

# GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, 2175 Raggio Parkway, Reno, NV 89512 (775) 323-3500 - Hours Monday -- Friday, 10 a.m. to 5 p.m. Website: <u>www.gsnv.org</u> • E-mail: <u>gsn@gsnv.org</u>



#### APRIL 2024 ISSUE, Vol. 40, No. 4

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#### APRIL 10, 2024 WEDNESDAY

#### **GSN WINNEMUCCA CHAPTER MEETING**

Published monthly except June and July

The GSN Winnemucca Chapter Meeting will be held at the Martin Hotel, 94 W. Railroad St. **SPEAKER: Tyler Hill, i-80 Gold. Title: "Host rock and structural influences on Carlinstyle mineralization geometries". FOOD & BEER SPON-SOR: CGS MULE.** For more information, please contact Chapter President, Kris Alvarez at: <u>kalvarez@i80gold.com</u>. Details on pg. 6.

#### АРRIL 18, 2024 <u>G</u> THURSDAY т

#### 24 <u>GSN ELKO CHAPTER MEETING</u> The GSN Elko Chapter Meeting will be held at the Western

Folklife Center, 501 Railroad St. Elko. SPEAKER: Silas Goetz, Graduate Research Assistant- CREG, Dept. of Geological Sciences and Engineering. Title: "Characterization of the Gold Hill low-sulfidation epithermal Au-Ag vein system, Nye County, Nevada". FOOD & DRINKS SPONSOR: TO BE ANNOUNCED. Please contact Chapter President, Luke Schranz, <u>lukeschranz@gmail.com</u> for more information. Details on pg. 7.

APRIL 19, 2024 FRIDAY

#### 2024 GSN REGULAR MEMBERSHIP MEETING

The GSN Membership meeting will be held at the Atlantis Casino Resort, Reno, NV. STUDENT POSTER NIGHT! Come see the large variety of research topics that the students are working on. DRINKS SPONSOR: BOREALIS MINING. Dinner cost is \$60 per person. Please register for dinner online by clicking the link: DINNER RESERVATION or RSVP to Laura Ruud: gsn@gsnv.org. PLEASE Register or RSVP by MONDAY, April 15th! Details on pg. 3.

### **GSN RENO APRIL MEETING SPONSOR**



#### FROM THE PRESIDENT Tony Gesualdo, GSN President 2023-2024 APRIL 2024



Happy Spring! The earth's axis is now tilting slightly toward the sun (in the northern hemisphere) as we continue to make our yearly journey around it. Spring, for geologists in Nevada, means the start of field season, although the first month or so can bring dicey weather. Time to get up out of your office chairs or come down from the ski slopes and get ready to geologize!

And mark your calendars: the GSN Spring Field Trip date is set for the weekend of May 31<sup>st</sup> to June 2<sup>nd</sup>. Patty, our VP, is putting together a trip that will visit two exciting projects in the Bodie Hills: Headwater's Spring Peak Project and Hecla's Aurora Project.

A big thanks to Ken Witherly of Condor Consulting for coming to Reno last month to talk about geophysics. There are a lot of good data that can be used or reprocessed, and it was a good reminder to keep communication open to advance the science and progress projects.

At our April meeting, in lieu of a single speaker, we will have a Student Poster Competition. Many of the posters are graduate projects in the works, so please come and check them out. This is a great opportunity to see what students are working on and how geology ideas and techniques are advancing, along with giving the students feedback for future presentations or thesis defenses. The poster session will be during happy hour with dinner scheduled at our normal time. Winners will be announced after dinner.

April is also my birthday month, which usually means a camping/geology trip somewhere on the east side of the Sierra, far enough south that it is warm. I am on the cusp of Gen X and Millennials, generally my birth year is thought of as the start of the Millennials, so I will claim that I am the first Millennial GSN President!

Cheers,

Tony



Large syncline north of Death Valley National Park, that's me at the bottom for scale.

### GSN wishes to thank our MARCH MEETING sponsors!







### **GSN MEMBERSHIP MEETING—APRIL 19, 2024**

# **STUDENT POSTER COMPETITION NIGHT!**

# **SPONSOR:**



### TIME: Drinks & Posters @ 6 pm, Dinner @ 6:30 pm

### Awards Ceremony @ 7:30 pm

WHERE: ATLANTIS CASINO RESORT, RENO, NV

### DINNER COST: \$60 per person

ONLINE RESERVATIONS CAN BE MADE on the GSN WEBSITE by clicking this link: <u>DINNER RESERVATIONS</u>.

### PLEASE RSVP FOR DINNER NO LATER THAN MONDAY, APRIL 15TH! (Students can register to present a poster until April 5th.)

### 2024 GSN Student Poster Competition—Registered Titles List

POSTER TITLES SO FAR:

Imaging Magma Chambers using Ambient Noise Tomography under the Southern Cascades, Northern California

Redox Evolution of Eocene Great Basin Magmas: Implications for AU Mineralization in Nevada

Constraining Mineralization and Alteration Through New Geologic Mapping at Spring Peak Low-Sulfidation Epithermal System

Understanding Overprinting Mineralizing Systems of the Ruby Hill Deposit, Eureka, NV

Characterization of the Gold Hill low-sulfidation epithermal Au-Ag vein system, Nye County, NV

Preliminary Geothermal Play Fairway Workflow for the Great Basin Region, USA

Investigation of the Stratigraphy and Structure of the Hunter Creek Sandstone in west Reno, NV

# "Faces of GSN" Reid Simmonds, Mina, Nevada

#### Hello,

My name is Reid Simmonds, I am a Senior Geologist working for GRC Nevada Inc. based out of Mina, Nevada. I grew up in Calgary, Alberta, where I fulfilled many Canadian stereotypes, including skiing throughout the Canadian Rockies, indulging in maple syrup and playing Junior hockey throughout Alberta and British Columbia.

My undergraduate degree took me to the University of Victoria, British Columbia, where I obtained my Bachelor of Science majoring in Earth Science. During which, I was privileged to spend two field seasons as a mapping assistant for the British Columbia Geologic Survey. This was a great introduction into the profession, as I was exposed to numerous specialists within the industry and their seemingly endless geologic knowledge. Over two field seasons working in the Canadian Cordillera, I was captivated by the dynamic and expansive challenges that remote helicopter-assisted geologic work necessitates. I can remember watching the helicopter take off over the range, leaving behind a few geologists in an immense 'geowonderland' of mountainous terrain. I knew this was the career for me, blending my passion for science, nature, and adventure all in one. At this point, I decided I should buy a Brunton.

In 2018, I took to industry, specifically, gold exploration. For several years I worked as an exploration geologist for various projects in BC, including at Pretivm's (now Newmont) BruceJack Mine, and Osisko Development's Cariboo Gold Project. A time in my career where many hours and even more meters of core were logged. At peak drill season the core came at unearthly rates, by sling, bed, or sled into the shack to be catalogued, sampled and sent off to the lab. It was organized chaos at its finest, but as I discovered, with the right playlist, those plywood shanties could build camaraderie that would last a lifetime. The targeted deposits and mines included Cu- Porphyry, Epithermal, Orogenic, VMS, and Skarns. Core logging provided a great opportunity to see various fascinating textures, alteration, and mineralization styles associated with such deposits. While working on the Cariboo Gold Project, I was generously promoted to work with a team of structural mapping geologists. This was a phenomenal experience, where I was mentored by an excellent mapping team, that taught me proper structural field techniques, data processing and interpretation. This field season proved to be the catalyst for a newfound interest of mine in the field of structural geology.

In 2022, I decided to search for gold in the Silver State, drawn by its unique geology, renowned mining history, and opportunity to contribute to an exciting exploration department at GRC Nevada. Our exploration office is based out of Mina, in the heart of Nevada's Walker Lane belt. The company holds numerous gold projects ranging from greenfield exploration to production. The pace and variety of work captured my interest, and recently, I stepped into more of a senior role at the company, providing mentorship while planning and coordinating the execution of exploration activities. My primary focus (cont. on page 5) has been on the East Camp Douglas Project, located in the Eastern Excelsior Range. This project has captivated my geologic interest, as it is structurally controlled with evidence of both high – low sulphidation epithermal gold mineralization. In 2023, I wanted to further my technical knowledge, and enrolled in the Applied Masters in Exploration Geology program at Laurentian University in Sudbury, Ontario. I have been very fortunate that GRC Nevada encouraged me to pursue my Applied Master's Thesis Project on East Camp Douglas. With the help of my mentors, colleagues and supervisors, my aim is to further our understanding on the structural controls on gold mineralization. I look forward to continuing to develop the properties held by GRC Nevada and overall promotion of responsible exploration and mining within Nevada.

Away from work, I love spending time with my family in Canada and enjoy exploring the Sierra Nevada's with my girlfriend, April and dog Whiskey. Thank you to the GSN for a warm welcome into Nevada's geological community, I look forward to getting to know more of you at future GSN events!

Cheers,

Reid



Desolation Wilderness with April and Whiskey, Summer 2023





# Wednesday, April 10, 2024

(every 2nd Wednesday)

The Martin, 94 W. Railroad St., Winnemucca

# Food and Drinks at 6 pm, Talk at 7 pm

# Speaker: Tyler Hill, i-80 Gold Corp.

# Title: "Host rock and structural influences on Carlinstyle mineralization geometries"

# **FOOD & BEER SPONSOR:**



### GSN STUDENT POSTER COMPETITION! FRIDAY, APRIL 19, 2024 at the Atlantis Casino, Reno

The Geological Society of Nevada announces their annual *Student Poster Competition* will be held on Friday, April 19, 2024, during the GSN Membership Meeting at the Atlantis Hotel and Casino, 3800 South Virginia Street, Reno, NV 89502, USA.

There will be a first-place prize of \$500, second place prize of \$300 and third place prize of \$200. This year the GSN will also offer a prize for the best Undergraduate Poster. We invite all University of Nevada, Western Nevada Community College, Great Basin College, and Truckee Meadows Community College geoscience and hydrology students to participate. Geoscience students at UNLV, Sonoma State, Sacramento State and Chico State are also invited and welcome to participate.

Student membership in GSN is required (join GSN as a Student Member on-line for \$25 at https://www.gsnv.org/).

Posters will be judged by a panel of GSN volunteers. Poster presenters should arrive at the meeting room in the Atlantis at 5:00pm on April 19th and have their posters up by 5:30pm—judging will start at 6:00pm sharp. GSN will provide student presenters with free dinner starting at 7:00pm. Winners will be announced, and prizes awarded starting at 8:00pm, after dinner.

This will be a casual, sponsored, fun event and a good opportunity for students to showcase their work in progress and interact with the wider, Reno geoscience community.

Students must send their name and poster subject or title no later than April 5, 2024 via email to Steve Weiss (<u>siraweiss@outlook.com</u>) or Tony Gesualdo (<u>anthony.gesualdo@gmail.com</u>).

Thanks, we hope to see you at GSN!

Steve Weiss, Secretary, Geological Society of Nevada

siraweiss@outlook.com







## When: Thursday, April 18, 2024

(every 3rd Thursday)

# <u>Presenter:</u> Silas Goetz Graduate Research Assistant- CREG Dept. of Geological Sciences and Engineering

### Title: "Characterization of the Gold Hill low-sulfidation epithermal Au-Ag vein system, Nye County, Nevada"

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

Where: The Western Folklife Center, Elko, NV

### **FOOD & DRINKS SPONSOR: TO BE ANNOUNCED**

Abstract:

The Gold Hill low-sulfidation epithermal (LSE) vein system is in the Round Mountain mining district of northern Nye County, Nevada, seven kilometers north of the world-class Round Mountain LSE deposit, which has produced >17 million ounces of gold to date. The close spatial and temporal relationship between Gold Hill and the Round Mountain deposit raises the question of whether the two may be genetically related. Gold Hill is an exceptionally well-preserved and extensive Oligocene-age LSE deposit, which has been subject to limited modern research, and thus, still is poorly characterized. Gold Hill also exhibits a high degree of surface interaction, meaning that the top of the system (sinter) should record deeper events; and the deposit shows clear evidence of varying magmatic inputs that are directly correlated with vein paragenesis events. A detailed study of Gold Hill will address gaps in our understanding of caldera hosted LSE deposits and may reveal how magmatic-hydrothermal systems evolve in an LSE environment, and especially, in a unique caldera hosted setting. This study will build on work by RMGC Exploration and generate a refined genetic model of Gold Hill, while examining the fluid evolution of the ore-forming vein system utilizing fieldwork, core-logging, detailed petrography, S-C-O isotope geochemistry, and geochronology.



# Thank You to Everyone Who Donated to the Student Dinner Fund

Thanks to generous members last month, the Student Dinner Fund has been replenished enough to get us through the April and May meetings. Plus, we have a good start for the September 2024 meeting this Fall! We could sure use a bit more for the 2024-25 school year. GSN's motto: No student shall go hungry at GSN!

Fred Barnard Mario Desilets Simon Jowitt Lee Lizotte Patsy Moran Ed Orbock

William Burstow Chris Henry Fleetwood Koutz Anthony Longo Steve Neilsen Ken Witherly Patty Capistrant Don Hudson Chet Lide Allie Macho JoAnn Newbury

### Click this link to **DONATE TO THE GSN STUDENT DINNER FUND**

#### OTHER UPCOMING EVENTS

<u>April 2024</u> DREGS Meeting, Colorado School of Mines, Petroleum Hall, Green Center, Golden CO. No Meeting is Scheduled as of 4/1. DREGS meetings will no longer be streamed live. Meeting recordings will be available on their YouTube channel and website within the week. For more information, please see our <u>Events</u> page.

<u>April 2, 2024:</u> Arizona Geological Society Meeting. Location: Hexagon Mining Division Office, 40 East Congress St, Suite 150, Tucson, AZ. Parking: On the street or parking garage (Old Pueblo Parking). Social Hour with Sandwiches from Beyond Bread (5:30-6:30 PM) Presentation (6:35 PM). Speaker: Brian F. Gootee and Carson Richardson, Arizona Geological Survey. Title: "Basin Evolution, Deformation, and Mineralization in Big Sandy Valley, Northwestern Arizona. More information and online registration: Basin Evolution, Deformation, and Mineralization in Big Sandy Valley, Northwestern Arizona

<u>April 4, 2024</u> Nevada Petroleum & Geothermal Society meeting, Please join us on Thur., April 4th, at 6:30 pm for the monthly meeting at Tamarack Casino 13101 S Virginia St, Reno, NV 89511. Speaker: Kareem El-Sadi - fervoenergy.com. Presentation: To be announced. Click here to register: <u>Register</u> <u>Now</u>. Contact Luis Navarro for more info: 832-707-2778 or email <u>energygeologist@gmail.com</u>

<u>April 8, 2024</u> SME Northern Nevada Chapter Meeting, Circus Circus Mandalay Room, Reno, NV. 6 p.m. Speaker & Topic: To Be Announced. Email: <u>NNevSME@gmail.com</u>. email us about the details. <u>NNVSME Website</u>

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

GEOLOGICAL SOCIETY OF NEVADA 2024-2025 BALLOT	
In accordance with Article V, Section 4 of the GSN Constitution and Article II of the GSN By-Laws, the GSN Executive	
Committee and the GSN Board of Directors are recommending the slate of candidates listed below to serve as Officers for	
The fiscal year 2024-2025 and Directors for 2024-2027. These positions become effective on June 1, 2024.	
The entire GSN membership has the right to vote separately on approving the elected positions to the GSN Executive Committee, and the Class C three-year terms on the Board of Directors as presented below:	
Board of Directors Class A* (three-year term, 1 June 2024 – 31 May 2027)	
Robert Thomas, Independent Geologist	
John Watson, Independent Geologist	
FOR BOTH	AGAINST BOTH
Officers/Executive Committee of GSN (one-year term, 1 June 2024 – 31 May 2025)	
President: Patric	cia Capistrant, Kinross Gold Corp.
Vice President/President-Elect: Steve	e Weiss, Consulting Geologist
Secretary: Josh	ua Miller, CMA Geoscience LLC
Treasurer: Robe	rt Kastelic, McEwen Mining Inc.
Membership Chair: Chris	tian Thomas, Extrados Exploration
Publications Chair: Paul	Fix, AngloGold Ashanti
Digital Media Chair: Peter	O'Byrne, Target Synthesis
FOR SLATE	AGAINST SLATE
VOTE ONLINE HERE	
******	* * * * * * * * * * * * * * * * * * * *
CURRENT GSN MEMBER'S NAME:	
If you are receiving this notice by mail, please either mail yo	standing for 2024. Ballots without a name will not be counted.) ur vote to: GSN, 2175 Raggio Parkway, Reno, Nevada 89512 or scan is ballot to be counted the completed <b>ballot must be received in the</b>
GSN office on or before Thursday, April 18 <sup>th</sup> at 5:00 p.m. Thank you for your participation.	
Please vote electronically by using Survey Monkey at this link: <u>https://www.surveymonkey.com/r/PRNF3W7</u>	
*Elected members of the Board of Directors serve three-year terms, which are renewable at the end of the term. The Class B Directors (terms ending May 31, 2025) are David Caldwell and Greg French. The Class C Directors (terms ending May 31, 2026) are: David Shaddrick and Mark Travis. Other members of the GSN Board include the current GSN President, the GSN Immediate Past President, and current Presidents of the Elko and Winnemucca Chapters. The Nominating Committee includes these latter five individuals and the Chair of the Board of Directors.	

### Society for Mining, Metallurgy & Exploration THE FORUM ON THE GEOLOGY OF INDUSTRIAL MINERALS

The Forum on the <u>Geology of Industrial Minerals (FGIM)</u> is an international meeting of geologists and mining professionals interested in industrial minerals. For over half a century the Forum's focus has been on the geology of industrial minerals with an emphasis on the promotion of the knowledge and organization of mining, mineral processing, regulation, and reclamation through the forum meetings, presentations, and field trips.

The <u>60th</u> Forum on the Geology of Industrial Minerals (FGIM) will meet in Salt Lake City, Utah from April 29 to May 1, 2024. The focus of this year's Forum is Utah and the US Southwest. As one of the Vice-Chairs of this event, I invite the members of the GSN to <u>submit an abstract</u> to accompany presentations to this 60th Forum.

The forum website: <u>https://smefgim.org/</u>. Please also find an attachment inviting abstracts for the forum.



#### Save the Date!

### Brines as a Resource for Critical Minerals

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

Joint Meeting

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

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

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

### Mining Activity Update FEBRUARY 2024, Mike Brady LMBrady@aol.com

#### NEVADA

First Majestic Silver Corp. announced that recent dill results at the Jerritt Canyon Project include 35.2-40.5 meters @ 6.13 gpt Au (SSX23-10); 136.6-156.4 meters @ 4.33 gpt Au (SSX23-11); 123.7-129.8 meters @ 8.97 gpt Au (SSX23-13) and 115.8-121.9 meters @ 4.10 gpt Au (SSX23-20). (resource = 5,207,000 tonnes @ 7.17 gpt Au measured+indicated) *Press Release:* February 7

I-80 Gold Corp. announced that recent drill results at the Granite Creek Project include 432.8-442.2 meters @ 10.6 gpt Au (iGS23-2A); 453.5-458.0 meters @ 28.1 gpt Au (iGS23-4); 477.7-486.3 meters @ 8.3 gpt Au (iGS23-8) and 469.5-474.8 meters @ 13.6 gpt Au (iGS23-10A). (resource = 562,000 tonnes @ 10.49 gpt Au measured+indicated) *Press Release:* February 7

I-80 Gold Corp. announced that recent drill results at the Cove Project include 223.1-230.5 meters @ 7.0 gpt Au (iCHU23-29); 268.3-271.5 meters @ 12.6 gpt Au (iCHU23-30); 243.2-249.7 meters @ 7.3 gpt Au (iCHU23-31) and 290.4-310.6 meters @ 14.4 gpt Au (iCHU23-33). (resource = 1,007,000 tonnes @ 10.9 gpt Au, 20.1 gpt Ag indicated) *Press Release:* February 13

Kinross Gold Corp. announced that reserves at the Bald Mountain mine aggregate 28,265,000 tonnes @ 0.50 gpt Au proven+probable. (was 36,900,000 tonnes @ 0.50 gpt Au proven+probable) *Press Release:* February 14

Kinross Gold Corp. announced that reserves at the Round Mountain Mine aggregate 77,933,000 tonnes @ 0.80 gpt Au proven+probable. (was 97,560,000 tonnes @ 0.70 gpt Au proven+probable) *Press Release:* February 14

Fortitude Gold Corp. announced that recent drill results at the East Camp Douglas Project include 38.1-41.15 meters @ 0.9 gpt Au (ECDRC-98); 24.38-37.1 meters @ 1.63 gpt Au (ECDRC-99); 39.62-65.53 meters @ 0.83 gpt Au (ECDRC-100) and 27.43-33.53 meters @ 1.72 gpt Au (ECDRC-109). *Press Release:* February 21

Fortitude Gold Corp. announced that it acquired the Dauntless/Weepah Property from Nevada Select Royalty Inc. for \$725,000 cash. *Press Release:* February 7

Fortitude Gold Corp. announced that recent drill results at the Scarlet North Project include 41.15-57.91 meters @ 0.72 gpt Au (iPRC-617); 53.34-57.91 meters @ 0.64 gpt Au (iPRC-619); 47.24-57.91 meters @ 0.55 gpt Au (iPRC-621) and 0-15.24 meters @ 0.82 gpt Au (iPRC-623). *Press Release:* January 29

Nevada King Gold Corp. announced that recent drill results at the Atlanta Project include 106.7-157.0 meters @ 1.93 gpt Au, 32 gpt Ag (AT23NS-161); 109.8-146.3 meters @ 3.44 gpt Au, 116 gpt Ag (AT23NS-162) and 120.4-147.9 meters @ 1.25 gpt Au, 59.3 gpt Ag (AT23NS-163). (resource = 11,000,000 tonnes @ 1.3 gpt Au measured+indicated) *Press Release:* February 6

Westward Gold Inc. announced that it completed its acquisition of the Toiyabe Property from Minquest Ltd. by issuing 3,391,800 shares. (resource = 4,523,000 tonnes @ 1.19 gpt Au inferred) *Press Release:* February 20

Headwater Gold Inc. announced that recent drill results at the Spring Peak Project include 129.54-140.21 meters @ 0.48 gpt Au (SP23-26); 117.29-124.36 meters @ 1.48 gpt Au (SP23-29); 208.79-248.87 meters @ 1.51 gpt Au (SP23-31) and 182.27-222.08 meters @ 1.93 gpt Au (SP23-32). *Press Release:* February 13

### ROCK TALK

Mining claim listings per quarter-section and notices/plans per section data for Nevada have been updated! Visit <u>ndomdata.com</u> for the latest!

Nevada Division of Minerals Open Data Site









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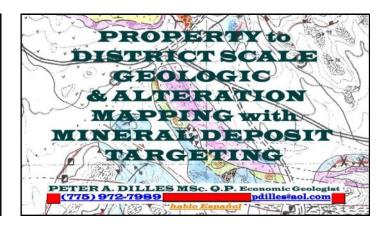
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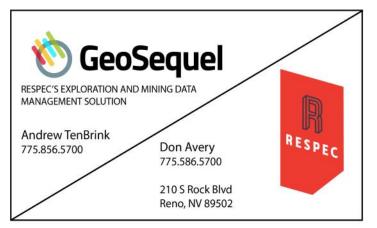
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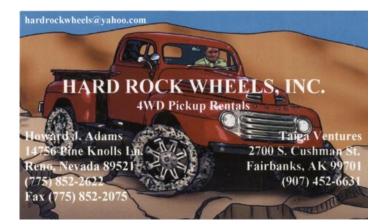
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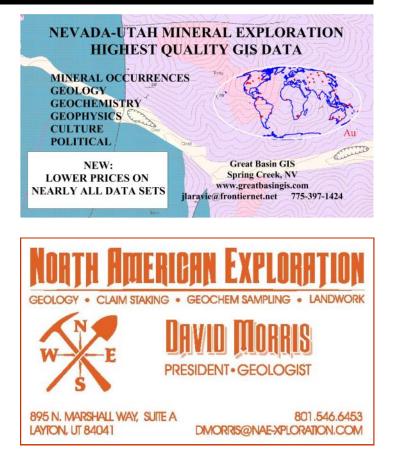


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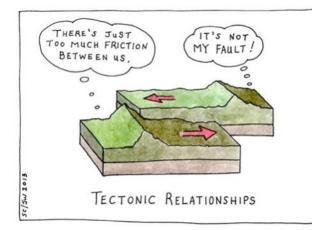


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The GSN appreciates when members and companies offer to pick up expenses for Laura Ruud when she travels to PDAC (like paying for a cab or picking up dinner). Thank you to:

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