

## 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



#### August 2016, Vol. 32, No. 6

Published monthly except June and July

#### **CALENDAR OF GSN EVENTS**

#### Aug 10, 2016 WINNEMUCCA CHAPTER SUMMER BBQ

Wednesday The BBQ will be held at Highland Park, 4220 Water Canyon Rd. (NOTE NEW LOCA-TION!), Winnemucca, NV, 4:30 to 8:00 PM. Food & Drinks Sponsored by: ALS Minerals & Boart Longyear. For more information, please contact Matt Fithian at MFithian@silverstandard.com. Details on page 7.

#### Aug 11, 2016 13TH ANNUAL SUMMER SILVER SERIES BBQ

THURSDAYGuest Speaker: Dr. John Scire, UNR Dept. of Political Science. Topic: Energy<br/>policy and Middle East policy and their interrelationship. Location is at Dan<br/>Kappes's home, 13045 Welcome Way, Reno, NV. 6:00 PM Drinks, 6:30 PM Potluck<br/>BBQ, 7:30 PM talk begins. Sponsors for the evening are Kappes, Cassiday &<br/>Associates, Mine Development Associates, CGS Mule and Hunsaker Inc.<br/>BBQ<br/>meat and drinks will be provided. Please bring an appetizer, side dish, salad or des-<br/>sert to share! Also bring your own lawn chair. Please RSVP by August 5th to Laura<br/>Ruud at the GSN Office, gsn@gsnv.org or 775-323-3500. Details on page 3.

#### Aug 18, 2016 ELKO CHAPTER SUMMER BBQ

Thursday The Elko monthly BBQ will be held at the Duncan Little Creek Gallery Bar Backyard, 516 Commercial St. BBQ begins at 6:00 p.m. Food & Drinks Sponsored by ALS Minerals and TerraCore. For more info. Please contact Mark Travis, mark.william.travis@gmail.com. Details on page 7.

#### Sept. 1, 2016 SO. NEVADA CHAPTER MEETING

Thursday

The monthly meeting will tentatively be held at the Las Vegas Natural History Museum at 900 N. Las Vegas Blvd. **Speaker and Topic: TBA.** Contact Paul Dockweiler for more info. or if you'd like to sponsor or present a talk! <u>paul.dockweiler@cardno.com.</u>

Sept. 23, 2016NOTE CHANGE!! GSN MEMBERSHIP MEETING will be on the 4th Friday in<br/>September instead of the traditional 3rd Friday due to a conflict with the<br/>Elks Lodge. The GSN meeting will be held at the Reno Elks Lodge, 597 Kumle<br/>Lane, Reno, Nevada. Social hour begins at 6 pm, Dinner at 7 pm and talk at<br/>7:45 pm.

## G.S.N. "SILVER" SUMMER SERIES SPONSORS



Kappes, Cassiday & Associates





MINE DEVELOPMENT ASSOCIATES



Alan Coyner Consulting Geologist nevadageo@hotmail.com VICE PRESIDENT

PRESIDENT

Kelly Cluer Kinross Gold Kelly.cluer@kinross.com

SECRETARY Steven Weiss Consultant, Geologist siraweiss@outlook.com

TREASURER Bob Kastelic Consulting Geologist bob\_kastelic@yahoo.com

MEMBERSHIP CHAIR Molly Hunsaker Hunsaker, Inc. mollymhunsaker@aol.com

PUBLICATION CHAIR David Boden Truckee Meadows Community College dboden@tmcc.edu

EXECUTIVE MANAGER Laura Ruud Geological Society of Nevada gsn@gsnv.org

GSN BOARD OF DIRECTORS

Chairman John Watson

Current GSN President: Alan Coyner

Most Recent Past GSN President Elizabeth Zbinden

Elko Chapter President Mark Travis

So. Nevada Chapter President Paul Dockweiler

Winnemucca Chapter President James Carver

Class A, 2015-2018 Robert Thomas John Watson—CHAIR

Class B, 2016-2019 David Caldwell Greg French

Class C, 2014-2017 David Shaddrick Camille Prenn

#### FROM THE PRESIDENT Alan R. Coyner, GSN President 2016-2017 AUGUST 2016

Greetings to all our GSN members wherever you may be! Our membership is approximately 1,315 people and our reach is truly global! Why not make the commitment to encourage one person to sign up as a new member of our society?

I would like to recognize the leadership of our Past-President, Elizabeth Zbinden, and our Membership Chair, Bob Felder, for keeping our membership at near record levels. Similarly, I want to welcome to the Executive Committee our new Vice-President Kelly Cluer and new Membership Chair, Molly Hunsaker. Our organization runs on **volunteers** and we very much appreciate that Steve Weiss, Bob Kastelic, and Dave Boden have decided to continue to serve as Secretary, Treasurer, and Publication Chair, respectively.

Our first activity of the New Year will have already happened by the time you read this. A big thank you to National EWP for **volunteering** to sponsor the 5<sup>th</sup> annual GSN Reno Aces night on July 29. This annual event has become a real fun evening and if you attended you know what I mean!

Hopefully, you have read about and signed up for the 14<sup>th</sup> annual Silver Summer Series. Once again our good friend and GSN member, Dan Kappes, has **volunteered** his beautiful home in South Reno as our host location! And Kappes, Cassiday and Associates, Mine Development Associates, CGS Mule, and Hunsaker, Inc. have **volunteered** to help out with the food and other goodies. Our speaker is Dr. John Scire from the University of Nevada, Department of Political Science and he is speaking on the changing dynamics in energy policy and the Middle East. This topic is a little different than our normal dose of mineral finance, but is vitally important to a large energy consumer like the mineral industry. Please attend and **volunteer** to bring some food and/or drink to share.

According to Vice-President Kelly, three mine properties have **volunteered** to host our members for the GSN Fall Field Trip. The tentative dates for the trip are October 14, 15, and 16 and we will be visiting Wind Mountain, Rawhide, and Gabbs Magnesite. Watch your GSN Newsletter for the opportunity to sign up. This trip will fill up fast!

The principal mission of our Society is to promote the advancement of the geological sciences, especially as they relate to Nevada. Our secondary mission is to support the GSN Foundation to fund a number of earth science related charitable programs, including grants for K-12 field trips, university scholarships and grants for geological mapping. Why not resolve to **volunteer** your time and share your knowledge about the importance of geology and mining? Perhaps you could speak to a classroom of students, or to your friends at a community meeting, or maybe just speak to your next door neighbor. Or if speaking is not your thing, maybe you could **volunteer** to contribute financial resources to our GSN Foundation?

Past-President Elizabeth spoke often last year about the importance of involvement. The best way to get involved is to **volunteer**!

The G.S.N. wishes to thank FALCON DRILLING and HARRIS EXPLORATION DRILLING & ASSOC. for sponsoring our MAY 20, 2016 meeting in RENO!!

GSN <mark>August 11, 2016</mark> "Silver" Summer Series BBQ

## 14th Annual "Silver" Summer Series BBQ With Guest Speaker: Dr. John Scire, UNR Department of Political Science

**Topic:** Energy policy & Middle East policy and their interrelationship

#### Date: Thursday, August 11, 2016

#### Time: Drinks @ 6:00 p.m., BBQ/Potluck Dinner @ 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 buying the BBQ'd meat; Mine Development Associates is providing the beer kegs, CGS Mule is providing wine & soda and Hunsaker Inc. is providing water and ice!

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

Take U.S. 395 to Damonte Ranch Exit. Head 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 downhill from the corner, the first house on the left (except for the corner house) 13045 Welcome Way. Call if you get lost – Dan's Cell phone is: 775-848-1981 and home phone: 775-622-1117.

#### Speaker, John Scire

#### Adjunct Professor, UNR Department of Political Science

Professor Scire will talk about energy policy and Middle East policy and their interrelationship. The talk will review how markedly things have changed since 2008, and what to expect going forward irrespective of who the next president is. The format will be along the lines of a TED talk.

#### Biography:

John Scire spent 12 years in the Unites States Marine Corps Infantry, including a tour of duty in Vietnam in 1969. That was not enough for him, and after completing his time in the Marine Corps he spent 15 years in U.S. Army Reserves specializing in Psychological Warfare (known to civilians as propaganda), Intelligence, and Counterintelligence. He worked with, among others, the German army and the South Korean army. He retired with the rank of Captain. Dr. Scire earned his PhD from University of Nevada Reno in 1995 and has been teaching there since 1993, teaching Foreign Policy, Energy Policy, and Comparative Political Systems. In 2013 he was awarded a Dean's Award for Outstanding Teaching and Service. In the past 20 years Dr. Scire has advised numerous Nevada senators, congressmen, and governors on policy issues.



Please make a note that the first regular GSN MEMBERSHIP MEETING for the 2016-2017 membership year will be on the 4th Friday in September instead of the traditional 3rd Friday due to a conflict with the Elks Lodge.

## FACES OF GSN Joe Laravie, Geologist

I grew up in the suburbs across the Hudson River from Albany NY. I attended Columbia High school, where I enjoyed science and metal shop classes. I was also active in that odd combination of activities known as the Boy Scouts. I attended State Univ. of NY at Albany (SUNYA), and then in 1974

moved to Seattle to attend the Univ. of Washington graduate school in geology. I worked briefly part-time for the USGS in Seattle, and then at Cities Services Minerals for two summers in Alaska. In 1978, I started full time with U.S. Steel in south Texas. This lasted about 4 years, with the 2<sup>nd</sup> two years out of Salt Lake City. I was laid off in 1982 and went 11 months with nothing. Parker Gay at Applied Geophysics hired me in 1983 and I worked as their chief geologist for about 4 years. In 1986 I worked a couple of months for Fidelity Investments "Fidelity Investments, how can I help you?", and then got back into mineral exploration with Battle Mountain Gold for about a year, and then with Santa Fe Pacific in Reno. I explored at and near Rabbit Creek and Buffalo Valley for several years and then started evaluating properties elsewhere in the world, especially Latin America. I was living in



1974: SUNYA undergrad field trip.

Santiago, Chile when Newmont took over Santa Fe in 1996-97, and accepted Newmont's offer to move to Elko, where I have been ever since. In mid-2002, Newmont let me go after yet another merger and I have been doing geology-GIS consulting to the present.



1976: At Crater Lake. on the way from Bellingham to Tucson

I have always been affected with the 2-wheel travel bug, first on bicycles, and now on motorcycles. A fellow SUNYA student and I did a bicycle camping trip through New England in the summer of 1971. We were in such good shape from bicycling we were able to climb Mt. Katahdin in Maine in <sup>1</sup>/<sub>4</sub> the recommended time. I also did a solo bicycle trip from Bellingham to Tucson in 1977. For motorcycles, I started with a mini-bike bought from a friend and rode it around the back yard in a circle (we had a small back yard) until I killed most of the grass. Then it was on to a Ho-

daka Ace 100, Yamaha DT250, and about a dozen others over the years. At about 10 years old, a neighbor gave me a telescope mir-

ror making kit, where you have two pieces of glass and you grind them together to make a concave paraboloidal telescope mirror. I made a 6" telescope out of the kit and this started me out on astronomy, optics, cameras etc.

At SUNY Albany I started studying astronomy, but after 2 years I realized that a career in astronomy did not have enough outdoor content for my



Motorcycles: 1983(bottom) and 2016.

taste, so I switched to geology. Fortunately I lucked into one of the best plate-tectonics geology departments in the world. I had already taken all the math, chemistry and physics required courses, so I was able to concentrate on geology courses for the last 2 years. I wrote an undergraduate thesis on island arcs that was my first (and so far only) peer-reviewed publication. There was one economic geology course offered but they wouldn't give it because I would have been the only student. I made up for this at UW by taking virtually all of Eric Cheney's courses even though I did a non-economic geology field thesis and spent a couple of summers during grad school working on recon projects in central Alaska. In my first helicopter flight I couldn't understand a word the pilot was saying over the intercom and was reduced to pointing to where I wanted to go. After a couple of days I was able to understand him. The pilot was the elite of the crew. He got a tent with a wooden floor and an unlimited supply of Oreo cookies. (continued on page 5)

(Laravie, cont. from pg. 4)

Geologists got neither. Another pilot thought he was still in 'Nam and would fly at 100 knots 10 ft. above the tundra all the time. I couldn't see anything of the geology and was afraid a grizzly would rear up and take us out. We were looking mainly for porphyry copper and VMS deposits and didn't assay for gold on a regular basis because gold assays were expensive. The gold price had recently risen from \$35/oz. to \$800/oz., but few believed it would stay as high as it did. I spent one more summer reconning in Alaska for U.S. Steel in 1978.

In 1978 I entered the "permanent" work force during the nuclear power uranium boom, looking for roll-front deposits in the south Texas coastal plain. The drillers could easily drill two 600 ft. holes a day in the soft sediments, at a cost of ~\$1.30/ft., so we kept busy. This is where I learned that drillers could break anything; one crew even broke their drill rig in two! They jacked it up and welded some plates to the frame and were back drilling in a couple of days. I didn't like Texas so much (too flat, and too far from skiing). After 2 years, I got transferred to Salt Lake City, and worked for a couple more years mostly in the northern part of the McDermitt caldera looking for volcanogenic uranium, and later in the western US for gold. The Three-Mile Island nuclear plant accident ended the uranium boom, and I was laid off from U.S. Steel in 1982 as they gradually cut out all exploration.



1980: Stopped by snowdrift at north rim of the McDermitt caldera. With Ed Bloomstein(center) and Walter Crone(with hat).

With Santa Fe in Nevada I did a lot of exploration in areas covered by alluvium. I carried my small dirt bike in the covered back of my truck,

for use when the road got bad, or I wanted to search a large area off-road. I learned later that this became known to colleagues as my "escape vehicle". I don't think I could get away with this today, with all the corporate safety concerns.



1994: Peru road building crew. Same cost as a Cat.

I spent a lot of time for Santa Fe in the Andes countries of South America in the mid-90's looking for possible property acquisitions. "The terrorists are coming, we have to leave". This after sitting down to eat in the evening after a quick look at a gold-rich VMS a mile off-road in Colombia's coast range, with plans to take a more thorough look in the morning. "Oh, but you can finish eating". But somehow our heart wasn't into dinner anymore. We walked out to town through ankle-deep mud in the darkness. At the Oronorte mesothermal gold mine, I asked about the pile of curved plates outside the mill. It turned out that they were part of an unassembled cyanide plant, and the reason it was still in a pile was that they were afraid that if they made any gold bars they would be stolen. It turns

out that most of their pyrite concentrates were being hijacked anyway. I experienced my only big earthquake in Santiago. We all had time to run outside of the Santa Fe office and wait for about 45 seconds before it was over. No damage occurred.

At Newmont in Elko, I even had the good fortune to discover ~1M ounces of gold in the Peninsula deposit near Battle Mountain. It's still sitting there, but I am confident that it will eventually be mined.

Exploration sure is fun.



1997: Back into astronomy

THANK YOU TO THE ELKO CHAPTER JUNE 2016 SUMMER BBQ SPONSOR	THANK YOU TO THE ELKO CHAPTER JULY 2016 SUMMER BBQ SPONSOR
Enviroscientists, Inc.	FIRST Drilling Make the Right Decision.
Thank you to the WINNEMUCCA CHAPTER Meeting SPONSORS for MAY, 2016!	Thank you to the ELKO CHAPTER Meeting SPONSOR for MAY, 2016!
Image: A state of the stat	Timberline Drilling Inc.
	Thank you to our generous donors ín June
	G.S.N. FOUNDATION
THANK YOU ALL!!	Thank you to EVERYONE who bought Mulli- gans and Raffle Tickets at the GSN Golf Tour- nament on June 18th!
	Also thank you to the companies and individu- als (see pg. 10 for a list of the givers) who gen- erously donated great prizes! Because of you, 100% of Proceeds can go directly to the GSN Foundation for NV K-12 Earth Science Field Trips; Nevada University Scholarships for earth science majors and mapping grants through the NV Bureau of Mines & Geology.

**G.S.N. SUMMER BBQS** 

## G.S.N. WINNEMUCCA CHAPTER SUMMER BBQ

## WEDNESDAY, August 10, 2016

4:30 p.m.—8:00 p.m.

Come meet the New officers and get reacquainted with old friends.

Location: Highland Park

4220 Water Canyon Road

(NOTE NEW LOCATION !!)

Winnemucca, Nevada

Food and Drinks Sponsored by:





<u>G.S.N. ELKO CHAPTER</u> <u>AUGUST BBQ</u>

THURSDAY, August 18, 2016

6:00 p.m.—9:00 p.m.

Duncan Little Creek Gallery Bar (Backyard)

**516 Commercial Street** 

Elko, Nevada

Food and Drinks Sponsored by:



()) TerraCore

## **GSN SOUTHERN NEVADA CHAPTER**

## FIRST MEMBERSHIP MEETING OF THE 2016-2017 YEAR!

## **THURSDAY, SEPTEMBER 1, 2016**

Location: Las Vegas Natural History Museum, 900 Las Vegas Blvd. North

Time: Pizza & Drinks @ 5:30 p.m., Talk begins @ 6:30 p.m.

## SPEAKER & TITLE: To Be Announced

For more information, please contact GSN Southern Nevada Chapter President: Paul Dockweiler @ paul.dockweiler@cardno.com



#### SAVE THE DATES!



#### GSN FALL FIELD TRIP—OCTOBER 14-16, 2016!!

Your new 2016-2017 GSN Vice President, Kelly Cluer has already been hard at work planning a great field trip this Fall for the GSN membership to participate in! The date is October 14-16, 2016 and the places we will be touring are the Gabbs magnesite operation, the Rawhide Mine and the Wind Mountain Mine! This looks to be a great trip and we expect to fill up early. A sign-up form will be published in the September newsletter so keep your eyes open for that and get your name on the list early!

We are looking to any generous Sponsors who would like to **volunteer** to cover the Friday Night dinner; Friday Night drinks; Saturday Night dinner; Saturday Night drinks, Box Lunches or Snacks & Drinks on the bus! Please email: <u>gsn@gsnv.org</u> or call 775-323-3500 to sponsor today!

#### G.S.N. SPRING 2016 FIELD TRIP WRAP-UP

Fifty-seven GSN members and guests enjoyed a great two and a half day field trip to two of Nevada's "Giant" gold mines May 6-8, 2016: Barrick's Goldstrike and Newmont's Gold Quarry. On the afternoon of Friday, May 6th the group left from Reno to overnight in Elko so we could all get an early start of touring and learning about these incredible deposits. On Saturday, May 7th everyone met at the Stockmen's Hotel and boarded the Barrick provided bus that drove us to Goldstrike for the first day. Due to the rain in previous days, the roads were too muddy for the bus so Barrick then provided vans to take the large group to different parts of the property including North Betze and South Arturo. Through a joint effort, Newmont's Jim Essman was able to give a tour of the Tara Deposit too. Miraculously the overcast skies didn't produce any more rain on Saturday.



Three of Barrick Goldstrike's gracious tour leaders: Frank Elkins, Jim Byars & Julie Taylor.



Franck Valli giving his talk at Gold Quarry overlook.

That evening the group met for a wonderful talk by NBMG's Mike Ressel, He presented an "Overview of the Carlin Trend" that was well received by the attendees. We were joined at the dinner and the following day by a lively group of students from France who were being hosted by New-

mont's Franck Valli on their own field trip. Sunday morning we retraced our route north out of Battle Mtn., this time stopping at Gold Quarry to spend the day. We boarded a Newmont bus and were driven to many interesting stops on the property. Newmont geologists gave interesting overviews at Genesis, Lantern, the historic Carlin Mine and the Gold Quarry Mine. We had a little rain at our lunch stop but it didn't dampen anyone's spirits as we all know to appreciate the rain when it falls in Nevada! A big thank-you goes to Jim Byars and his team of geo-tour guides at Barrick's Goldstrike: Kerry Hart, Gerry Griesel, Tyson Hasselquist, Doug Eck, Frank Elkins, Julie Taylor, and Amanda Norfleet. At Newmont's property, we want to thank Eric Saderholm and his team of geos: Rachel Burgess, Mike Beyer, Jim Essman

and Ryan Becker. Everyone on the trip learned a lot about this magnificent, gold-producing geology! LASTLY...thanks to Boart Longyear, Pershing Gold, ALS Minerals, American Assay Labs, Renaissance Gold & Santa Rosa Minerals who each contributed to making this trip even better!! (Photos by L. Ruud)

Group photo taken at the end of the tour on Sunday at Gold Quarry. Newmont geo-leaders are also in this photo!



Participants (in alphabetical order): Earl Abbott, Carli Balogh, Jerry Baughman, Richard Bedell, James Bell, Jeffrey Bigelow, William Burstow, John Charchair, Catherine Clark, Micah Claypoole, Radu Conelea, Victoria Conelea, Alan Coyner, Karl Coyner, George Eliopulos, Dave Fitch, Dave Freedman, Renee Haworth, William Haworth, Tyler Hill, Elizabeth Hollingsworth, Molly Hunsaker, David Johnson, Fleet Koutz, Douglas Kreiner, Craig Langbein, Joe Laravie, Enc Lauha, Justin Milliard, Bob McCusker, Charles Mettler, Alan Morris, Frank Noland, Doug Nushart, Sergio Pastor, Carl Pescio, Donald Pietz, Jeremy Platt, Mike Ressel, Laura Ruud, James Rytuba, Dave Shaddrick, Don Strachan, Eric Struhsacker, Charles Sulfrian, Julie Svoboda, Mark Svobeda, Bob Thomas, Robert and Susan Thomasson, Lynne Volpi, Steve Weiss, Christine White, Elizabeth Zbinden, Diane Zerga



#### **GSN 2016 GOLF TOURNAMENT WRAP-UP**

The G.S.N.'s 2016 Annual Golf Tournament was held on June 18, 2016 at the Washoe County Golf Course in Reno, NV. Despite the threat of rain and winds, the day turned out to be beautiful. Jeff Camsell with Titan Drilling won the "Men's Longest Drive" contest (by far!) and Kaitlin Sweet with Enviroscientists Inc., won both the "Women's Longest Drive" AND "Women's Closest to the Hole" contests! "Men's Closest to the Hole" contest went to our own GSN Tournament organizer, Bob Felder. First Place Team included AI Frank, Jon Carlson, Tom Feehan and Don MacKerrow. Second Place Team included John & Cheryl Lukens, Paul Muto and Ruth Carraher. Third Place Team included Chris Bone, Mike Braun, Dave Marchand and Kevin Sawyer. Last Place Team was Patty Capistrant, Brooke Mills, Rob Selwood and Dave Shaddrick. Many golfers and their guests won really great raffle prizes that were all donated by the people and companies on the following page. The GSN Foundation benefited \$2,200.00 from the sales of mulligans and raffle tickets! THANK YOU!

A huge Thank You to George Burke and American Assay Laboratories for being the Title Sponsor of the event this year! Thanks also go out to Argonaut Gold for donating cash prizes for the Longest Drive and Closest to the Pin contests, and finally to Mine Development Associates (Cami and Neil Prenn) for providing the Great Basin Brewing Co. beer!!

We also need to send a big THANK-YOU to the American Assay staff who voluntarily gave up their Saturday to work at the Tournament. Tanya, Catherine, Frank, Cesar, Jennifer, Josh, Salt and Tom helped with the setup and worked hard to make sure everyone had plenty of cold drinks and snacks during the tournament. They also were on clean-up duty at the end of the day and did a wonderful job all around!

This tournament was organized by some really great, hard-working GSN **volunteers**: Bob Felder, Cami Prenn, Mario Desilets, Eric Ruud, Elizabeth Zbinden, Pam Klessig and Bob Thomas. This tournament would NOT take place if it wasn't for these selfless people. Everyone seemed to have a great time!

(Clockwise from top left: George Burke, AAL Title Sponsor; Bob Thomas watches Kaitlyn Sweet make a nice chip shot; Eric Struhsacker winds up for his second shot; "Best Socks of the Day" goes to Brian Park-Li; Cami Prenn, Foundation Chair, sells raffle tickets to Sarah Lightner of Geotemps; AAL Crew: Frank, Cesar, Josh, Tom, Jennifer, Salt, Tanya and Catherine; Jeff Camsell with Titan Drilling teeing off in fine form. Photos by Laura Ruud)





#### G.S.N. Board of Directors Picnic Wrap-Up

The ALL MEMBERS PICNIC was held on Friday, June 17th at Rancho San Rafael Park in Reno, NV.

The 120+ members who attended enjoyed great food, camaraderie and a friendly competition of "Gold Pan Toss" during the event.

Special Thanks go to your GSN Board of Directors who paid for the food out of their own pockets for this event! These people not only **volunteer** their valuable time and work hard for this organization but they also PAID for this event for you, the members! We also want to thank Mine Development Associates for again donating kegs of Great Basin Brewing Co. beer for the event. GSN events wouldn't be near as much fun without their generosity!





#### National EWP sponsored a FUN night at the Reno Aces Game July 29th!

National EWP hosted 120 GSN members and guests at the 5th Annual GSN Reno Aces Night on July 29, 2016. It was a beautiful night for baseball, BBQ and beer (or whatever you wanted to drink!). The food was delicious and the Aces won the game over the Sacramento Rivercats by a score of 5-4.

The evening ended with a great fireworks show and everyone had a good time! I think National EWP may have paid extra for that! Thanks go out to the crew from National EWP: James Stephens, Jim Bruneio,Jacob Gallagher, and Kelsey Sherrard, who all travelled from other states to be at the game!

(Clockwise from top left: Jeff Hart & James Stephens; Brian Minkin; Josh & Laura Ellis; Patrick Senge & his Grandpa Robert E.; Mary Stollenwerk & Laura Ellis; Patrick, Kevin & Sandy Kunkel, Jacob Gallagher & Ana John; Peter Olander w/Peter & Scotty Park-Li; Justine Overacker with parents Steve & Jan (the birthday girl!); National EWP's Jim Bruneio & Jacob Gallagher w/Ana & Tom John. Photos by Laura Ruud & Laura Ellis)



## *Activity Update* Mike Brady, JUNE 2016

www.activityupdate.com

#### NEVADA

Pacific North West Capital Corp. announced that it changed its name to New Age Metals Inc. *Press Release:* June 9

Quaterra Resources Inc. announced that recent drill results at the Bear Project include 193.35-242.16 meters @ 0.21% Cu (GHH-01). (resource = 431,200,000 tonnes @ 0.40% Cu inferred) *Press Release*: June 9

Nevada Zinc Corp. announced that recent drill results at the Lone Mountain Project include 68.58-73.15 meters @ 4.45% Zn (LM16-37) and 41.15-65.53 meters @ 7.7% Zn (LM16-38). *Press Release:* June 9

Goldcliff Resource Corp. announced that it acquired a 100% interest in the Pine Grove Property from Lincoln Mining Corp. for \$61,730 in back advance royalty payments. (resource = 3,060,000 tonnes @ 1.37 gpt Au measured+indicated) *Press Release:* June 7

American Lithium Corp. announced that it acquired a 100% interest in the Colorado and San Emidio lithium properties from 1067323 BC Ltd. for 6,500,000 shares. *Press Release:* June 15

Radius Gold Inc. announced that it acquired an option to earn a 100% interest in the Spring Peak Property from Kinetic Gold (US) Inc. for \$445,000 cash and \$750,000 in exploration expenditures over 5 years. *Press Release:* June 14

Gold Resource Corp. announced that recent drill results at the Gold Mesa Project include 62.5-96.04 meters @ 1.89 gpt Au, 16 gpt Ag (GMR-014); 7.62-12.19 meters @ 2.02 gpt Au, 8 gpt Ag (GMR-016); 7.62-13.72 meters @ 1.10 gpt Au, 119 gpt Ag (GMR-022) and 9.15-19.82 meters @ 1.17 gpt Au, 72 gpt Ag (GMR-023). *Press Release*: June 14

Premier Gold Mines Ltd. announced that recent drill results at the Cove South Deep Project include 593.0-614.8 meters @ 3.29 gpt Au, 4.6 gpt Ag (PG16-01) and 504.1-671.5 meters @ 2.92 gpt Au, 9.7 gpt Ag (PG16-02). (resource @ Helen = 430,000 tonnes @ 10.46 gpt Au indicated) *Press Release:* June 2

Nevada Sunrise Gold Corp. announced that recent drill results at the Neptune Project include 392.7-458.2 meters @ 156 ppm Li (N16-1). *Press Release:* May 31 North South Petroleum Corp. announced that it acquired an option to earn a 51% interest in the Jackson Wash, Clayton NE, Aquarius and Gemini lithium properties from Nevada Sunrise Gold Corp. for \$462,300 cash, 4.9% of its outstanding shares and \$1,156,000 in exploration expenditures over 2 years. *Press Release:* June 20

Gold Standard Ventures Corp. announced that it purchased an additional 5,240,700 shares of Battle Mountain Gold Inc. for \$1,494,000 to now hold a 27.14% interest. *Press Release:* June 16

Bravada Gold Corp. announced that recent drill results at the Baxter Project include 38.1-41.1 meters @ 0.57 gpt Au (BAX16-11); 109.7-114.3 meters @ 0.28 gpt Au (BAX16-12); 32-64 meters @ 0.88 gpt Au (BAX16-13) and 54.9-65.5 meters @ 1.02 gpt Au (BAX16-14). *Press Release:* June 14

Corvus Gold Inc. announced that recent drill results at the North Bullfrog/NW Sierra Blanca Project include 143.26-208.79 meters @ 0.21 gpt Au (NB16-293); 74.68-161.54 meters @ 0.53 gpt Au (NB16-295); 65.53-150.88 meters @ 0.55 gpt Au (NB16-296) and 99.06-208.79 meters @ 0.35 gpt Au (NB16-297). (resource @ Mayflower = 26,180,000 tonnes @ 1.0 gpt Au measured+indicated) *Press Release:* June 7

Barrick Cortez Inc. announced that it purchased a 100% interest in the Robertson Property from Coral Gold Resources Ltd. for \$15,750,000 cash and the return of 4,150,000 Coral shares. (resource = 82,986,000 tonnes @ 0.85 gpt Au inferred) *Press Release:* June 21

Discovery Harbour Resources Corp. announced that it terminated its interest in the 2 BAR Property. *Press Release:* June 20

Drillsteel Resources Ltd. announced that it acquired an option to earn a 100% interest in the Good Hope Property from Minecorp Energy Ltd. for \$100,000 cash, 1,000,000 shares and \$2,000,000 in exploration expenditures over 5 years. *Press Release:* June 24

## It's time to renew your GSN Membership Dues for the 2017 fiscal year! Renew early so you don't forget!

#### REPRINTED FROM the Arizona Geological Society Newsletter—June 2016

## The Future of the Arizona Geological Survey is Uncertain

With the approval of the Agency Consolidation Budget bill (SB1530) by Governor Ducey, funding for the Arizona Geological Survey (AZGS) was eliminated and the duties of the Survey were transferred to the University of Arizona, effective July 1, In spite of being assured by Governor 2016. Ducey's staff that this was the best option for the Arizona Geological Survey's survival, the future of one of best state geological surveys in the nation that has served the citizens of Arizona since 1888 is now uncertain. Modest resources that were vital for the Survey to carry out its core mission were eviscerated by budget cuts and related costs resulting from Governor Ducey's efforts to consolidate state government.

The Arizona Geological Survey will vacate its state offices on West Congress by June 30 and move to the Arid Lands Building on the east end of the University of Arizona campus. This office space is considerably smaller than that of the West Congress office. The Arizona Experience retail store will be closed. The Phoenix office of the AZGS has to vacate its current office by June 30 and its staff will be laid off because the Survey has no place for them to go.

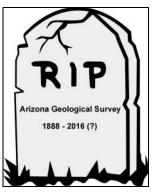
The former Arizona Mining and Mineral Museum in Phoenix will also be transferred from the Arizona Historical Society to the Arizona Geological Survey in August 2016. However, the building cannot be occupied until \$700,000 to \$900,000 in repairs are made and will require approximately \$2.86 million over the next five years to make it like new. However, there is no funding available for these renovations and the possibility of obtaining private funding is slim due to a clause in the legislation that returns the museum to the Arizona Historical Society if it is not refurbished and open by July 1, 2018. The museum will be used to store files, library materials and core contained in the AZGS repository. Otherwise, they would all be disposed.

The Arizona Geological Survey will operate as a research center in the University of Arizona College of Science. The State appropriation to the Arizona Geological Survey will end June 30, 2016. The University of Arizona will provide \$941,000 for the 2017 Fiscal Year as a part of the transition. After that, the Arizona Geological Survey will be required to fund 100% of its budget from grants and contracts. The University of Arizona has plans to develop a fee for services program to help underwrite its activities.

Without a state appropriation or funding provided by the University of Arizona, it will be very difficult for the Arizona Geological Survey to generate the matching funds it requires to obtain many outside grants. Furthermore, the Arizona Geological Survey will also be required to give up most of its overhead on existing and future grants to the University of Arizona. These funds have been historically used to help support the Survey's core mission.

As a result of these cut backs, the Arizona Geological Survey has notified some members of its staff that their jobs will be eliminated as July 1, 2016 due to the loss of funding. The Survey is committed to keeping other members of its affected Tucson staff at least one more month. Others have decided to take early retirement.

The Arizona Geological Society wishes Lee Allison and surviving members of his staff well as they work to overcome the hardships resulting from Governor Ducey's efforts to consolidate state government. To those who have lost their jobs, we wish you well in your future endeavors.



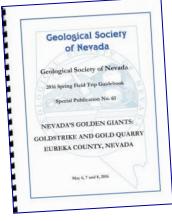
#### NEW G.S.N. SPRING 2016 FIELD TRIP GUIDEBOOK AVAILABLE FOR PURCHASE!! Special Publication #61

Get your copy of GSN's newest field trip guidebook published in conjunction with the May 2016 field trip to Nevada's Golden Giants: Goldstrike and Gold Quarry. Cost is \$50 plus \$11 shipping in the U.S.

The GSN bookstore website is:

https://gsnv.org/publications/

to order online and see all of the other great field trip guides and Symposium Proceedings volumes that the GSN has for sale!





#### China snaps up \$4.5bn worth of overseas mining assets in just six months Cecilia Jamasmie | (REPRODUCED FROM MINING.COM WEBSITE, JULY 25, 2016)

Chinese miners have been aggressively scouting for overseas mining acquisitions this year and are expected to continue bidding for strategic assets amid a commodity downturn that has pushed top miners to shore up their balance sheets by off-loading operations.

Only from January to June this year, China-backed funds and companies snapped up \$4.5 billion worth of overseas mining assets, or 18.2% more than in the same period last year, according to a report by Merger market and international law firm Baker & McKenzie.

But unlike previous years, large state-owned companies no longer dominate the acquisitions scene. Increasingly, private and provincial-backed firms are joining the hunt for supplies of raw materials as they also try diversifying their portfolios.

So far this year, China Molybdenum has emerged as the main buyer. In May, the company acquired Freeport-McMoRan's stake in the Tenke Fungurume mine in Congo for \$2.65bn and, a month earlier it agreed to buy piobium and phosphate assets in Brazil from



Only from January to June this year, China-backed funds and companies snapped up \$4.5 billion worth of overseas mining assets. (*Image: WikiMedia Commons*)

earlier, it agreed to buy niobium and phosphate assets in Brazil from Anglo American (LON:AAL) for \$1.5bn.

As an example the analysts mention Jiangxi Ganfeng Lithium, China's second largest producer of the so called "white gold" and the country's biggest maker of battery-grade lithium, which late last year acquired 43% of the Mount Marion lithium project in Western Australia.

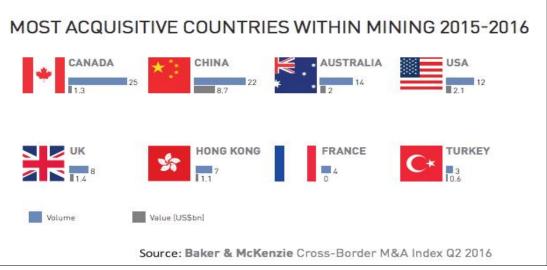
Infrastructure construction firm Sichuan Railway Investment Group (SRIG) is another case in point. Last month, the firm signed a A\$330 million deal with Alton Mining to acquire 60% of a copper-gold mine in Queensland, Australia.

Other than copper and cobalt, Chinese firms are expected to continue searching for gold assets, even though the commodity has risen almost 25% this year. As the world's top consumer (China consumes around 1,000 tonnes of the precious metal a year) and main producer of refined gold, it is expected that cash-flush Chinese firms will embark on a new quest to reduce its dependency on international producers.

Most of them, however, will be looking at existing gold deposits and companies, rather than building mines from scratch.

Zijin Mining, China's biggest gold company by market value, has accounted for most of the country's outbound gold investment. Last year, it acquired a 50% in Barrick Gold's (TSX, NYSE:ABX) Porgera operation in Papua New Guinea for \$298 million.

Zhaojin Mining Industry Co. Ltd., another leading Chinese gold company, said earlier this year it was also looking at overseas gold mines and projects. The company is exploring the option of picking up equity in gold mines in developed markets such as Australia and Canada, but it is also considering gold projects in developing markets, such as South America.



## Strategic Resource Estimation for Mining short course Sept. 24- 25 in Las Vegas at UNLV

Gain practical knowledge of best practices in mining resource estimation. Learn about risks and opportunities associated with resource estimation in typical exploration and mining projects. The international codes (such as 43-101 and JORC) for reporting mineral resources will also be discussed.

Instructor: Abani Samal, Ph.D.

Acknowledged expert in advanced geostatistics and mineral deposit evaluation with nearly 20 years of international industry experience.

Dates: September 24-25, 2016; 8 AM to 5 PM

Hours: 14.00 CEUs: 1.40

Location: UNLV Paradise Campus (PAR) Room 400

More details: http://ced.unlv.edu/mining





#### **OTHER UPCOMING EVENTS**

**2 August:** Arizona Geological Society meeting, Lee Allison Presents the Future of State Geological Surveys: the Arizona Case Study. 6 p.m. to 9 p.m. at the Sheraton, 5151 E Grant Rd. (& Rosemont), Tucson, AZ To register click on the link: <u>http://www.arizonageologicalsoc.org/event-2255190</u>

8–12 August: <u>GSA Penrose Conference</u>, Layered Mafic Intrusions and Associated Economic Deposits, Red Lodge, Montana, USA.

27 August-4 September: <u>35th Session of the International Geological Congress</u> (35th IGC), Cape Town, South Africa

**16-18, September:** the NMEC (Nevada Mineral Exploration Coaliton) is hosting the 4th Annual Great Basin Rendezvous at Camp Lamoille near Elko, NV. Contact Dave Shaddrick, <u>Dave@dshaddrick.com</u> or Warren Thompson <u>wthompson@klondexmines.com</u>, for more information.

18–24 September: Association of Environmental & Engineering Geologists, AEG 59th Annual Meeting, Kona, Hawaii.

22–23 September: 2nd Virtual Geoscience Conference, Bergen, Norway.

**25-28 September:** SEG 2016 Conference: Tethyan Tectonics and Metallogeny, Çeşme, Turkey. Website: <u>www.seg2016.org</u>

25-28 September: 2016 GSA Annual Meeting & Exposition, Denver, Colorado, USA.

## 4th Annual Great Basin Rendezvous

#### September 16-18, 2016

Come join your fellow explorers and their families at Camp Lamoille in the beautiful Ruby Mountains of Elko County for our *Fourth* time around!!

Hosted by: Nevada Mineral Exploration Coalition, 2016 Great Basin Rendezvous Committee (Warren Thompson, Dave Shaddrick and our contributors)

We are in the planning stages of this event and anticipate more field trips, hikes, and entertainment (Southwind) with outstanding breakfasts and BBQ dinners as in previous years. <u>Suggestions for other activities are welcome!</u>

Save the Date!! This year, we have the camp rented for the third weekend of September, and there is no conflict with SEG or Reno GSN as with previous years. Contact Dave Shaddrick @ <u>dshaddrick@aol.com</u> for more information.



Camp Lamoiille (lower center) located in a majestic glacial valley with flowing streams. A spectacular snow year provides for likely snow remaining in the upper cirques all summer!



#### PAID ADVERTISEMENTS



#### We specialize in a full range of services including:

- Exploration Project Management
- Contract and Consulting Geology
- Data Compilation
- GIS & Remote Sensing
- 3D Modeling
- Disturbance Surveying
- Soil and Rock Chip Sampling
- Claim Staking
- Abandoned Mine Hazard Fencing
- Core Processing
- Warehouse Management
- Temp Services



estimate on your next project For more information on our services visit our website at www.Rangefront.com

Call us at 775.340.2395 for a free

## JBA WORKS, INC.

Jo Beth Allen Geologist

#### GIS, Presentation Maps & Data Graphics

GIS / CAD Slide & print Graphics / Illustrator & Photoshop

1055 Joshua Drive Reno, Nevada 89509 jobeth@jbaworks.com Phone: 775-303-6818

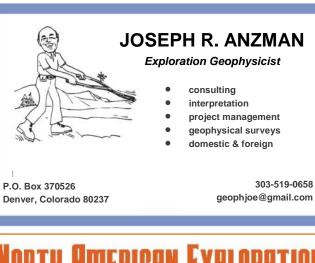
# **Big Sky Geophysics**

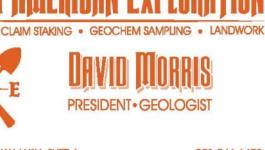
Clark Jorgensen, M.Sc. Geophysicist

Field Work Processing Interpretations

P.O. Box 353 Bozeman, Montana 59771 USA Phone/Fax +1 (406) 587-6330 Mobile +1 (406) 580-9718 clark@bigskygeo.com

For more details, my background, and case studies, Visit my webpage at www.bigskygeo.com





895 N. MARSHALL WAY, SUITE A LAYTON, UT 84041

801.546.6453 DMORRIS@NAE-XPLORATION.COM



OREAS gold CRMs are the most homogeneous available and provide unrivalled confidence in your assay data



#### North American Distributor:

Analytical Solutions Ltd www.explorationgeochem.com Tel: (+416) 462 9124 Email: info@mail.explorationgeochem.com

#### PAID ADVERTISEMENTS



Right Solutions · Right Partner www.alsglobal.com

# ALS & TERRACORE

- Providing a one-stop shop for core services, spectral imaging and geochemistry.
- > Core Image Spectrometer™ available in ALS laboratories around the world.
- Our facilities offer core cutting, core photography and full geochemical services.
- Hyperspectral data interpreted via high-speed, semi-automated computer algorithms, constrained by style of mineralization or deposit type

Contact us to discuss solutions:

☑ clientservicesusa@alsglobal.com
⊕ alsglobal.com/minerals









Serving Mining in Nevada Since 1992

General Engineering Contractor Drill Pads Road Building Reclamation Earthwork

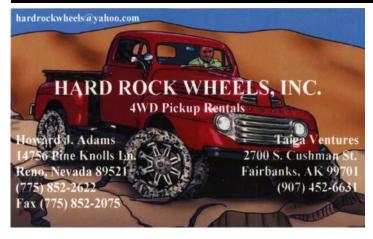
> Office: 775-753-5832 Mobile: 775-778-1681 Mobile: 775-934-1837 www.legarza.com

NV License #35480 CA License #804120



For more information please contact Garth Patterson @403-601-4374 or garth.patterson@telus.net

#### PAID ADVERTISEMENTS



## TOM CARPENTER

#### CONSULTING GEOPHYSICIST

5445 Goldenrod Drive Reno NV 89511 (0) 775.849.9707 (e) tcarpenter@gbis.com G.I.S. Land Services Greg Ekins M.S. R.P.L. #32306 President Mineral Landman - Commissioned Abstractor "From Courthouse Records to Final Map"

Mineral Title, Geothermal Title, National Instrument (NI) 43-101 Title Review, Due Diligence 3D AutoCad; ArcMap and MapInfo GIS

> Surface Title Mineral Title



Geothermal

A professional firm of Landmen, Geologists, Draftsmen and Technicians Providing Abstracts of Title, Land Status and Exploration Geology Services Utilizing AutoCad - ArcMap - MapInfo - PowerPoint www.gislandservices.com

241 Ridge St., Suite 250 Reno, NV 89501 Ph: 775-746-8803 Fax: 775-746-8802 email: greg@gislandservices.com



# **Bureau Veritas Minerals**

"Industry Leading Solutions for the Exploration & Mining Community".

- Geochemical, Metallurgical & Mineralogical Services
- Laser Ablation, Core Logging Services & XRF
- On Site Services

U.S. Offices | Sparks +1 775 359 6311 | Elko +1 775 777 1438 | Juneau +1 907 750 1734 www.bureauveritas.com/um



MINERALS

## **GEOLOGICAL SOCIETY OF NEVADA**



gsn@gsnv.org ● www.gsnv.org Telephone (775) 323-3500 Fax (775) 323-3599 2175 Raggio Parkway, Room 107 Reno, NV 89512 USA

GSN members "geeked out" at the May 20, 2016 meeting held at the Reno Elks Lodge. Speaker Mark Showalter from the SETI Institute provided everyone with 3-D glasses and wowed us with his talk on NASA's spacecraft "New Horizons" and its flyby of Pluto in 2015.

