

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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SEPT. 14, 2022 WEDNESDAY

GSN WINNEMUCCA CHAPTER MEETING

The Winnemucca Chapter will hold their in-person meeting at the Martin Hotel, 94 W. Railroad St. **Speaker: Buster Hunsaker, Hunsaker Inc. Title: "Majuba Hill Copper Porphyry: Stacked Systems—Did Lightning Really Strike Twice?"**. **Sponsor: JUST REFINERS USA INC.** For questions, please contact Chapter President Nancy Wolverson at: nancyjeanw@aol.com. Details on pg. 6.

SEPT. 15, 2022 THURSDAY

GSN ELKO CHAPTER MEETING

The GSN Elko Chapter will kick off their fall meeting schedule at the Western Folklife Center, 501 Railroad St. **Speaker: Dylan Baldwin, Round Mountain Gold Corp, Kinross Gold. Title: "Progressive evolution from distributed to compartmentalized fluid flow: a refined model of formation for the Round Mountain, NV low-sulfidation epithermal Au-Ag deposit"**. **Sponsor: MCGINLEY & ASSOCIATES.** Please contact Elko President Justin Milliard: justin.b.milliard@gmail.com for more information. Details on page 7.

SEPT. 16, 2022 FRIDAY

GSN REGULAR MEMBERSHIP MEETING

The meeting will be held at our new venue: **The Hidden Valley Country Club, Reno, NV. Guest Speaker: Joe Mazumdar, Exploration Insights. Title: "What Makes a Mineral Critical?"**. **Sponsor: BOART LONGYEAR.** Dinner cost is \$50 at the new venue. Please register for dinner online OR send RSVPs to Laura Ruud: gsn@gsnv.org. [DINNER RESERVATION](#). Details on Pg. 3.

SEPT. 24, 2022 SATURDAY

3RD ANNUAL BRIAN MORRIS TRAPSHOOT

Winnemucca Trap Club, 501 E. 2nd St. 1-7 pm. Details on page 9.

OCT. 1-2, 2022 SAT. & SUN.

GSN FALL 2022 FIELD TRIP

- will visit the Monitor Mogul District
- o Zaca and Morningstar historic mines
 - o EPA tour of Leviathan Mine Superfund Site
 - o Bodie Hills

Details to come in an email blast soon along with a link to register! You can email the office to get your name on the list.

GSN SEPTEMBER RENO MEETING SPONSOR



BOART LONGYEAR™

FROM THE PRESIDENT
Kel Buchanan, GSN President 2022-2023
SEPTEMBER 2022

Our fall meeting schedule kicks off on September 16th at a new venue, Hidden Valley Country Club. There is ample and safe parking and more than enough room for our anticipated meeting attendance. The view of Mt. Rose from the large windows is a bonus.

Our invited speaker, Joe Mazumdar, enlightened us at the Symposium Keynote Luncheon and he has picked a subject, Critical Minerals, that is certainly topical.

In considering a new local venue (and the choices are shrinking), the GSN was forced to face the fact that inflation could affect our attendance at meetings, not only because of increased venue costs, but even the cost of transportation to get and from the meetings. We can't do anything about the latter, but we are doing something about the former.

For as long as is necessary this year, the GSN will subsidize the dinner costs no matter what facility we choose, and we will hold that cost at \$50 per attendee. As a further enhancement for our members, we are implementing a door prize for those members who make reservations. This month the door prize is a 1/10 OZ American Gold Eagle.

Despite some threatening showers, the Elko barbecue (thank you Mary Stollenwerk and ALS Global) last week was a great success, and well attended. I was quite intrigued by some of my conversations with attendees. Three of the geologists I chatted with were new to Elko. One geologist had just moved up from Las Vegas, another had lived in Elko for less than two years and was from Philadelphia and the third geologist, who graduated from Ohio State, moved to Elko three years ago.

One of the great things about being in our profession, and living in a state where minerals are abundant, is its attraction to folks from all over the country and even the world.

Kel Buchanan

GSN wishes to thank the sponsors of the Summer Silver Series!



We also want to thank our GSN Elko BBQ sponsors for August!



GSN MEMBERSHIP MEETING – SEPTEMBER 16, 2022

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

Sponsor: BOART LONGYEAR

**NEW LOCATION: 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:

JOE MAZUMDAR, EDITOR and ANALYST, EXPLORATION INSIGHTS
VANCOUVER, BC, CANADA

TITLE

“WHAT MAKES A MINERAL CRITICAL?”

Joe Mazumdar was the keynote luncheon speaker at the GSN Symposium on May 3rd of this year. For those of you that attended that luncheon, his address entitled “Ticking Through The Investment Clock” got a lot of attention, and Joe has graciously accepted our invitation to return to Reno to discuss another topic of equal importance to our industry.

Joe Mazumdar Biography:

Joe joined Brent Cook as co-editor and analyst of *Exploration Insights* in December of 2015 and transitioned into being the sole editor a couple of years later. Previously, he spent six years as Senior Mining Analyst at Haywood Securities and Canaccord Genuity in Vancouver, six years as Director of Strategic Planning, and Corporate Development at Newmont Mining (Denver) and two years as Senior Market Analyst/Commodity Trader at Phelps Dodge (now Freeport McMoRan, Phoenix).

Before becoming a mining market analyst, Joe worked for over a decade as an exploration geologist in different capacities for IAMGOLD, North Minerals, and RTZ in South America (Argentina, Chile, Peru, and Ecuador), MIM Exploration in Queensland, Australia, and Noranda and others in Western Canada (British Columbia, Yukon) and the Northwest Territories.



“FACES OF GSN”

Sarah Branch

Reno, Nevada

My parents are high school sweethearts from Greenville, California (yes, the same Greenville that was lost in the Dixie Fire last summer) and after they graduated from Chico State, they moved to Phoenix, Arizona because my dad, a civil engineer, got a job with the Bureau of Reclamation at the Salt-Gila Pumping Plant. Both my younger brother and I were born in Phoenix, but we moved to Nevada the summer between first and second grade. Leaving behind a house with a pool and an orange tree in the backyard was difficult, especially since it meant making new friends, going to new schools, and moving to the kind of desert that had the audacity to call itself such without a single saguaro cactus. But we soon learned that sagebrush has its own charms and that having wide open BLM land behind our already big backyard was a more than adequate substitute.

I was definitely a nerd in high school, active in Speech and Debate, Academic Team, National Honor Society, and Science Club and taking as many honors and advanced placement classes as I could. I was also one of the few girls my age who were still active in Girl Scouts. Being a Girl Scout gave me access to a wide range of opportunities, and the summers I spent at Camp Wasiu II near the Lakes Basin area of Northern California are still some of the happiest moments of my life. After graduating from high school, I even spent two full summers there as a camp counselor, and am still known in certain circles by my “camp name” of Robin Hood.



Girl Scout Wider Opportunity
dinosaur dig in Montana

Being a Girl Scout also helped set my career trajectory as an “-ologist.” In 1993, I was selected as one of 28 girls from around the country to participate in a “Dinosaur Dig” through the Museum of the Rockies in Bozeman, Montana. We spent a week learning about paleontology and excavating at the world-famous fossil beds at Egg Mountain near Choteau, Montana. We even got to meet Jack Horner, the paleontologist who was one of the advisors for Jurassic Park and is rumored to have served as the inspiration for the character of Alan Grant. I had loved dinosaurs since I was a little kid, and being able to live out my dream of actually digging them out of the ground convinced me. I was going to be a paleontologist.

Going to the University of Nevada, Reno and studying geology was pretty much a given. My undergrad advisor was Rich Schweickert, and I would like to think that my skills as a high school debater helped me convince him that it made perfect sense for me to also take biology, animal physiology, and physical anthropology along with my regular geology and paleontology coursework, but it’s more likely that these actually made more sense than the other electives I took like beginning ballet. Rich is also responsible for suggesting that I start attending GSN meetings, and I have now been a GSN member on and off for the last 25 or so years. I am also one of the grateful recipients of a GSN scholarship. When Jim Trexler announced in class that he was looking for an undergrad to work in the micropaleontology and biostratigraphy lab, I jumped at the chance. I was still working in the lab when Paula Noble joined the faculty at UNR, and I will be forever grateful for everything that she taught me about paleontology, micropaleontology, and being a woman in the earth sciences. She also served as the advisor for my undergraduate honors thesis on Mississippian and Devonian radiolarians from the Toquima Range in central Nevada.



UNR Field Camp 1999

It’s kind of ironic. When I would tell someone I wanted to be a paleontologist, more than half the time they would ask me if I were excited to go to Egypt to visit the pyramids. I would then try to patiently explain that no, I wanted to study Triceratops and not Tutankhamun. So I was as surprised as anyone that I ended up growing up to be a professional archaeologist.



Jim and Sarah at Chaco Canyon

After graduating with my B.S. in Geology in 2000, I spent several years working retail and trying to figure out my next steps. One of those steps was marrying another Mackay School of Mines graduate, Jim Branch. It doesn’t seem possible, but we will be celebrating our 20th wedding anniversary this October. In 2004, I was presented with the opportunity to participate in the archaeological excavation of a late nineteenth-century ranch complex in Washoe City, Nevada. My training as a geologist and experiences excavating dinosaurs in high school were easily adapted for use in archaeology and I quickly realized that while I loved paleontology, archaeology provided me with an opportunity to still work outside, but also do the type of deep dive research into little- (cont. on pg. 5)

known aspects of history that I crave. It also turned out to be the perfect time to decide to be an archaeologist, as the company doing the data recovery project, MACTEC Engineering and Consulting, was short-handed at the time because the archaeology lead had left to start his own company. This is how I somehow turned a two week temporary field position into the full time job that I held for the next 11 years.

Learning archaeology and Section 106 on the job was amazing, and I owe so much to the people I worked with who were willing to share their knowledge and experience with me. My first boss and mentor, Vickie Clay, also had a background in geology and her approach to archaeology as the study of both the people and the landscape still guides me today. I also learned crucial rules of fieldwork that I still share with anyone who will listen, the most important of which is “never be separated from your lunch.” After a few years working on numerous BLM Class III surveys, architectural history surveys, and data recovery efforts, it became clear that to continue growing as an archaeologist, I would need to continue my formal education and get a Master’s degree. Luckily enough, along with a world-class earth sciences program, UNR also hosts an excellent anthropology and archaeology department.

For the next several years, I balanced work (now under the AMEC banner) and grad school, again finding that the connections between geology, paleontology, and archaeology went much deeper than a shared appreciation of a career outside and a nice cool beer at the end of a field day. For my thesis, I was able to combine my geology and archaeology backgrounds by using XRF to chemically source fine-grained volcanic stone tools from the Pah Rah Range to help identify and elucidate patterns in prehistoric mobility, lithic procurement, and settlement in the region. I earned my M.A. in anthropology in 2014, and about two weeks later I, and everyone else in the Reno AMEC office was let go. Because we had on-going projects, I managed to keep working until December before I finally signed my exit paperwork. I was immediately hired back as an “on-call” employee, and I stayed at what was now Amec Foster Wheeler until the spring of 2015, when I was hired at ASM Affiliates. I was privileged to serve as the Co-Director for the Reno office from 2016 onward. I also expanded my involvement in the local archaeological community, joining the board of directors for the Nevada Archaeological Association in 2017 and serving as the Treasurer since 2018. In late 2020, I joined the staff at Broadbent & Associates, and in some ways, it has brought my career full-circle. One of the archaeologists from that first dig in Washoe Valley, Margo Memmott, is the cultural lead for Broadbent, and I am back with a company with a strong connection to both the Mackay School of Mines and the mining and geological community in Nevada.



Digging dinosaurs in Montana



Digging square holes

As much as I still love dinosaurs, I have loved being an archaeologist more. Some of my favorite experiences have included recording rock art and rock shelters near Fallon, exploring old mining camps like Weepah and Silver King, and being the monitor on site when the backhoe uncovered a relatively intact 15-inch Rodman cannon emplacement at the Presidio in San Francisco, California. My work has taken me all over Nevada, and I enjoy the challenge that comes with finding ways to balance the protection and management of cultural resources with the needs of vital industries like mining. I am still excited every time I find a projectile point, and I still kind of have to convince myself that my job really does involve hiking in amazing locations looking for cool “old” things.



Meeting Jack Horner at the Museum of the Rockies



Archaeological monitoring PPE in the time of Covid



Working in the Micropaleontology and Biostratigraphy Lab at UNR



GSN WINNEMUCCA CHAPTER NEWS



Meeting Date: September 14, 2022

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

Meeting time: 6 pm for appetizers and beer

Talk time: 7 pm

Speaker: E. L. "Buster" Hunsaker III, Hunsaker Inc.

Talk Title: *Majuba Hill Copper Porphyry: Stacked Systems-Did Lightning Really Strike Twice?*

Sponsor: Just Refiners USA, Inc.



540 & 620 Greg St., Sparks, NV; Website: www.justrefiners.com; Phone: 775-331-1663

Abstract:

**Majuba Hill Copper Porphyry:
Stacked Systems-Did Lightning Really Strike Twice?**

E.L. "Buster" Hunsaker III, Elko, NV
Molly M. Hunsaker, Reno, NV

Majuba Hill is a porphyry copper project in Pershing County in northwestern Nevada. Majuba is 56 miles southwest of Winnemucca and 156 miles northeast of Reno, Nevada. Copper, tin, and silver mining started at Majuba in the early 1900s with production into the 1950s. Historic mines in and around Majuba produced 2.8 million pounds of copper, 184,000 ounces of silver, 21,000 pounds of tin, 885,000 pounds of lead, 106,000 pounds of zinc and 5,800 ounces of gold.

A staged exploration program has built off the historic work using drilling, geophysics, and soil geochemistry. The work demonstrates that Majuba Hill is a porphyry copper deposit with a much larger footprint than was previously recognized. Results from deep drilling in 2021 and 2022 strongly indicate two stacked porphyry copper events.

Copper (plus silver-gold-molybdenum-lead-zinc) mineralization is strongest in the phyllic to potassic zones. To evaluate mineral potential, mineralized envelopes were constructed from all current and historic drilling using 20 meter voxels and a 1/d2 algorithm to put grade in voxels. Using a 0.06% Cu cutoff, a non NI43-101 compliant mineral estimate of the copper mineralization at Majuba Hill outlined almost 200 million tons averaging 0.14% to 0.18% CuEQ (Cu, Ag, Au, Mo, Pb, and Zn). Using a 0.16% cutoff, it outlined approximately 40 million tons that averages 0.24% to 0.33% CuEQ in the mineralized central area. This mineral potential estimation indicates that adding step-out drill holes and holes in the areas with no drilling could lead to a 3x to 5x increase in the mineralized volume.

Majuba Hill is a prominent circular topographic edifice that stands out above the surrounding Antelope Range. It is the remaining remnant of multi-stage, overlapping, complex intrusive episodes comprised of a subvolcanic-hypabyssal rhyolite intrusive to volcanic assemblage; granodiorite to dacite intrusives; mafic dikes; and granitic intrusives. All the intrusives are strongly altered with mineral assemblages ranging from propylitic to phyllic to potassic.

Recent and historic age dating has returned Oligocene (25.57 ± 0.91 Ma) from cassiterite U-Pb LA- ICP-MS; Oligocene (24.63 to 25.7 Ma) from K-Ar/rhyolite; Eocene (39.4 Ma) from Re- Os/molybdenum in rhyolite; and Jurassic (164.7 ± 0.7 Ma) from Re-Os/molybdenum in potassic granite. Zircon and Ar39-Ar40 dating are in progress.



GSN ELKO CHAPTER NEWS



The Elko GSN Chapter is excited to have Dylan Baldwin of Kinross Gold giving the first presentation for the fall season on Round Mountain. McGinley and Associates is generously sponsoring the meeting.

**Western Folk Life Center
Thursday, September 15th**

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

Title: Progressive evolution from distributed to compartmentalized fluid flow: a refined model of formation for the Round Mountain, NV low-sulfidation epithermal Au-Ag deposit

**Presenter: Dylan Baldwin, Exploration Manager
Round Mountain Gold Corp, Kinross Gold**

Abstract:

The Round Mountain deposit is an epigenetic low-sulfidation epithermal (LSE) Au-Ag system hosted by, and genetically related to, volcanic and sub-volcanic units of the Oligocene-age Toquima Caldera complex. The complex lies within the Western Nevada Volcanic Field, a rhyolitic volcanic province formed at the culmination of "ignimbrite flareup" volcanism associated with SW-younging slab rollback of the Farallon plate during the Eocene-Miocene period. The deposit is a massive arcuate veinlet and disseminated orebody with a WNW-elongate arcuate footprint of $> 3 \times 1.8$ km which formed around 26.3 Ma, less than a million years after eruption of the host rock sequence. Aside from a small exposure of sinter atop Round Mountain hill, which stood over 150m above the pediment gravels covering the main deposit, the upper portions of the system were eroded prior to discovery, leading to formation of large placer Au deposits. Recent mining and drilling in the western pit area, in the hanging wall of down-to-the-west Basin and Range normal faults, has for the first time allowed a full top to bottom exposure of the mineral system, and improved understanding of the deposit.

In many ways, Round Mountain has typical characteristics of LS epithermal deposits - mineralization occurs within 600m of the paleo water table; fluid inclusions and vein/alteration mineral assemblages indicate temperatures < 300 °C, and low-salinity, near-neutral pH fluids; and there is evidence for vein/fault surface interaction. The exceptional characteristics of the deposit, specifically the immense tonnage of "true" disseminated mineralization, the geometry and continuity of bonanza veins, and the vertical interval of economic mineralization, are the result of a unique combination of stratigraphy, structure, and sources. YE 2021 proven and probable reserves at Round Mountain are 3.037 Moz Au, and exploration continues to add to the endowment of this world-class orebody, which has produced > 16 Moz Au to date.

Please see the speaker's and sponsor's websites for more information

Kinross

Round Mountain is a long-life, open-pit mine located in Nevada, one of the top mining jurisdictions in the world. Round Mountain uses conventional open-pit mining methods and processes ore by mill and heap leach.

In January 2016, Kinross acquired the 50% of Round Mountain it did not already own from Barrick Gold, consolidating ownership of one of Kinross' best run and established mines. The Company continues to advance promising initiatives to optimize the operation and potentially extend estimated mine life.

Kinross began operating the mine in 2003, and it has since become a continuous improvement leader in the Company's portfolio. Round Mountain poured its [15 millionth ounce](#) in 2018.

(continued on page 8)

Kinross Exploration

In 2021, approximately 792 Au koz. were added to Round Mountain's proven and probable mineral reserves, after depletion, mostly due to the Phase S pushback in the south area of the pit. In 2022, exploration activities at Round Mountain will be focused on construction of a drift for underground exploration drilling at Phase X, and surface exploration work at Gold Hill.

In 2022, Kinross is budgeting \$16 million for the construction of a drift for underground exploration drilling at Phase X and surface exploration work at Gold Hill and the Round Mountain district.

The Round Mountain exploration program will continue to test new vein zones and extensions at Gold Hill, with the goal of building a mineral resource estimate. The Phase X program will test critical extensions and upside potential, with near-mine and regional exploration work continuing in 2022.

- 2021 Proven and Probable Reserves 3,037 Au koz.(as of December 31, 2021)

2021 Measured & Indicated Resources 2,989 Au koz.

<https://www.kinross.com/operations/#americas-roundmountain>

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- Air Quality Engineers and Specialists
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With current NCEES Records on file, McGinley & Associates is able to quickly obtain comity/reciprocity licensure in any state.

<https://mcgin.com/>



GSN Elko Chapter members enjoying beer, music by Stefan Beck, and a fabulous grilled and home-cooked smorgasbord provided the crews at ALS Minerals and TerraCore at the August 18th BBQ. (This was taken before the lightning and downpour!) A few more photos are on the bottom of page 9.

NEWS FROM THE FOUNDATION

By Cami Prenn, GSN Foundation Chair

It doesn't feel like fall yet but school is back in session so we know cooler days are coming. Along with school starting up, the Foundation is already receiving applications for the K-12 Field Trips. If you know any teachers who would like to apply, please direct them to the **Foundation page** on the GSN website (www.gsnv.org). Field trips were curtailed the last two years and we'd like to see the program get going again.

The Foundation will also be holding their 3rd Annual Trap Shoot fundraiser to benefit the Brian Morris Scholarship fund. See below for the details! [TRAP SHOOT REGISTRATION](#)



BRIAN MORRIS MEMORIAL TRAP SHOOT 2022

SAVE THE DATE

SEPTEMBER 24, 2022
WINNEMUCCA TRAP CLUB
5001 E SECOND STREET, WINNEMUCCA NV
1 PM REGISTRATION

\$150 PER TEAM - 2-MAN 'BUDDY FORMAT'
.12 GA AMMUNITION, FOOD & DRINK INCLUDED

to register your team or for info on sponsorship please email briantrapshoot@hotmail.com



GSN Elko President, Justin Milliard making announcements while Stefan Beck pauses from making music for the crowd.



ALS Elko Branch Manager, Dan Smith doubles as grill-master extraordinaire!



We were happy that our 2021-22 GSN President Patsy Moran was able to attend the Elko BBQ. Our 2022-23 President Kel Buchanan presented her with the traditional gold pan award. Thank you for your service to GSN Patsy!

GSN SILVER SUMMER SERIES

The GSN was again honored to have Doug Silver as the guest speaker at the summer event that bears his name, the “Silver Summer Series”! He entertained us with his insights on the craziness of the world and shared a lot of graphs and datasets to back up his thoughts.

Last year we had smoke-filled skies for this event and this year we were challenged with rain showers off and on throughout the evening. As usual, **Dan Kappes (Kappes, Cassiday & Associates)** was a most gracious and generous host, providing a wonderful catered BBQ dinner served in his garage this year! He then opened up his whole house for the 100+ attendees to listen to Doug’s talk indoors and out of the rain. Thank you DAN!!

We also would like to thank **RESPEC** for donating the Great Basin beer kegs again, **MRC, INC.** for supplying some wonderful bourbons at the “tasting table” and **GEOTEMPS/GEOPROS INC.** for donating a great selection of wines for the evening. Please always keep in mind that the event wasn’t “free” but was paid for by our generous host and sponsors!



Bob Felder and Rich DeLong



Doug Silver giving his talk to the attendees in Dan’s house plus to those listening via the sound system Dan and Jim set up out on the deck and in the garage!



Doug Silver answering questions from the crowd after his talk.



Everyone enjoyed the bourbon tasting table compliments of MRC Inc.! The wine was provided by GETOEMPS/GEOPROS Inc.



Famous Dave’s catering in the rain!



Rain coming down as “hardy” guests arrived!

Mining Activity Update

Mike Brady, JULY 2022

LMBrady@aol.com

NEVADA

I-80 Gold Corp. announced that recent drill results at the Ruby Hill Project include 330.6-353.0 meters @ 8.2 gpt Au (IRH22-06) and 463.6-496.8 meters @ 19.8 gpt Au (IRH22-06). (resource = 2,818,000 tonnes @ 5.46 gpt Au, 9.5% Zn, 3.7% Pb, 185 gpt Ag inferred) *Press Release: July 12*

Rex Minerals Ltd. announced that recent drill results at the Hog Ranch Project include 0-147.83 meters @ 0.62 gpt Au (HR22-018). (resource = 35,000,000 tonnes @ 0.49 gpt Au indicated) *Press Release: July 19*

Canagold Resources Ltd. announced that it sold the Hot Springs Point Property to an undisclosed party for \$480,000 cash. *Press Release: July 7*

Calibre Mining Corp. announced that recent drill results at the Gold Rock Project include 253.9-290.47 meters @ 1.74 gpt Au (GCM21-01); 9.6-14.63 meters @ 0.96 gpt Au (GC21-04); 248.41-294.13 meters @ 2.01 gpt Au (GR21-02) and 292.61-307.85 meters @ 0.50 gpt Au (GR21-03). (resource = 10,000,000 tonnes @ 0.66 gpt Au indicated) *Press Release: June 29*

Tertiary Minerals plc. announced that due to discouraging exploration results, it is terminating its interest in the Pyramid Property. *Press Release: July 15*

Blackrock Silver Corp. announced that recent drill results at the Tonopah North Project include 21.34-25.91 meters @ 0.05% Li (TN22-02); 36.58-41.15 meters @ 0.03% Li (TN22-03); 35.05-39.62 meters @ 0.04% Li (TN22-05) and 51.82-74.68 meters @ 0.05% Li (TN22-06). *Press Release: July 11*

Blackrock Silver Corp. announced that recent drill results at the Tonopah West Project include 583.9-588.5 meters @ 0.63 gpt Au, 148.1 gpt Ag (TXC22-052) and 440.1-440.4 meters @ 1.81 gpt Au, 127.0 gpt Ag (TXC22-054). (resource = 2,975,000 tonnes @ 208 gpt Ag, 2.5 gpt Au inferred) *Press Release: July 14*

BABY ANNOUNCEMENTS

OLIVER AND FELIX KONY\$HEV

GSN Members Sergey and Leilani Konyshv have two boys now! Oliver was born in 2020 and brand new baby Felix arrived just last month! Congratulations to the whole family!

Oliver: Oliver "Ollie" Wyatt was in a hurry to get here and arrived two weeks early while dad, Sergey, was on a work trip in Yellowstone. Dad made it just in time for mom to start pushing and on Saturday, September 26, 2020, Ollie was born at 11:02 am, weighing in at 7 lbs 1.5 oz and 19 inches long.

Felix: Like his brother, Felix James wanted to join us a little earlier than expected. This time dad was only 4 hours away on shift in Elko when he got the call to come home early. Felix was born at 2:17 on Tuesday, August 9, 2022 and weighing in at 7lbs 2.1 oz and 19 in long.



Ollie with his Dad, Sergey



The new addition to the family,
Felix James Konyshv



Ollie with his new baby brother, Felix

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

<https://www.gsnv.org/my-account/>



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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- ☐ 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: \$

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.

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

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Website: www.gsnv.org

The Renaissance Climb

There are just some people who show resilience in the face of diversity and I am about to describe a local GSN member who did just that.

Ron Parratt, a GSN member of long standing and an outstanding exploration geologist (Long Canyon), had secretly harbored a desire to climb Mt. Kilimanjaro. He needed a companion. His son, Ron Jr., who lives in Colorado, agreed to join him and the hiking practice began. Ron spent most of the summer of 2021 hiking up and back on Mt. Rose to get in shape, and Ron Jr. did the same in Colorado. They were ready to tackle the highest mountain in Africa.

They weren't ready for Covid. A week before they were to depart, Ron Jr. came down with the virus, went into quarantine, and the trip was off. All that work for nothing.

Ron was soon to become the incoming President of SME and the question was, could he even find the time to get into the kind of shape required for the climb, and still carry out his SME duties? The answer lies in the photo below.

Early in the morning of August 14th, 2022, Ron Parratt and son Ron Jr., are pictured at the top of the mountain, looking none the worse for wear and grinning at the completion of their climb.



OBITUARIES

John Robert King 1945 – 2022



John R. King passed away on July 19, 2022 at the age of 77 after a valiant fight with congestive heart failure. He was born on May 14, 1945 in Denver, Colorado and followed in his father's footsteps by becoming a geologist. He graduated from Oregon State University with a B.S. in Geology and M.Sc. in Economic Geology.

John began his career in the mining industry in 1966 as a driller's helper working in the presently designated Absarokee Wilderness Area in Wyoming and became a geologist in 1970. During the next fifty plus years he worked for ASARCO, Anaconda Copper Company, ARCO Coal, Colosseum Gold Mines, Rio Gold Mining, Gold Express Corporation, Rio Madrid Gold Mining Company, Echo Bay Mines, and Ascendant Copper Corporation in various executive positions.

John loved porphyry systems and was involved in the discovery of the Charleston porphyry copper deposit near Tombstone, Arizona, and the Silver Creek porphyry molybdenum deposit in Rico, Colorado. He also managed and advanced the Copper Flats project in New Mexico, and the Chauca copper project in Ecuador. John is also credited with the modern discovery of the Summitville gold project in southern Colorado.

While at Anaconda (1978-1986), John served as Southwest District Manager, directing exploration and pre-production projects for both base and precious metals in North America and built his team into Anaconda's best funded and most successful district. At one point, John supervised more than 100 people as the Summitville project advanced towards feasibility. This led to a promotion to Anaconda's Acquisition Director, where John designed and managed the first fully-dedicated acquisition team in the mining industry.

John applied his acquisition and negotiating skills helping Anaconda divest of its mineral assets and developing new business leads while at Echo Bay Mines.

After decades working for large mining corporations, John widened his horizons in 1996 and became an exploration consultant working with several companies designing and executing exploration programs around the globe. One of his noteworthy accomplishments was assisting the Australian industrialist, Alan Bond, purchase and advance the Colosseum gold mine in California. He also helped countless other entrepreneurs identify, evaluate and advance porphyry copper projects in South America. This work allowed John to continue his joy of travel while also mentoring young explorationists in all aspects of the exploration and development process.

John was a Senior Fellow of The Society of Economic Geologists and has been published in several scientific geologic journals.

John met his wife Shirley Jaramillo while at Anaconda in 1980 and they married in 1983. If you asked John what his greatest life accomplishment was, he would tell you it was Shirley, his three children Ian, Denholm and Heather, and his three grandchildren Jocelyn, Makenna and Beckett.



Nevada Mineral Exploration Coalition (NMEC) 2022 Great Basin Rendezvous September 9th through 11th, 2022



The 2022 Great Basin Rendezvous (GBR), hosted by the Nevada Mineral Exploration Coalition (NMEC), is again live and in person September 9th through 11th at the Royal Peacock Opal Mine (Mine) near Denio, Nevada.

While GBR 2022 events are still in the planning stages, we do have the band that got us off our feet last year returning for this year! The band is an added gift from Julie Wilson, the owner and operator of the Mine. This band, The Summer Tusk out of Oregon, was a wonderful addition last year (even Dave Shaddrick was shaking his "bootie") and now that they know us, will "rock" again this year. Also in the planning stage is a potential field trip around the Virgin Valley caldera and the Warm Springs Campground located nearby in the Sheldon National Wildlife Refuge.

Of course, digging in the mine face or sifting through the tailings is always a favored option for those lusting after the Mine's world-famous precious black opal. Or, if you just desire to hang out with your colleagues, the campground at the mine is the most peaceful place in the world located in the heart of Virgin Valley.

The Mine has been owned and operated since the 1940s by a single family and offers precious black and white opal digging for a discounted fee to GBR participants. There are 60 dry camping spaces and RV/trailer spots with 30- or 50-amp hook-ups. Quality bathroom and shower facilities are available. We'll gather around the fire ring in the evening near the large grassy area. Famous opals found here include the [Northern Lights Delight \(also called "the shoe"\)](#) and the massive Ginkgo Log. At 130 pounds, the Ginkgo Log is among the largest precious opals ever found anywhere in the world! It was found by a customer in the late 1990s. Check out their website: <https://www.royalpeacock.com>

We are looking for dinner, breakfast and drink sponsorships for this year, as well as donations towards the campground fees. We have had great success in the past with generous sponsorships that have provided amazing breakfasts, dinners and cocktails.

All this, and the price is still the same. Your registration fee will cover dry campsites for tents or small trailers needing no hookups. Members will pay \$20.00 plus \$10.00 for each additional family member over age 12. Non-members will be charged a base fee of \$120.00 which includes a 2023 NMEC membership (and the remainder of 2022). The charge for larger trailer sites requiring 30-amp hook-ups is \$40.00 per night and 50-amp hook-ups is \$45.00 per night and will be over and above the registration fee. You must call the Mine directly at **(775) 941-0374** to reserve one of these spots.

We have been given a discount rate for digging at the Mine. Digging in the fresh cut-face will cost \$150 and sifting through the mined tailings is \$50. Last year, the most beautiful finds came from sifting through the tailings.

Please contact Warren Thompson at wfthompson@frontiernet.net if you have any questions about camp logistics. If you or your company is interested in sponsorship, please contact Catherine Lee at clee@westlandresources.com or Joann Newbury at jnewbury.consulting@yahoo.com.

September 6, 2022 Arizona Geological Society Speaker Series 2022 via Zoom. Speaker: Tim Marsh, Ph.D., President/CEO, Bell Copper Corporation. Title: "Bell Copper's Big Sandy Copper Porphyry Discovery". Time - 6:30 PM MST (PT) (zoom event opens at 6:15 PM)

Zoom: <https://arizona.zoom.us/j/86925280748> Passcode: AGS-2022

September 7-10, 2022 Nevada Mining Association Annual Conference, Harrah's, Lake Tahoe, NV.
"NEVADA: THE WORLD'S PREMIER MINING JURISDICTION" <https://www.nevadamining.org/convention/>

September 5-9, 2022 WMESS 2022 - 8th World Multidisciplinary Earth Sciences Symposium, Prague, Czech Republic. Website: <https://mess-earth.org/index.html>

October 4, 2022 NMEC Annual Meeting. SAVE THE DATE! <https://nvmeec.org/2022-ames>

October 9-12, 2022 Geological Society of America Annual Meeting. Connects 2022. Denver, CO.
Website: <https://community.geosociety.org/gsa2022/home>

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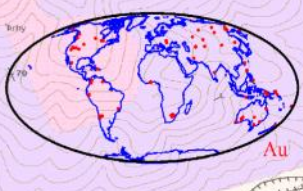
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GSN TRAVELLING BACKPACK PHOTOS

Thank you to Nancy Wolverson for submitting the very first “Travelling Backpack” photo featuring the new GSN 2022 backpack that attendees received at the Symposium in May 2022. Nancy was attending a field trip during the AIPG’s Annual Conference in Michigan last month where she ran into fellow GSN Member, Mark Stock on the trip!



Nancy Wolverson and Mark Stock at the Eagle Nickel Mine portal near Marquette Michigan (August 7, 2022).