



GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

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

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



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CALENDAR OF GSN EVENTS

Due to the Coronavirus pandemic, we are sad to tell you that the Geological Society of Nevada will not be holding any meetings IN PERSON until further notice. We will keep the Members informed if there are changes in the coming month.

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David Shaddrick
Camille Prenn

NO MAY MEETING

SO. NEVADA CHAPTER MEETING—NO MAY MEETING

Please see the message on page 7 from your President, Joshua Bonde for more information: paleo@lvnhm.org.

NO MAY MEETING

WINNEMUCCA CHAPTER MEETING—NO MAY MEETING

Please see page 7 for a message about volunteering for your Chapter. Contact President, Robbie Anderson at: Robbie.agau@gmail.com.

NO MAY MEETING

ELKO CHAPTER MEETING—NO MAY MEETING

Please see page 7 for a message from your Chapter Officers. Contact Diane Cheung-Harris for more info. dianehcheung@gmail.com.

May 15, 2020 FRIDAY VIA ZOOM!

GSN MEMBERSHIP MEETING (VIRTUAL MEETING VIA ZOOM!)

The GSN's May meeting will be held via Zoom! Drinks at your home 5:30 pm, Talk begins at 6:00 pm. Speakers are Chris Dail and co-authors with Midas Gold Idaho Inc.. Title: "The Stibnite Gold Project Stibnite-Yellow Pine Mining District, Valley County Idaho Exploration and Restoration Aspects of Bringing an Old District Back to Life".

*GEOLOGISTS:
Social Distancing and
crushing COVID-19!*



Dan Pace at Majuba Hill,
GSN Spring 2014 Field Trip

FROM THE PRESIDENT
Dennis Bryan, GSN President 2019-2020
MAY 2020

Well, this is my last chance to address you all. I have been privileged to serve as President of GSN during this past year and it seems to have gone so fast. It started out as just another typical year catering to, what we perceived at the time, as being important issues and informative programs for our members. Wow, how times have changed. Last year we could never have envisioned such an upheaval of our lives and activities. The coronavirus will likely change a lot of things we have taken for granted. Let's hope and pray the worst is behind us and we can all go back to some semblance of normality soon. (gargling with Clorox or Lysol has unfortunately been found not to be a miracle cure).

I would like to thank the other members of the Executive Committee for their help this past year: Mary Stollenwerk - Vice-President, Steve Weiss – Secretary, Bob Kastelic – Treasurer, Kelsey Sherrard and Patty Capistrant – Membership Chairs, Ruth Carraher – Publication Chair, and Peter O'Byrne – Digital Media Chair (newly established this year). On behalf of all our members I want to thank each of them for their service. And of course, a special thank you to Laura Ruud, GSN Executive Manager, for all the time she devotes to making sure everything runs smoothly.

As you must know by now, GSN has rescheduled the Symposium for May 2021. As for possible events this summer, keep checking your email. But as of right now those old curmudgeons on your Board of Directors are still planning their annual picnic in June (see announcement). This could be a real longshot. (if it goes, they will likely be taking temperatures at the gate, handing out used sample bags to put over your head and instructing everyone to stay 1.83 m apart when getting that veggie burger - which might be the only meat available). And would anyone have to worry about underlying conditions? (Having a background in Sheep Dip, if anyone were to refer to an underlying condition at a picnic before this pandemic thing started, I would have assumed they were talking about participants playing nooky on the picnic tables).

Oh, by-the-way, did I mention Mary Stollenwerk is taking over the Presidency starting the first of June? Mary is already lining up speakers for the Fall, and rumor has it we'll even be trying for a "Silver Series" in August, Lord willing and the creek don't rise. Stay tuned!

And we'll just have to wait and see about a possible Fall field trip to be organized by our new V.P., Patsy Moran. (Buses are like cruise ships in a way. You're in close quarters but as long as you can hold your breath between stops, I don't see an issue. Another possibility, of course, is for each participant to drive their own vehicle. Would look like a long funeral procession).

AND we have decided to have a May GSN member meeting after all, at the usual time, the evening of the third Friday, May 15th. But no need to wear a face mask, find a pair of gloves, pack disinfectant wipes or bring all that other PPE stuff. It's a ZOOM meeting. I've participated in a couple of ZOOM meetings now and they're really cool! The details are outlined elsewhere in this newsletter and I'm leaving it to others who can navigate this new digital reality to organize it, but you'll be able to see my mug for a short time. (You may want to check the adequacy of your toilet paper supply). Eric and the Symposium Committee is also planning ZOOM meetings in the near future, so stay tuned.

And off the subject slightly, I want to put in a plug for Doug Silver and his quest to raise funds for the National Mining Hall of Fame. It certainly is a great cause and Doug has been a bold contributor to the relevance of investing in our industry for some time. To find out more go to their website at mininghalloffame.org.

And remember, GSN is still functioning, just remotely. Laura is securely ensconced at home taking care of business. Likewise, the officers, board and committees of GSN continue their obligations as well. I cannot express my admiration enough for Laura and all the dedicated volunteers within GSN who make this organization something to be proud of.

Be safe and hope to see all of you on the other side!

Dennis

GSN MAY 15th MEMBERSHIP MEETING VIA ZOOM!!

Speakers: Chris Dail, A. Zinsser, K. Merkley and D. Kline

Midas Gold Idaho, Inc.

**Title: “The Stibnite Gold Project
Stibnite-Yellow Pine Mining District, Valley County Idaho
Exploration and Restoration Aspects of Bringing an Old District Back to Life”**

When: Friday, May 15, 2020—Talk begins via Zoom online at 6:00 p.m.

PLEASE WATCH YOUR EMAIL ON MAY 11TH FOR YOUR ZOOM MEETING INVITATION!

For more information please contact Peter O’Byrne, GSN Digital Media Chair at:

Peter.OByrne@outlook.com or Laura Ruud at: gsn@gsnv.org

**The Stibnite Gold Project
Stibnite-Yellow Pine Mining District, Valley County Idaho
Exploration and Restoration Aspects of Bringing an Old District Back to Life**

**Dail, C., Zinsser, A., Merkley, K., Kline, D.
Midas Gold Idaho, Inc.**

Abstract

Introduction (Chris Dail, Exploration Manager)

The Stibnite Mining district in central Idaho was the dominant U.S. producer of antimony and tungsten from sulfide milling operations during WWII and the Korean War and produced gold as a by-product. It supplied over 90% of the antimony and 40% of the tungsten for the Allies during WWII. Subsequently, precious metals were produced in the 1980s-1990s from oxidized sediment-hosted ores and processed by heap-leach methods. Stibnite hosts the largest gold reserves and resources of the numerous projects currently undergoing exploration in the highly competitive Idaho gold scene. It also hosts the largest antimony resources and reserves outside China and Russia. As with most old districts with significant past production, there were many operators and methods of exploration, drilling, sampling and development throughout the life of the District. This talk will describe some of the exploration, environmental assessment and development aspects of Midas Gold Idaho’s (MGII) efforts to redevelop the district.

Early 20th century exploration in the District relied on conventional prospecting, but because of heavy glacial cover and lack of efficient drilling methods exploration was typically conducted via driving of underground exploration tunnels. Much of the data from these early efforts were preserved and reconstruction of workings from the 1920s-30s led to the first discovery hole at Hangar Flats in 2009 which intersected 238.4m (782ft) of 2.1 g/t Au, 3.5 g/t Ag, 0.24% Sb and significant low grade tungsten. MGII District exploration has utilized conventional -80 mesh stream sediments, soils, rock chip sampling and various airborne and ground geophysical methods and integrated with the extensive datasets. Some examples of the successful integration of old and new data as it applies to exploration will be provided.

Drilling and Resource/Reserve Estimation (Austin Zinsser, Senior Resource Geologist)

Project development has entailed multiple rounds of resource definition drilling, geological modeling and resource estimation. Throughout this process, MGII has systematically evaluated legacy drilling data for use in (CONT. ON PAGE 4)

ABSTRACT (CONT. FROM PAGE 3)

geologic, alteration and resource estimation work. MGII use of old drill data was predicated on many factors including, but not limited to type of drilling, reported recoveries, presence or absence of orientation bias, assay methods and lower detection limits. Evaluations included detailed statistical and manual comparison of datasets and reconciliation to legacy production. Improved geological models incorporating oriented core data have further improved confidence in resources and supporting datasets. Some examples of the methodologies applied to our evaluations will be provided.

Legacy Environmental Evaluations (Koda Merkley, Project Geologist)

Extensive environmental impacts inherited from WWII-era activities have left the former production sites and surrounding areas heavily impacted. MGII has made a concerted effort to locate and digitize any available maps and records to assist in site environmental characterization. Over time and with considerable efforts a working legacy feature GIS has been developed and has been populated from information gleaned from old maps, photographs, files and reports, interviews with former workers and residents, national archive records searches, FOIAs and Public Records Requests. This work has uncovered some fascinating facts about the people and history of site development over the past century. However, its primary purpose is: (1) to assist in providing background information for NEPA and permitting needs; (2) to inform site health and safety plans; (3) provide for more accurate cost estimation for removal and/or management of legacy features; (4) assist in mine and construction planning and other purposes so that there are as few surprises as possible during construction and later operations and closure should a development decision be made after permitting. The legacy material management system is still a work in progress, but this section will provide a snapshot of the system.

Development and Reclamation Planning (Dan Kline, Restoration Manager)

As with any brownfield site, permitting for the redevelopment of the district comes with challenges. Extensive environmental impacts inherited from WWII-era activities have left the production sites and surrounding areas heavily impacted. Knowing this, the Midas Gold team, with eyes wide open, has developed a mine plan focused on restoration as an integral part of the redevelopment, operations and closure plans. Midas Gold's feasibility study is well advanced, and permitting is progressing, with a draft Environmental Impact Statement expected in 2020. Midas Gold is working closely with local, state and federal regulatory agencies to develop plans to address past environmental and ecological damage while, at the same time, bringing an illustrious district back to life in a socially and environmentally responsible fashion. The Stibnite Gold Project seeks to use this rare opportunity to demonstrate that the mining industry can take on these legacy sites, apply their financial and technical strengths, address environmental concerns, repair ecosystems and be an inspiration for others to redevelop additional brownfields sites. This redevelopment will also generate profits for shareholders, provide employment opportunities for rural communities, generate capital investments, and yield taxes for governments to better serve their community needs.

NEWS FROM THE GSN FOUNDATION

By Cami Prens, GSN Foundation Chair

Still not back to normal – hmmm. I've discovered that I don't mind working at home but I miss seeing people and having real conversations. Zoom isn't quite the same but it's better than nothing and we're all increasing our technical capabilities, which is sometimes quite frustrating. Thankfully, those tech applications are out there or we'd really be isolated. And thank goodness spring is here so our walks around the neighborhood are sunny and beautiful.

We've learned that UNR Field Camp is being conducted as an online course this year which will allow seniors to graduate with that requirement fulfilled. Our Field Camp scholarship students will be able to stay on track for their graduation.

The Foundation has made our annual \$2,000 award to the UNR Foundation for scholarships at Mackay. We are also taking applications for the three other scholarships the Foundation administers; the GSN-DD LaPointe Scholarship, the GSN Brian Morris Scholarship, and the GSN Great Basin Geology Scholarship. Applications are due by May 31 for the Fall Semester and the guidelines and applications are available on the website under the GSN FOUNDATION tab. If you know any students that might be interested, please invite them to apply.

This is the last newsletter until August - I'll have a report then on the Foundation's activity during this fiscal year, which ends May 31st. We had planned to see you all at Symposium but we're just postponing everything we'd planned for that event until next year. Raising a sanitized hand to your health and safety!

“FACES OF GSN”

Andy Wallace, Reno, NV

I was surprised to be asked to do this column as I near the end of my career. I am not sure what to write that might interest the GSN membership, but will look at turning points in my career path. Decisions made with little thought during one's career often turn out to have lasting implications.

I grew up in the flatlands (Llano Estacado) of Eastern New Mexico. It is one of the few places in the world where one standing on terra firma can see the curvature of the Earth when looking at the horizon. I started college at New Mexico State majoring in electrical engineering. That was a bad fit for me, and I was floundering after three semesters. I had decided to leave school forever. At the last minute, I got a recommendation from my brother-in-law in the oil industry that led to my first geology class, which was the beginning of my 50+ year career.

I transferred to Eastern New Mexico University, where a 4 man geology faculty awaited me along with the possibility of a geology degree which NMSU didn't offer. My focus in geology changed my junior year when I took a class in reading electrical well logs, where I learned that I probably would not like the job of a petroleum geologist. I wanted to spend more time in the field with the rocks and out of an office. I decided to pursue mining and exploration geology and decided to go to grad school at UTEP (the old Texas School of Mines). I had my first real field jobs in geology while at UTEP for Dow Chemical and Texas Gulf Sulphur. I eventually came to Mackay School of Mines in Reno from El Paso.



Photo of me on top of the Eastside ore body

Another career turn happened at Mackay. Some of us graduate students were jungled together in the basement of the Mines building. One early morning in 1974 a Cordex geologist, Paul Dirksen, was walking through the halls looking for someone to do some petrographic work on thin sections of drill cuttings from Hasbrouck. All six of us in the office could have done this work, and trust me we all needed the money, but luckily for me I was the only one there at the time. A couple of months after I completed the job I was invited to look at Hasbrouck on the ground. A long-legged, tall guy strode up the steep hill to meet us on a drill road. That was John Livermore. The conversation was short with him asking questions for which I had no good answers. It was quick because that is the way he did things, but we were also standing in a swarm of tiny rattlesnake babies that had just hatched. A few months later John offered me a mapping job at Stirling and Pioneer, both near Beatty. My career had begun.



Me, my wife Jill, and her parents in the Marigold refinery about year 2000

For the first ten years at Cordex, I mainly mapped, but sat on drills some of the time. My specialty was mapping in altered volcanic rocks. John was a great man to work for - honest as could be and he led by example. I have been asked over the years how I got a job with such a famous geologist. The truth is I didn't know he was famous and knew next to nothing about gold deposits when I joined Cordex. My experience was in copper and fluorspar exploration. I was glad to get away from copper. I had helped on a job evaluating leached caps and realized right away that I was handicapped as I was color blind. It was years later when I realized John was also color blind. Maybe that helped us understand each other.

(Cont. on page 6)

Andy Wallace Faces (cont. from page 5)

My inexperience in gold showed up quickly. My mapping at Stirling was good, but after mapping I (drilled and had two interesting holes - one had 40 feet of 0.25 opt Au, and the other had 30 feet of 0.33 opt Au. I showed the assays to John, who was not impressed at all. I spent the next couple of years looking for better (gold was \$35 an ounce in my first 6 years at Cordex-it was a different time).



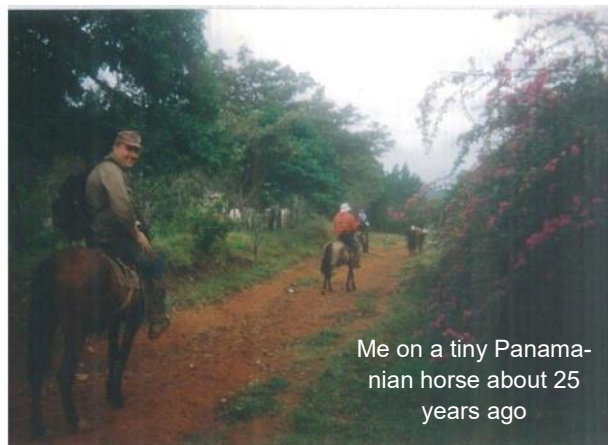
Me in the jungles of Panama, about 25 years ago

Cordex was fortunate in finding, developing, and placing Pinson and Dee (I think now it is called South Arturo) into production for its funding partners in its early days. We also found several deposits that were farmed out, including Florida Canyon, Hasbrouck, Stirling, Adams Goldfield, and Daisy/Secret Pass. Increases in the price of gold made all these of interest and they are being explored or mined today.

In 1985 my career turned again when John told me he wanted me to take over Cordex. I thought he was retiring, as he was in his mid-sixties, but a year or so later it finally dawned on me that he had moved out to make room for me to advance. That was the kindest thing anyone has ever done for me.

I was lucky again quickly after taking over Cordex. The first two properties we acquired and drilled were Daisy (aka Secret Pass) out of Beatty, and Marigold near Valmy. Both properties had merit, but Marigold was excep-

tional when we cut 75-125 foot blind intercepts running 0.06 to 0.25 opt Au in four of our first five holes, all in highly oxidized rock below 150-300 feet of alluvium. I knew from studying published maps that every stratigraphic unit dipped west along the west side of the Battle Mountain Range. We simply offset early Marigold drilling, which was done by VEK Associates, by moving to the east from where they had cut highly favorable, but not ore-grade, rocks at depth under alluvium. We had a geological success as the stratigraphy did shallow in the up-dip direction. Luckily it was also mineralized with gold. My luck continued at Marigold when Doug McGibbon and I spotted an assessment hole that discovered the Stonehouse/Lone Tree orebody.



Me on a tiny Panamanian horse about 25 years ago

My whole career seems to me to involve a great deal of luck. I suppose that scientists should not believe in luck, but it only takes a little while in the exploration business to become a believer.

A few years after Marigold, jobs in upper level management of mining companies came forth. For once I made a thoughtful decision and stayed in Nevada, continuing on with the rocks and in exploration.



Me leading an SEG trip to Sulfur (now Hycroft Mine) in 1980. Standing on silicified Camel Conglomerate

We closed the Cordex office in June, 2019 having completed 50 years of continuous gold exploration in the Great Basin, all done on one and two year contracts. I am proud of many things other than making some discoveries. We were environmentally oriented early - winning the major Dupont Environmental Achievement Award among others. I am proud of our role in developing the first RC, angle-capable, track drill in Nevada with friends Lance and Lou Eklund, who took the risk, and put up the money.

My partner at Cordex, Bruce Delaney, and I have moved to a small office where we still do consulting, mostly on Eastside, and we also occasionally sell access to our 50 years of files on Nevada gold prospects. Gold prices are advancing now, and I must admit to dreaming of starting up once again.

GSN ELKO CHAPTER

Sadly our April meeting has come and gone. This would have been our last meeting before the GSN Symposium in May. Currently our summer outdoor BBQs starting in June are up in the air. We will keep you updated as information comes in. During our April meeting we normally would have announced the Officer positions and candidates. This will now take place via email.

For the June 1, 2020- May 31, 2021 year we are looking for volunteers to fill these positions:

Vice President

Treasurer

Membership Chair

If you are interested in any of these positions and would like more information or would like to be cast on the ballot please reply to this email. **The deadline to be added to the ballot is this Friday, May 1st.**

On Monday, May 4th, I will send out a survey for your vote. Winners will be announced next Friday, May 8th.

Thank you,

Meredith Baker, GSN Elko Chapter Secretary

RangeFront Geological

mbaker@rangefront.com

ALSO: Your GSN Elko Chapter President, Diane Cheung-Harris wants all Elko members to know that they can reach out to her if they need anything, from groceries to picking up supplies, etc. She will gladly help you out!

Her email is: dianehcheung@gmail.com.

GSN SOUTHERN NEVADA CHAPTER

We would like to thank everyone who participated in our first virtual GSN Chapter Meeting. We feel like it was a success, Dr. Brian McNulty, a new post-doc at UNLV talked about the use of pXRF. The talk was recorded and will be on the GSN website at some point in the future. To stay up to date on the Southern Nevada Chapter you can also follow the chapter Facebook page.

Thank you,

Josh Bonde, GSN Southern Nevada President

paleo@lvnhm.org

GSN WINNEMUCCA CHAPTER

It's that time of year -- A Call for Winnemucca Chapter Officers!

Andrew Smith has agreed to stay on as Treasurer--his third year serving--and JoAnn Newbury would like to stay on as Membership Chair after joining us mid-year. Chad Peters has generously agreed to take over Robbie Anderson's role as President beginning June 1st! Thank you Chad! Robbie lives in Reno now so it would be difficult for him to continue running the Winnemucca Chapter.

WE STILL NEED VOLUNTEERS FOR VICE PRESIDENT AND SECRETARY! These are both easy positions to fill with not many duties.

2020-2021 Slate of Officers

President: Chad Peters
Vice President: Open
Secretary: Open
Treasurer: Andrew Smith
Membership Chair: JoAnn Newbury

Please email Robbie Anderson with nominations for 2020-2021 Officers by Friday, May 8th. Voting will be conducted online the following week. Without volunteers there is no Chapter! Robbie Anderson, robbie.agau@gmail.com, 775-299-2672

GSN 2020 Symposium Update: 2021 Transition

As each member of the exploration and mining community in the Great Basin deals with the challenges imposed by the pandemic, preparations continue for the transition of the GSN 2020 Symposium to May 2021. To date, the planning committee has been encouraged by the strong show of support from the symposium registrants, exhibitors, sponsors, and advertisers who have elected to leave funds in-place for 2021. Consequently, the Symposium remains on sound fiscal footing as we work toward the New Year. Thank you to all supporting the Symposium.

The support of the sponsors and registrants enable the Symposium to continue with the publishing of the Proceedings on the original 2020 schedule and make papers available in a timely manner. In a related effort, the planning committee is working to prepare a series of webinars, during the remainder of 2020, featuring topics from the 2020 technical program. Please watch for announcements with details on the website and by email.

Still, we understand that some will need to cancel their Symposium plans and are providing the opportunity to apply for refunds using the contact information, shown below. If possible, please do this by May 31st.

Please see the following announcements posted on the website (gsnsymposium.org):

Registrants – instructions for those wishing to maintain their registration and those wishing to cancel their registration appear in an announcement posted on the “Register” page on the website (www.gsnsymposium.org/refund-request/).

Speakers and Poster Presenters – instructions appear on the “Technical Session” page (<https://www.gsnsymposium.org/programs/agenda/>).

Exhibitors – instructions appear on the “Exhibitors” page (www.gsnsymposium.org/exhibitors/). Refunds available.

Proceedings:- the GSN 2020 Symposium proceedings are on track to be published in late May, 2020. After May 31st, active registrants of the full technical program will receive the proceedings on a USB drive and, if previously ordered, in hard copy. Also, the proceedings will be available for purchase as hard copy and USB drive. At present, plans call for publishing an updated proceedings in 2021 featuring revised papers and new submissions. The 2021 proceedings will be released on USB drive, as envisioned now.

Thanks again for your continued interest in the GSN 2020 Symposium.

Eric M Struhsacker

GSN 2020 Symposium Planning Committee Co-Chair

2021 SYMPOSIUM CO-HOSTS



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GSN Picnic Scheduled for June 5th!



All GSN members are invited to the GSN Board of Directors picnic which is **currently** scheduled for Friday, June 5th 5:00-8:00 PM at the Peavine Pavilion at Rancho San Rafael Park in Reno. Price of admission is free, thanks to the GSN, and the GSN Board of Directors is once again organizing the event. We sincerely hope that we will be able to put this event on, as it will **hopefully** represent a welcome opportunity for GSN members to once again get together, eat, and socialize - all non-remotely. As of the publication date of this newsletter, however, we are still uncertain as to whether we will be able to pull this off, and what the state's approach with respect to Covid-19 directives, orders or guidelines will be for early June. **So please tentatively pencil this in on your calendar, stay tuned and we will provide any updates we have via email blasts.**

Mining Activity Update

Mike Brady, March 2020

www.activityupdate.com

NEVADA

Silver One Resources Inc. announced that recent drill results at the Candelaria Project include 260-264 meters @ 2.64 gpt Au, 16.1 gpt Ag (SOC19-047); 325.73-342.29 meters @ 0.58 gpt Au, 318.3 gpt Ag (SOC19-048); 330.0-349.98 meters @ 0.29 gpt Au, 96.5 gpt Ag (SOC19-049) and 306.04-331.63 meters @ 0.31 gpt Au, 172.2 gpt Ag (SOC19-050). (resource = 12,384,000 tonnes @ 0.10 gpt Au, 110.2 gpt Ag measured+indicated) *Press Release:* March 2

Gold Resource Corp. announced that reserves at the Isabella Pearl Project aggregate 2,247,400 tonnes @ 3.05 gpt Au, 18 gpt Ag proven+probable. (was 2,694,000 tonnes @ 2.22 gpt Au, 13 gpt Ag proven+probable) *Press Release:* March 2

Ely Gold Royalties Inc. announced that it acquired a 100% interest in VEK Associates for \$5,000,000. VEK owns 5 properties (REN, Marigold, Lone Tree, Pinson and Carlin Trend) that are leased yet VEK retains a royalty. *Press Release:* February 28

Ely Gold Royalties Inc. announced that it acquired a 3.5% Net Profits royalty on the REN Property from private interests for \$500,000 cash. *Press Release:* March 17

Patriot Gold Corp. announced that recent drill results at the Windy Peak Project include 64.01-76.2 meters @ 0.207 gpt Au (PG19-01); 21.34-30.48 meters @ 0.222 gpt Au (PG19-02); 47.24-56.39 meters @ 0.216 gpt Au (PG19-04) and 45.72-54.86 meters @ 0.225 gpt Au (PG19-09). *Press Release:* March 3

Blackrock Gold Ltd. announced that it acquired an option to earn a 100% interest in the Tonopah West Property (less a retained royalty) from Ely Gold Royalties Inc. for \$3,000,000 cash over 4 years. *Press Release:* February 25

Newmont Mining Corp. and Barrick Gold Corp. released reserves for the Nevada Mines Division in their annual reports. Carlin Open pit reserves aggregate 162,601,000 tonnes @ 2.15 gpt Au proven+probable open pit and 30,894,000 tonnes @ 9.59 gpt Au proven+probable underground. (was 266,623,000 tonnes @ 2.12 gpt Au proven+probable open pit and 25,808,000 tonnes @ 9.68 gpt Au proven+probable underground) *2019 Annual Report*



Follow for more info:

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-  @GeoSocNV

www.gsnv.org/resources/presentations/



UNR'S STUDENT EMPLOYEE OF THE YEAR!



I'm happy to announce that **GSN Student Member Quentin Burgess won the UNR Student Employee of the Year Award!** Quentin worked for the Nevada Bureau of Mines & Geology's publication sales office (the building that GSN's office is in). He has been an active member of the GSN attending local meetings when he could. Quentin also served this year as President of the Mackay Rockhounds club and organized some great field trips for that student group too.

You may recognize his name as he was a recipient of the GSN Foundation's Field Camp Grant for this summer. On top of all this Quentin is a good student and all around great young man. We congratulate him on this award and wish him luck with his career path after graduation.

Tax Deduction

It is that time of the year to consider gift giving. If you have any geologic books that you are considering giving away please contact Clancy Wendt. GSN and the Tucson Gem and Mineral Society have given over 70,000 books to Universities in Mexico. This is a tax deductible item and anything you have will be greatly appreciated as Mexican Universities have very little in the way of reference books. We are also seeking people who are going to Tucson who have room in the cars or trucks to take some of the books we already have. 775-852-2513.



SYMPOSIUM 2021 GOLD PRICE CONTEST!!

GSN Symposium 2021

"Guess the Gold Price" Contest

We invite all GSN members to guess the exact closing gold price on the opening day of the 2021 Symposium (May 17).

Each GSN member will be allowed one entry.

TO ENTER—PLEASE CLICK ON THIS LINK:

[the Gold Price Contest](#)

First prize is a 29.79 gram nugget from the Egina (pronounced Eh-ginnah) paleoplacer in the Pilbara craton of western Australia donated by an anonymous (and very generous) GSN member. The nugget award will be presented during the Symposium in May 2021.

Entries will ONLY be accepted through May 31, 2020!

We also welcome donations of 2nd and 3rd prizes if any GSN members so wish.

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A Geoscientist Plea for The Great Debate

By Douglas B Silver – Geoscientist Thought Leader

The Great Debate is one of the most important activities of this generation and I need your help. Using hyperbole, cajoling, bragging, boasting and roasting, we are trying to settle the eon-old debate about who is most important to Civilization. There are six groups humoring us: Geoscientists, Miners, Metallurgists, Environmentalists, Women, and Emerging Leaders with their respective “Thought Leader.” Each sector represents a significant part of the mining industry and the other groups are making the Geoscientists look a tad too frugal.



I am sure you are aware that charity funding efforts have been especially hampered this year. This necessitates each of us digging (pun intended) a little deeper to support worthy causes.

This debate is a catalyst fund raiser for the National Mining Hall of Fame and Museum. Each month since January, SME’s Mining Engineering has published one of the competing group’s hilarious essays on their hallucinations of supreme importance. You really should read them and participate by sending letters to the editor!

Seriously, please help me raise money for such a worthy cause and award Geoscientists with eternal bragging rights at the annual Induction Ceremony in October. Any size donation will make a difference, and for those of you wallowing in cash, think big! We all need to rally and donate dollars for the Geoscientists to conquer the unwashed masses. Do you really want the metallurgists to win?

Join the Great Debate now Read the position statements in SME’s Mining Engineering and contribute to the debate (<https://me.smenet.org/greatDebate/>), view our progress at NMHFM (<http://bit.ly/EventsGrtDeb>) and, most importantly, donate!



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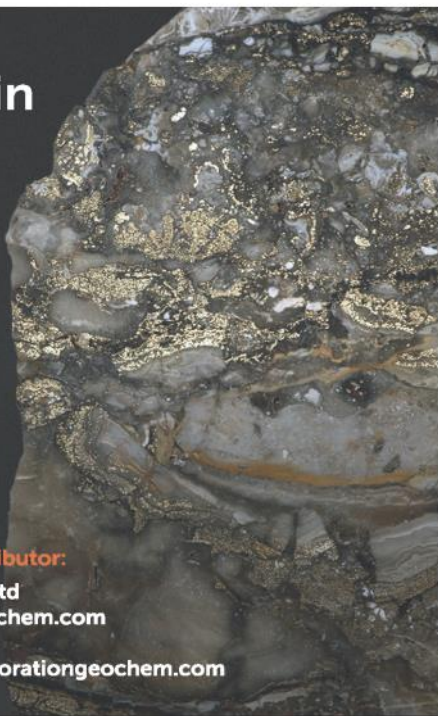
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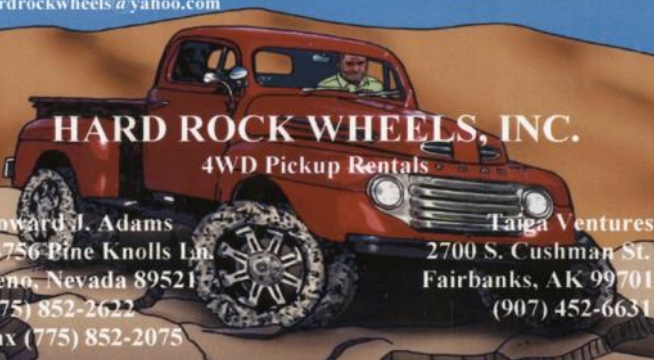
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