



GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Room 107, Reno, NV 89512
(775) 323-3500 - Hours Tuesday -- Friday, 8 a.m. to 3 p.m. Monday by appointment.
Website: www.gsnv.org • E-mail: gsn@gsnv.org



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CALENDAR OF GSN EVENTS

Date TBA

SO. NEVADA CHAPTER MEETING

Possible joint Holiday Party potluck with the So. Nevada section of the AEG group. Details to be announced by email. Please contact Chapter President, Paul Dockweiler for information @ PDockweiler@Geosyntec.com

Dec. 13, 2017
WEDNESDAY



THE GSN CHRISTMAS MEETING, SILENT AUCTION & RAFFLE!! PLEASE DONATE RAFFLE & AUCTION ITEMS TODAY!

The GSN's annual Christmas meeting and Foundation Fundraiser at the Nugget Casino Resort, Sparks, NV. Silent Auction/Drinks-6:00 pm; Dinner-7:00 pm; Live Gold auction-7:45 pm; Talk-8:00pm. Speaker: David Boden, Truckee Meadows Community College. Title: "Baikal: A Lake of Superlatives". Sponsors are: **INTEGRA RESOURCES AND KINROSS GOLD!** Dinner cost is \$50 Please make reservations for dinner with Laura Ruud, by emailing gsn@gsnv.org or call her at the GSN office: 775-323-3500.

Dec. 14, 2017
THURSDAY

WINNEMUCCA CHAPTER HOLIDAY MEETING & SILENT AUCTION!

Refreshments and Silent Auction starts at 6:00 pm, Talk at 7:00 pm. Speaker: Joe Laravie, Great Basin GIS. Title: "Geo-Adventures in Finland". Food and Drinks Sponsored by: **CGS MULE**. For more information please contact Chapter President, Matt Fithian @ Matthew.Fithian@ssrmining.com. AUCTION ITEMS STILL NEEDED! Please contact Tony Gesualdo @ anthony.gesualdo@gmail.com



Dec. 16, 2017
SATURDAY!

ELKO CHAPTER HOLIDAY MEETING & SILENT AUCTION!

Drinks and Silent Auction starts at 6:00 pm, Dinner at 7:00 pm, Live entertainment during the event! Dinner and Drinks Sponsored by: **LEGARZA EXPLORATION and BOART LONGYEAR**. For more info please contact Mark Travis, mark.william.travis@gmail.com. AUCTION ITEMS STILL NEEDED!



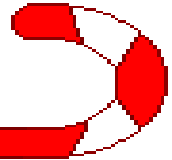
G.S.N. DECEMBER SPONSORS!

INTEGRA RESOURCES



KINROSS

**FROM THE PRESIDENT
J. Kelly Cluer, GSN President 2017-2018
DECEMBER 2017**



Dear GSN Members:

First I want to thank Max Baker and George Salamis of Integra Resources for agreeing to give a talk on DeLamar at short notice for the November meeting. As expected, Max did a bang-up job and got the crowd talking about this forgotten epithermal precious metal camp. And once again Steve Neilsen (Envirotech Drilling) kept the lips generously lubricated - thanks Steve! Let Steve drill some holes for you, something interesting just might be found!

It's hard to believe the last month of the year is here, and a busy December it will prove to be.

I hope to see you all at the GSN Christmas dinner on the 13th, and encourage everyone to donate to and participate in the fine auction of unique items you will only see at this venue. Last year I was able to clean out a storage shed and call it donations... Rumors are circulating this season that some fine gold specimens will be on the block. All proceeds benefit the GSN Foundation, so come on out with a generous wallet!

For the evening speaker we have Dave Boden (your stalwart Publications Chair) lined up to present a geo-travelogue lecture on his recent excursion to Lake Baikal. Once you comprehend the mysterious depths of this lake, you'll forget all about the fantastic sums of money you spent on auction items.

Since it's such a busy month, no one will mind if we keep this message short.

Happy Holidays!

J. Kelly Cluer

***The G.S.N. wishes to
thank
ENVIROTECH DRILLING
for sponsoring
the November GSN
meeting in Reno!***



GSN HOLIDAY MEETING - DECEMBER 13, 2017



SPEAKER: DAVID R. BODEN, TRUCKEE MEADOWS COMMUNITY COLLEGE

TITLE: “Baikal: A Lake of Superlatives”

Social Hour, Silent Auction and Raffle begin @ 6:00 pm; Dinner @ 7:00 pm;

LIVE GOLD AUCTION @ 7:45 pm and Speaker to Follow @ 8:00 pm

Location: Nugget Casino Resort’s Rose Ballroom, 1100 Nugget Ave., Sparks, Nevada

DINNER COST—\$50.00 per person. RAFFLE TICKETS—\$1.00 Each.

(You will be invoiced \$50 if you do not cancel your reservation by Monday, Dec. 11th)

For dinner reservations, please e-mail gsn@gsnv.org or call 775-323-3500

Reservations due by 5 p.m. on FRIDAY, DECEMBER 8, 2017!

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Baikal: A Lake of Superlatives

By Dave R. Boden

Truckee Meadows Community College

While growing up, I had some perhaps peculiar interests, including obsessing over my home’s two-foot diameter globe and reading about exotic places in the hefty Times’ Atlas. One of those places was a sickle-shaped swath of blue in central Asia called Lake Baikal. After learning about its many unique characteristics, I resolved to go there someday and last summer I did and was wowed by its beauty and scale. Although I have checked Lake Baikal off my bucket list, I continue to add new items, naively thinking this will make me somehow stick around longer.

Lake Baikal is located in southern Siberia in the Russian Federation and its southern shoreline lies about 100 km north of the Russia-Mongolia border. This lake is truly a natural wonder as it is the largest (by volume) and oldest body of fresh water on the planet (at least 25 million years old). It is also the deepest lake at 1636 meters (5366 feet), putting the bottom of the lake about 1200 m (almost 4000 feet) below sea level. Lake Baikal extends some 640 km in length, which is only about 150 km less than the length of Nevada. As discussed further in the talk, Lake Baikal lies within a very active intracontinental rift zone and may serve as a modern-day analog of continental break-up of the planet’s currently largest land mass.

The volume of water stored in Lake Baikal is enormous—enough water to fill nearly 160 lakes the size and volume of Lake Tahoe. If a river the size of the Amazon (by far the largest river on Earth by discharge, about 5 times that of the Congo, the second largest river) were to drain Lake Baikal, it would take nearly 4 years. For a river the size of the Mississippi, it would take almost 50 years to drain Lake Baikal. Bottom line, Lake Baikal is an exceptional natural resource that contains about 20% of the world’s supply of fresh water.

The talk will explore Baikal’s remarkable natural history, including some remarkable geological elements and unique flora and fauna, and will also look at how the lake influenced human/cultural development in the region. The lake plays a central role in the creation of local myths that have become part of Russian folklore. Russian writer Valentin Rasputin praised Baikal well when he wrote: “How good it is to have Baikal! Mighty, rich, majestic, and beautiful in so many ways, regal and untamed—how good that she is ours.”

Bio for Dave R. Boden

Dave is currently Professor of Geoscience at Truckee Meadows Community College in Reno, Nevada. Before joining TMCC in 2003, he taught chemistry and earth science at Reno High School for 5 years and prior to that, like many of you, explored for base and precious metal deposits. In that capacity, he worked for many companies that now no longer exist, including Anaconda, Copper Range, Echo Bay, Corona Gold, Homestake, and Lac Minerals—indeed a checkered past if there ever was one.

Dave has degrees in geology and geological engineering from UC Davis, Colorado School of Mines, and Stanford University. He recently wrote a book entitled, *The Geologic Fundamentals of Geothermal Energy*, which draws upon his teaching about geothermal energy and preceding years looking for mineral deposits—the fossil analogs of today’s geothermal systems. Dave considers the book, although published, still very much a work in progress. He is currently publication manager of the Geological Society of Nevada and is also a member of the Board of Directors of the Geothermal Resources Council, where he chairs its Education Committee. When not teaching (or speaking), Dave enjoys traveling to places off the beaten path and hiking and skiing in the backcountry with family and friends.

“FACES OF GSN”

STEVEN WEISS

It's Thanksgiving of 2017 as I write this and I am in my third year serving as GSN's Secretary. I have much to be thankful for, not the least of which has been a satisfying, 35+ year career in geology with various roles in industry and academia. I am not sure when I joined the GSN, probably in the late 1980s or early 1990s, but since then I have appreciated the comradery, exchange of ideas and the professional connections membership has brought my way.

I was born and raised in Cleveland, Ohio, where my father owned and operated a zinc and aluminum die-casting foundry. My mother wanted me to be a doctor or lawyer, or failing that, an insurance salesman, but during the winter when I was eleven years old she started me in a weekly ski school. There was a rope tow and a tiny chairlift on an icy slope by the Cuyahoga River. I was hooked on skiing immediately, and this eventually resulted in me becoming a geologist.

It happened by way of the Colorado College where I enrolled hoping to ski, but graduated with a Geology degree in spite of myself. It was 1978; if you could spell R O C K in those days you could get a job, and I landed one with Noranda where they paid me to camp out, map, collect samples and log drill core, looking for uranium and molybdenum in western Utah. John Cleary was hired in 1979 to supervise our group of young field geos. After two field seasons I went to work for AMOCO Minerals exploring for porphyry molybdenum, silver and gold deposits in central Nevada.

In 1982, I enrolled at the Mackay School of Mines to study calderas, magmatic activity and related mineral deposits for a MSc degree. Don Noble was my thesis advisor for a mapping and paleomagnetic study of the Stonewall Mountain volcanic center near Goldfield, Nevada. Some of my classmates and friends at Mackay were Rich Perry, Tench Page, Hank Ohlin, Nancy Wolverson, Don Hudson, Karl Frost and Richard Knox.

I married my wife Ann and we moved back to Cleveland in 1984 to work in my father's foundry business. We found it pretty miserable and returned to Reno in 1987. Don Noble and Larry Larson hired me as a Research Associate in the Department of Geological Sciences at Mackay, a grant-supported position that I held for nine years. My work was mainly in southern Nevada, in the Bullfrog Hills, Yucca Mountain and the Nevada Test Site, and the Nellis Bombing and Gunnery Range, but there were also projects in the Sonoma volcanic field of northern California and in the Long Valley caldera of eastern California. On the side, I earned a PhD on the hydrothermal activity associated with magmatism of the Timber Mountain caldera in southwestern Nevada. During this time it was my good fortune to work with and learn from Larry Garside, Steve Castor, Chris Henry, Joe Tingley, Hal Bonham, Jon Price, Andy Wallace, Jim Greybeck, John Livermore, Roger Steininger and Bob Thomas.

I left Mackay in 1997 to pursue freelance exploration work. Roger Steininger connected me with Royal Gold and I joined their team exploring for epithermal gold-silver deposits in Milos, Greece for a year. There I met and worked with Frank Howell. That was followed by four years working for AngloGold Ashanti in northern Nevada and at Cripple Creek, Colorado, with John Watson, Glenn Asch, Mark Reischman, Pete Shabestari, Russel Myers and Jake Margolis. Our assignment was to find an entirely new Carlin Trend somewhere in Nevada, preferably open for staking, and needing very little drilling. We were not successful. AngloGold laid us off in 2003 and bailed out of Nevada. (cont. on page 5)

Face of GSN– Weiss (cont. from page 4)

That layoff led to a long-lasting adventure when, later in 2003, I was hired by Charlie Ronkos at Glamis Gold to explore the El Sauzal high-sulfidation gold deposit and vicinity in Chihuahua, Mexico. Glamis was in the early stages of constructing a new, 6,000 tpd gold mine at El Sauzal, located in a deep canyon below the Barranca del Cobre. It was rough, but spectacular country. I spent five years there. It was a great experience helping to bring a new deposit into production and extend the mine life. I learned a lot about building and managing an exploration team, evaluating prospects, finding and drilling out new resources, and converting them to reserves, all the while a guest in someone else's country. Besides Charlie Ronkos, I received support during those years from Brian Brodsky, at the time Glamis' Manager of Exploration in Guatemala, and James Carver, the Chief Geologist at the Marigold mine.



Glamis merged with Goldcorp in 2006 after Glamis acquired the Peñasquito gold-silver-zinc-lead deposit in northern Zacatecas. In 2009, Goldcorp transferred me to northern Zacatecas to manage exploration projects peripheral to Peñasquito. Gassaway Brown was running the multi-drill definition of Peñasquito, which is a complex of two, adjacent mineralized diatremes almost entirely covered by post-mineral surficial units. Jeff Edwards worked extensively for Glamis and Goldcorp at the nearby Noche Buena gold skarn deposit, and previously at Marlin in Guatemala. About that time, John Wood came on board as Goldcorp's Director of U.S. and Latin America Exploration, and Charlie was promoted to Senior Vice-President of Exploration.

In 2010, Gassaway was transferred to Argentina and I began working on the Camino Rojo gold deposit, a 3.4 million ounce gold resource about 60km from Peñasquito, which Goldcorp had just acquired from Canplats Resources. I began to assemble a team of Mexican exploration geos, built a camp, and with guidance from Charlie and John, validated the shallow oxide portion of the resource and began to expand the deposit. The Zetas increased their presence in the region and security deteriorated, but we carried on and at times I had as many as 12 core drills operating simultaneously. By the end of 2012 we were well into metallurgy, geotechnical studies and infill drilling of the deeper, unoxidized deposit that Canplats had only tagged the uppermost part of. We achieved reserve status for 1.6 million ounces of gold and 32 million ounces of silver. Around then I was promoted to Exploration Manager of Mexico.

After 10 years working in Mexico, I left Goldcorp late in 2013 to spend more time with family and work closer to home in Reno. By then we had discovered and defined another 8 million ounces of gold and 60 million ounces of silver in sulfide resources at Camino Rojo, in addition to the oxide reserves.

Since 2014 I have had the pleasure of working for Steve Ristorcelli, Michael Gustin, Paul Tietz, and Cami and Neil Prenn at Mine Development Associates, for Russel Myers and Mark Reischman at Corvus Gold, and for Nancy Wolverson at Paramount Gold Nevada. Part of what I like about being a geologist is the excitement of the hunt to bring new wealth from the ground. But, of equal importance, I enjoy the people I have come to know along the way, and a great many of them are connected to me through the GSN.



GSN WINNEMUCCA CHAPTER HOLIDAY MEETING & SILENT AUCTION

THURSDAY DECEMBER 14, 2017 (NOTE: NOT ON WEDNESDAY!)

Location: The MARTIN HOTEL, 94 Railroad St., Winnemucca, NV

**Time: 6:00 p.m.—Appetizers & Drinks plus Silent Auction bidding
7:00 p.m.—Talk begins**

Speaker: Joe Laravie, Great Basin GIS

Title: “Geo-Adventures in Finland”

Food and Drinks Sponsored by:



GSN ELKO CHAPTER HOLIDAY MEETING & SILENT AUCTION

SATURDAY, DECEMBER 16, 2017 (NOTE: NOT ON THURSDAY!)

Location: The WESTERN FOLKLIFE CENTER, 501 Railroad St., Elko

Time: Refreshments & Silent Auction @ 6:00 p.m., Dinner @ 7:00 p.m.

Live Entertainment for the Evening’s Festivities!

Silent Auction & Raffle to benefit the Elko Scholarship Fund

Food and Drinks Sponsored by:



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Southern Nevada Chapter Fall 2017 Field Trip Follow Up

Clayton Valley Lithium and The Sump

By Elizabeth Zbinden

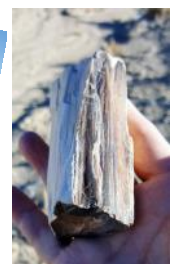
Southern and Northern Nevada GSN members got a chance to mingle in Tonopah and Esmeralda County on the weekend of Nov 3-5, 2017. We learned more about Nevada's latest boom, lithium, and chased down fossils ranging from Cambrian to Miocene in age. We welcomed new GSN student members from Nevada State College and joined forces with the paleontology class from UNLV. Paul Dockweiler and Josh Bonde, respectively the current and past Southern Nevada Chapter presidents, led the trip.

We gathered in Tonopah on Friday evening for dinner and an introduction to lithium exploration from Pure Energy Minerals. Saturday we headed over to Clayton Valley which is the site of the only active lithium mine in the US and the heart of Nevada's recent lithium rush. Albemarle is the current owner of the lithium brine mine, which has been producing lithium carbonate from its evaporation ponds since the 1960's under a series of different owners. Albemarle provided a delicious continental breakfast to go with the presentation. After seeing the desired end result, we continued on to view drill core from two hopeful companies, Pure Energy drilling the current playa sediment and Cypress Development drilling barely lithified uplifted lakebed sediments. No core saw needed, you can cut this stuff with a knife!

We needed to see some hard rock too, so there were also stops at the Vanderbilt claims which produced gold back in the 19th century, and a Cambrian shale "island" in the middle of the playa. Folks with very sharp eyes found trilobite fossils; pink oolites were easier to find.

Sunday we started out with a soak in the Fish Lake Valley hot springs. When the UNLV paleontology class caught up with us, we continued on to The Sump, a valley featuring badlands geomorphology eroded into Miocene volcanic ash-rich sediments. After pushing and digging out of several getting-stuck episodes we reached the entrance to the valley guarded by hoodoos topped by partially-fossilized tree root balls. We hiked in and learned how to identify fragments of tiny mammal bones. A larger Gomphothere skull was excavated from here and now resides in the Las Vegas Natural History Museum, but we found no such macrofossils.

Thank you to our sponsors: Southwest Exploration Services, Geosyntec Consultants, ALS Minerals, National EWP and Pure Energy Minerals. An especially big thank you to Laura Ruud for logistical support!



GSN FOUNDATION

NEWS FROM THE GSN FOUNDATION

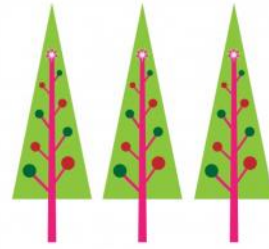
By Cami Prenn, GSN Foundation Chair

The stockings aren't yet hung and Santa's cookies aren't yet baked but GSN is ready for the Christmas Party!! Almost. We toured the Nugget's remodeled ballroom and ordered up the menu for dinner. I think we thought of everything, but probably not; there are a lot of moving pieces.

The prizes are coming in but if you're holding onto something you're donating, please let me know or drop it off. We always get such great gift baskets and mineral specimens and we have a good lineup this year too. We have a beautiful gold splatter from Newmont and two gold specimens; one from Miner's Lunchbox and one from Klondex! THANK YOU!

We're pre-selling raffle tickets again but you still need to bring your address labels to put on them. We'll also be selling raffle tickets during the party so you can buy more when you run out. Please be generous – this is our biggest fundraiser of the year and all money goes to geology scholarships, mapping grants, K-12 field trips, field camp scholarships, and our other programs.

We hope to see you there! It wouldn't be Christmas without the GSN party – right?



AIPG EXPLORATION ROUNDUP Tuesday, December 12th

ATLANTIS HOTEL (new Reno location)
6:00 Open Bar, 7:00 Dinner, 8:00 Program

**Companies to Present are:
NuLegacy, Barrick, Allegiant,
Rye Patch, Renaissance, Premier,
Newmont, Contact Gold**

Meeting Sponsor: Boart-Longyear

\$60 AIPG/GSN Members; \$70 Others
(cash, check)
Mackay Students: Free

Reservations: Kel Buchanan
(summitcrk@aol.com)
775-786-4515, fax: 786-4324
by December 8th, 5:00 p.m.

*Raffle for Mineral Specimens from Mark Stock
to Benefit AIPG UNR Club Field Trips*

*Thank you to our generous
sponsors for the Elko and Winnemucca Chapters
Joint Meeting in Battle Mountain, NV in November!*



Thank you to our generous DONORS in NOVEMBER!

G.S.N. FOUNDATION

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GSN TURNS 60!

Molly Hunsaker, GSN Membership Chair

The Geological Society of Nevada was officially formed December 6th, 1957 and my how we have changed! I don't think that the founding fathers of GSN could have predicted what an amazing organization we would become. We have done countless talks, fieldtrips, and symposiums. GSN provides a platform for the mining and exploration industry that fills a niche in Nevada like no other organization can. GSN now gives back to the geologic community in various ways, GSN has a foundation and board of directors in addition to the executive committee to guide the organization. You can see our founding documents on page 11. The mission and purpose of GSN continues to grow and evolve. I have no doubt the next 60 years will hold revelations we never expected.

As I dove into the history of GSN to write this brief article I learned that the first GSN symposium wasn't held in 1987 but in 1976. Peter Kirwin let us know what in the winter or early spring of 1976 nearly 300 members gathered together at the old Holiday Inn on 6th street. Peter states:

"We felt that the gold deposits of the Great Basin and the potential for more discoveries were substantially underappreciated at the time. We had about nine talks; the morning was mostly general information (regional geology, structure, geochemistry, etc.) and the afternoon was devoted to specific deposits. Barney Berger and Art Radke spoke twice, as I remember. The deposits included Getchell, Mercur, Carlin and, I think, Windfall and Cortez. We had some input from the USGS and, I think, the NBMG. We received a tremendous amount of help from the UNR meetings and conventions group, which we sorely needed, because none of us had ever put on a meeting. We hoped to get 50 or 100 people, and that most of the GSN members would attend. We were wrong; we had more than 300 attendees, a few of whom were from Europe. People were sitting on the floor in front of the lectern and standing along the back walls. We jammed 300 people into that glass enclosed room on the top floor of the hotel for lunch and sent the overflow across the street to Denny's. Unfortunately, the proceedings volume was a stapled together sheaf of abstracts, because we couldn't get the mining company guys to come and speak if they had to write a whole paper."

As the years go by so much remains the same. GSN has always been a place to discuss geology in an open fashion. GSN has always been science driven. GSN continually gets more support and participation than we expect. GSN has a wide reaching audience. GSN is a community.

As we begin our 60th year the Geological Society of Nevada would like to take this opportunity to CELEBRATE our members, volunteers and sponsors, past and present, who have contributed countless hours and dollars over the last 60 years to make us the successful organization we are. THANK YOU! We are looking forward to 60 more years of talks, drinking, discussions, field trips and symposiums!

**If anyone has copies of the 1976 papers from the first symposium please send us a copy!*

HAPPY 60TH BIRTHDAY G.S.N.!

GEOLOGICAL SOCIETY OF NEVADA

Organized Friday, December 6, 1957 at Mackay School of Mines

Officers: President - V. P. Cianella, Professor, Mackay School of Mines, Emeritus.
 Vice - President - D. S. Slemmons, Professor Geology, Mackay School of Mines.
 Program Chairman - R. L. Rose, Nevada Bureau of Mines, University of Nevada.
 Secretary - L. H. Beal, Nevada Bureau of Mines, University of Nevada.
 Treasurer - Wm. P. Johnston, Consulting Geologist, Reno.

Dues \$1.00 one year.

All interested, eligible for membership.

Meetings generally to be second Friday of each month, during the academic year, to coincide with A.I.M.E. meeting date.

Meetings to be at 8:00 p.m., usually in Room 200, Mackay School of Mines

Programs:

- December 6, 1957: "Geology of the Virginia City Quadrangle", by Vincent P. Cianella
- January 10, 1958: "Thermal Remanent Magnetism and the Earth's Magnetic Pole", by Lon S. McGirk, Jr. and "Mining History of Goldfield, Nevada" by W. Smyth
- February 14, 1958: Joint meeting with A.I.M.E. Movie on topographic mapping, discussion on photogrammetric surveys and demonstrations of map making equipment (at office of Cartographers, Inc.)
- March 14, 1958: "Geology of Tungsten, Nevada", by John Middlebrook, "Tungsten Ores of the Victory Mine, Gibbs Exploration Company" by Bernard York
- April 11, 1958: "Structural Geology of Cordero Mine" by Elwin Fisk "Breccia Pipes and Associated Copper Mineralization, Copper Basin Mining District, Arizona", by Wm. P. Johnston
- May 9, 1958: "Geochemical Aspects of Mercury Deposits", by George Tunell
- May 23, 1958: "Stratigraphic Differentiation of Nevada Black Shales by Inorganic Analyses" by Robert Colligan and "Geology of the West Side of Peavine Mountain, Washoe County, Nevada", by Larry Goodwin
 (Special May Meeting)

WOULD YOU LIKE TO ADVERTISE IN THE GSN 2018 MEMBERSHIP DIRECTORY?

Directory advertisements for the 2018 GSN Membership Directory are due **DECEMBER 15th, 2017**. Please let Laura (gsn@gsnv.org) or Molly (mollymariehunsaker@gmail.com) know if you would like a directory ad. A business card ad is \$50.00, a quarter page vertical ad is \$150.00, half page ads (vertical or horizontal) are \$300.00 and a full page vertical ad is \$450.00. A digital version of the ad you would like to place needs to be emailed to Laura or Molly by December 15th. Please fill out the order form below or the one attached with this newsletter.



GEOLOGICAL SOCIETY OF NEVADA
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2018

Offices are located at NBMG's Great Basin Science Sample and Records Library at The Desert Research Institute Campus, 2175 Raggio Parkway, Room 107, Reno, Nevada 89512
 Office hours: 8:00 AM - 3:00 PM, Tuesday through Friday. Mondays call for an appointment.

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3½" x 5"	Quarter Page – Vertical	150.00	
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LANDS BILL MEETING

Friday December 8, 2017

A comprehensive federal lands bill is being proposed for Washoe County, which also goes by the name of Washoe County Economic Development and Conservation Act. The bill includes three distinct components:

- The two draft maps of the greater Reno/Sparks area.
- Names, acreages and maps of federal lands in the northern portion of Washoe County that will be proposed as new wilderness areas

The actual language that accompanies these maps.

For more information or to view the proposed maps please [Click Here](#).

Washoe County is asking for input from you and your group regarding the proposed wilderness area component of the bill. We have scheduled a meeting to hear your input and answer any questions at the Washoe County Commission Chambers inside the Washoe County Administration Complex (1001 E 9th Street, Reno) on Friday, December 8, 2017 from 1-4 p.m.

For questions please contact Jamie Rodriguez by email at JARodriguez@washoecounty.us or by phone at (775) 328-2010.



JOIN TODAY!

Join us and add your voice to the Women's Mining Coalition, a grassroots organization supporting our domestic mining industry. Our message is that of commitment to our nation, our communities, and our livelihoods!

Membership Levels: Standard—\$90; Ace—\$150; Super—\$300; Champion—\$500

Dues & donations can be paid by check sent to WMC's PO Box or using PayPal at www.wmc-usa.org

Activity Update

Mike Brady, October 2017

www.activityupdate.com

NEVADA

Corvus Gold Inc. announced that recent drill results at the Mother Lode Project include 94.7-154.53 meters @ 1.95 gpt Au (ML17-01) and 121.92-164.59 meters @ 1.97 gpt Au (ML17-04). (sulfide resource = 8,545,000 tonnes @ 1.57 gpt Au indicated) *Press Release:* October 11

Thor Mining plc. announced that recent drill results at the Pilot Mountain Project include 198.0-221.3 meters @ 0.21% WO₃ (17DSDD02); 16.7-27.3 meters @ 0.33% WO₃ (17GH-RC-01) and 15.7-28.9 meters @ 0.28% WO₃ (17GH-DD01). (resource = 8,410,000 tonnes @ 0.27% WO₃ indicated) *Press Release:* October 9

Longford Resources Ltd. announced that it acquired an option to earn a 100% interest in the Columbia Cu/Co Property from Columbia Summit LLC. for \$40,000 cash, 50,000 shares and a final future payment of \$250,000. *Press Release:* October 9

Kinross Gold Corp. announced that it would develop the Phase W Project at the Round Mountain Mine at a capital cost of \$445,000,000. Phase W in

cludes a new carbon-in-column plant, a new heap leach pad and the expansion of the existing pit to the west and deeper.. (reserve = 57,000,000 tonnes @ 0.70 gpt Au proven+probable) *N.M.:* October 2

ML Gold Corp. announced that based on recent drill results at the Palmetto Project, resources aggregate 10,134,000 tonnes @ 0.95 gpt Au, 7.3 gpt Ag inferred open pit and 98,000 tonnes @ 3.60 gpt Au, 10.8 gpt Ag inferred underground. (no previous estimate) *Press Release:* October 2

Bravada Gold Corp. announced that recent drill results at the Baxter Project include 48.8-57.9 meters @ 0.31 gpt Au (BAX17-02) and 198.6-201.65 meters @ 3.7 gpt Au (BAX17-07). *Press Release:* October 23

Kinross Gold Corp. announced that it terminated its interest in the Baxter Property of Bravada Gold Corp. *Press Release:* October 23

OBITUARY

DR. JOHN MOSS GUILBERT, 1931-2017



GUILBERT, Dr. John Moss 86, world renowned Economic Geologist & Professor Emeritus in Geosciences at UofAZ left this earthly plane on Tuesday, October 17, 2017. He passed peacefully, with loved ones, after living a long life full of curious optimism. Dr. Guilbert lived in Tucson for more than 50 years and resided in Oro Valley. Born in Newton, MA, May 12, 1931, he grew up in Dedham, MA, attended school near the Patagonia Mts. Of S. AZ and began his academic career at UofNC where he received his BS in 1953; MS in 1955 and PhD in 1962, both from UofWI, studying Geology. He met and married the love of his life, Mary Willing Clymer, June 19, 1954; they lived in MT for several years and welcomed four children, Anne, David, Linda and Paul. In Butte, MT John established, with just a few specimens and tools, The World Museum of Mining. He began teaching geology at UofAZ in 1965, and had profound influence in Economic Geology around the world, in N. America, S. America, Africa, Asia, Europe and Australia. Achievements include developing the prosperous Bajo de la Alumbrera copper mine in Argentina after discovering it in 1976 and authoring the classic economic

geology textbook in 1986, "The Geology of Ore Deposits" (with C.F. Park Jr.), still used today. He was an esteemed member of the Society of Economic Geologists since 1965 and worked on the most important breakthrough in mineral exploration in the last 100 years, the Porphyry Copper Model, co-authored with Dr. J.D. Lowell. This led to him being the recipient of mining's two most prestigious awards, back-to-back, the R.A.F. Penrose Medal and D.C. Jackling Award. Since retirement in 1993 he was involved in numerous organizations, including OLLI/SAGE and served as board member for organizations of interest. In addition to hobbies of tennis and hiking, Dr. Guilbert continued to learn and teach for the rest of his days; he was a consummate academic and teacher at heart. His receipt of other awards and commendations throughout his lifetime is countless. Dr. Guilbert is survived by children, Linda Guilbert Johnson and Paul Clymer Guilbert (Celeste) and daughter-in-law, Sharon Myers. He had numerous grandchildren and step-grandchildren, plus was able to see the generation of great-grandchildren begin. He also leaves behind several beloved nieces, nephews and some life-long friends. He was preceded in death by wife, Mary Clymer Guilbert; after nearly 50 wonderful years of marriage; son, David Moss Guilbert; daughter, Anne Guilbert Richie and sisters, Anne Peebles (Jack) and Carol Dewar (Robert). He also lost the second love of his life, Jan Harelson; she was a longtime friend of John and Mary's, who helped pick up the pieces after Mary passed, with her blessing. A Remembrance for Dr. Guilbert will be held at Tohono Chul Park located at 7366 N. Paseo del Norte, Tucson, AZ 85704, on Sunday, November 19, 2017, at 5L00 p.m.; all are welcome to attend. Arrive early to enjoy the park, a wonderful botanical garden that John loved. As he was a dedicated philanthropist to lots of causes near and dear, please, in lieu of flowers, make a donation to Primavera Foundation, Community Food Bank or a favorite charity in Dr. Guilbert's name. And go check out some rocks. "I developed an early curiosity -as a teenage boy- in the prospects, mines, rocks, structures and alteration zones of the Patagonia Mts. of S.AZ; I thank them."-Dr. John Guilbert Arrangements by ADAIR FUNERAL HOMES, Avalon Chapel. Published in the Arizona Daily Star 10/29.17.

In Memory of **Peter Alan Drobeck**
March 13, 1954 - November 1, 2017



Peter A. Drobeck passed away in Golden, Colorado on Wednesday November 1, 2017.

Born in Detroit, Michigan on March 13, 1954, he spent his formative years in East Greenbush, NY where he came to appreciate his parents' great love of nature and music. Graduating in 1977 From SUNY New Paltz with a Bachelor of Arts, he went on to pursue his passion for geology at the Colorado School of Mines where he completed his Master of Science in 1979.

His work as an exploration geologist took him to Mexico, Central and South America, Mongolia, India, Africa and Indonesia. He was passionate about finding the next great precious metals discovery. Everywhere he went he enjoyed immersing himself in and getting to know the local culture. His mix of intelligence, charm, mischievous humor and joyful storytelling made him a favorite everywhere. Fortunately his personal passions were portable-fishing, hiking, music, skiing, and especially adventure. He will be missed by many and is survived by his wife Kharen Drobeck, daughter Melissa Mullins, sons Jason and Ale Drobeck, sisters Karen Watson and Susan "Charly" Drobeck, and brother David Drobeck.

A memorial service will be held on December 9, 2017 at 2:00 pm at the First United Methodist Church of Golden.

In lieu of flowers, please make a donation to your favorite charity in honor of Pete.

Arrangements under the direction of Olinger Crown Hill Mortuary, Cemetery & Arboretum, Wheat Ridge, CO.

<http://www.legacy.com/obituaries/name/peter-drobeck-obituary?pid=187205265>

Celebration of Life for Peter Drobeck on December 10th

A Celebration of Life in remembrance of our friend and colleague, Peter Drobeck, is planned for Sunday, **December 10, 2017 from 5:00 – 8:00 p.m.** All are welcome. Pete's family asks that people wear bright clothes (Hawaiian shirt), or a fun hat (like his Mongolian hat) and remember Pete the way he would have celebrated.

The venue is:

ARBOR HOUSE at Maple Grove Park
14600 West 32nd Avenue
Golden, CO 80401

(located on 32nd Avenue, west of Youngfield St., Exit 264 of I-70, in the Applewood neighborhood.)

It will be a pot luck appetizer and beverage occasion, so please RSVP (below) if you will bring one of these, or consider a modest contribution to defray the venue cost. Alcohol is permitted and there are two parking areas nearby.

If you have photos to share, or wish to speak, please contact Mary Little as soon as possible at mariapequena1@yahoo.com as we wish to include as many as possible. These will help make a truly special occasion as we remember Pete.

OTHER UPCOMING EVENTS

4 December: Northern Nevada Section of the SME Holiday Meeting. Circus Circus Hotel, Dinner \$70, Live Band and Silent Auction! For more information email: NnevSME@gmail.com

5 December: Arizona Geological Society. Speaker: Joellen Russell, University of Arizona. Title: "The Ocean's Role in the Climate of the Anthropocene". Sheraton, 5151 E Grant Rd. (& Rosemont), Tucson AZ 85712. More information and online registration: [More information and online registration: Joellen Russell presents The Ocean's Role in the Climate of the Anthropocene](#)

6 December: Great Basin Chapter of the AEG, Reno, NV. Jahn's Lecturer for 2017-2018 Speaker, John Wakabayashi. Title: **Evolution of step-overs and bends along strike-slip faults: Implications for seismic hazards assessment". SURE STAY PLUS HOTEL BY BEST WESTERN, (Hotel name change - same location), 1981 TERMINAL WAY, RENO, NEVADA. SOCIAL HOUR: 5:30 PM; DINNER: 6:30 PM; PRESENTATION: 7:00 PM. RSVP NO LATER THAN 5 PM, MONDAY, DECEMBER 4TH: lucegc@charter.net. Please contact Merrily Graham for more information: mkgraham75@gmail.com.**

11 December: Nevada Petroleum and Geothermal Society Christmas Meeting. NEW LOCATION: Tamarack Junction, 13101 S. Virginia St., Reno, NV. Dinner \$30/person in advance with credit card. \$35/person at the door. RSVP and Information Link for the meeting: <https://www.123signup.com/register?id=hmjhs> Gift exchange and a craft-beer/wine/spirit exchange. Participate in one, both or neither. Please limit price of each item to \$25

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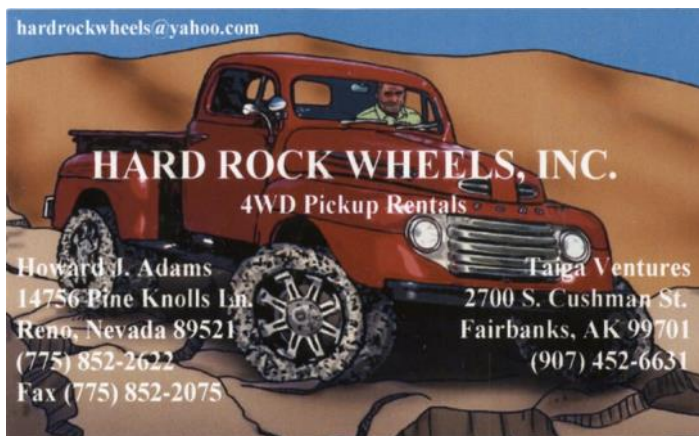
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