



# GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Reno, NV 89512  
(775) 323-3500 - Hours Monday -- Friday, 10 a.m. to 4 p.m.  
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NOV. 10, 2022

**THURSDAY  
IN BATTLE  
MOUNTAIN**

## GSN WINNEMUCCA & ELKO CHAPTERS JOINT MEETING

The Winnemucca Chapter and Elko Chapter will hold a joint meeting this month in Battle Mountain. **Speaker: Patrick Ruffridge, Nevada Gold Mines. Title: "Discussion on the geology of the Phoenix Mine, and how mineral resource management plays a key part in ensuring value is maintained during mining."** **Sponsor: NEVADA GOLD MINES.** For questions, please contact Elko Chapter President, Justin Milliard at [justin.b.milliard@gmail.com](mailto:justin.b.milliard@gmail.com) or Winnemucca Chapter President Nancy Wolverson at: [nancyjeanw@aol.com](mailto:nancyjeanw@aol.com). Details on pg. 6.



NOV. 18, 2022

**FRIDAY**

## GSN REGULAR MEMBERSHIP MEETING

The meeting will be held at the Hidden Valley Country Club, Reno, NV. **Guest Speaker: Sarah Springer, RL Contractors. Title: "Geologic Modeling and Interpretation at the Hanford Site, Richland, WA".** **Sponsor: TonaTec Exploration, LLC.** Dinner cost is \$50. Please register for dinner online OR send RSVPs to Laura Ruud: [gsn@gsnv.org](mailto:gsn@gsnv.org). [DINNER RESERVATION](#). Details on Pg. 3.

NOV. 30, 2022

**WEDNESDAY  
DATE CHANGE**

## GSN WINNEMUCCA CHAPTER HOLIDAY PARTY

The Winnemucca Chapter will hold their **HOLIDAY PARTY AND AUCTION** at the Martin Hotel, 94 W. Railroad St. **SPEAKER: Tyler Hill, Senior Geologist, i-80 Gold Corp; TITLE: "Discovery and Exploration Update on the Granite Creek Mine, Winnemucca NV".** **SPONSOR: BAROID IDP.** Please consider donating to our Auction to fund a geology student scholarship. For questions, please contact Chapter President Nancy Wolverson at: [nancyjeanw@aol.com](mailto:nancyjeanw@aol.com). Details on pg. 7.

DEC. 14, 2022

**WEDNESDAY**

**GSN CHRISTMAS PARTY AT THE NUGGET!** Mark your calendars now and get ready to take part in the Silent Auction and Raffle by donating a prize! See page 9 for details.

## GSN NOVEMBER RENO MEETING SPONSOR



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**FROM THE PRESIDENT**  
**Kel Buchanan, GSN President 2022-2023**  
**NOVEMBER 2022**

The GSN has returned to its vibrant and dynamic presence, if the attendance at our October dinner meeting is any indication of enthusiasm, and we extend a welcome invitation to our out-of-state members and those in Canada to attend if they are in the Reno area. Our new venue has its challenges due to current renovations, but we're coordinating with Hidden Valley staff to work around these issues, and in the meantime focusing on having great speakers, great sponsors and great food.

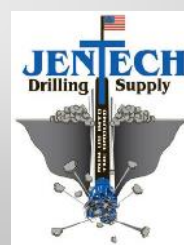
Our sister GSN chapters in Winnemucca and Elko are meeting in Battle Mountain on November 10<sup>th</sup> in a joint meeting that will coincide with the November GSN Board Meeting. We are fortunate that these two chapters have come through the last two years so well, and that our base of volunteers in both chapters is providing real leadership. The loss of our Southern Nevada section this year is not permanent. Members from Nye and Clark counties are looking at ways to invigorate the chapter, beginning with an impromptu technical meeting next year. To help with that planning, I will be travelling to meet with those members, to help in bringing those plans together.

Sarah Springer is our November meeting speaker. Several of our members, who had heard Sarah speak at other professional venues, have expressed enthusiasm for her poise and technical knowledge, and thought she would be an excellent choice for our next speaker. I didn't think much about world affairs when I talked to Sarah last month, but with nuclear malfeasance being promoted by bad actors, her position with the Hanford site and remediation is germane to the world we live in. Geologists are continually learning as careers evolve and we think that Sarah's knowledge will provide for an informative and entertaining evening.

Kel Buchanan

***GSN wishes to thank the October Reno  
meeting sponsor!***

***And thanks also to our Winnemucca  
and Elko Chapter sponsors for October!***



## **GSN MEMBERSHIP MEETING – NOVEMBER 18, 2022**

**Time: Drinks @ 6 pm, Dinner @ 6:30 pm, Talk @ 7:30 pm**

**Sponsor: TonaTec Exploration, LLC**



**HIDDEN VALLEY COUNTRY CLUB  
3575 E. Hidden Valley Drive, Reno, Nevada**

**DINNER COST: \$50**

ONLINE RESERVATIONS CAN BE MADE on the GSN WEBSITE by clicking this link: [\*\*DINNER RESERVATIONS.\*\*](#)

**GUEST SPEAKER: SARAH SPRINGER, RL CONTRACTORS**

**TITLE: “Geologic Modeling and Interpretation at the Hanford Site, Richland, WA”**

### **Abstract:**

The Hanford Site, part of the U.S. Department of Energy (DOE) nuclear weapons complex, encompasses an area of about 1,500 km<sup>2</sup> (580 mi<sup>2</sup>) northwest of the city of Richland along the Columbia River in southeastern Washington State. In 1943, as part of the top-secret Manhattan Project, the federal government took possession of the Hanford Site to build the world's first large-scale plutonium-production reactor. Between 1943 and 1963, nine nuclear reactors were built, mainly to produce weapons-grade plutonium. During reactor operations (the last reactor operated through 1987), large amounts of chemical and radioactive wastes were released into the environment that have contaminated the soil and groundwater beneath portions of the Hanford Site. Groundwater at the Hanford Site flows toward the Columbia River, which is the primary exposure route for contaminants to reach human and ecological receptors.

The Hanford Site is located in the Pasco Basin where basalt bedrock is overlain by fluvial sediments and a variety of cataclysmic Ice Age Flood deposits. Understanding the complex geology of the subsurface is critical to the success of soil and groundwater remediation efforts on the site. Whether a project is in the early stages of characterization and conceptual site model development or evaluating the performance of an existing remedy, geologic expertise is a central component.

The maturity of cleanup at the Hanford Site means there are ample data to interpret: over 12,000 boreholes and 5,000 active groundwater wells, borehole based geophysical logs, surface geophysical surveys, core samples, aquifer tests, laboratory evaluations and stratigraphic studies. This presentation provides an overview of geologic modeling and interpretation at the Hanford Site, with examples from remediation projects at different points in the cleanup process.



# Faces of GSN

## Anson Wong



Hiking in the San Gabriel Mountains with my dog Penny

When I was asked as a kid what career I was planning on pursuing, I would tell everyone I wanted to become a firefighter: I was told that they got paid to exercise, play Call of Duty, and spray down the occasional building. By the beginning of high school I realized this would not be possible as I was 5'10" and weighed 120 pounds, in addition to being asthmatic. After high school, becoming a geologist was not on my nearly nonexistent list of career choices because I was not aware that it was an option. I grew up in Arcadia, a city in Los Angeles County where it seemed like most high school graduates ended up becoming software engineers, medical professionals, or lawyers. Of course, all contribute to making society func-

tion smoothly; however, there was a general avoidance of equally important occupations such as farmers, plumbers, or mechanics.

I grew up in the Scouts which gave me an appreciation for the outdoors; that combined with an unclear idea of what I wanted to do led me to taking an introductory geology course at Pasadena City College with Bryan Wilbur. I had never really done well in school and his classes were no different. With a 7 am start time I was tempted to skip like I did with many of my other classes, but because of his general enthusiasm, class discussions on Hellcats and Ford Raptors, and fossil hunting trips in obscure locations, I managed to drag myself to every single lecture. By the end of the 2016 school year, I had taken almost every single class that he taught.



A coyote stealing my shoe during a camping trip in Death Valley

After procrastinating for the longest time and missing the application deadline for most four-year universities, I applied to the University of Arizona, one of the few schools that was still accepting students and whose application had an added bonus of not requiring an essay. By some miracle I was accepted into the geosciences program with something like a cumulative 2.6 GPA. Although I was attending a school with a great geology department, I was still unmotivated to study in almost all of my classes. I still skipped class and made life harder for myself, having to catch up on assignments and cram for exams. With a lot of help from (continued on page 5)



friends and faculty, I managed to graduate in the spring of 2019 with a cumulative 2.5 GPA and did not have high hopes for my professional career.

A couple months after graduating, I landed an entry level position for an environmental consulting company called Terranext in Phoenix, Arizona. More than anything in this job, I learned how to work hard. Although I did the occasional three-point problem and recorded soil/groundwater conditions, the vast majority of my duties were physical labor. I was only motivated by wanting to become financially independent and to make irresponsible purchases of the vehicles discussed in community college. Although I'll always be thankful to my manager Byron for taking a chance on me and forgiving me for all the unnecessary mistakes I made during my time there, after a little over a year and a half of bailing monitoring wells and hand augering drillholes in the Arizona heat, I was ready for a change.

Shortly after I left, I applied to the mining exploration industry through Rangefront. Through them I worked in Eureka, NV for Golden Lake Exploration under Travis Fisher, who taught me the basics of mineral exploration and showed me what it was like working for a junior exploration company. He allowed me to jumpstart my experience by teaching me how to log core even though I was hired on as a geotech. After working there for a little over a year, I moved to a neighboring project to the north at the historic FAD shaft. There I worked with Matt Rhoades, primarily logging core. During my time working with Matt I both learned a great deal about the geology of the Eureka district and was introduced to many of his colleagues, who have helped me throughout my career. One of them, Tyler Hill, was vital in helping me land my job with i-80 Gold. He had visited a few times while I was logging core at the FAD shaft and offered me a position as a project geologist at Ruby Hill, which was just north of where I was working at the time. I was extremely happy to hear this, as ever since I had worked with Golden Lake and toured McEwen's Gold Bar mine, I had wanted to work for an actual mine rather than for junior exploration companies. I am currently still in Eureka working at Ruby Hill for i-80 Gold and am very content. I enjoy the work, the people I work with/the tight-knit community, and the beauty of rural Nevada; I hope to be here for many years to come.





## **GSN ELKO AND WINNEMUCCA CHAPTER JOINT MEETING!**



**Meeting Date: November 10, 2022**

**Meeting Location: Battle Mountain Civic Center, Broad St.**

**Food and Drinks @ 7:00 p.m.**

**Talk to begin @ ~7:20 p.m.**

**Speaker: Patrick Ruffridge**

**Title: “Discussion on the geology of the Phoenix Mine, and how mineral resource management plays a key part in ensuring value is maintained during mining.”**

The Elko GSN Chapter is excited to have Patrick Ruffridge of Nevada Gold Mines (NGM) giving the November Battle Mountain – Elko joint meeting in Battle Mountain. The meeting is generously sponsored by NGM (food, drinks and transportation).

Also, a kind reminder that the holiday season is upon us and the Elko Chapter will be hosting our annual silent auction Christmas Party on December 15<sup>th</sup> at the Western Folk Life Center. Please get the word out and start preparing your silent auction donations. The party only is a success due to the generosity of our GSN Members. Last year the >\$3000 raised from the silent auction funded four scholarships, two UNR students, one UNLV student and one Texas A&M student. All four students will be returning their gratitude by giving talks to the chapter this coming year.

Coach buses will be transporting attendees from both Winnemucca and Elko, refreshments will be on board ☺.

### **Winnemucca**

Departure: Wal-Mart parking lot @ 17:30

Arriving: BMCC @ 18:40

BM Departure: @ 21:20

Winnemucca ETA: 22:45

### **Elko**

Departure: Raley parking lot @ 17:30

Arriving: BMCC @ 18:50

BM Departure: @ 21:10

Elko ETA: 22:30

**Please see their website below for more information**

Nevada Gold Mines is a joint venture between Barrick (61.5%) and Newmont (38.5%) that combined our significant assets across Nevada in 2019 to create the single largest gold-producing complex in the world.

Nevada Gold Mines is operated by Barrick.

**<https://www.barrick.com/English/operations/nevada-gold-mines/default.aspx>**





## GSN WINNEMUCCA CHAPTER NEWS



### GSN WINNEMUCCA HOLIDAY PARTY!!

**Meeting Date: Wednesday, November 30, 2022 (DATE CHANGE)**

**Location: The Martin Hotel, 94 W. Railroad St.**

**Meeting Time: 6 pm for Appetizers, Beer and Auction**

**Talk Time: 7 pm**

**Speaker: Tyler Hill, Senior Geologist, i-80 Gold Corp.**

**Talk: *"Discovery and Exploration Update on the Granite Creek Mine, Winnemucca NV"***

**Sponsor: BAROID IDP**



***Please consider donating to our Auction to support geology students.***

***Mineral specimens, gift baskets, gift cards, equipment, food, wine, etc.***

#### **ABSTRACT:**

The Granite Creek Mine, formerly known as Pinson, is located on the eastern flank of the Osgood Mountains approximately 35 miles northeast of Winnemucca. Property geology comprises a sequence of Cambrian to Ordovician sandstones, shales, and limestones that have locally been altered to marble, hornfels, and calc-silicates by the Cretaceous Osgood Mountains pluton. The Ordovician Comus Formation is the principal host rock, particularly the lower interbedded limestone and shale unit. Sedimentary units have been folded into a broad north-plunging anticline with N-S, E-W, and NW ore-controlling structures. Since the 1940s it has produced nearly 1M oz of Carlin-type Au from multiple open-pits. Initial exploration of the area began in the 1930's with small production in the mid 1940's from oxide ore. Cordex Syndicate and the Pinson Mining Company conducted significant exploration and mining in the 1970s and '80s resulting in commercial production from open-pits- beginning in 1987 and continuing until 1999. In the early 2000's Homestake, Barrick, and Atna Resources conducted exploration on the property with Atna constructing underground mining operations. As gold prices fell in the mid 2010's, Atna fell into bankruptcy and the property was acquired by Waterton Precious Metals. In 2021 i-80 Gold purchased the property from Waterton and began both surface and underground exploration with the goal of recommencing underground mining operations. Initial drilling focused on follow-up of historic Homestake and Barrick holes north of the existing underground resulted in the discovery of the high-grade South Pacific Zone.



## Fall 2022 Field Trip Wrap-Up

### Tony Gesualdo, Organizer and GSN Vice President

We had a beautiful early fall weekend on the east side of the Sierra-Nevada Mountains! The temperatures were perfect, the days were sunny, and the aspen leaves were starting to turn. We had 47 participants join our educational adventure to the Monitor-Mogul District on Saturday and the Masonic District on Sunday. We packed a lot into those two days including a geologic tour of the Zaca and Morning Star mine area, a Leviathan Mine Superfund site tour, a dinner presentation on the Spring Peak Project, a geologic overview and dip in the Travertine hot (warm) springs, and a geologic tour of the historic Masonic District mines.

A big thank you to all our hosts and field trip leaders. We appreciate the time and energy it took to put together the presentations that made it such a fantastic field trip!

On Saturday morning, Grant McKnight, UNR MSc student, introduced us to the stratigraphy and geological setting of the Monitor-Mogul District by taking us to the Zaca and Morning Star mines. We were lucky to meet Peggy and Steve Ristorcelli at Zaca to further the conversation with first-hand experience from when the mine was in operation. This is an interesting district in a beautiful area which hasn't seen much work in the last decade plus.

Saturday afternoon we were given a thorough tour of the Leviathan Mine Superfund site courtesy of Freyja Knapp, Marc Lombardi, John Sciacca, Taylor Zentner, Doug Carey, and Abby Cazier. Together they represented the various entities who operate the site: the US EPA, the California Water Quality Control Board, and the Atlantic Richfield Company. The tour was very informative not only of the geology, but also of the various mine waste cleanup methods being used on the site to mitigate water pollution downstream.

And on Saturday evening, Greg Dering of Headwater Gold gave a presentation on the Spring Peak Project during our dinner at the Carson Valley Inn. Their 2022 core drilling program had just started a couple weeks prior to the presentation, and it was interesting to hear about their interpretations and targeting models.

Mark Coolbaugh led the trip on Sunday: in the morning he gave a great presentation on the Travertine hot springs near Bridgeport and then led the group to multiple stops in the Masonic District. He shared some insights into some of the unique rock textures found in the district and the potential association to deposition and/or the high sulfidation epithermal system.

Our sponsors also play a big role in helping with our trip. We are grateful to our sponsors Boart Longyear, ALS Minerals, Envirotech Drilling, RESPEC, American Assay Laboratories, HB Engineering, and Joe Laravie at Great Basin GIS. Their financial contributions helped the trip be affordable and run smoothly.

I have received a lot of positive feedback from the trip, which I attribute to the leaders, the sponsors, and the attendees for being interactive and inquisitive. I learned a lot about these districts and the geology, and look forward to our trip in the Spring!

Cheers,

Tony Gesualdo

Group photo at Travertine Hot Springs near Bridgeport, CA



Mark Coolbaugh  
Leader



Bob Thomas



Grant McKnight  
Leader



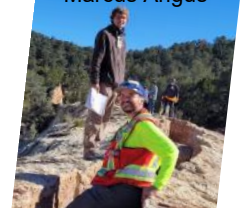
Dylan Gruse



Tiara Bechtold &  
Joe Millard



Evan Hirsh &  
Marcus Angus



Dave Boden & Greg Kuzma



Chemung Mine workings  
& buildings





# NEWS FROM THE FOUNDATION

November 2022

Camille Prenn, Chair

Before we know it the Halloween candy will all be eaten, the turkey will be a tryptophan memory and the snow will be flying to usher in the Christmas season. You all know what that means – the annual GSN Christmas party!

## Wednesday, December 14 at the Nugget

Now is the time to think about donations for the raffle and silent auction. Please be mindful that this is a fundraiser and the most popular items are liquor, jewelry, antiques (especially of a mining or scientific nature), gift cards, and mineral specimens. Every year we have books that aren't picked up at the end of the evening – please focus any book donations on those that are truly collectible or rare.

**Paragon Geochemical** has generously agreed to take items again 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.

This is the biggest fundraiser for the Foundation. Thank you!



## **NBMG's Nevada Geology Calendar 2023**

**Author:** designed by Christina Clack, Jennifer M. Vican, Chip Carroon, Christopher D. Henry, James E. Faulds, and Rachel E. Micander (13 x 9.5 inches, full color)

**This 12-month calendar (January through December 2023)** is full of beautiful photos highlighting Nevada's scenic wonders and features a different geologic topic each month: Jarbidge River Pinnacles, Nevada's Volcanic Past, Red Rock Canyon, Canyons, Toiyabe Range, Cathedral Gorge, High Alpine, Black Rock Range, Critical Minerals, Muddy Mountains, Archaeology, and Snow Covered. Interesting facts about Nevada and Nevada geology are also included.

**The price is \$12 each or \$10 each if you order 10 or more calendars. Click here to **ORDER NOW** !**



# Mining Activity Update

Mike Brady, SEPTEMBER 2022

[LMBrady@aol.com](mailto:LMBrady@aol.com)

## NEVADA

Rio Tinto Ltd. announced that it acquired an option to earn a 60% interest in the Elder Creek Property from McEwen Mining Corp. for \$18,000,000 in exploration expenditures over 7 years. *Press Release:* September 6

Anglo Gold Ashanti Ltd. announced that it acquired the assets of Coeur Mining Inc. within the Beatty District for \$150,000,000 cash. (resource @ Sterling = 29,002,000 tonnes @ 0.95 gpt Au inferred) *Press Release:* September 19

EMX Royalty Corp. announced that it purchased a 2.0% NSR on a portfolio of properties aggregating 62.5 square miles from Nevada Exploration Inc. for \$500,000. *Press Release:* September 2

Green Light Metals Inc. announced that it acquired the Kallum Canyon Property from Orogen Royalties Inc. for \$30,000 cash and 1,000,000 shares. *Press Release:* September 26

Timberline Resources Corp. announced that recent drill results at the Eureka/Water Well Project include 259.7-298.7 meters @ 1.71 gpt Au (BHSE-223C); 317.6-348.1 meters @ 2.56 gpt Au (BHSE-224C); 339.9-362.7 meters @ 4.29 gpt Au (BHSE-226C) and 288.6-291.7 meters @ 10.88 gpt Au (BHSE-230C). (resource @ Lookout Mountain = 26,254,000 tonnes @ 0.62 gpt Au measured+indicated) *Press Release:* September 14

Fortitude Gold Corp. announced that recent drill results at the County Line Project include 0-13.72 meters @ 0.51 gpt Au (CLRC-032); 0-7.62 meters @ 2.64 gpt Au (CLRC-033); 0-3.05 meters @ 1.49 gpt Au (CLRC-034) and 0-16.76 meters @ 1.75 gpt Au (CLRC-035). *Press Release:* August 30

Getchell Gold Corp. announced that recent drill results at the Fondaway Canyon Project include 120.0-227.5 meters @ 1.81 gpt Au (FCG22-19). (resource = 2,050,000 tonnes @ 6.18 gpt Au indicated) *Press Release:* September 27

Gold Royalty Corp. announced that it acquired from Nevada Gold Mines LLC. a 10% NPI in the Granite Creek Property and a 2.0% NSR on the Bald Mountain Property for \$27,500,000 satisfied by the issuance of 9,393,700 shares. *Press Release:* September 1

Contact Gold Corp. announced that recent drill

results at the Green Springs Project include 4.57-18.29 meters @ 0.50 gpt Au (GS22-07); 3.05-19.81 meters @ 0.70 gpt Au (GS22-08); 4.57-35.05 meters @ 0.51 gpt Au (GS22-09) and 19.81-44.2 meters @ 0.45 gpt Au (GS22-11). (resource = 754,500 tonnes @ 2.05 gpt Au inferred) *Press Release:* September 6

Hycroft Mining Holding Corp. announced that recent drill results at the Hycroft Project include 37-87 meters @ 0.79 gpt Au, 38.7 gpt Ag (H22R-5644); 27-47 meters @ 0.10 gpt Au, 90.9 gpt Ag (H22R-5645); 78-140 meters @ 0.72 gpt Au, 19.6 gpt Ag (H22R-5646) and 0-82 meters @ 1.03 gpt Au, 30.4 gpt Ag (H22R-5650). (reserve = 669,680,000 tonnes @ 0.34 gpt Au, 14 gpt Ag proven+probable) *Press Release:* September 13

Gold Springs Resource Corp. announced that recent drill results at the Gold Springs Project include 41.1-77.7 meters @ 0.61 gpt Au (J22-01); 211.8-253.0 meters @ 0.53 gpt Au (J22-04); 77.7-106.7 meters @ 1.74 gpt Au (J22-05) and 22.9-42.7 meters @ 0.45 gpt Au (J22-08). (resource = 50,555,000 tonnes @ 0.51 gpt Au measured+indicated) *Press Release:* September 19

Phenom Resources Corp. announced that recent drill results at the Carlin Vanadium Project include 9.14-33.53 meters @ 0.56% V2O5 (RCV22-79); 21.34-59.44 meters @ 0.47% V2O5 (RCV22-80); 0-21.34 meters @ 0.46% V2O5 (RCV22-81) and 15.24-32.0 meters @ 0.66% V2O5 (RCV22-86). (resource = 24,640,000 tonnes @ 0.61% V2O5 indicated) *Press Release:* September 13

Crestview Exploration Inc. announced that it acquired an option to earn a 100% interest in the Falcon Property from private interests for \$500,000 cash, 2,000,000 shares and \$250,000 in exploration expenditures over 5 years. *Press Release:* September 7

I-80 Gold Corp. announced that recent drill results at the Granite Creek Project include 409.5-417.0 meters @ 11.8 gpt Au (IGS22-23); 514.0-528.5 meters @ 10.7 gpt Au (IGS22-24) and 384.7-391.8 meters @ 15.3 gpt Au (IGS22-25). (resource = 562,000 tonnes @ 10.49 gpt Au measured+indicated underground) *Press Release:* September 13

Summa Silver Corp. announced that recent drill results at the Hughes Project include 336.6-337.7 meters @ 2.4 gpt Au, 200 gpt Ag (SUM22-54); 397.9-402.4 meters @ 0.9 gpt Au, 85 gpt Ag (SUM22-56); 417.2-421.8 meters @ 2.7 gpt Au, 335 gpt Ag (SUM22-57) and 417.8-421.2 meters @ 1.0 gpt Au, 65 gpt Ag (SUM22-58). *Press Release:* September 13

## AIPG Exploration Roundup

**The annual AIPG Exploration Roundup** will be held at the Atlantis Hotel, December 13, 2022, beginning at 6:00 PM. We have an impressive line-up of speakers from seven companies. Our meeting sponsor is Boart-Longyear, our constant support for this event, and without whom it would not be possible.

Reservations for the Roundup open on November 10, 2022. Please contact HB Engineering Group at 775 786-4515 or [summitcrk@aol.com](mailto:summitcrk@aol.com). A more detailed announcement will follow on December 1<sup>st</sup> with the names of the speakers and the companies they represent.



### OTHER UPCOMING EVENTS

**November 1, 2022:** Arizona Geological Society. Tom Ruberto, Ph.D. Candidate, ASU School of Earth and Space Exploration. Title: Content Learning Outcomes from Geological Virtual Field Trips can Exceed those from In-person Field Trips". Time - 6:30 PM MST (PT) (zoom event opens at 6:15 PM) ZOOM : <https://arizona.zoom.us/j/86917582457> Passcode AGS-2022 For more information please click here: <https://www.arizonageologicalsoc.org/events>

**November 7, 2022:** SME Northern Nevada Chapter Meeting, Circus Circus Mandalay Room, Reno, NV. Speaker: Tim George, Mine Operation Manager, i-80 Gold. Topic: i-80 Gold - 19 Months and Counting: Growing a Nevada Company...". [RSVP here](#). *Dinners and all the payments can now be [paid for online ahead of time](#).* For more information contact: [NNEvSME@gmail.com](mailto:NNEvSME@gmail.com)

**November 7-10, 2022:** Alaska Miners Association Fall Convention & Trade Show. "ALASKA MINING: ROCK ON!" Dena'ina Convention Center, Anchorage, AK. Click the link for more information and to register: <http://www.alaskaminers.org/convention>

**November 14, 2022:** DREGS Monthly Meeting. Nov 14, 6:00 PM – 9:00 PM MST. Berthoud Hall, 1516 Illinois St, Golden, CO 80401, USA. <https://www.dregs.org/events>

**November 2022:** NPGS meeting has been cancelled for November due to low numbers. Mark your calendars for the Christmas Party on December 6th at Tamarac Junction. Please contact [Robert@Hot-Inc.net](mailto:Robert@Hot-Inc.net) if you'd like to attend or help out by serving on the Board.

**December 4-9, 2022:** American Exploration & Mining Association Annual Meeting "Secure Supply Chains Start with Us". Nugget Casino Resort, Reno/Sparks, NV. Click the link for more information and to get registered: <https://www.miningamerica.org/annualmeeting/> **GSN WILL BE IN BOOTH #318 THIS YEAR!**

**December 4-5, 2022:** SME Arizona Conference, hosted by the Society for Mining, Metallurgy & Exploration, in Tucson, Arizona. For more information on the SME Arizona Conference, visit <https://www.sme.arizonaconference.org/>



**It's Time to Renew Your Annual Dues! Click here to renew online:**

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## GEOLOGICAL SOCIETY OF NEVADA

**2023**

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Offices are located at NBMG's Great Basin Science Sample & Records Library at The Desert Research Institute

Office hours: Monday through Friday, 9:00 AM - 4:00 PM. Please call or e-mail for appointment.

The Geological Society of Nevada (GSN) is a non-profit, educational organization whose principal objective is to promote the advancement of geological sciences, especially as they relate to Nevada. GSN supports the dissemination of information through meetings, field trips, publications and academic endeavors. Membership is open to geologists, geophysicists, geochemists, engineers, educators, students, prospectors or anyone else with an interest in the geological sciences and/or the goals of the GSN. The organization is based in Reno with additional Chapters in Elko, Las Vegas and Winnemucca.

The GSN Membership year begins September 1st. **Annual dues are \$50.00, Students \$25.00 or \$1,250.00 for Lifetime Membership. Dues are due in September each year at the commencement of the fall meeting schedule.** The GSN conducts a Field Trip in the Fall and one in the Spring of each year. Monthly meetings are held September through May in Reno, Elko, Winnemucca, and Las Vegas. If you would like to receive email announcements from one of the G.S.N. Chapters (Elko, Winnemucca or Southern Nevada) please check a box below.

Please help support the GSN Foundation and its scholarship funds when renewing if you can. Foundation dollars are used for the Kindergarten through 12th grade Field Trip Earth Science Grant Program, Nevada Mapping Grants, Field Camp Grants, and scholarships at the University of Nevada, Reno, and University of Nevada, Las Vegas.

### MEMBERSHIP APPLICATION

☐ Renewal ☐ New

Date: \_\_\_\_\_

Name: \_\_\_\_\_ Position/Title: \_\_\_\_\_

☐ **CHECK HERE if everything is the same as before, except as indicated below.**

☐ Consultant ☐ Consulting Geologist Company Name: \_\_\_\_\_

☐ Current Full-Time Earth Science Student University: \_\_\_\_\_ Alma Mater: \_\_\_\_\_

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(Your home phone number will not be listed in the Directory)

- ☐ I would like to have an asterisk by my name in the directory indicating I am available for consulting.  
☐ I have met the licensing requirements and want "QP" (Qualified Person) by my name in the directory.

I authorize GSN to send to me, via email: GSN event announcements, publications updates, employment opportunities, etc.

Yes ☐ No ☐

Optional Chapter Affiliation (to receive Chapter announcements directly and Chapter voting rights):

☐ Elko Chapter ☐ So NV Chapter inactive '22-'23 ☐ Winnemucca Chapter

☐ \$50.00 - Regular Membership Dues 2023 - Email newsletter (International or Domestic) .....

☐ \$80.00 - Regular Membership Dues 2023 - Hardcopy newsletter via postal service (Domestic Only) .....

☐ \$25.00 - Nevada Student Membership Dues 2023 ☐ \$25.00 - Non-NV Student Membership Dues 2023.....

☐ LIFETIME MEMBERSHIP - 25 X the Current Dues Rate (25 x \$50 in 2023 = \$1,250.00) .....

DONATIONS:..... ☐ I wish to donate to the GSN Student Field Camp Fund .....

☐ I wish to donate to the UNR Geology - D.D. LaPointe Scholarship Fund ☐ I wish to donate to the Brian Morris Scholarship Fund .....

☐ I wish to donate to the GSN Foundation General Fund (K-12 field trips; geology scholarships; mapping).....

**TOTAL: \$ 0.00**

Payment Type: Check # \_\_\_\_\_ ☐ Cash

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We're sorry that we can no longer process credit cards in the GSN office unless you are here in person.

**If you would like to pay with a credit card, please print out this page and mail it in to the GSN office!**

**(Sorry, we cannot take credit cards over the phone.)**

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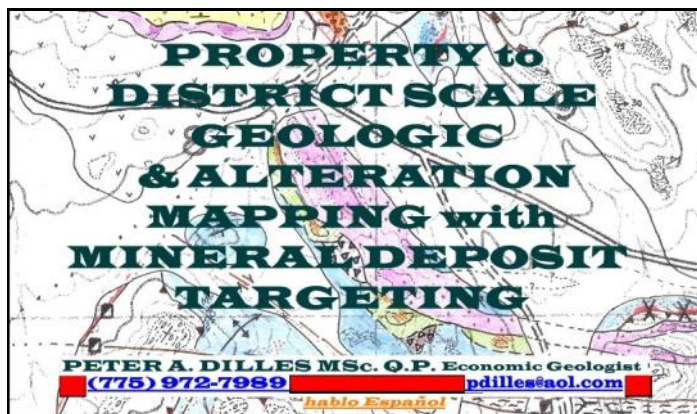


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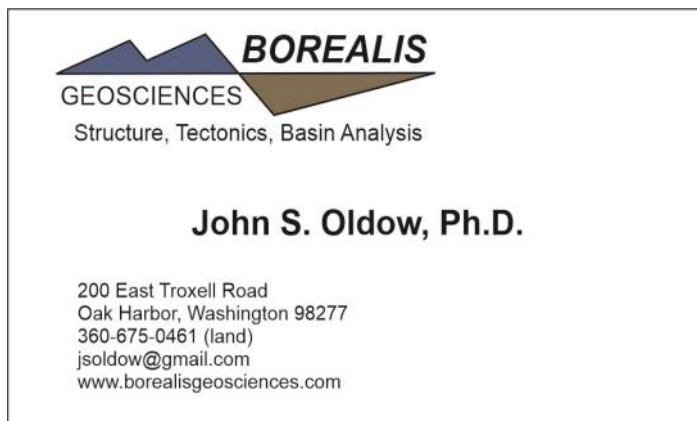
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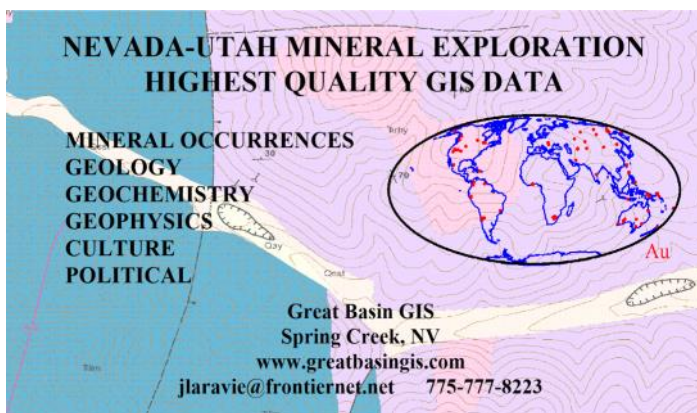
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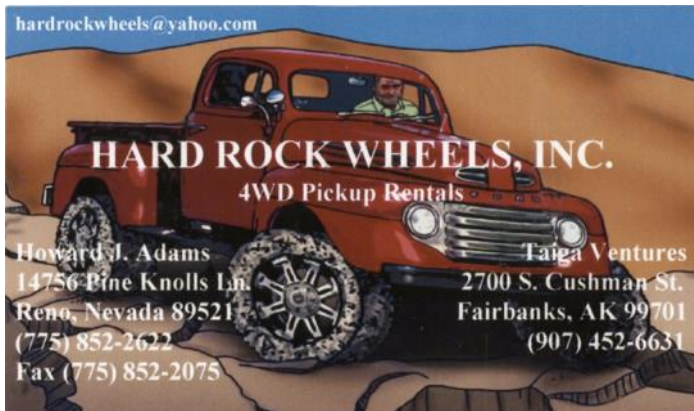
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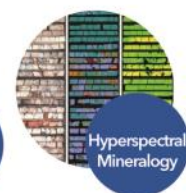
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### GSN TRAVELLING BACKPACK PICS

Eric Ruud sent in this photo of his new Symposium 2022 backpack in Nome, AK last week! Brrrrr!

