



GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512
(775) 323-3500 - Hours Monday -- Friday, 9 a.m. to 4 p.m.
Website: www.gsnv.org • E-mail: gsn@gsnv.org



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David Shadrack
Mark Travis

No August Meeting

AUG. 11, 2021 WEDNESDAY

AUG. 13, 2021 FRIDAY

AUG. 19, 2021 THURSDAY

SEPT. 24, 2021 FRIDAY

September 30th!

GSN SO. NEVADA CHAPTER MEETING

Please see page 6 for slate of 2021-2022 chapter officers. For more information, please contact President Josh Bonde at: josh-ua.bonde@nvscicenter.org.

GSN WINNEMUCCA CHAPTER BBQ

The Winnemucca Chapter will be hosting a BBQ at Highland Park, 4220 Water Canyon Road. Sponsors are **BOART LONGYEAR & ALS MINERALS!** For questions, please contact Chapter President Chad Peters at: cpeters@ridgeline minerals.com. Details on pg. 6.

18TH ANNUAL "SILVER" SUMMER SERIES BBQ IN RENO

Guest Speaker: Mr. Doug Silver, Namesake of the Silver Series. Title: "Truth, Lies, Statistics and Doug". Location is at Dan Kappes's home, 13045 Welcome Way, Reno, NV. 6:00 PM Drinks, 6:30 PM Potluck BBQ, 7:30 PM talk begins. **Sponsors for the evening are Kappes, Cassidy & Associates, RESPEC and CGS, Inc.** Please RSVP by August 9th to Laura Ruud at the GSN Office, gsn@gsnv.org or 775-323-3500. Details on page 3.

GSN ELKO CHAPTER BBQ

The GSN Elko Chapter meeting will be hosting a BBQ at the Duncan Littlecreek Gallery Bar, in Elko on **Thursday, Aug. 19th from 6-9 p.m. Sponsors: ALS MINERALS & TERRACORE.** Please contact Elko President Justin Milliard: justin.b.milliard@gmail.com for more information. Details on page 7.

GSN REGULAR MEMBERSHIP MEETING

The GSN regular meetings will resume in-person! New venue: Reno Aces 250 Lounge, 250 Evans Avenue. Speaker: Dr. Mathieu Harlaux, UNR. Title: "Tourmaline in magmatic-hydrothermal ore deposits: garbage can mineral or sensitive mineral probe?"

Abstracts are due to the GSN Symposium Technical Committee by September 30, 2021. Details can be found on page 12. Please visit the website for more information about the GSN 2022 Symposium! www.gsnsymposium.org

GSN SUMMER SILVER SERIES SPONSORS!!



MINE DEVELOPMENT ASSOCIATES
A DIVISION OF RESPEC



CGS MULE
COMPLETE GEOLOGICAL SUPPLIES



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

It's an honor to serve as the GSN President for the 2021-2022 term. GSN is my favorite professional society due to the top caliber technical talks, outstanding field trips, and welcoming members. Being able to help with the day-to-day operations of GSN this year and get the word out to potential new members means a great deal.

Our "war-time" President, Mary Stollenwerk, proved to be the right person for the job when adaptability, determination, and humor were desperately needed. Under her leadership, our monthly virtual meetings had excellent attendance, and our first (and second!) family and dog friendly camping-based field trips went smoothly. Our Elko, Winnemucca, and Las Vegas chapter officers, Executive Manager, Executive Committee, Board of Directors, and members also proved to be up for the challenges. Through this all, our sponsors continued to provide the financial support that keeps annual dues, meetings, and field trips affordable. Although the 2020 symposium had to be postponed, the technical committee demonstrated their agility through coordination of virtual talks that are now a permanent contribution to the geologic community through gsnv.org.

This look back makes my role this year seem easy. The plan is to get back to business as usual while taking advantage of the new tools we've embraced, and lessons learned. Keep in mind –

On August 13th, Dan Kappes is hosting the 18th Silver Summer Series BBQ at his home where our guest speaker (you guessed it) Doug Silver will entertain us with "Truth, Lies, Statistics and Doug". This annual event is generously sponsored by Dan Kappes, Kappes, Cassiday & Associates, Mine Development Associates (Division of RESPEC), and CGS, Inc.

On September 24th, we'll venture into a new venue at the Greater Nevada Field where the 250 Lounge and Good Hops will be open to our members and guests. Dr. Matthieu Harlaux, Assistant Professor of Economic Geology at the Nevada Bureau of Mines and Geology will open the season with "Tourmaline in magmatic-hydrothermal ore deposits: garbage can mineral or sensitive mineral probe?"

We're back to the 3rd Friday of every month for membership meetings on October 15th. Stay tuned for more details about upcoming speakers and events. It's going to be a great year!



Sunrise on the Ruby Mountains courtesy of Timothy Ogle (<https://www.facebook.com/timothy.ogle.92> and @2phtographyworks)



18th Annual “Silver” Summer Series BBQ
Guest Speaker: Doug Silver, Balfour Holdings LLC

Title: “*Truth, Lies, Statistics and Doug*”

Date: Friday, August 13, 2021

Time: Drinks @ 6:00 pm, BBQ/Potluck Meal @ 6:30 pm, Talk @ 7:30 pm

Where: Dan Kappes’s Home, 13045 Welcome Way, Reno, Nevada

Things to Bring Along: A Side Dish, Salad or Dessert to share and a Lawn Chair!

Dan Kappes is providing the BBQ’d meat with fixings and is hosting the event as he has done generously for many years now! Mine Development Associates, a division of RESPEC is providing the Great Basin beer kegs again and CGS, Inc. is providing wine.

DIRECTIONS TO DAN'S HOUSE (Please Carpool if you possibly CAN!):

Take U.S. 395 to Damonte Ranch Exit. Turn right (west) on Arrow Creek Parkway, turn right (north) on Thomas Creek Rd. Turn right on Welcome Way at the 4-way stop sign. Dan's house is the second house on the left. 13045 Welcome Way. Call if you get lost – Dan’s Cell phone is: 775-848-1981 and home phone: 775-622-1117.

Abstract:

The world has dramatically changed in the past two years. First, we all suffered from the collision of a controversial president and a worldwide pandemic. The pendulum then swung left as a new septuagenarian took office with plans to fix all of the country’s historical ills. These radical shifts have a profound impact on U.S. miners, both young and old. Come find out how!



“FACES OF GSN”

David Browning

Reno, Nevada

I have never been good at writing introductions, and while reading the Face of GSN installments over the years I often thought “How would I start mine off if I am ever given the chance?” Unfortunately for you, I still do not have a good answer, but I will say it is a privilege to be formally introduced to so many of you. The Geological Society of Nevada is a truly unique community. There are few places elsewhere that have a group with the infrastructure, support, regular meetings, and free beer that GSN provides. Nevada geos are a special breed, and I am proud to be one.

I started my journey towards Nevada in the woods of New Hampshire on a small farm. The property my family moved to as an escape from Boston was established in the late 1700s and became a playground for my curiosity. The fields strewn with boulders, the stone walls surrounding the property, and the abundant streams and lakes all had an early influence in my interest of the natural world. After years of informal outdoor education, my interest in geology finally manifested itself my senior year of high school when a geology class was offered. I remember at the time not being sure why I was so set on taking that course, and it was during that geology class when I decided I would be a park ranger.

Huh? Yep, that reaction you are having right now is the same one my parents had. Fine, but their only demand was that I go to college. The next year I was enrolled at Green Mountain College in Poultney, Vermont, as an Adventure Recreation major with minors in Geology, Biology, and Chemistry. After my first semester of college, before I was able to take any adventure recreation classes, I reevaluated my studies and realized I could be involved in outdoor recreation without needing a college degree in it. I officially switched my major to Biology, while maintaining minors in Geology and Chemistry. As the next few semesters progressed, I found myself becoming more interested in outdoor recreation activities than the studies themselves. “Alright,” I thought, “How can I do both? Geology, you say? Excellent.”



With Green Mountain College only offering a minor in Geology it was time to head out west. Sure, the geology seemed a bit more exciting, but so did the skiing, and so I ended up in Gunnison, Colorado at Western Colorado University (Western State College of Colorado at the time). The mountain biking, rock and mountain climbing, and skiing were phenomenal. Unbeknownst to me when I transferred, so was the geology and the professors. After two years of amazing field trips and courses, I received my degree in 2009, and without any job prospects, got ready for a summer of field camp, bar tending and mountain biking. Around the time field camp ended, I was approached by my advisor and asked if I would be interested in taking a seasonal, entry-level position as a field technician for a gold exploration company in Elko, NV. I accepted and was once again heading west.

I showed up in Elko with a field pack and no idea of what a Junior Exploration company was or did. My first year at Miranda Gold was a whirlwind of stream sediment samples, claim stakes, and camping, with a few fun field stories thrown in. By November the snow was falling and gold prices were rising. (continued on page 5)



Sasha getting in some field work

My last night in town, Joe Hebert and Brian Cellura offered to bring me back the following summer. They also introduced me to an emerging technology called Hyperspectral, and assuming I could find a graduate school to accept me, Miranda Gold would support me getting a secondary degree to learn more about it. So after a winter off in Colorado and another exciting field season in Nevada in 2010, I headed north to attend the University of Idaho. I spent two semesters finishing my course work and cruising around the impressive volcanics and the stunning Palouse. Near the end of my time there, I met my future wife Sasha and convinced her to come with me to a small town called Elko, Nevada.

Around 2014, I was introduced by Melissa Mateer to a new Hyperspectral Core Imaging company called TerraCore and joined them as a spectral specialist in the fall. After a year and a half of working out of our house in Spring Creek, I received a call on Christmas Eve 2015 asking me to relocate to Reno. While those six years in Elko were quite the learning experience for me as a young geologist, they were also a transition for my wife who, with a master's degree in history, was adjusting to the culture and finding her own place in the community. We agreed to move to Reno and with three cats, two dogs, a bucket full of fish, a car full of plants, and after 1 flat tire on the U-Haul we made it.

Through my work with TerraCore I quickly became exposed to the global nature of the industry as half of the TerraCore team was based in Johannesburg, South Africa. Over my 6+ years with TerraCore, I was fortunate to visit six countries across three different continents and work on projects all over the world. Unfortunately, my travels were halted during the Pandemic, and as we all did, I transitioned back to a home office. This turned out to be a blessing as my wife Sasha and I welcomed our baby boy Julian in May of 2020. While 2020 had many difficulties, the ability to be at home during his first year was without a doubt a bright spot in an otherwise difficult year.



Roadside breakfast in South Africa



Future GSN Member

Maybe it was because I was stuck at home for 18 months, but despite all the geology I was being exposed to via TerraCore I began to miss the good old days of field work. After almost seven years with TerraCore, I decided it was time to go see rocks in person again and established myself as a consultant in May of 2021.

Amidst all the chaos of emerging from the Pandemic, starting a company, and chasing around a 1-year-old, I have also been volunteering my time with the GSN as the Short Course co-Chair for the upcoming Symposium and as the current Publications Chair for the Executive Committee. Doing it all virtually has been an interesting introduction to the role. I cannot wait to start seeing you all in person this fall!

Cheers! Dave Browning



GSN SO. NEVADA CHAPTER



SOUTHERN NEVADA CHAPTER OFFICERS WILL REMAIN THE SAME FOR 2021-2022;

JOSHUA BONDE—PRESIDENT

SIMON JOWITT—VICE PRESIDENT

PAUL BOWEN—TREASURER

BECKY HALL -SECRETARY

If you have any questions or would like to help with the Chapter this year, please contact Josh Bonde at: joshua.bonde@nvscenter.org.



GSN WINNEMUCCA CHAPTER SUMMER BBQ



WEDNESDAY, AUGUST 11, 2021

5:00 p.m.—8:00 p.m.

Come enjoy some food and drink while playing games and catching up with friends!

Location: Highland Park

4220 Water Canyon Road

Winnemucca, Nevada

Food and Drinks Sponsored by:



If you have any questions please contact Chad Peters at: cpeters@ridgelineminerals.com

ALSO! The 2nd Annual Brian Morris Memorial Trap Shoot is on Sept. 18th! See pg. 16 for details!

GSN Elko Chapter—August 2021 Update

The Elko GSN Chapter is excited to host our third and final BBQ of the season in partnership with our sponsors ALS Minerals and TerraCore!



The same regular day (3rd Thursday) and time of the month at the DLC Winebar.

Thursday, August 19th. Food and drinks (6-9 pm)

The ALS – TerraCore Tag Team will be rocking the grill and looks forward to sharing more about their integrated services.

Please see their websites for more information.

<http://terracoregeo.com/>

TerraCore's range of frames and cameras, coupled to IntelliCore's on-site processing capabilities, provides us with the versatility to image core anywhere, anytime and for any application.

Moving large volumes of core is arduous and risky, so mobilizing a mobile frame to site for large campaigns is the sensible option. These frames have a small footprint, simple power requirements, are rugged, and so can easily be installed inside the coreyard for ease of access. An experienced TerraCore operator will always be on site to ensure efficient collection of high quality data.

We do require clean and dry core, and so recommend that cleaning be carried out prior to mobilization of an instrument to ensure efficiency. Where necessary, we will guide you through the process of preparing the core for imaging.

<https://www.alsglobal.com/>

ALS is the leading full-service provider of analytical geochemistry services to the global mining industry. Our integrated network of over 80 laboratories around the world ensures consistent quality and dependable client service.

Additional News....

It is our regret to announce that our Treasurer, Aryn Hoge is prematurely ending her second year as Treasurer but is also our pleasure to see her pursue a new overseas position with Barrick. We wish her the best on this next BIG adventure and the great geo-experiences that will come along with it. You will be missed back here in Northeast Nevada. Fortunately for the Elko Chapter we have a deep pool of excited geologists and engineers who are willing to step up to volunteer on short notice.

We are ecstatic to welcome Adele Berg who will be taking the reins from Aryn for the rest of the 2021-2022 GSN year.

More about Adele...

Adele is originally from Vancouver, British Columbia and graduated in 2020 from Montana Technological University with a degree in mining engineering. She has been interested in mining since she was young, when she learned and experienced placer gold mining in the Yukon from a family friend. Some of her hobbies include, skiing, hiking, fishing and camping. Although she isn't a geologist, she enjoys rockhounding and is looking forward to helping out the chapter as treasurer.



GSN JUNE PICNIC WRAP UP

Bob Thomas, Chairman of the Board of Directors

GSN staged a successful picnic on June 11th at Rancho San Rafael Regional Park. There were about 115 attendees, and it was great to see everyone enjoying the event especially after over a year of making most GSN connections remotely. The picnic was organized by the GSN Board of Directors, but we had plenty of help in addition to board members - thanks go out to many folks. Dave Shaddrick reserved the spot two years ago, and we were finally able to take advantage of his generosity. A big thanks to MDA/RESPEC for supplying the beer kegs, and to Kel Buchanan for donating the wine. No one had to wait long to get fed, thanks to the efforts of Cami Prenn and Mary Stollenwerk in organizing the food line. Dave Caldwell (Ashland, OR) and Mark Travis (Elko) shared the most-traveled award and ably filled in a last-minute need at the grill. Greg French kept to his tradition of being head griller, and there was no shortage of burgers and dogs. Even veggie burgers! Laura & Eric Ruud were a huge help: Laura was instrumental in organizing the event and helping it go smoothly, in addition to helping get supplies beforehand. Eric was a big help in shuffling coolers around and just plugging in wherever needed. Tom Callicrate helped organize the gold pan toss. He had the task of competing with a crowd that was mainly interested in sitting around and catching up after a long period of not being able to do so. Thanks to all!

Chris R., M. Hunsaker, G. Frey, A. Holmwood, M. Stollenwerk



D. Bryan, C. Henry and T. Callicrate, (front)
Joe Polovina and F. Zoerner (in back)



Kristen Benchley
& daughter Nia



Saige Sanchez & Matthieu Harlaux



Kay Tietz, Paul Tietz, Cami Prenn and Alex Ruud



D. Unger, Al Frank, E. Ruud, G. French, M. Travis



Tony Taylor, John Rice, Tom & Ann Carpenter



Greg French & Bob Thomas, Organizers



Thomas Dolis & Stephen Sheehan

GSN SPRING 2021 FIELD TRIP WRAP UP

Patsy Moran, Field Trip Leader

The Spring 2021 Yerington Mining District field trip went off without a hitch. To err on the safe side, we conducted the second camping-based trip although most of the Covid-19 public safety precautions were being lifted by May 15th. A few folks stayed at the Yerington Inn, which was given their nod of approval.

As participants gathered to check in on Saturday morning, so did the rain, thunder, and lightning. Fortunately, the sun eventually broke through and clear skies stayed with us throughout the day. Our first stop was the Fort Churchill State Historic Park Visitors Center where **Kristin Sanderson**, the Park Interpreter, gave a thoughtful and informative talk on sources of conflict between pioneers/traders and the Paiute Indians that led to the construction of the fort, life in the area at that time, and restoration/maintenance of the ruins. **ALS** came through with delicious Jimmy John's box lunches that were a big hit. We had a short time to explore the ruins and trails before the caravan headed over to Buckland Station just down the road where Kristin opened the second story so we could see the building materials that were originally sourced from Fort Churchill. Our park entrance, Buckland Station, and camping fees were sponsored by **Enviro-tech Drilling LLC**. In place of a Special Publication, participants received a handout that included previously published logs and papers, new reference material for the Minnesota (aka Standard Slag) Mine and **Hudbay Minerals Inc.'s** Mason Project, and updated regional images created by **Joe Laravie**.



We headed over to Minnesota Mine for the afternoon where **George Eliopoulos** went over the geology and mine history. Underground copper mining occurred at the property in the early 1900's while open pit mining for iron was conducted in the 1950s and 1960s. We found specimens for our collections, including magnetite and chalcopyrite. This mine, on the northwest and Nevada Copper's Pumpkin Hollow mine on the southeast occupy, as skarn representatives, the perimeters of the Yerington District porphyry copper intrusive batholith complex that spans over 15 miles.

Saturday night happy hour happened at the Scout Camp at Fort Churchill State Historic Park. Drinks and snacks, which lasted all weekend, were sponsored by **American Assay Laboratories**. The group represented folks at the beginning of their careers to others that have been retired for years. **Tony Gesualdo** and **Mandy Bengtson** brought their daughter on her second field trip and **JoAnn Newbury's** grand-nephew **Mateo** also joined in the fun.



Sunday kicked off at the **Hudbay Minerals Inc.** office in Yerington where **Matt Cunningham** gave an overview of the Mason project geology. In addition, **Greg French** provided an update on the nearby **Nevada Copper Inc.** Pumpkin Hollow Copper Project. Both companies presented core for members to explore while having breakfast treats. Matt led the caravan to the Bluestone mill for a quick stop before heading to the Bluestone mine glory hole where we found colorful copper oxide mineralization. More delicious box lunches, sponsored by **Boart Longyear**, were enjoyed near the remains of the Bluestone Mill foundation. The Mason project mineralized potassic porphyry is concealed so we stopped at the nearby Blue Hill area where we were able to view the sericitic, propylitic and sodic-calcic zones exposed in the Anaconda exploration trenches. Matt's little boys lapped several of us on the way to the top of the hill. Our student helper, **Alex Holmwood**, provided excellent support all weekend including carting the coolers and left over treats back to the GSN office. We called it a day before the storms started rolling back in. Can't wait for the Fall field trip!



NEWS FROM THE FOUNDATION

By Cami Prenn, GSN Foundation Chair

Summer isn't quite over but the Foundation has been gearing up for the next semester at UNR, reviewing scholarship applications and picking the recipients. Those will be announced in the newsletter next month when all awardees have been notified.

I would like to acknowledge the Board members of the Foundation and thank two who served several years and decided to step down: Mike Ressel and Pam Klessig. They both contributed valuable hours and thoughts to the organization and we thank them for their time with us. Our Board members have diverse experience which strengthens the organization and gives us better perspective.

Returning Board members are Kel Buchanan, Mario Desilets, Bob Felder, Bill Howald, DD LaPointe, JoAnn Newbury, and Bob Thomas. New to the Board this year are Richard Bedell and Ruth Carraher, who have both served as recent officers on the Executive Committee. We welcome their input and their ongoing participation in GSN.

Looking forward to seeing everyone at GSN meetings when they resume in September!



GSN SPECIAL OF THE MONTH!

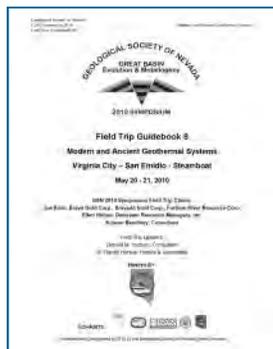
Field Trip Guidebook titled, "Modern and Ancient Geothermal Systems"

GSN 2010 Symposium field trip #8

On sale for \$18 (half of the retail)!

This trip visited the Comstock District in Virginia City, plus two active geothermal districts—the Steamboat Springs Complex and the San Emidio Geothermal District. They also made a stop at the Wind Mountain Mine.

(shipping extra)



To order, please visit the online bookstore at:

www.gsnv.org

BABY ANNOUNCEMENTS

John Graydon Larson was born at home on July 10, 2021 in Boise, Idaho to Samantha and Kyle Larson. He measured in at 21.5 inches long and weighed 7lbs 9oz. He joins siblings Syd & Isabel who are thrilled to welcome him.



David Allen Williams Jr.
 November 17, 1961–June 12, 2021



On Saturday, June 12, 2021, David Allen Williams Jr. passed away at the age of 59.

“Al” was born on November 17, 1961 in Hollywood, CA, to David and Carole Williams. He earned a bachelors degree in Geology and an MBA. Al was a father to his son Cole, and also took Cole’s sister, Sophia under his wing. Allen loved his family more than anything.

He was passionate about geology and took great pride in his job working in the precious minerals division of Barringer Labs and Inspectorate for 23 years. He had a zest for the outdoors... loved to fish, hunt, ski, boat, and explore.

Allen was unique to say the least. Those that knew him, understood his lingo as well as his uncanny sense of humor. He always left an everlasting impression behind with those that met him..making many friends along the way.

Allen finally pursued his lifelong dream of owning his own business after moving to Park City in 2013.

Allen was preceded in death by his father, David Williams Sr. He is survived by his mother Carole Williams, his son Cole Williams, and his two brothers Jeff and Brad Williams.

<https://www.tributearchive.com/obituaries/21452688/David-Allen-Williams/Provo/Utah/Nelson-Family-Mortuary>

Alan Marshall Lander
 August 22, 1955 – June 22, 2021



Alan Marshall Lander, beloved husband, father, grandfather, brother, uncle, and friend, passed away on June 22, 2021.

Alan was born August 22, 1955, to William and Nancy Lander in Port Hueneme, CA. He graduated from Camarillo High School and enlisted in the United States Army in May 1975 where he served 4 years with 22nd Infantry Division in Fort Carson, CO and the 4th Infantry Division in Wiesbaden, West Germany, rising to the rank of Sergeant. He graduated from Southern Oregon University in 1985 with a Bachelor of Science Degree in Geology.

A talented geologist, Alan was highly respected in his chosen profession. He explored for gold from Chile to Alaska. He made significant contributions to the discovery and development of multiple world class gold deposits, especially here in Nevada. Alan always promoted workplace safety to his co-workers and contractors and led by example. Alan's genuine passion for workplace safety prompted him to broaden his role as a leader and devote the latter part of his career to the health and safety of the people in mineral exploration and mining.

In 1985, Alan married former wife Margaret and together they had two beautiful children Ellyn and Elizabeth. On April 29th, 2006, Alan married the love of his life, Tammy Lander in Elko, NV. Together they had Jill Lander and Alan adopted Tammy's youngest son, Lawrence. Alan loved the outdoors and spent many happy days fishing and hunting. Treasured memories were the times spent with his children, grandchildren, friends, and fishing trips at Baranof Wilderness Lodge in Sitka, Alaska.

He was well known by many people and was actively involved in his community. Alan loved all his family and friends unconditionally and they loved him. He had a great sense of humor and was a very loving and generous person.

Alan is survived by his loving wife Tammy Lander; children Ellyn D'Amico (Jerome), Elizabeth Lander, Jill Lander, William Wood (Illianna), Quinn Holton (Holly), and Lawrence Lander (Emma); sisters LouAnn Elliott (James), Catherine Klakoff (Theodore), Christie McCrory (George), Rebecca McCrory (William); brother Benjamin Lander (Shari); grandchildren Cynthia, Christopher and Perry, and other extended family members. He was preceded in death by his loving parents William and Nancy and brother, Henry.

"The world lost a great man. We will miss you Al. Until we meet again." – Your family and friends

A Celebration of Life for Alan was held on July 8th in Elko.



Geological Society of Nevada

“Vision for Discovery: Geology and Ore Deposits of the Basin and Range”

GSN 2022 Symposium Call for Papers with Dates Revised August 1, 2021 And Call for Confirmation of Intent to Present Talks Accepted for 2020

The GSN 2022 Symposium Technical Committee has continued updating and confirming the programs of talks and posters planned for the week of May 2nd, 2022 at the Nugget Casino Resort in Sparks, Nevada. As noted in April, the committee is soliciting new talks, talks submitted for 2020, and revisions of talks submitted previously. The committee has pushed back the deadline for submitting draft abstracts by two months to September 30th. Please see the revised schedule for submitting abstracts and papers below. The review of options for virtual presentations continues.

In 2022, final abstracts will be available as a digital addendum to the conference program pamphlet available on the symposium website or on an app to be available for smart phones at symposium. Papers new for 2022 will be published in an addendum to the 2020 proceedings. At present, the committee plans to publish the addendum for digital download and, possibly, as a limited edition softbound paper volume. A schedule for release of the proceedings is under review.

If your 2020 abstract will be acceptable for 2022, you do not have to revise. Those scheduled speaker/poster presenters who did not write a paper for 2020 are encouraged to do so for the 2022.

If you plan to update your 2020 paper for 2022 please be sure that it is substantially new data, material, or interpretation. Duplicated 2020 versions for 2022 will not be accepted. Please indicate the new material and discuss with us. You may rewrite your 2020 abstract for your talk &/or poster to include a small or large amount of new material.

DUE DATES SUMMARIZED

Draft Abstracts Due: SEPTEMBER 30, 2021

Final Revised Abstracts Due: MARCH 1, 2022

Draft Manuscripts Due: OCTOBER 31, 2021

Final Revised Manuscripts Due: MARCH 15, 2022

Final revised papers in by March 15 should be available at least in digital download at the May 2022 Symposium. Those and later finalized papers should be available for purchase by late-summer 2022 as both digital downloads, USB, or a soft-bound Proceedings Volume. We will be rather strict about these due dates.

Mining Activity Update

Mike Brady, JUNE 2021

LMBrady@aol.com

NEVADA

Power Metal Resources plc. announced that it acquired the Garfield and Stonewall properties from Sunrise Resources plc. for \$20,000 cash and 2,250,000 shares. *Press Release:* June 17

Fiore Gold Ltd. announced that recent drill results at the Gold Rock Project include 96.01-99.36 meters @ 0.27 gpt Au (GC20-03); 172.52-196.9 meters @ 2.85 gpt Au (GC20-05); 232.26-247.5 meters @ 0.33 gpt Au (GC20-07) and 79.55-119.82 meters @ 0.70 gpt Au (GC20-019). (resource = 9,006,000 tonnes @ 0.82 gpt Au indicated) *Press Release:* June 4

Fiore Gold Ltd. announced that it acquired a 100% interest in the Illipah Property from Clover Nevada LLC. for \$200,000 cash and 1,300,000 shares. *Press Release:* June 14

Coeur Mining Inc. announced that recent drill results at the Crown Project include 324.6-330.71 meters @ 1.71 gpt Au (CH20-020); 204.2-272.8 meters @ 1.02 gpt Au (CH20-044); 242.32-262.13 meters @ 0.34 gpt Au (CH20-046) and 371.86-402.34 meters @ 0.68 gpt Au (CH20-051). *Press Release:* June 15

Coeur Mining Inc. announced that recent drill results at the Daisy Project include 280.42-288.0 meters @ 1.36 gpt Au (CM21-02); 131.98-154.84 meters @ 1.36 gpt Au (D20-03); 80.77-121.92 meters @ 2.73 gpt Au (D20-04) and 141.7-163.37 meters @ 3.41 gpt Au (D20-06). (resource = 2,556,000 tonnes @ 2.12 gpt Au inferred) *Press Release:* June 15

Coeur Mining Inc. announced that recent drill results at the Secret Pass Project include 148.74-186.84 meters @ 1.02 gpt Au (SP20-01); 142.03-184.4 meters @ 1.36 gpt Au (SP20-02); 105.15-190.5 meters @ 1.02 gpt Au (SP20-03) and 189.28-206.04 meters @ 4.44 gpt Au (SP20-04). (resource = 3,534,000 tonnes @ 1.65 gpt Au inferred) *Press Release:* June 15

Silver One Resource Inc. announced that recent drill results at the Candelaria Project include 349.0-352.04 meters @ 0.2 gpt Au, 146 gpt Ag (SOC20-

067); 111.25-141.73 meters @ 0.06 gpt Au, 40 gpt Ag (SOC20-068); 432.82-446.53 meters @ 0.19 gpt Au, 154 gpt Ag (SOC20-071A) and 156.97-164.59 meters @ 0.73 gpt Au, 563 gpt Ag (SOC20-073). (resource = 12,384,000 tonnes @ 0.10 gpt Au, 110.2 gpt Ag measured+indicated) *Press Release:* May 26

Ridgeline Minerals Corp. announced that recent drill results at the Selena Project include 221.0-245.4 meters @ 12.3 gpt Ag, 0.1 gpt Au (SE21-023); 249.9-254.5 meters @ 421.0 gpt Ag, 0.6 gpt Au (SE21-024) and 239.3-283.5 meters @ 123.4 gpt Ag, 0.1 gpt Au (SE21-025). *Press Release:* June 15

Titan Mining Corp. announced that it terminated its interest in the Mineral Ridge Property of Scorpio Gold Corp. *Press Release:* June 4

Eminent Gold Corp. announced that it acquired an option to earn a 100% interest in the Gilbert South Property from Orogen Royalties Inc. for \$875,000 cash and 500,000 shares over 5 years. *Press Release:* June 24

Ely Gold Royalties and Gold Royalty Corp. announced that they would merge with Gold Royalty offering \$1.46/share cash for each Ely Gold share. *Press Release:* June 21

Corvus Gold Inc. announced that recent drill results at the Mother Lode Project include 319.13-328.86 meters @ 1.43 gpt Au (ML20-173CT) and 315.65-433.93 meters @ 1.84 gpt Au (ML20-193CT). (resource = 13,226,000 tonnes @ 1.72 gpt Au measured+indicated) *Press Release:* June 24

Contact Gold Corp. announced that recent drill results at the Green Springs Project include 12.19-51.82 meters @ 1.28 gpt Au (GS21-48) and 9.14-33.53 meters @ 0.82 gpt Au (GS21-49). (resource = 754,500 tonnes @ 2.05 gpt Au inferred) *Press Release:* June 28



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GSN has rescheduled the in-person meeting to Spring 2022 to assure the health and safety of our members and attendees. We appreciate your continued interest and support in the transition to the 2022 dates. There will likely be changes to the Technical Program, Field Trips and Short Courses. We have received support from those involved to accommodate changes.

Specialty License Plates to Honor Mining in Nevada

Reno, NV (July 12, 2021) – The Northern Nevada Section of the Society for Mining, Metallurgy & Exploration (“Northern Nevada SME”) is pleased to announce the availability of a specialty Nevada license plate to honor Mining in Nevada. These plates are available through local Nevada Department of Motor Vehicles (“DMV”) offices, or they can be ordered online through the DMV website, <https://dmv.nv.gov/>.



Northern Nevada SME first submitted a request for a specialty plate to honor mining in December 2011, and the DMV approved the request in August 2018. Northern Nevada SME solicited design ideas for the plate from its membership and from other professional societies. The winning design for the plate was submitted by Patsy Moran, PhD, SME Registered Member, and fine-tuned with help from numerous Nevada SME members. “We have been working to make this plate available for a long time, and we are pleased with the final result. It honors both the past and future of mining in our state. Any supporter of mining and its vital role in Nevada should be proud to have this plate on their vehicle,” stated Chris Blue, chairman of the Northern Nevada SME.

The DMV provides a portion of the proceeds from the sale or renewal of each Mining plate to the Northern Nevada SME [to fund scholarships for Mining Engineering, Geology, Metallurgy, and other mining-related fields at Nevada universities](#). The number and amount of the scholarships will depend on the number of plates sold. The number of authorized specialty plate designs is limited by the Nevada legislature. In order to keep the Nevada Mining plate available for new registrations, at least 1,000 must be registered by December of 2022, and at least 1,000 active registrations must be maintained annually thereafter.

The Mining plates are available to be personalized and are also available in a smaller size for motorcycles and trailers. Northern Nevada SME plans to raise additional funds for the scholarship by auctioning rights to the first 100 plate numbers, 0000 through 0099. The auction will be conducted through Bidder Sweet Auction Company, <https://www.bidder-sweet.com/>.

About Northern Nevada SME

The Northern Nevada Section of SME is a Reno, Nevada based local section of the Society for Mining, Metallurgy & Exploration, a professional society dedicated to serving the mining, resources and underground construction communities for a sustainable future. For more information on the auction for the first 100 plate numbers, contact Michael Norred, mike@techbase.com. For more information on the Northern Nevada SME scholarships, contact Sarah Lightner, slightner@geopros.com.

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AIPG will host its National Conference as an in-person event experience where all individuals onsite, including attendees, guests, speakers, staff, and venue personnel, remain safe and comfortable throughout our event. We are continuing to monitor the COVID-19 pandemic through federal, state, and local authorities. Website: <https://aipg.org/page/2021CANationalConference>



One of our GSN Members sent this to me in May and we thought it might be of interest to some.

Reprinted from ICMJ's PROSPECTING and MINING JOURNAL, MAY 2021—www.icmj.com

LEGISLATIVE AND REGULATORY UPDATE

by Scott Harn

• Governors push back on Biden's public lands acquisition plan

Fourteen governors signed a joint letter to President Biden in opposition to his directive to develop a plan to conserve 30 percent of the land and waters in the United States by 2030.

The letter states:

The undersigned are not aware of any constitutional or statutory authority for the President, the US Department of the Interior, the US Department of Agriculture, or any other federal agency to set aside and permanently conserve 30 percent of all land and water in the United States, and no authority is referenced in Executive Order 14008.

While the Order does not identify which lands may be targeted

by the program, the Department of Interior released a fact sheet on the same day finding that only 12 percent of America's lands are currently "conserved," the level of restriction, it appears, your Administration is seeking under the new policy. Included in the figure are Wilderness lands, National Parks, National Wildlife Refuges, State Parks, National Monuments, and private lands with permanent conservation easements.

Some of us govern western states with massive amounts of lands in the categories mentioned above or other federal designations that should be considered as "conserved." We are deeply concerned about any effort to enlarge the federal estate or further restrict the use of public lands in our states.

And even for those of us leading states without swaths of federal land, we oppose any increase in land use restrictions on lands under our state jurisdiction. Assuming there is some authority which would al-

low the program, obtaining the 30 percent goal from state or private lands would require your Administration to condemn or otherwise severely limit the current productive uses of such lands, infringing on the private property rights of our citizens and significantly harming our economies.

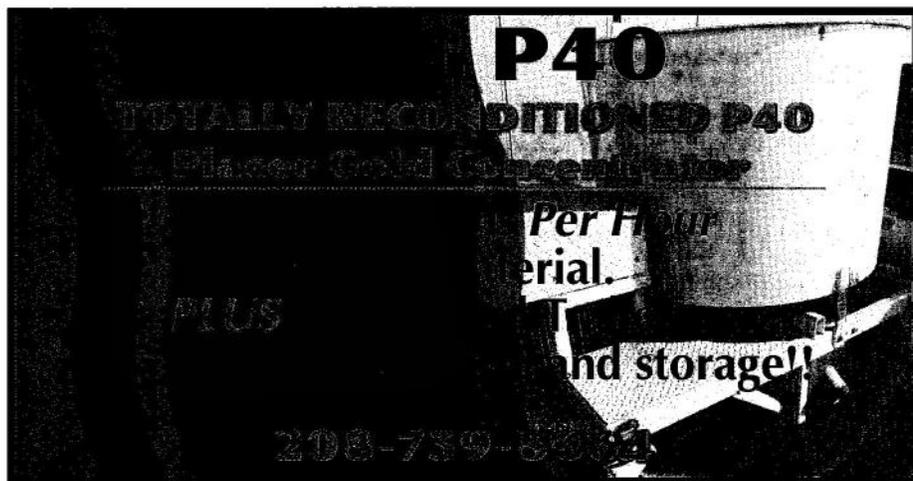
In addition to declaring his intent to conserve 30 percent of US land and water, President Biden has left individual states out of the process thus far.

President Biden's order "directs the Department of Interior to submit a report to the National Climate Task Force within 90 days, recommending steps that the United States should take, working with State, local, Tribal, and territorial governments, agricultural and forest landowners, fishermen, and other key stakeholders, to achieve the goal of conserving at least 30 percent of our lands and waters by 2030."

"To date, we have not been adequately consulted on the 30 x 30 program. Rather, instead of coordinating with us as the Order directs, on February 11, 2021, the Department of Interior rescinded Secretarial Order 3388, revoking the policy requiring consent from states and their local governments for federal land acquisitions under the Land and Water Conservation Fund."

The governors ask how the current administration plans to ensure the public maintains access for recreational activities and if "livestock grazing, mining and energy development" will be allowed.

The letter was signed by the governors of Alabama, Alaska, Arizona, Arkansas, Idaho, Iowa, Mississippi, Montana, Nebraska, North Dakota, Oklahoma, South Dakota, Tennessee, Texas and Utah.



OTHER UPCOMING EVENTS

September 10-12, 2021: The NMEC (Nevada Mineral Exploration Coalition) is hosting the 8th Annual Great Basin Rendezvous. The event will be held at the Royal Peacock Opal Mine in northern Nevada. Contact Dave Shaddrick, dshaddrick@aol.com or Warren Thompson wfthompson@frontiernet.net for more information. <https://nvmecc.org/>

September 14-17, 2021: **SEG is celebrating its 100th anniversary in 2021.** www.seg100.org

The annual conference showcases the new science and thinking that will benefit society in the future, framed by the understanding of the scientific accomplishments in economic geology and mineral discoveries over the last 100 years. We look forward to seeing you online at this virtual event and if possible, in Whistler, BC, Canada.

September 14, 2021: **NWRA 2021 Water Rights in Nevada Class.** 8:00 a.m. to 4:00 p.m. at the Winnemucca Convention Center in Winnemucca, Nevada. Register by August 27, 2021 for early rates. Go to <http://www.nvwra.org/2021-sept-water-rights-class> for class information and registration. For questions or more information call Tina Triplett at 775-473-5473 or nevadawaterresources@gmail.com.

September 14-15, 2021: **NWRA 2021 Nevada Gold Mines Tour of Turquoise Ridge Mine.** Departure from Winnemucca Convention Center in Winnemucca, Nevada. Register by August 20, 2021 for early rates. Go to <http://www.nvwra.org/2021-nevada-gold-mines-tour> for tour information and registration. For questions or more information call Tina Triplett at 775-473-5473 or nevadawaterresources@gmail.com.

September 15, 2021: **NWRA 2021 Advanced Water Rights in Nevada Class.** 8:00 a.m. to 3:30 p.m. at the Winnemucca Convention Center in Winnemucca, Nevada. Register by August 27, 2021 for early rates. Go to <http://www.nvwra.org/2021-sept-advanced-water-rights-class> for class information and registration. For questions or more information call Tina Triplett at 775-473-5473 or nevadawaterresources@gmail.com.

October 12-13, 2021: **NWRA 2021 Minerals & Mine Water Management Symposium.** Held at the Nugget Casino Resort in Sparks, Nevada. Register by September 1, 2021 for early rates. Go to <http://www.nvwra.org/2021-symposium> for Symposium information, program information and registration. For questions or more information call Tina Triplett at 775-473-5473 or nevadawaterresources@gmail.com.

October 23-26, 2021 AIPG Annual Meeting; *Role of Geoscientists for Resiliency, Sustainability and Opportunities in a Changing Environment*, Sacramento, CA. Submit abstracts at: <https://aipg.org/page/2021CACallforAbstracts>

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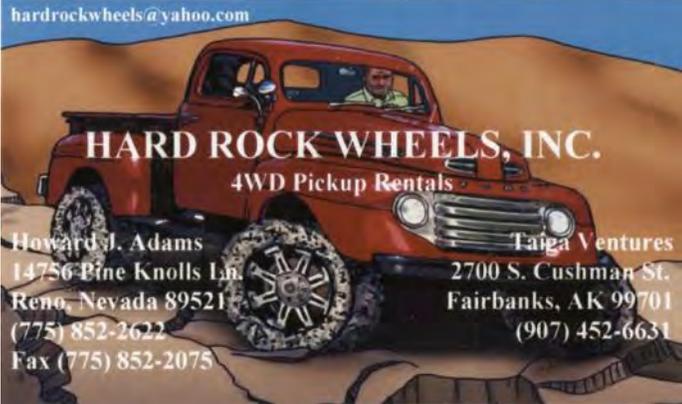
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The 2020 Proceedings are still available for purchase as a 2-volume hardbound set (\$250 + shipping), USB drive (\$100) or digital download (\$100). These can be ordered online through the GSN Symposium Website. Here is a direct link to the order page:

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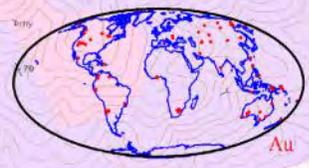


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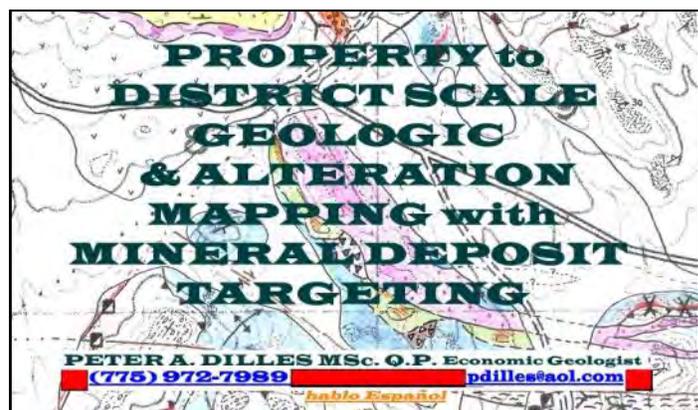
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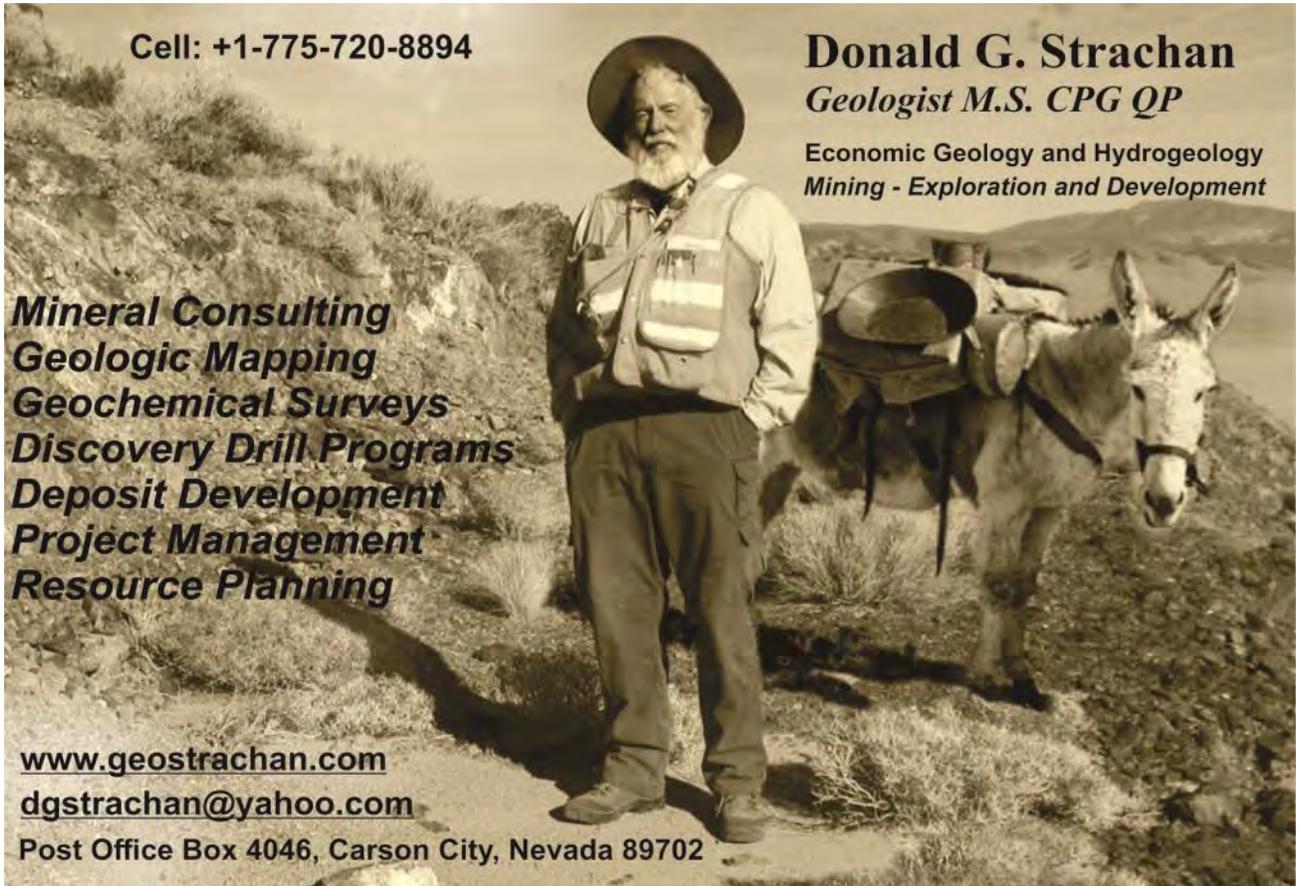
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GSN Member, Lane Griffin has been out and about in Nevada again! He always has his trusty GSN Symposium bag with him to capture that perfect photo op! "The first one we call the skull, and is located in Wright Canyon, Humboldt Mountains, Pershing County and the other is located in the Garfield Hills near Hawthorne, Mineral County."

