

May

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



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**MAY 8, 2024
WEDNESDAY**

GSN WINNEMUCCA CHAPTER MEETING

The GSN Winnemucca Chapter Meeting will be held at the Martin Hotel, 94 W. Railroad St. **SPEAKER: Jennifer Baar, Albermarle. Topic: King Mountain Lithium. FOOD & BEER SPONSOR: NEILSEN EXPLORATION.** For more information, please contact Chapter President, Kris Alvarez at: kalvarez@i80gold.com. Details on pg 7.

**MAY 16, 2024
THURSDAY**

GSN ELKO CHAPTER MEETING

The GSN Elko Chapter Meeting will be held at the Western Folklife Center, 501 Railroad St. Elko. **SPEAKER: Lucia Paterson, Nevada Division of Minerals. Title: TBA. FOOD & DRINKS SPONSOR: TONATEC EXPLORATION.** Please contact Chapter President, Luke Schranz, lukeschranz@gmail.com for more information. Details on pg. 8.

**MAY 17, 2024
FRIDAY**

GSN REGULAR MEMBERSHIP MEETING

The GSN Membership meeting will be held at the Atlantis Casino Resort, Reno, NV. **SPEAKER: Mandy Bengtson, SWCA Environmental Consultants. Title: "Knowledge is Power, But Luck Always Helps: Research-Informed Approaches for Reclamation in the Southwestern United States". DRINKS SPONSOR: GEOTEMPS, INC.. Dinner cost is \$60 per person.** Please register for dinner online by clicking the link: [DINNER RESERVATION](#) or RSVP to Laura Ruud: gsn@gsnv.org. **PLEASE Register or RSVP by MONDAY, MAY 13th!** Details on pg. 3.

**MAY 31 -
JUNE 2, 2024
FRI—SUN**

GSN SPRING FIELD TRIP

The field trip will head to Hawthorne, NV and will visit the Aurora project and the Spring Peak Project. It is filling up!
[REGISTER HERE NOW!](#) Details are on page 9.

**JUNE 7, 2024
FRIDAY**

GSN MEMBERSHIP PICNIC

The GSN Board of Directors picnic will be held at Rancho San Rafael Park's Peavine Pavilion from 5 pm—8 pm. Food provided by GSN. Beer sponsored by RESPEC & GeoSequel. See page 14 for details.

GSN RENO MAY MEETING SPONSOR



FROM THE PRESIDENT
Tony Gesualdo, GSN President JUNE 1, 2023-MAY 31, 2024
MAY 2024



It has been a privilege to serve you over the last year. As most of you know, the GSN executive committee volunteers their time and manages GSN duties in between their work and home schedules. A big thank you to all of them for their efforts over the last year (and in some cases many years)! Also, a huge thank you to Laura, our Executive Manager, who holds the organization together and keeps us all accountable.

You all will be in good hands with Patty Capistrant, who will take over as GSN President on June 1st. Rounding out the 2024-25 slate of candidates are Steve Weiss, incoming Vice President, Josh Miller, new Secretary, Bob Kastelic, returning Treasurer, Christian Thomas, new Membership Chair, Paul Fix, returning Publication Chair, and Peter O'Byrne, returning Digital Media Chair.

The only outgoing committee members other than myself are Kaitlin and Melissa, the current Membership co-chairs. Kaitlin and Melissa have been co-chairs for the last two years, helping with meeting check-in and venue liaising, and have monthly lugged those big name-tag boards to the meetings. So, if you see Kaitlin and Melissa, please let them know you appreciate their efforts. Steve Weiss will be moving from our long-time Secretary into the VP position.

Patty's final act as Vice President this year is the Spring Field Trip the weekend of May 31st to June 2nd. Signup is open and filling up fast. The trip will be based out of Hawthorne and will visit two exciting projects in the Bodie Hills: Headwater's Spring Peak Project and Hecla's Aurora Project.

Last month we resurrected our annual Student Poster Competition after the pandemic had shut it down for a couple years. All the posters were great, and I am sure the judges had a hard time deciding the winners. Congratulations to all the students who won a prize and thank you to all the students who participated. It is great to see the different projects being worked on by graduate and undergraduate students, and additionally it was great for the students to present and get feedback on their work.

For our May meeting, we have a great speaker: Mandy Bengtson will give a talk about arid land reclamation that covers topics including soil science, geomorphology, geology, hydrology, climate, and biology. It should be an interesting topic that many of us have come across when working on public land.

On the horizon is the 2027(?) GSN Symposium. To start the planning process, someone will need to organize an ad hoc committee meeting to select the Symposium Chair and plan a date for the Symposium. Any GSN member can organize the ad hoc committee, so please take the reins if you feel inclined. Simply plan a time and location and email it to Laura Ruud to forward it to the general membership. It takes a lot of planning and a large team of volunteers to make the Symposium happen, now is the time to start. The Symposiums have been a regular occurrence every ~5 years since the first GSN Symposium in 1987. This will be the 9th Symposium held on the 40th anniversary of the first Symposium (1987).

It has been a pleasure serving you as President of GSN over the past year, and I see the organization continuing in the right direction. There is an influx of young blood with many student attendees at the Reno meetings and there is an increase in "younger" volunteers on the committees across the state (I will let each of you decide what younger means.) We have also worked toward bolstering our website and digital capabilities. Many of these projects either take time to evolve into the product we want or are continually evolving to suit the needs of the members. I am sure, with a very capable group of volunteers next year, that the EC will continue to improve the organization!

Cheers,

Tony



Ranch, somewhere, Nevada.

GSN wishes to thank our APRIL MEETING sponsors!



GSN MEMBERSHIP MEETING—MAY 17, 2024

**GUEST SPEAKER: Mandy Bengtson, Ph.D.
Principal Soil Ecologist and Restoration Team Lead
SWCA Environmental Consultants, Reno, NV**

Title: “Knowledge is Power, But Luck Always Helps: Research-Informed Approaches for Reclamation in the Southwestern U.S.”



TIME: Drinks @ 6 pm, Dinner @ 6:30 pm, Talk @ 7:30 pm

WHERE: ATLANTIS CASINO RESORT, RENO, NV

DINNER COST: \$60 per person (RSVP by MONDAY, MAY 13TH!)

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

Abstract:

Reclamation of vegetation communities within mining, renewable energy and transmission projects is uniquely challenging within the arid ecosystems of the southwestern United States. Infrequent precipitation, extreme temperatures, fragile soils, and recalcitrant vegetation species commonly lead to revegetation failures. Careful consideration of soils, geomorphology, and vegetation dynamics during the planning phases of these projects may substantially reduce the magnitude and longevity of impacts from disturbances and increase potential rates of revegetation. Highlighted in this presentation are current research and suggested best practices for planning, construction, and reclamation phases of development projects in arid ecosystems. Strategies include planning for and minimizing construction and operational disturbances; maintaining soil resources (e.g., biological soil crusts, desert pavement, soil seedbanks, fertile islands, and soil cover); establishing or retaining vegetation cover that is compatible with ongoing operations; reducing non-native plant establishment; and working with soil-geomorphic processes and natural succession. A key step in project planning and development is setting realistic goals, criteria, and timelines for achieving reclamation goals. Implementation of these recommended practices can strongly increase the likelihood of reclamation success but requires careful coordination between developers, land management agencies, environmental consultants, and reclamation contractors throughout the life cycle of the project. While all these strategies can stack the odds in one's favor, a bit of luck (whether it is well-timed precipitation or mild temperatures) is often the deciding factor determining reclamation success.

Biography: As a principal soil ecologist and trained technical meeting facilitator, Dr. Bengtson works closely with project proponents, agencies, and stakeholders to solidify goals and objectives for reclamation projects and to develop revegetation approaches to meet the unique needs of each project. Her background in soil science, geomorphology, restoration ecology, and biostatistics has contributed to the publication of dozens of land management reports and 16 peer-reviewed scientific publications. She and her colleagues have developed novel conceptual models to support conservation, reclamation, and sustainable management of ecosystems throughout the western United States. Mandy earned her Ph.D. Geoscience from the University of Nevada, Las Vegas and her B.S. Soil Science from the University of Missouri. Her professional and research contributions have been recognized through the *Young Micromorphologist's Publication Award* (International Union of Soil Scientists), *Outstanding Dissertation Award* (University of Nevada, Las Vegas), *Steven W. Carothers Scientific Achievement Award* (SWCA "Scientist of the Year"), and the *Farouk El-Baz Student Research Award for Desert Studies* (Geological Society of America).



Successful interim reclamation relies on a clear understanding of project operational requirements and ecological drivers (image from a wind facility in Nevada).

“Faces of GSN”

Bob Pease

Grass Valley, CA

I grew up on a farm near Grass Valley, California, from 1957-1971. Growing up on the farm introduced me to the great outdoors, and I enjoyed exploring the countryside for bottles and arrowheads, along with collecting rocks. This lifestyle, along with wildlife encounters, was good preparation for a career in geology.

Grass Valley was part of the Mother Lode gold belt of the Sierra Nevada foothills, an important gold mining region that was part of the 1849 gold rush, and the mines had closed a few years before our family moved there. Once when I was a young boy, I wanted a gold spike for some reason, so one day my dad and I drove up to the machine shop at Newmont’s Empire Mine, and he returned a few minutes later with a gold spike. The gold paint has rubbed off a little over the years, but I guess that was my introduction to mining.

I graduated from high school in 1971 and then enrolled at Sierra Junior College, Rocklin CA, where I took a physical geology class as a science elective. To be honest, I found learning all the terminology in physical geology lectures to be boring, but I enjoyed the lab and field trips. It was a geologic field trip from Rocklin to Lake Tahoe that really inspired me to make geology a career, because geologic features in roadcuts and outcrops, especially along Interstate 80, were well exposed and easy to see once pointed out, and the route I knew very well. There was no internet back then, so learning about careers involved research in the library and asking Professor Floyd Wilmoth many questions.

In 1973 I transferred to Mackay School of Mines, University of Nevada, where I earned B. S. (1976) and M. S. (1979) degrees in Geology. I chose Mackay because of the school’s ties to the Nevada mining industry, and better possibilities of getting jobs compared to California schools. Times were changing as slide rules were being replaced by calculators, and Basic and Fortran computer courses were being taught in college. The decision to attend Mackay paid off because students were able to get summer jobs with mining companies both in the western U.S. and also Alaska. By this time, I knew that I enjoyed field geology, and wanted to emphasize that in my career.

From 1975-1978 I did summer work for Baroid Division of NL Industries in the Battle Mountain-Carlin area, mostly exploring for bedded barite around Rossi Mine in the Tuscarora Range. The geology of bedded barite was not well understood in the 1970s but to me it appeared to be a sedimentary rock that got folded and faulted. The first summer I was a geology assistant, essentially a prospector, then the next summer I wrote Baroid a letter volunteering to take charge of exploration. They authorized me to map the geology of the Rossi Mine property to see if mineable barite deposits still existed. Detailed mapping identified barite beds and pods and projected where else it could be found. Based on these maps and a report, Baroid conducted a large drilling program and ultimately developed a new large-tonnage deposit that was mined for years. This deposit was discovered solely by detailed geologic mapping, the most important tool of mineral exploration. We also searched for gold, as it had reached \$150 per ounce.

In graduate school at Mackay, I was interested in engineering geology, but I still wanted the master’s thesis to include geology mapping, and so learned, with tutoring by John Bell of Nevada Bureau of Mines and Geology (NBMG), the basics of mapping Quaternary geology, which was then applied to Holocene active fault analysis. Masters advisor, Professor Burt Slemmons, had many industry contacts so graduate students could get small jobs, which helped fortify the resume. I had to sharpen my planimeter to calculate volumes while working for Dennis Bryan on aggregate projects. I also was a teaching assistant for Professor E. R. Larson for his structural geology, stratigraphy, and field camp courses.

After mapping the north half of the Genoa Quadrangle south of Carson City for my thesis, NBMG hired me to map the geology of the rest of the quadrangle and evaluate geologic hazards. Both the geology and (cont. on page 5)

Bob Pease, Faces of GSN (cont. from page 4)

geologic hazards maps were published in 1980.

A long career and life in general require a good support crew. While at Mackay I met Nancy Foster, who earned a B.S in Earth science in 1978. We met because she was a student in the structural geology lab when I was a TA there. We married in 1979, and have twins, Kenneth, and Johanna. We've been supporting each other ever since.

Next was a job with St. Joe Minerals at the Yuba Goldfields near Marysville California, conducting a hydrogeology study and managing mine development drilling at a placer gold bucketline dredge project. A gold dredge was a very large barge that floated in a pond that used large buckets to excavate the alluvium. The drilling was done with a churn drill built in the year 1934. Gold samples were shoveled into a rocker box, concentrates panned, and gold particles removed by amalgamation with mercury. This was definitely old school. I also supervised computerization of 2,000 churn drill logs into a popular database program of the 1980's—dbase II and used a new computer program designed for personal computers to calculate volumes and grades of polygons to help define a mining path for the dredge. Two hydrogeology courses taken at Mackay prepared me to conduct the hydrogeology investigation, which was part of a feasibility study to see if it would be affordable to dewater the dredge pond to dig deeper.

Working for St Joe also included detailed geology mapping of 2,000 acres at the San Juan Ridge placer gold property near Grass Valley, CA, and preparation of a reclamation plan for a surface mine. I was also able to participate in other corporate projects on occasion that involved hydrogeology. Following a layoff from St. Joe there was a brief job with Coastal Mining Company, a division of Hanna, again on the San Juan Ridge property, assisting with, and applying, diamond core drilling to the deep placer gold deposit.

In 1987 Battle Mountain Gold (BMG) opened an office in Grass Valley, California to explore Mother Lode vein and placer gold deposits. BMG purchased the San Juan Ridge property and I designed, permitted, and managed a large reverse circulation drilling program that resulted in the discovery of a large placer gold deposit. We also developed methods for sampling in difficult RC drilling conditions. During this time planimeters were still in use and reserve analysis involved measuring areas on cross sections.

After that I started my time with junior companies, the first being Siskon Gold Corporation in 1992, as the mining geologist at the San Juan Ridge underground placer gold mine.

Another layoff occurred in 1997 when the gold industry crashed. During this time, I survived as a consulting geologist, mostly doing geotechnical investigations at mines and quarries for consulting firms. Networking helped produce this work and the diversified education and training helped me earn an income during those lean years. A benefit of consulting was having more time to help Nancy raise our children and get involved in their activities.

In 2004 I was hired by Emgold Mining Corporation to learn 3D modeling and apply it to the Idaho Maryland Mine project in Grass Valley, a large historic gold mine. I became Chief Geologist a year later. That was an interesting position, and most of the work involved computerizing the old underground mine maps. Since Emgold was a Canadian junior, this was my first involvement with NI 43-101 technical reports.

The Great Recession caused yet another layoff and I again was forced into a consulting role, working with several companies. I have remained Chief Geologist for Emgold (now Emergent Metals Corp.) ever since. It was at this time I convinced management to diversify into Nevada, and we were able to purchase several properties near Rawhide Mine. We never looked back, focusing on this and other mining-friendly jurisdictions. For mineral exploration, happiness was California in the rear-view mirror! (cont. on page 6)



Bob, a few years ago in the Garfield Hills.

Bob Pease, Faces of GSN (cont. from page 4)

I have been a consulting geologist for the last ten years. Most of the work has involved exploration, reclamation and permitting of volcanic-hosted properties in the Walker Lane.

Nevada field geology had its adventures, like the time I was on the wrong end of a cattle stampede in northern Nevada. Or the time I was awakened at dawn by heavy footsteps walking around the truck I was sleeping in and was too scared to move. It turned out to be a shepherder snooping around our camp. In California most adventures involved pot growers.

Although it has taken perseverance, I have enjoyed my career in geology because there is always new technology to learn and apply, and great people to work with. I have enjoyed working with young geologists who have a firm understanding of geologic fundamentals and know how to use the tools that exist today. They will make discoveries, but it takes money to make money, meaning they will need adequate financial support from the mining industry to succeed. Also, while I was in college the Vietnam War was still active but nearing an end. Over the years I have worked with people in Nevada and California who served in that war, and I honor their service.

I vaguely recall attending a GSN meeting attended by about a dozen people in a dimly lit saloon in Reno in about 1976. Since then, this organization has really grown into a well-respected professional organization, hosting fun meetings and outstanding conferences emphasizing up-to-date information on Nevada economic geology. Much of the understanding of Basin and Range tectonics and ore deposits should be credited to GSN. GSN also provides a forum to network with others, which I have found to be one of the most important things for maintaining a career.



The Pease family at Monterey Bay Aquarium in 2024 celebrating the twins Leap Year Day birthday: Kenny, Nancy, Bob, Johanna. Kenny and Johanna are 7 in leap years, or 28 in normal years.

WINNEMUCCA CHAPTER ABSTRACT & SPEAKER BIO FROM PAGE 7.

Abstract: “Kings Mountain Mine: A Lithium Love Story

Have you been hearing about Lithium lately? “White Gold” is the new “Gold Gold” and I’m hoping it’s here to stay! As the world looks for more efficient energy storage solutions, the global demand for lithium is increasing; economic geology and mining must rise to the occasion! Lithium from LCT pegmatites can provide high-quality, battery grade ore. But, like other deposits, finding and mining lithium-rich pegmatites is not easy. From greenfields to production, we will look at what makes lithium unique and why Kings Mountain Mine may help the USA supply its own, homegrown lithium. Lithium is a beast; let’s delve into why.

Jennifer Baar’s Bio:

Jennifer attended the University of Georgia for her BSc and Washington State University for her MSc in Geology. In 2007, she began her economic geology career at Getchell/Turquoise Ridge in Exploration as a contractor working for Karl Marlowe. She moved to Elko and she switched career paths; moving over to Production Geology at Leeville. After falling in love with the underground world, she made her way over to Cortez Hills UG. Though she loved the UG, all things must change, and she found herself at Cortez Hills Open Pit. In 2017, she broke her hip in a FREAK running accident and needed to make some lifestyle changes. She moved to Salt Lake City with Rio Tinto and was the ONLY Ore Control Geologist for 12 shovels and 14 drills in one of the world’s largest open pit mines. After revamping the Ore Control program at Bingham Canyon, she was given the opportunity to create Ore Control programs for hard rock Lithium mines with Albemarle. And that’s where she finds herself today.



Wednesday, May 8, 2024

(every 2nd Wednesday)

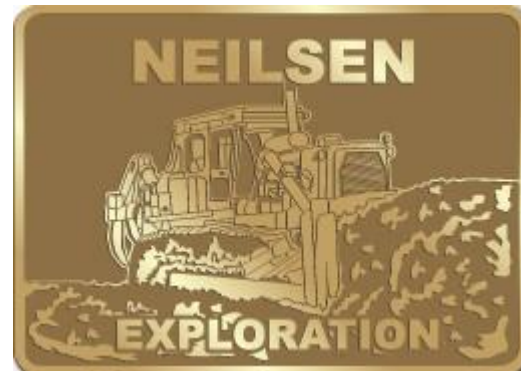
The Martin, 94 W. Railroad St., Winnemucca

Drinks at 6:00 pm, Food at 6:15 pm, Talk at 7 pm

Speaker: Jennifer Baar, Albemarle

Topic: Kings Mountain Mine: A Lithium Love Story

FOOD & BEER SPONSOR:



Jennifer Baar of Albemarle will be our speaker in May presenting on the King Mountain Lithium Deposit. It should be an exciting presentation on hard rock lithium in pegmatites. Jennifer is a long time former Elko resident but has been gracious enough to return to Nevada from North Carolina for this talk. She is currently the lead geologist—production for Albemarle at the King Mountain Lithium. We are grateful to Albemarle for sponsoring her travel to Winnemucca.

Nielsen Exploration will be sponsoring. Thanks, Steve!

As usual we will start up the meeting with appetizers around 6:15 and our talk will begin at 7 at the historic Martin Hotel in Winnemucca, NV.

And let's congratulate Bryan McFarlane, Eli Witte, Anthony Danciu and JoAnn Newbury for continuing as Vice President, Secretary, Treasurer & Membership Chair for the Winnemucca Branch, and all our sponsors and speakers for 2023-2024. Here's to more geological talks and networking in 2024 and 2025. (Editor's Note: A big thanks also to Kris Alvarez for continuing for another term as the GSN Winnemucca President for 2024-2025!) (See Jennifer's abstract & Bio on page 6!)



GSN ELKO CHAPTER NEWS



When: Thursday, May 16, 2024

(every 3rd Thursday)

Presenter: Lucia Patterson
Nevada Division of Minerals

Title: TO BE ANNOUNCED

TIME: Drinks & Appetizers @ 6 pm, Talk @ 7 pm

Where: The Western Folklife Center, Elko, NV

FOOD & DRINKS SPONSOR:



NEWS FROM THE FOUNDATION

May, 2024

The GSN-Chuck Thorman Geologic Mapping Scholarship

Attention Students! This is a new scholarship funded by Chuck Thorman and to be managed by the GSN Foundation. Chuck has a keen interest in seeing academic institutions continue to teach students how to make geologic maps and has agreed to fund student research projects that have a major focus on geologic mapping, from regional to project scale. Current available funding level is \$4,000 per year.

Scholarship guidelines and application can be found on GSN's website: www.gsnv.org, then navigate to GSN Foundation/Scholarship Opportunities

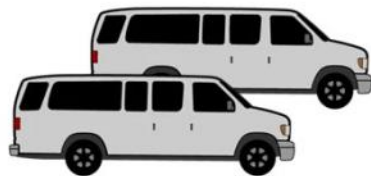
Applications for 2024-25 are due by May 31, 2024.

REGISTER ONLINE HERE: [SPRING FIELD TRIP](#) by May 22nd!

The Geological Society of Nevada's
2024 Spring Field Trip

May 31 – June 2, 2024 Aurora – Spring Peak, Walker Lane, NV

REGISTRATION
OPEN NOW! SIGN
UP HERE TODAY:
[GSNSPRINGFT2024](#)
DEADLINE May 22nd!



May 31 - 2pm

Depart Reno for
Hawthorne

START

May 31 - 6pm

Dinner and
Presentation on
Aurora geology

Questions?

Contact Patty Capistrant
Email: plcapistrant@gmail.com
Call/Text: 775-220-2532

Jun 1 – 8am

Depart Hawthorne
Spend day touring
Aurora Project



Jun 1 - 6pm

Dinner and
Presentation on Spring
Peak geology



Jun 2 – 8am

Depart Hawthorne
Spend day touring
Spring Peak Project

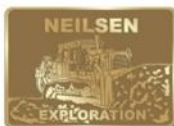


Jun 2 - 3pm

Drive back to Reno

Thank You To Our Sponsors!

FINISH



GSN STUDENT POSTER COMPETITION!

The Geological Society of Nevada would like to thank all the students and faculty who participated in GSN's 2024 Student Poster Competition on April 19th, 2024, during the membership meeting at the Atlantis Hotel and Casino in Reno. There were six entries this year showcasing excellent work in geological sciences from two undergraduate studies, three MSc projects and a PhD investigation. GSN was delighted to have student presenters this year from Truckee Meadows Community College (TMCC) as well as the Mackay School of Earth Sciences and Engineering within the College of Science at the University of Nevada, Reno (UNR). Winners were as follows:

First Prize (\$500) awarded to Silas Goetz of UNR for “*Characterization of the Gold Hill low-sulfidation epithermal Au-Ag vein system, Nye County, Nevada*”;

Second Prize (\$300) awarded to Marcus Angus of UNR for “*Constraining Mineralization and Alteration through New Geologic Mapping at Spring Peak Low-Sulfidation Epithermal System*”;

Third Prize (\$200) awarded to Nicole Wagoner of UNR for “*Preliminary Geothermal Play Fairway Workflow for the Great Basin Region, USA*”; and

Best Undergraduate Poster (\$200) awarded to Andrew Siciliano of UNR for “*Redox Evolution of Eocene Great Basin Magmas: Implications for Au Mineralization in Nevada*”.

Special thanks are due to GSN members Robbie Anderson, Bob Felder, Ellie Leavitt and Steve Weiss who generously volunteered to serve as Judges for this event! (SEE PAGE 14 FOR PHOTOS!)

OTHER UPCOMING EVENTS

May 1, 2024: Arizona Geological Society Meeting. Location: Hexagon Mining Division Office, 40 East Congress St, Suite 150, Tucson, AZ. Parking: On the street or parking garage (Old Pueblo Parking). Social Hour with Sandwiches from Beyond Bread (5:30-6:30 PM) Presentation (6:35 PM). **Speaker: Eytan Bos Orent, Ph.D. Candidate at University of Arizona Department of Geological Sciences.** Title: “**Characterization of Contrasting Ore-Related Fluid Systems in the Paradox Basin Evolution**”. More information and online registration: [Characterization of Contrasting Ore-Related Fluid Systems in the Paradox Basin](#)

May 2, 2024 Nevada Petroleum & Geothermal Society meeting, Please join us on Thur., May 2nd, at 6:30 pm for the monthly meeting at Tamarack Casino 13101 S Virginia St, Reno, NV 89511. **Speaker: Owen Callahan - eegeos.com.** Presentation: "Hot springs, travertine, and sinter: mapping and monitoring geothermal features with scientific and cultural significance". Click here to register: [Register Now](#). Contact Luis Navarro for more info: 832-707-2778 or email energygeologist@gmail.com

May 6, 2024 DREGS Meeting at SEG Headquarters this month! Society of Economic Geologists, 7811 Shaffer Pkwy, Littleton, CO , 5:00 PM – 7:00 PM MDT. **Speaker: Jennifer Craig, SEG Executive Director.** Guests must RSVP for this event! Meeting recordings will be available on their YouTube channel and website within the week. For more information, please see our [Events](#). Click here to [RSVP](#).

May 6, 2024 SME Northern Nevada Chapter Meeting, Circus Circus Mandalay Room, Reno, NV. Drinks 6 pm, Dinner 6:45 pm, Talk 7:30 pm. **Speaker: Rob Ghiglieri, NDOM Administrator. Topic: Nevada's State of the State for Mining.** Email: NNevSME@gmail.com. email us about the details. Visit the website for more information and to RSVP: [NNVSME Website](#)

May 10, 2024 Utah Geological Association's 2024 Spring Social, 5-9 p.m. at TF Brewing, Registration link: https://utahgeology.org/index.php?option=com_civicrm&task=civicrm/event/info&reset=1&id=40. Meet fellow geoscientists, learn about the UGA, and catch up with friends.

May 15-17, 2024 Geological Society of America—2024 Joint Cordilleran and Rocky Mountain Section Meeting, <https://www.geosociety.org/GSA/GSA/Sections/cd/2024mtg/home.aspx>

Here are your GSN officers for 2024-2025

(Terms begin June 1, 2024)

GSN EXECUTIVE COMMITTEE 2024-2025 OFFICERS

President: Patricia Capistrant, Kinross Gold Corporation

Vice President: Steve Weiss, Consulting Geologist

Secretary: Josh Miller, CMA Geoscience LLC

Treasurer: Bob Kastelic, McEwen Mining Inc.

Membership Co-Chair: Christian Thomas, Extrados Exploration, LLC

Publications Chair: Paul Fix, AngloGold Ashanti

Digital Media Chair: Peter O'Byrne, Target Synthesis

GSN BOARD OF DIRECTORS

David Caldwell, Phoenix Development Group

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David Shaddrick, Rubicon Resources

Robert Thomas, Independent Geologist

Mark Travis, Arkenstone Exploration

John Watson, Independent Geologist

EX-OFFICIO BOARD MEMBERS

Patricia Capistrant, Current GSN President

Anthony Gesualdo, Immediate Past GSN President

Ajeet Milliard, Elko Chapter President

Kris Alvarez, Winnemucca Chapter President

G.S.N. WINNEMUCCA CHAPTER OFFICERS

PRESIDENT: Kris Alvarez, i-80 Gold Corp

VICE PRESIDENT: Bryan MacFarlane, Hecla Mining Company

SECRETARY: Libby Witte, i-80 Gold Corp

TREASURER: Anthony Danciu, Hycroft Mining Corporation

MEMBERSHIP: JoAnn Newbury, NuLegacy Gold Corporation NV

G.S.N. ELKO CHAPTER OFFICERS

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VICE PRESIDENT: Nicholas Helfer, Rangefront Mining Services

SECRETARY: Stacey Leclerc, SRK Consulting

TREASURER: John Spring, Nevada Gold Mines

Membership Chair: Hillary Walker, Rangefront Mining Services

Thank you Geotemps!

The GSN would like to acknowledge Lance Taylor and Geotemps/Geopros Inc. for their continued donation of payroll processing for the GSN Executive Manager.



Thank you Outgoing Officers!

We want to give a giant, heartfelt “thank you” to those out-going officers who volunteered their valuable time to the GSN organization!

Anthony Gesualdo—GSN President (going on to BOD)

Kaitlin Sweet—GSN Membership Co-Chair

Melissa Boerst—GSN Membership Co-Chair

Luke Schranz—GSN Elko Chapter President

Sergey Konyshv—GSN Elko Chapter VP

Alexandria Monroe—GSN Elko Chapter Treasurer

Phil Zirbes—GSN Elko Chapter Secretary

Josie Kinzie—GSN Elko Chapter Membership Chair

Mining Activity Update

MARCH 2024, Mike Brady

LMBrady@aol.com

NEVADA

Kinross Gold Corp. announced that it acquired an option to earn a 60% interest in the PWC Property from Riley Gold Corp. for \$10,000,000 in exploration expenditures over 5 years. *Press Release:* March 14

Orla Mining Ltd. announced that recent drill results at the South Railroad/Pinion Project include 125.58-238.29 meters @ 0.72 gpt Au (PC23-01) and 97.54-126.49 meters @ 0.44 gpt Au (PC23-02). (resource = 28,925,000 tonnes @ 0.58 gpt Au measured+indicated) *Press Release:* March 7

Anglo Gold Ashanti Ltd. announced that based on recent drill results at the Merlin Project, resources aggregate 284,000,000 tonnes @ 0.99 gpt Au inferred. (no previous estimate) *Press Release:* February 26

Ivanhoe Electric Ltd. announced that it acquired an option to earn a 100% interest in the New York Canyon Property from Emergent Metals Corp. for \$300,000 in cash now and \$1,700,000 in cash and shares at a future date. *Press Release:* March 1

I-80 Gold Corp. announced that recent drill results at the Cove Project include 291.3-310.3 meters @ 22.6 gpt Au, 10.8 gpt Ag (iCHU23-37); 323.6-338.5 meters @ 32.9 gpt Au, 6.0 gpt Ag (iCHU23-38) and 274.9-285.9 meters @ 25.3 gpt Au, 4.2 gpt Ag (iCHU23-39). (resource = 1,007,000 tonnes @ 10.9 gpt Au, 20.1 gpt Ag indicated) *Press Release:* March 5

Fortitude Gold Corp. announced that recent drill results at the East Camp Douglas Project include 13.72-24.39 meters @ 1.05 gpt Au (ECDRC-119); 10.67-16.77 meters @ 0.41 gpt Au (ECDRC-129); 35.05-51.81 meters @ 1.58 gpt Au (ECDRC-134) and 38.1-50.29 meters @ 2.90 gpt Au (ECDRC-156). *Press Release:* March 11

Lithium Americas Corp. announced that it

received a \$2,260,000,000 conditional loan from the U.S. Department of Energy to help fund the Thacker Pass Project. The DOE's loan is contingent upon the successful review of the project under the National Environment Policy Act (NEPA) process. (resource = 1,153,600,000 tonnes @ 0.48% Li₂O measured+indicated) *Press Release:* March 14

Orla Mining Ltd. announced that it offered to acquire Contact Gold Corp. through a 0.0063 share Contact/1.0 share Orla exchange ratio. *Press Release:* February 26

Calibre Mining Corp. announced that reserves at the Pan Mine aggregate 24,634,000 tonnes @ 0.34 gpt Au proven+probable. (was 19,788,000 tonnes @ 0.37 gpt Au proven+probable) *Press Release:* March 12



Brines as a Resource for Critical Minerals

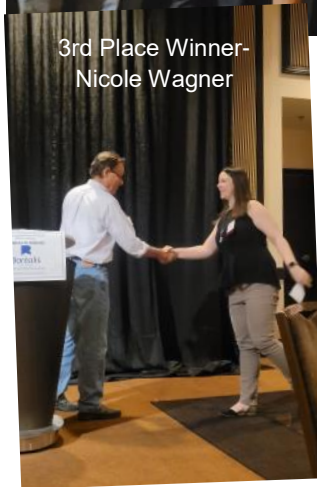
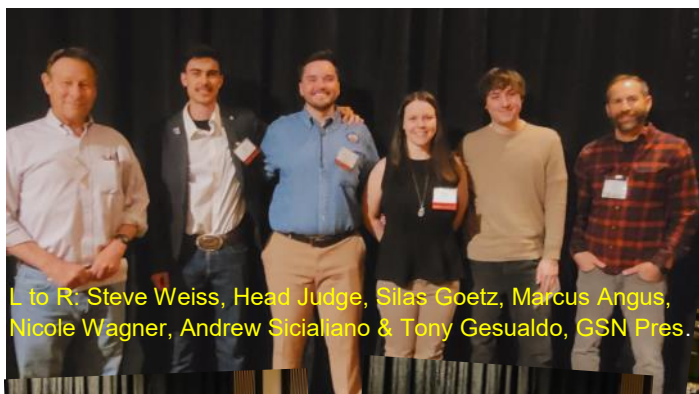
Spring 2024 Board on Earth Sciences and Resources & Committee on Earth Resources Joint Meeting

May 7 | 10:30am - 3:30pm ET

The National Academies of Sciences, Engineering and Medicine is having a hybrid in person and online meeting on Brines as a Resource for Critical Materials. Registration is free, and more details are available here:

<https://mailchi.mp/nas/brines-as-a-resource-for-critical-minerals-040324?e=efb0a21218>

APRIL 19TH STUDENT POSTER COMPETITION PHOTOS



THE GSN PICNIC is on FRIDAY, JUNE 7th in RENO!

The GSN Board of Directors is happy to announce that the annual members picnic will be held on Friday, June 7, at the Peavine Pavilion at Ranch San Rafael park in Reno, from 5-8 PM. We'll provide all of the burgers, hot dogs, salads, beverages and all the usual picnic stuff.

There are horseshoe pits as well as a volleyball court adjacent to the Pavilion for those interested in either of those activities. Horseshoes and the volleyballs are not supplied, however, so if someone can volunteer these items it would be much appreciated. We currently don't have a formal games program but if there are volunteers interested in organizing something by all means please contact Laura at gsn@gsnv.org.

As in past years this is a free event, but reservations are required so that we can plan properly for food and supplies. **Please RSVP no later than Wednesday, June 5th** to Laura at gsn@gsnv.org!

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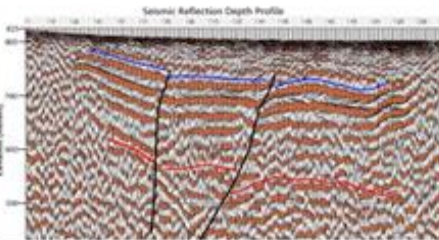


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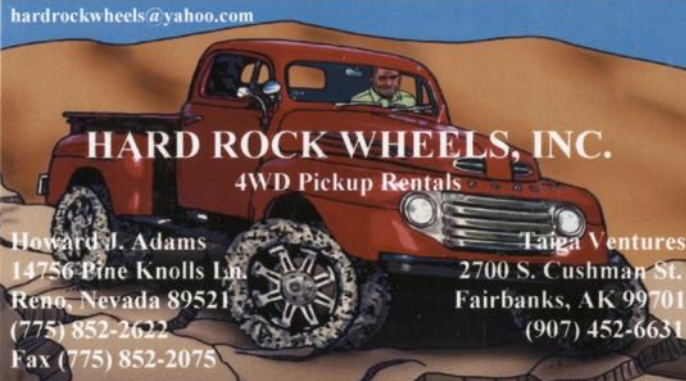
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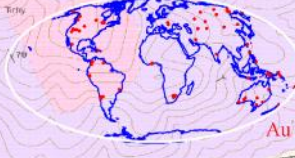
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