker: Peter Druschke, PhD. Title: "Using Fossil Fauna to Piece Together the Puzzle of Nevada's Cretaceous-Paleogene Paleogeography"**. For more information please contact President Josh Bonde at: joshua.bonde@nvscicenter.org. See details plus Chapter update on pp. 7-8.

**NOV. 18, 2021
THURSDAY
In person and
Via Zoom**

GSN ELKO CHAPTER MEETING

The GSN Elko Chapter will hold their in-person (& Zoom) meeting at the Western Folklife Center, 501 Railroad St. Speakers: **Luke Schranz & Justinilliard. Topic: Eminent Gold Corp's four Nevada-based exploration projects. Sponsor: REDCOR DRILLING, INC..** Please contact Elko President Justinilliard: justin.b.milliard@gmail.com for more information. Details on pp. 9-11.

**NOV. 19, 2021
FRIDAY
In person and
Via Zoom**

GSN REGULAR MEMBERSHIP MEETING

The GSN regular meeting will be held in-person at the Reno Aces 250 Lounge, 250 Evans, Reno. **Speaker: Rob Selwood, Ormat Technologies. Title: "The Long Valley Geothermal System"**. **Sponsor: TonaTec Exploration, LLC.** Dinner cost is \$35 at the new venue. Please register for dinner online and send RSVPs to Laura Ruud, gsn@gsnv.org. Dinner link coming soon!

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**Dec. 15, 2021
WEDNESDAY**

GSN CHRISTMAS MEETING, SILENT AUCTION & RAFFLE! SAVE THE DATE FOR THE GSN CHRISTMAS MEETING, SILENT AUCTION & RAFFLE!! PLEASE DONATE RAFFLE & AUCTION ITEMS TODAY!

The GSN's annual Christmas meeting and Foundation Fundraiser will be held at the Nugget Casino Resort, Sparks, NV. **Speaker: Louise Hose. Topic: Hypogenic Karst of Nevada & Lehman Caves. ONLINE RESERVATIONS CAN BE MADE STARTING NOV. 8TH.**

GSN November Reno Meeting Sponsor!



FROM THE PRESIDENT
Patsy Moran, GSN President 2021—2022
NOVEMBER 2021



It was great to see GSN continue with regular monthly meetings across Nevada in October. We were able to provide virtual options for members that prefer not to attend in person yet. Check out gsnv.org for the recently recorded Reno Chapter monthly meeting presentations given by Professor Matthieu Harlaux and Don Hudson. After a year of camping-based and abbreviated field trips, GSN got back on the bus for the Fall “Silver State and More” fieldtrip, which is recapped in this newsletter.

My other volunteer role, co-chair for the Nevada Water Resources Association (NWRA) Minerals and Mine Water Management symposium, culminated in October. The event kicked off on October 12th with the first joint NWRA and Nevada Mining Association (NVMA) luncheon, followed by two days of technical talks that focused on environmental geochemistry and hydrogeology. While I was helping to herd cats at the NWRA symposium, Nevada Mineral Exploration Coalition (NMEC) volunteers held the 11th annual Mineral Exploration Summit, which kept attendees updated on recent political and regulatory activities with potential to impact exploration in Nevada. I’m proud to be a member of GSN, NMEC, NVMA, and NWRA (and Northern Nevada SME!). These organizations show through actions and events that they care about mineral exploration and mining in Nevada. Our membership and active involvement are essential to their continued success.

In November, the Winnemucca Chapter monthly meeting will be fully virtual while the Elko Chapter meeting will be in-person with a virtual attendance option. The Southern Nevada Chapter has a great lineup of speakers and events planned for the rest of 2021 and 2022 including a field trip, short course, and regular monthly meetings with in-person and virtual attendance options. Southern Nevada Chapter officers (Josh Bonde, Paul Bowen, Becky Hall, and Simon Jowitt) are hard at work planning these events and invite member feedback on the direction the Chapter is taking.

I’m excited to hear that the GSN Christmas party is set for December 15th at the Nugget Casino Resort. Our speaker this Christmas, Dr. Louise Hose, is going to take us on a geology filled spelunking adventure through Lehman Caves in Great Basin National Park. More information about the party will be provided in the December newsletter. Please see page 11 for a Foundation article regarding a call for raffle and auction donations plus information about where to drop them off this year.

Looking forward to seeing more of you in-person and online at our upcoming meetings.



The G.S.N. wishes to thank
RUEN DRILLING Incorporated
for sponsoring
the GSN’s October 15th Meeting!



Guest Speaker: Rob Selwood, Ormat Technologies

Title: “The Long Valley Geothermal System”

Date: Friday, NOVEMBER 19, 2021

Time: Drinks @ 6:00 pm, Dinner @ 6:30 pm, Talk @ 7:30 pm
Link to pay for dinner online will be live soon!

**Where: Reno Aces Ball Park, 250 Evans St.
Upstairs at the 250 Lounge/Good Hops Restaurant**

Abstract:

The 760 ka Long Valley Caldera located on the eastern slope of the Sierra Nevada hosts an active hydrothermal system at the south-west edge of a resurgent dome complex in the west-central portion of the caldera. Ormat currently utilizes 150-190°C brine from a tabular body of outflow in the Basalt Canyon and Casa Diablo areas to produce 30 MW – enough to power 22,500 homes. The surficial expression of that outflow extends over 15km from east to west and manifests at surface as series of fumaroles, mud pots, and boiling springs. The fluid chemistry of these springs indicates a high temperature (230-240°C) upflow that has not been located to date.

Chemical geothermometers from several wells and surface features along the outflow path were used to back-calculate a distance-to-upflow from the current Basalt Canyon production wells. General trends show an overall linear decrease in temperatures from west to east and a more rapid re-equilibration of silica relative to cation geothermometers. When plotted as a function of distance from the westernmost (highest temperature) sample, extrapolation to inferred resource temperatures of 230-240°C suggests that upflow occurs within a 5-7 km radius from that point.

This data is presented in conjunction with previous studies, 3D modelled magnetotellurics (3DMT), and lidar data to support a conceptual model of upflow in the western moat of the Long Valley Caldera. These data indicate a WNW structural pathway that links young (100 ka – present) volcanism with mapped outflow in Basalt Canyon and thus provides a road map for future exploration in the field.



Robert Selwood Bio:

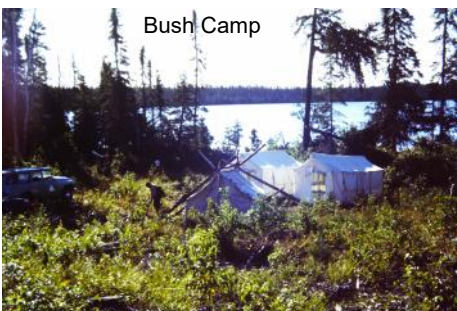
- I grew up in the SW of England among the old tin mines. While I didn't know it at the time it seems becoming a geologist was inevitable.
- In 2011 I graduated from Camborne School of Mines, University of Exeter, UK with a BS in Applied Geology, and a hangover
- After graduating I moved to the jungles of Ecuador to sweat it out for a junior epithermal explorer working on systems in the vicinity of the giant Fruta del Norte epithermal deposit.
- From 2012 to 2016 I worked in Zambia and Namibia for a large multinational miner conducting regional sediment hosted copper exploration where I met my wife (also an exploration geologist)
- In 2016 she convinced me to move to the US under the pretense of skiing. At GSN evening I met my advisor Dr. John Muntean and decided to go back to school. My thesis focused on the Analysis of Regional Surface Geochemistry in Northern Nye County, Nevada, with an Emphasis on Assessing the Potential for Carlin-type Gold Deposits.
- After graduating I wanted to expand my understanding of the mineral systems I had so far encountered through the study and exploration of active hydrothermal systems. I have been working at Ormat for 2 years now on resource development programs at Mammoth and Steamboat and exploration in the Great Basin and East Africa
- I still think about gold once in a while!

“FACES OF GSN”

R. PAUL BOWEN

Las Vegas, Nevada

The route to that of an explorationist was not a direct one. The secondary school I went to had no career counselling person on their staff. Consequently, the majority of my classmates that went on to university became school teachers. I was sent to what was called a Psychometrist to find out what I would be good for, if anything. The result was that I was told that Engineering Physics was for me. This meant I would likely have ended up inside a lab or some likeness thereof designing nuclear weapons or power plants. Not exactly a future for a lad that had been camping out of doors and pretty well running wild, often without much adult supervision since he was about 5 years old. After two years at Michigan Tech I found that the majority of friends I had made there were in geology or geological engineering. In my third year I took the first year geology course. I found it interesting enough that in my fourth year I took the second year geology courses. In those days (early 1960's) there was a thing called the “Draft” that hung over young men's heads. They would give you 4 years and a few months before you received a notice to serve Uncle Sam. I needed two more years to graduate in geological engineering. I took the required summer school of surveying and field geology as I had finally found something that turned my crank and decided I would join an organization I had wanted to be part of since the end of WW II, the United States Marine Corps. In fact, I received a letter from my father some two weeks before the end of Marine Boot Camp that I had indeed received an invitation to serve but he had taken care of it for me. I was assigned to be an electronics technician and sent to school for a year at the taxpayer's expense. With the amount of money the government spent on me I was told if I stayed in the Corps I would likely be doing that forever so I decided to get out, return to Tech and complete my degree in geological engineering which I did. I also took a degree in business in case I got hurt or physically disabled. Through connections I made at Tech I got some great summer jobs with the Ontario Geological Survey in geophysical and geological mapping field parties. I was now doing something I really enjoyed and was getting paid for it. Michigan Tech had been blessed with several professors in geology, mining and metallurgy that had graduated from McGill University in Montreal, Quebec, Canada. One of them had given me a flyer from there describing their Master of Science (Applied) degree in Minerals Exploration. This degree was two years and 12 graduate level courses in geology, geophysics, mining and metallurgical engineering. Because McGill was on the GI Bill approved university list they would also pay to finish a started degree. I had burned up 3 years at Tech so they paid the extra year at McGill. I was debt free and had a job lined up on completing the Masters Degree (cont. on page 5)



Bush Camp



Mishi resupply, 1985
Paul on the dock



Going to
Camp



Going to Camp again



Chopper arrives for camp



I was on my way and never looked back.

I worked for a number of small companies and was required to do or start a number of assessments that larger companies often had separate divisions to accomplish. The late 1970's and early 1980's saw the arrival of the personal computer. I jumped on it. The spreadsheets we devised could be run with a hand held calculator at between 6 and 8 per day if you had all the data. With a PC it was virtually instantaneous. I was even accused of trying to take the job of one mining group in a large company who were locked into a mainframe computer. The field work did not stop either and I have not produced a hand drawn map since 1983, thanks to computer graphics programs. Things just got better over time. I have worked for a number of companies over my career both as an employee and as a consultant. I went on my own in 1986. Most of my work has been in Canada and Mexico followed by the US and Honduras. It has been a great ride and retirement was never a goal and neither was a skyscraper office. I suppose I could have done better financially taking that route but personal satisfaction was my goal. The only setback I ever received was to be told a couple of years ago that I was too damned old to take a core logging job.

I have seen a number of changes in the exploration end of mining during my career. One of the best changes was when the Ontario Geological Survey started hiring female geologists on field parties ahead of the mining companies. I have worked with some great female geologists over the years. One area I have noticed several years ago that I have trouble with is that some younger geologists have started specializing in their undergraduate years. I would rather see that done at the graduate or post bachelors degree level. Another area I encourage is that of professional development. Every few years I have taken a course or two to improve my knowledge. That is the same with driver education courses, firearms safety and marksmanship and scuba diving. The only commencement address I remember is from my high school graduation. The addressee described the word commencement. He stated that commencement was not an end to our educational process but a beginning. We had been given an educational foundation upon which we were to build our life and we should never stop the learning process.

Along the way I have married and have two children, a girl and a boy plus one granddaughter.

I wish all of you the very best in your family and career.

Loveland Lake Landing



OGS field crew. Mishibishi Lake, 1986





GSN WINNEMUCCA CHAPTER MEETING—via ZOOM!



Hi Everyone,

Due to the ongoing pandemic the Winnemucca Chapter has decided to stick with virtual meetings for the time being but we can't wait to get back to in-person meetings as soon as it's safe to do so. For our November meeting we are very excited to have Tyler Hill, Senior Geologist at i-80 Gold Corp join us on November 10th @ 7:00pm to walk us through what is probably best described as a transformative past couple months for their team as they recently completed the acquisition of both the Lone Tree and Ruby Hill complexes. The title of the talk will be "i-80 Gold Corp: The Formation of a new Nevada focused mining complex" and you don't really need an abstract cause I just gave you one. 😊 Zoom details are below. **Please contact Chad Peters, President, for more info.** cpeters@ridgeline minerals.com

WEDNESDAY, NOVEMBER 10, 2021

7:00 p.m.—8:00 p.m.

SPEAKER: Tyler Hill, i80 Gold Corp.

TITLE: "i-80 Gold Corp: The Formation of a New Nevada Focused Mining Complex"

Join Zoom Meeting:

<https://us02web.zoom.us/j/86772997320?pwd=eWx6R3FnWmhTc0ZUc056L3BvQ0lKZz09>

Meeting ID: 867 7299 7320

Passcode: 116134

One tap mobile: +12532158782,,86772997320#,,,,*116134# US (Tacoma); +13462487799,,86772997320#,,,,*116134# US (Houston)

Dial by your location: +1 253 215 8782 US (Tacoma); +1 346 248 7799 US (Houston); +1 669 900 6833 US (San Jose)

Find your local number: <https://us02web.zoom.us/j/86772997320?pwd=eWx6R3FnWmhTc0ZUc056L3BvQ0lKZz09>

2022 DIRECTORY ADVERTISING SPACE NOW AVAILABLE!

Don't miss this opportunity to advertise your company or yourself in the GSN 2021 Membership Directory! Hundreds of GSN Members rely on this directory year-round to find contact information for colleagues, vendors, services, etc.

PRICES ARE THE SAME:

Business Card—\$50

1/4 Page Ad—\$150

1/2 Page Ad—\$300

Full Page Ad—\$450

You can now order and pay online for your ad! Click the link now:

<https://www.gsnv.org/shop/directory-advertising/>



Geological Society of Nevada Southern Nevada Chapter News



The GSN Southern Nevada Chapter is excited to announce upcoming events as we transition back to in person! Check out what's new and upcoming! Take advantage of member benefits. Membership information can be found [here!](#) Share with your friends and colleagues! www.gsnv.org/membership/

Tuesday, November 16, 2021 - Chapter meeting Hybrid

6:15pm virtual room opens up, talk will begin at 6:30

Speaker: Peter Druschke Ph.D.

Title: "Using Fossil Fauna to Piece Together the Puzzle of Nevada's Cretaceous-Paleogene Paleogeography"



Bio: Peter got his undergraduate degree in geology at Sonoma State University, CA and his masters and Ph.D. at the University of Nevada, Las Vegas in the Geoscience Department. His research focused on stratigraphy and structural geology in the Great Basin and China. His career led him into the energy industry for the past 10 years, but is currently branching away to use his expertise in different industries and research. Peter is currently a research associate with the Nevada Science Center and looking for new opportunities in the Great Basin Region. pdruschke@yahoo.com

Talk Sponsored by the Nevada Science Center, 331 S. Water St., Unit D, Henderson ,NV 89015



We are excited to start the transition back to face-to-face! Come head down to the Nevada Science Center for a hosted social hour and watch party!

***Members Free, \$5 student non-member, \$10 professional non-members**

Link: <https://us02web.zoom.us/j/8174803286?pwd=OUVBdFg5Mm5Ob3lGTfPTM0pmUE1xQT09>

Meeting ID: 817 480 3286

Passcode: GSNSouth!

Mark your Calendars for Southern NV Chapter events:

December Lets Party!

Thursday December 16, 2021 6:00-8:30PM

Close out 2021 with a gathering and some fun! Please join us in a Holiday Party!

Eagles Club: 310 Pacific Ave, Henderson, NV 89015

***Members Free, \$10 student non-members, \$20 professional non-member**

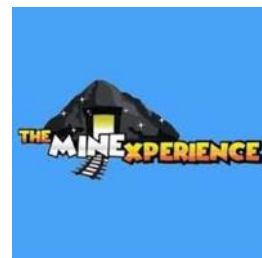
Wear your festive gear and bring your favorite holiday food dish to share! We are seeking sponsors for food and bar! Please email becky.hall@nvscicenter.org
(SEE MORE EVENTS ON PAGE 8)



Southern Nevada Chapter—Upcoming Events for 2022

January—Happy New Years!

Monthly meetings will continue with the hybrid model along with in-person meetings held at The Mine Experience at the McCaw School of Mines, 57 Lynn Ln, Henderson, NV 89015



February— Short Course!

Simon Jowitt Ph.D., Economic Geologist from University Nevada, Las Vegas, will be presenting a short course on **Critical Metals**. Please stay tuned for registration and details! Members will receive an updated registration link.

Email simon.jowitt@unlv.edu for questions.



Spring 2022— We are planning a Field Trip! Stay Tuned

Thank you and please reach out if you have any questions. For the most updated information and to be a part of GSN's Newsletters, please complete or renew your membership.

Questions, Contact:

Josh Bonde
Chapter President
Joshua.Bonde@nvscicenter.org

Becky Hall
Chapter Secretary
Becky.Hall@nvscicenter.org



GSN Elko Chapter—November 2021 Update

Although we were not able to do the annual joint meeting, we are excited to announce that sliding in to fill the slot is a pair of previous GSN Elko Scholarship recipients, Luke Schranz and Justin Milliard. They will be speaking on Eminent Gold Corp's four Nevada-based exploration projects. The event is graciously hosted by Redcor Drilling, Inc. Also, donations for the Elko Xmas Party Silent Auction can be dropped off at the Rangefront Mining Services Office @ 1031 Railroad St, Suite 102B, Elko, NV. Thanks to Brian Goss and Rangefront for helping GSN coordinate this event.



This month's meeting will be held at the Western Folk Life Center on the **Thursday, November 18th.**

Presenters: Luke J. Schranz and Justin B. Milliard

Title: "Modern Prospecting in the Great Basin: Eminent Gold Corp's Pursuit for Precious Metals in Nevada"

Food and drinks @ 6 pm and talk to begin at 7 pm

We will also try again to broadcast the meeting ZOOM. Third time is the charm!

Topic: Elko GSN November Meeting

Time: Nov 18, 2021 at 7:00 PM Pacific Time (US and Canada)

Join Zoom Meeting:

<https://us02web.zoom.us/j/89867987877?pwd=SGZzbHJCMWNwbU05WEprMmhuVIMvZz09>

Meeting ID: 898 6798 7877

Passcode: Eminent

One tap mobile:

+12532158782,,89867987877#,,,,*8265201# US (Tacoma)

+13462487799,,89867987877#,,,,*8265201# US (Houston)

Dial by your location:

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

Meeting ID: 898 6798 7877

Passcode: 8265201

Find your local number: <https://us02web.zoom.us/u/kdtlyknKSr>

(Abstract and more Elko Chapter News on page 10!)

Abstract:

Eminent Gold Corp was founded in 2020 with the vision of utilizing emerging science to develop precious metal targets by evaluating the geologic framework and untapped potential in new and historic districts across the Great Basin. By integrating a team of exploration veterans with successful gold discoveries with innovative and enthusiastic junior geos, Eminent is systematically advancing four projects to drill-ready stage on bold, new target concepts. Exploration assets include: the Hot Springs Range Project, Weepah, Spanish Moon, and Gilbert South.

The Hot Springs Range Project targets a Carlin-type gold system located at the northern portion of the Battle Mountain-Eureka Mineral Belt where key geologic features occur but have not been previously recognized or explored. The project is centered around exposures of prospective host rocks and an ideal structural framework of crustal scale faults that were reactivated during the Eocene-Miocene. Anomalous surface geochemistry consists of rock (up to 2.85 g/t Au) and soil (up to 465 ppb Au) that correspond to structural intersections of steeply dipping faults and the shallow Home Ranch thrust.

The Weepah Project focuses on a historic mine that exploited gold mineralization along a shear zone related vein system of likely mesothermal origin. Historic mining occurred by both underground and open pit methods, with the most recent open pit (1986-87) producing an average grade ore of 5.8 g/t Au. Insights from geologic mapping and surface geochemistry have identified that mineralization did not simply originate from Mesozoic-age mesothermal shear zone veins, but has been upgraded by Cenozoic reactivation of these structures that spatiotemporally corresponded with episodes of low sulfidation epithermal activity. Utilizing this newfound knowledge that the Walker-Lane related overprinting mineralizing system formed under different tectonics conditions than the shear zone did has produced numerous new targets that were obscured by intramontane basin-fill.

The Spanish Moon District Project targets a historic mining district that has been exceptionally well studied (e.g., a 1970's Stanford PhD on metal zonation), but has experienced limited, modern exploration in unconsolidated, discrete portions of the District. Results from a surface program designed to provide the first modern, district-scale characterization of the complex mineral systems has identified four distinct, strongly mineralized domains, recently characterized by Eminent Gold. A western, mesothermal silver and gold system, a west-central Molybdenum-base metal intrusion-related system, a central sediment-hosted gold system (legacy drilling intercepts up to 13.5 meters of 7.6 g/t Au), and an eastern (possibly epithermal) gold system predominately obscured by post-mineral volcanic cover.

The Gilbert South Project targets a historic mining district that has shallow-level widespread exposure of numerous low sulfidation epithermal systems (rock samples up to 30 g/t Au). With early results still incoming, multiple lines of evidence, including structural modelling, geochemistry, and spectroscopy indicate the project has the strong potential to host multiple bonanza veins previously unexploited by historic mining efforts. Here, an opening-mode fault (2.5 kms in strike length) on a right-stepping relay - one of the most ideal structural settings to host a vein system in the Walker Lane, spatially coincides with a >2 km long NH_4^+ anomaly (ammonium illite and budding-tonite) and multiple shallow-level vein exposures with Au in rock >7 g/t and up to 30.7 g/t along the structure's entire mapped strike. Eminent Gold Corp is excited to wrap up our phase 1 efforts on these projects this year and advance to drilling in 2022.

Please see the Elko Chapter Sponsor's and Speaker's company websites for more information about them!

Redcor Drilling, Inc.

Founded in 2008, Redcor Drilling, Inc. based out of Winnemucca, Nevada provides surface exploration and development drilling throughout Northern Nevada and the surrounding areas. At Redcor Drilling, we understand that developing an exploration program requires a thorough knowledge of the design requirements, site conditions, drilling equipment requirements, and drilling capabilities. Our locally owned and operated business puts more than 30 years of experience and knowledge to work for you. We count with the experience, equipment, and friendly hard working staff to meet these necessities. Redcor Drilling's, major objective is to obtain the most information and samples possible from each hole by optimizing location, drilling and sampling methods, depth, and completion. The management team at Redcor Drilling, led by President Ray Hyne, is focused on providing operational performance while maintaining a safe work environment. We ensure exact results with complete attention to detail. Our highly trained personnel will work one-on-one with you to help you efficiently drill out your exploration or development program.

With your drilling needs in mind, Redcor Drilling, has developed our capabilities to better serve you. Our reputation of honesty and reliability precedes us throughout Northern Nevada. If you have any questions or requests, our friendly staff members are ready to help in any way that they can.

<https://redcordrilling.com/>

(Elko Chapter News continues on page 11)

Eminent Gold Corp.

Eminent Gold is a gold exploration company focused on creating shareholder value through the exploration and discovery of world-class gold deposits in Nevada. Its multidisciplinary team has had multiple successes in gold discoveries and brings expertise and new ideas to the Great Basin.

<https://eminentgoldcorp.com/>

Christmas Party News

Elko Chapter is still planning to host our annual Christmas Party this year. This event is our chapters main avenue to raise funds for our scholarship program through a silent auction. If you or your company has items to donate to the silent auction please contact Justin B. Milliard or Allison Mastenbrook.

Justin.b.milliard@gmail.com or mastenbrook.am@gmail.com

We also accept cash donations to be directed straight to the scholarship fund.



PLEASE DO IT FOR THE STUDENTS. THEY ARE OUR FUTURE!

NEWS FROM THE FOUNDATION

by Cami Prenn

It looks like all systems are set to go for the Foundation Christmas fundraiser at the Nugget on Dec. 15! Mark your calendars and please plan to attend. This is our first call for donations for the raffle and silent auction and there are some changes this year. I am no longer working at MDA and that WILL NOT be the drop off site for donations. **Paragon Geochemical** has generously agreed to take items at their office:

1555 Industrial Way, Sparks, NV 89431
Hours for drop-off: 9 a.m. to 3 p.m.

It's just off of Greg Street, really just across the river from MDA's office. Chuck Whipple and Doug Hensen are assisting GSN this year and we are grateful for their help.

When you're considering an item to donate, please be mindful that large items are difficult to manage at the Nugget, both for getting into and out of the party venue. The most popular items are liquor, jewelry, art, mining artifacts, and gift cards. Please leave a business card with your donation so we can appropriately acknowledge your gift. If you prefer that we pick up your donation please email Mario Desilets and me and we'll make arrangements for that; mdesilets@sbcglobal.net or cam.prenn@respec.com.

We will update you on live auction items and our speaker as arrangements get finalized. We will be coordinating with Laura for reservations and selling raffle tickets online. I look forward to seeing everyone in person again!



MORE NEWS FROM THE FOUNDATION

DOUBLE YOUR MONEY!!!

Any donation to the Great Basin Scholarship fund made by Dec. 15, 2021 will be matched by Richard Bedell up to \$100,000! What a great way to grow this scholarship fund!

The Great Basin Scholarship is aimed at mostly Ph.D. level research within the Great Basin that contributes to a fundamental understanding of the geology, preferably with a regional context. This is not directly related to ore deposits but can have implications. The fun thing about Economic Geology is we have to understand all our geology to be effective, so the funding of this scholarship will be of value to all geoscientists working in the Great Basin.

It is Richard's intent to see this scholarship fund reach \$1 million so that the annual funding can be in the ballpark of \$50,000. This should almost fully support a student and their research. This will probably take a while but it will put GSN on the map of any researcher working in the Great Basin. The current value of the endowment is \$186k. The investment guidelines for the scholarship fund allow the fund to grow into an endowment.

Donations can be made on the website under the Foundation tab. Please support this important cause! <https://www.gsnv.org/donation-form/>

NBMG Nevada Geology Calendar 2022

Order from Nevada Bureau of Mines and Geology (NBMG): **Online:** <https://pubs.nbmj.unr.edu/Nevada-geology-calendar-2022-p/cal2022.htm>; **Phone:** 775-682-8766; **Pickup:** [2175 Raggio Pkwy, Reno](#)

Available Now!

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Order online at
pubs.nbmj.unr.edu
or call (775) 682-8766

\$12 Quantity discounts
available
see website for details



12-month calendar



calendar dimensions: 13" x 9.5"

Monthly topics include... Goblin Knobs • South Pahroc Range • Columnar Joints • Big Den Creek Canyon • Hot Springs
• Peak Bagging • Beatty Mountain • Pinto Valley Wilderness • Santa Rosa Range • Goshute Mountains • Lake Tahoe
• Cavernous Weathering • Interesting facts about Nevada and Nevada geology also included

NEVADA BUREAU OF MINES AND GEOLOGY — Nevada's Geological Survey

GSN Fall Field Trip Synopsis, October 2-3, 2021

Having the weatherman cooperate was just the icing on the cake for a pleasant and entertaining trip to visit three exploration properties and the Tonopah Mining Museum. There were 38 participants in total, including one student. Our bus could accommodate 56 people, but many attendees came from other parts of Nevada and drove to the first stop at Candelaria. The 19 people who travelled on the bus vigilantly protected the beer and the food.

I'd like to thank our hosts, Tom Watkins, Silver One Resources (Candelaria), Bill Howald, Blackrock Silver Corp. (Tonopah West), and Ann Carpenter and Nate Chutas, Pathfinder Resources (Hall/Liberty), for sharing very informative and insightful information about their properties and their development plans. GSN field trips would not exist, were it not for the generous commitment of time shown to us by both the geologists who provided the information, and the companies who provided access to that information.

Another component of putting on a successful field trip is keeping the associated costs to a reasonable level. Without our sponsors, we would not be able to do that, and attendance would suffer. We are very grateful to our six sponsors, **Boart Longyear (dinner and wine, Mizpah), Envirotech Drilling (box lunches), American Assay (soda, snacks, beer), ALS Minerals (bar at the Mizpah), EM Strategies (box lunches) and Joe Laravie, Great Basin GIS, for the Guidebook plates.** Thank you all for your assistance.

As for the field trip being entertaining, I also would like to thank Don Strachan for taking over the mike, and giving the participants some knowledge about the Boss mine. So other than our bus being pulled over by the Schurz Tribal Police for some "infraction", it was a successful trip.

Of course, making the trip come together from an organizational perspective, from contracting with the hotels in Tonopah, to arranging for the bus, the lunches, snacks and beverages is another matter. This is the other part of the equation. These things would not have happened without the work of our Executive Manager, Laura Ruud. That won't come as any surprise to anyone who has seen her work on the field trips in the past. She deserves a lot of praise, not just for work on this field trip, but all the others she has worked on.

I enjoyed myself, I hope the attendees had a good time and learned something, and I am looking forward to what the GSN 2022 field trip organizers have in store for us next year.

Sincerely,
Kel Buchanan



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Mining Activity Update

Mike Brady, SEPTEMBER 2021

LMB Brady@aol.com

NEVADA

Power Metal Resources plc. announced that it acquired the Pilot Mountain Property from Thor Mining plc. for \$140,000 cash and 48,619,000 shares. (resource = 9,010,000 tonnes @ 0.26% WO₃ indicated) *Press Release: September 1*

Nevada Gold Mines Inc. announced that it offered to exchange its interest in the Lone Tree and Buffalo Mountain properties to I-80 Gold Corp. for I-80's 40% interest in the South Arturo Property. (resource @ Lone Tree = 7,200,000 tonnes @ 1.77 gpt Au indicated and 50,700,000 tonnes @ 1.69 gpt Au inferred) *Press Release: September 7*

Sibanye Stillwater Ltd. announced that it acquired an option to earn a 50% interest in the Rhyolite Ridge Property (Li+B) from Ioneer Ltd. for \$490,000,000 in project investment expenditures. *Press Release: September 16*

I-80 Gold Corp. announced that it acquired an option to earn a 100% interest in the Eureka/Archimedes and Ruby Hill properties from Waterton Global Resource Management for \$75,000,000 cash and \$8,000,000 in shares now and additional \$67,000,000 cash at a later date based on several development milestones. (resource @ Archimedes = 203,200,000 tonnes @ 0.49 gpt Au indicated and 157,300,000 tonnes @ 0.37 gpt Au inferred) *Press Release: September 7*

Ivy Minerals Inc. announced that it acquired an option to earn a 51% interest in the Ghost Ranch Property from Orogen Royalties Inc. for \$1,500,000 in exploration expenditures over 4 years. *Press Release: September 21*

Scorpio Gold Corp. announced that recent drill results at the Manhattan Project include 53.4-100.7 meters @ 2.92 gpt Au (MWRC21-05); 82.4-112.9 meters @ 6.00 gpt Au (MWRC21-06); 22.9-41.2 meters @ 21.26 gpt Au (MWRC21-07) and 146.4-176.9 meters @ 1.24 gpt Au (MWRC21-08). (resource = 300,000 tonnes @ 10.58 gpt Au indicated) *Press Release: September 7*

Nevada Gold Mines Inc. announced that it acquired an option to earn a 60% interest in the Swift Property from Ridgeline Minerals Corp. for \$372,700 cash and \$20,000,000 in exploration expenditures over 5 years. *Press Release: September 22*

Gold Standard Ventures Corp. announced that recent drill results at the Dark Star Project include 0-48.8 meters @ 1.19 gpt Au (DR21-11); 10.7-68.6 meters @ 0.74 gpt Au (DR21-12); 74.7-247.0 meters @ 2.51 gpt Au (DR21-14) and 86.9-295.7 meters @ 1.02 gpt Au (DR21-15). (resource = 32,717,000 tonnes @ 0.88 gpt Au measured+indicated) *Press Release: September 13*

Millennial Precious Metals Corp. announced that recent drill results at the Red Canyon Project include 22-44 meters @ 2.6 gpt Au (HVN21-01RD); 0-54 meters @ 4.54 gpt Au (HVN21-02RD); 13-24 meters @ 3.05 gpt Au (HVN21-03) and 19-34 meters @ 1.13 gpt Au (HVN21-04). *Press Release: September 16*

Contact Gold Corp. announced that recent drill results at the Green Springs Project include 132.59-146.31 meters @ 0.25 gpt Au (GS21-10); 111.25-117.35 meters @ 0.18 gpt Au (GS21-13); 32.0-51.82 meters @ 0.31 gpt Au (GS21-16) and 27.43-45.72 meters @ 0.24 gpt Au (GS21-18). (resource = 754,500 tonnes @ 2.05 gpt Au inferred) *Press Release: September 15*

Gold Springs Resource Corp. announced that recent drill results at the Gold Springs Project include 118.9-143.3 meters @ 5.95 gpt Au, 66.5 gpt Ag (J21-06); 19.8-36.6 meters @ 0.51 gpt Au, 3.3 gpt Ag (E21-16) and 178.3-179.8 meters @ 1.02 gpt Au, 99.7 gpt Ag (JP21-04). (resource = 35,657,000 tonnes @ 0.52 gpt Au, 9.4 gpt Ag measured+indicated) *Press Release: September 7*

Crestview Exploration Inc. announced that recent drill results at the Cimarron Project include 11.0-31.7 meters @ 0.59 gpt Au (SA-01); 0-16.8 meters @ 0.59 gpt Au (SA-03) and 74.1-78.3 meters @ 1.55 gpt Au (SA-04). *Press Release: September 15*

Golden Independence Mining Corp.(75%) announced that recent drill results at the Independence Project include 64.0-118.8 meters @ 0.60 gpt Au (AGE1-53); 33.5-108.2 meters @ 0.75 gpt Au (AGE1-58) and 3.0-100.5 meters @ 0.61 gpt Au (AGE1-60). (resource = 39,652,000 tonnes @ 0.42 gpt Au, 6.4 gpt Ag measured+indicated) *Press Release: September 21*

Bravada Gold Corp. announced that recent drill results at the Wind Mountain Project include 50.3-64.0 meters @ 0.70 gpt Au (WM21-110); (Cont. on page 17)

Mining Activity Update

Mike Brady, SEPTEMBER 2021

LMBrady@aol.com

(Continued from page 16)

13.7-91.4 meters @ 0.52 gpt Au (WM21-111); 149.3-158.5 meters @ 0.18 gpt Au (WM21-116) and 91.4-97.5 meters @ 0.19 gpt Au (WM21-117). (resource = 53,824,000 tonnes @ 0.34 gpt Au indicated) *Press Release:* September 7

American Pacific Mining Corp. announced that it acquired an option to earn a 100% interest in 77 claims within the Tuscarora District from Ubica Gold Corp. for \$800,000 cash and 3,700,000 shares over 2 years. *Press Release:* September 15

Blackrock Silver Corp. announced that recent drill results at the Tonopah West Project include 440.4-441.9 meters @ 1.27 gpt Au, 137 gpt Ag (TW21-083); 594.4-599.0 meters @ 3.11 gpt Au, 275.6 gpt Ag (TW21-085); 461.2-467.7 meters @ 1.94 gpt Au, 261.3 gpt Ag (TW21-097C) and 477.4-480.7 meters @ 2.26 gpt Au, 222.7 gpt Ag (TXC21-016). *Press Release:* September 1

Summa Silver Corp. announced that recent drill results at the Hughes Project include 421.6-425.9 meters @ 913 gpt Ag, 7.86 gpt Au (SUM21-31); 343.8-347.9 meters @ 131 gpt Ag, 1.33 gpt Au (SUM21-36); 437.8-443.9 meters @ 253 gpt

Ag, 2.53 gpt Au (SUM21-40) and 338.7-344.4 meters @ 337 gpt Ag, 2.10 gpt Au (SUM21-42). *Press Release:* September 22

Viva Gold Corp. announced that recent drill results at the Tonopah/Midway Project include 125.0-147.8 meters @ 1.53 gpt Au, 8.3 gpt Ag (TG2101). (resource = 12,830,000 tonnes @ 0.79 gpt Au measured+indicated) *Press Release:* September 15

Rex Minerals Ltd. announced that recent drill results at the Hog Ranch Project include 7.6-118.9 meters @ 0.83 gpt Au, 11.4 gpt Ag (HR21-08); 0-10.7 meters @ 0.53 gpt Au, 0.7 gpt Ag (HR21-09); 94.5-208.8 meters @ 0.64 gpt Au (HR21-10) and 54.9-111.3 meters @ 2.12 gpt Au, 23.9 gpt Ag (HR21-12). (resource = 35,000,000 tonnes @ 0.49 gpt Au indicated) *Press Release:* September 10

P2 Gold Inc. announced that recent drill results at the Gabbs/Sullivan Project include 27.43-168.1 meters @ 0.81 gpt Au, 0.30% Cu (GBD-01) and 12.5-58.83 meters @ 0.12 gpt Au, 0.23% Cu (GBD-02). (resource = 37,600,000 tonnes @ 0.58 gpt Au, 0.28% Cu inferred) *Press Release:* September 8

OTHER UPCOMING EVENTS

November 1-6, 2021: Alaska Miners Association Fall Convention & Trade Show. Dena'ina Convention Center, Anchorage, AK. Click the link for more information and to register: <http://www.alaskaminers.org/copy-of-convention-information>

November 2, 2021: Arizona Geological Society. Chris Osterman, PhD, 417 Project, Globe, Gila County, Arizon. A Native Silver Discovery. 6:30 p.m. via ZOOM <https://arizona.zoom.us/j/87454032695>. For more information please click here: <https://arizonageologicalsoc.org/event-4532411>

November 4, 2021: NPGS on-line monthly meeting is Thursday, Nov 04, 2021, starting at 7:00 PM. The meeting will be conducted via Zoom. A \$10 donation is requested, \$5 for students. **Speaker: Kevin Kitz, P.E. Title: Drilling to a Green Energy Future: Three Multi-Billion Dollar Investment Pathways.**

Click here to register: <https://npgs.123signup.com/event/registration/kmbcg?mid=5044444>

Join Zoom Meeting: <https://us02web.zoom.us/j/85312969437?pwd=UIF6cnJrbHJLN3VadmpCM2lUbHUzUT09>

Meeting ID: 853 1296 9437

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December 5-10, 2021: American Exploration & Mining Association Annual Meeting "Mining's Role in Securing America's Future". Nugget Casino Resort, Reno/Sparks, NV. Click the link for more information and to get registered: <https://www.miningamerica.org/2021-annual-meeting/>

December 5-6, 2021: SME Arizona Conference, hosted by the Society for Mining, Metallurgy & Exploration, in Tucson, Arizona. For more information on the SME Arizona Conference, visit <http://www.smeazonaconference.org/>

MAY 2-5, 2022: GEOLOGICAL SOCIETY OF NEVADA'S SYMPOSIUM 2022! Nugget Resort, Sparks/Reno Nevada. Technical Sessions, Field Trips, Short Courses, Exhibits, Luncheons, Parties! Visit the Website for more information: WWW.GSNSYMPIUM.ORG

ROCK TALK

Submitted by GSN Member, Lane Griffin

GREAT BASIN SILHOUETTE AERIAL ID GUIDE

You would think that the Federal Government had locked up enough Nevada land with all the wilderness areas, monuments, wildlife refuges, and the Test Site. But now the Navy will be fencing off a chunk of land near Fallon the size of Rhode Island for their aerial games.

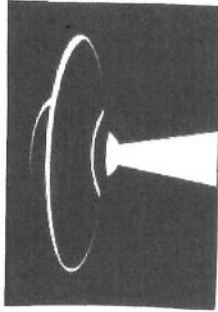
This withdrawal will result in a serious increase in overhead traffic throughout the state and the 'Ol Consultant would like to give the GSN members a guide to 'flying stuff' in the Great Basin.

Carry this *Silhouette Guide* in your truck at all times

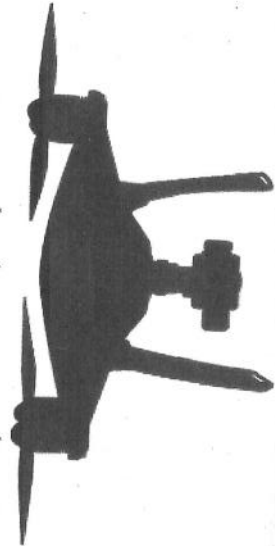


Black Helicopter: Flies low and slow. You have crossed into Area 51/ Test Site or you're double parked at the Alien Inn

Action: Drop your rocks grab your socks, evacuate the area immediately, they don't take prisoners



Flying Saucer: Common in southern Nye County posing as Uber or Lyft
Action: Do not accept ride back to truck, their probe is not for drill holes

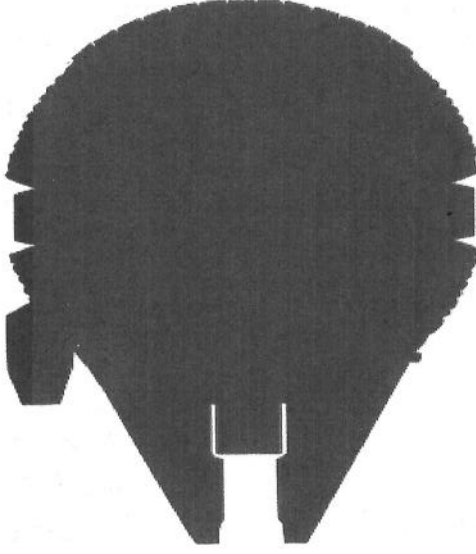


Drone: May be rogue flyer from nearby geophysical program or government spy-guy
Action: find shelter, return fire if armed



F-18 Fighter: weapon of choice for Navy jocks, loud and harmless

Action: Do not make threatening gestures with rock pick, maybe they won't recognize you at the Middlegate bar



Millennium Falcon: You have entered another dimension or your Angry Orchard drink has spoiled

Action: start sampling for dilithium crystals or unobtainium for your ride home



Gulfstream G-2: Corporate jet on its way to Vancouver to sell your data and dreams

Action: Surface to Air missile



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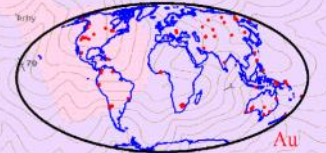
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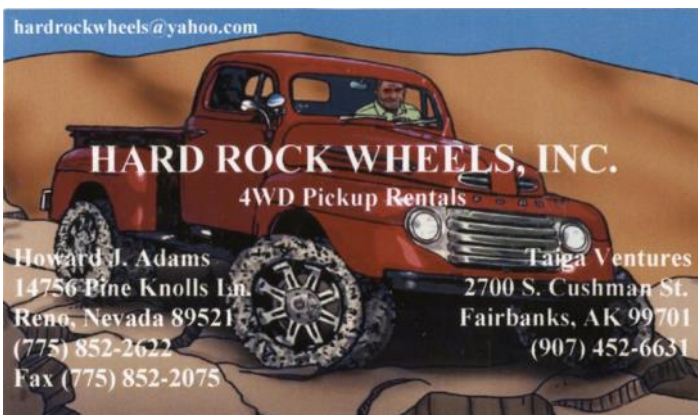
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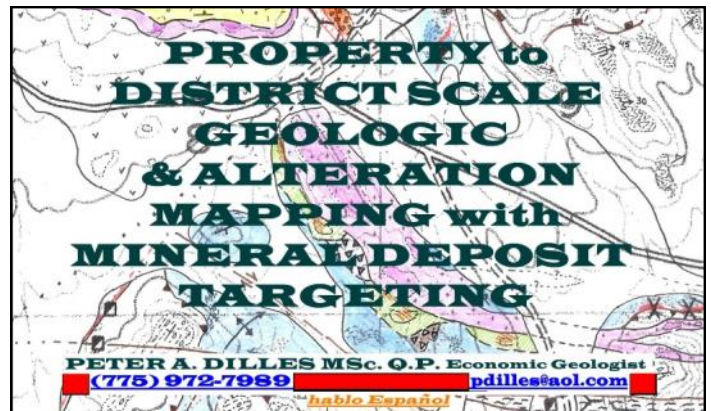
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