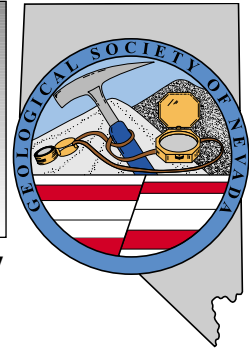


GEOLOGICAL SOCIETY OF NEVADA NEWSLETTER

Geological Society of Nevada, PO Box 13375, Reno, NV 89507 USA, 775/323-3500, www.gsnv.org
Office location: Laxalt Mineral Research Center, Rm 266, UNR. Hours: Mon thru Fri, 9 am-1 pm



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CALENDAR OF GSN EVENTS

March 12, Wednesday

WINNEMUCCA CHAPTER will have the monthly meeting at the Martin Hotel, beginning at 6:30 pm. The talk follows at 7:00 pm. Speaker for the evening will be Karl Marlowe from Barrick Exploration. He will be presenting a talk about "The Getchell District, The Original Carlin-Type Deposit". Sponsor for the evening will be Kettle Drilling. For more information contact Jon Carlson, 775/529-5001 x2318, jcarlson@barrick.com.

March 20, Tuesday

ELKO CHAPTER will have the monthly meeting at the Western Forklift Center. Social hour will be 6:00 pm followed by the talk at 7:00 pm. For more information contact Nancy Richter, 775/468-4527, nrichter@barrick.com.

March 21, Friday

GSN MEMBERSHIP MEETING will be held at the Reno Elks Lodge, 597 Kumle Ln, Reno, NV. Social at 6:00 pm, dinner at 7:00 pm, and talk at 8:00 pm. Speaker for the evening will be Stan Keith on "The Serpentophere". Contact Kelly Parsons for reservations, 775/323-3500, gsn@gsnv.org.

March 27, Thursday

SOUTHERN NEVADA CHAPTER monthly meeting will be held at the University of Nevada, Las Vegas, Room 105 at 6:45 pm. The speaker for the evening will be Dee Donithan with the Desert Research Institute. The topic for the evening is "Big Hole Drilling at the Nevada Test Site". For more information contact Lora Griffin at lora.griffin@unlv.edu.

May 9-11

GSN SPRING FIELD TRIP, coordinator: Marcus K. Johnston, Victoria Resources US Inc. See page 6 for more information.

GSN's February monthly meeting was well attended with 91 folks (70 paid attendees, 17 comped students, 2 comped speakers, 1 comped bar sponsor, and 1 comped Honorary Member).

FROM THE PRESIDENT

Greg Hill, *GSN President 2007-2008*

The GSN year is in full swing and there is much to talk about. In February, the GSN board of directors had it's quarterly meeting and a number of important topics were discussed. In my view, some of the more important were: the current financial state of the Foundation, and proposed slates of executive committee officers and board members (to be published in the April newsletter). The Foundation is healthy and on track to meet it's short and longer term goals of building a sustainable fund and supporting students studying Earth Sciences. A discussion of the Foundation's activities is contained elsewhere in this newsletter.

The board also accepted a generous offer from the Nevada Bureau of Mines and Geology to house the GSN office in it's new publications sales building set to be constructed at the Desert Research Institute north of downtown

Reno. In addition to selling Bureau and GSN publications there, the building will also be utilized for drill sample and

continued on page 2

MARCH MEETING SPONSOR



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Date: March 21, 2008

Time: 6:00 pm - 8:00 pm

Location: RENO ELKS LODGE



News and Announcements

FROM THE PRESIDENT *continued from page 1*

data storage and viewing. Construction is scheduled to begin shortly and the building should be completed by the first part of 2009. GSN's officers and board members are very enthusiastic about the new space and the evolution of the mutually beneficial relationship between the Bureau and GSN. Next time you see him, say thanks to Jon Price, Director of NBMG, for championing the role the Bureau plays in supporting GSN.

Thanks to Greg McN French for a great presentation on the Pumpkin Hollow copper deposits at the February Reno GSN meeting. As always, the event was well attended and enjoyed by all. Mark your calendars for next month's speaker, Stan Keith and his discussion of the Serpentosphere (see abstract on page 3). It's sure to be interesting and thought provoking. See you in March!

GSN FOUNDATION NEWS

Roger C. Steininger, *Chair and Executive Director*

Education is an important aspect of the Foundation's activities. Each year we award grants to K-12 teachers to support earth science related field trips for their students. This year the Foundation awarded a total of \$14,584.00 for 52 separate field trips. Thirty-five were for elementary school classes, 12 middle schools, and 5 high schools, 18 of the total were "at-risk" (lower income) schools. These schools are in Reno, Sparks, Fernley, Fallon, Minden, North Las Vegas, Las Vegas, Henderson, Boulder City, and Round Mountain. If any of you know teachers, especially in the rural communities, that might be interested in this program please direct them to our website for an application form.

Funding for the Field Trip Grant program comes from contributions to the Foundation through our several donation opportunities. Rachel Dolbier and D.D. LaPointe are the Education Committee that administers this program, which is no small job. Cami Prenn, the Foundation treasurer, wrote the 52 checks and has a tender hand. Next time you see these people please thank them for the continual effort to get the word out that geologists do not have two heads and that mining is a "green" industry.

The Elko Chapter named Amy Boykin as this year's recipient of their scholarship. Amy is attending Great Basin College working toward a degree in Resource Management. Amy and her husband live in the small community of Ten Mile with a large collection of animals. She also volunteers with the Nevada Department of Wildlife, U.S. Forest Service, Western Folklife Center, and the Ten Mile Fire Department. Good luck in your studies Amy.

Celebrate, Support, & Win!

The Executive Committee of GSN approved financial sponsorship of \$2,000 to offset costs of two functions during Centennial Week celebrations of the 100th anniversary of the University of Nevada Reno's Mackay School. A total of \$500 will help the Alumni Association host an event at the Waldorf on Thursday, April 24, 2008.

GSN will also buy a table of 10 seats for \$1,500 at the Gala event on Saturday, April 26, 2008, held at the Grand Sierra Resort in Reno. Each attendee will receive a special commemorative silver Mackay medallion and a copy of the new book *Mackay Memories: The First 100 Years of the Mackay School of Mines*. The evening will culminate with live music and dancing, making this event a great opportunity to catch up with old friends and mentors from Mackay.

Each of the 10 seats at the table is worth \$150. The seats will be filled through a raffle conducted at the March 21, 2008 GSN monthly meeting. Raffle tickets will cost \$5.00 each. The winners' names will be drawn at the meeting prior to the talk. If you can't make the meeting, clip out the Raffle Ticket coupon, copy for the number of tickets you would like to buy, and mail to the GSN Office at PO Box 13375, Reno, NV 89507. Just fill in your name and phone number. You do not need to be present to win. **All proceeds benefit the GSN Foundation.** Please help support this worthy cause and buy a chance to have a lot of fun and put on those dancing shoes and dandy duds!

Raffle

\$5.00

Name _____

Phone # _____

Ticket

Thanks to FRONTEER for hosting the February meeting.

GSN March 21, 2008 Membership Meeting

Date: Friday, March 21, 2008

Time: Social-6:00, Dinner-7:00 (\$17), Meeting-8:00

Reservations: 775/323-3500; fax 323-3599,
e-mail gsn@gsnv.org

Deadline: Reserve by 1 pm Thursday, March 20th

Location: Elks Lodge, 597 Kumle Lane, Reno, NV

Directions: Across (W) from the Reno-Sparks Convention Center (S Virginia St), behind the Les Schwab Tire Center

Speakers/topic: Stanley B. Keith and Monte M. Swan.
See abstract below.

THE SERPENTOSPHERE

Stanley B. Keith, Monte M. Swan

Martin Hovland, Hakon Rueslatten, and Hans Konrad Johnsen, NORWAY

The Serpentosphere consists of an earth-wide nearly continuous layer (or spherical shell) of rock dominated by serpentine group minerals (serpentinite). The Serpentosphere is typically about two kilometers thick beneath ocean basins where it is mainly composed of lizardite. Beneath continents, the Serpentosphere is mainly composed of antigorite (alpine peridotite/serpentinite) and may be several kilometers thick. The base of the Serpentosphere coincides with the gravity and high-velocity seismically defined transition beneath both continents and ocean basins commonly referred to as the Moho. Beneath ocean basins and adjacent to spreading centers, oceanic Serpentosphere is continuously generated by the interactions of deep circulating marine composition water – partly in super-critical state – with harzburgitic peridotite in a process referred to as serpentinization. Conversion of the harzburgite to lizarditic serpentine under supercritical condition is texturally preservative and probably induces about 40% volume expansion. The volume expansion provides an excellent mechanism to expel and propel fluid products – including hydrocarbons – from the area of serpentinization to seep sites at the crust hydrosphere/atmosphere interface. A downward diffusing, super-critical serpentinization front is present beneath every ocean basin and is more active where it originally formed near oceanic ridge thermal anomalies. When ocean Serpentosphere is subducted beneath continental or oceanic crust areas, it converts to antigorite-dominated serpentinite rock (generally coincident with greenschist facies metamorphism). During flat subduction, the relatively low-density antigorite ‘floats’ and is underplated to the base of the continental crust at the Moho geophysical interface.

In effect, both oceanic and continental Serpentospheres reflect a deep ‘weathering’ process that consists of the interaction of deep crustal and oceanic, water-dominated fluids with the upper portion of a mainly harzburgitic peridotite at the top of the earth’s lithospheric mantle. The process is analogous to the formation of the pedosphere through interactions of the earth’s hydrosphere-atmosphere layer with the top of the earth’s lithospheric crustal layer. In this context, the Serpentosphere may be viewed as a thin membrane that separates water-absent, life-free abiogenetic processes in the mantle from water-present, life-related processes above the Serpentosphere in the oceanic crust.

The Serpentosphere has enormous and novel implications for four major geologic problems that are of current interest to the geologic and social community: the driving mechanism for plate tectonics, the origin of life, the origin of hydrocarbons, and contributions to global climate. A close relationship between trace elements in crude oils and serpentinite has been found. Migration of the serpentine-associated hydrocarbons to seep sites on the ocean floor and in subaqueous continental environments is essentially the base of the food chain for the biosphere and provides a nutrient and energy source for life in these environments. Heat, methane and carbon dioxide generated during the serpentinization reaction provide a major thermal and greenhouse effect to the earth’s hydrosphere-atmosphere system that is overlooked and underappreciated by the current global climate science. The ductility of the serpentine group minerals provides the tectonic “grease” that allows crustal plates to be able to slide and glide around on the earth’s crust at the Serpentosphere/Moho interface. Because Serpentosphere has been continuously generated since the beginning of geologic time it must be considered as one of the fundamental entities of our water-surfaced planet – the only water-planet we know of ...

ACTIVITY UPDATE

Mike Brady, January 2008

www.activityupdate.com

NEVADA

Miranda Gold Corp. announced that recent drill results at the Red Canyon Project include 15-100 feet @ 0.046 opt Au (ROM07-01) and 20-30 feet @ 0.012 opt Au (ROM07-06).

Press Release: January 15

Klondex Mines Ltd. announced that recent drilling to test an induced polarization anomaly 600 meters east of the Main Zone returned 5 feet @ 1.95 opt Au (FC748). (resource = 1,760,000 tons @ 0.582 opt Au indicated) *Press Release:* January 17

Atna Resources Ltd.(70%) announced that recent drill results at the Pinson/Range Front Project include 445-485 feet @ 0.049 opt Au (BRFC-02); 573-598 feet @ 0.037 opt Au (BRFC-03); 210-230 feet @ 0.069 opt Au (BRFC-07); 60-80 feet @ 0.599 opt Au (BRFC-09) and 445-460 feet @ 0.131 opt Au (BRFC-20a). (resource @ Pinson = 2,505,000 tons @ 0.421 opt Au measured+indicated) *Press Release:* January 8

AuEx Ventures Inc. announced that recent drill results at the Long Canyon Project include 268.5-295.5 feet @ 0.059 opt Au (LC062C) and 114-219 feet @ 0.391 opt Au (LC063C).

Press Release: January 7

AuEx Ventures Inc. announced that recent drill results at the West Pequop Project include 35-65 feet @ 0.053 opt Au (WN-087); 710-750 feet @ 0.082 opt Au (WN-089); 775-825 feet @ 0.131 opt Au (WN-090); 130-165 feet @ 0.150 opt Au (WN-093) and 590-665 feet @ 0.210 opt Au (WN-095).

Press Release: January 9

Midway Gold Corp. announced that recent drill results at the Spring Valley Project include 460.5-535.5 feet @ 0.054 opt Au (SV07-350C); 310-345 feet @ 0.041 opt Au (SV07-357); 245-270 feet @ 0.089 opt Au (SV07-358) and 415-465 feet @ 0.041 opt Au (SV07-361). (resource = 10,030,000 tons @ 0.024 opt Au measured+indicated) *Press Release:* January 9

Midway Gold Corp. announced that based on recent drill results at the Spring Valley Project, resources aggregate 50,600,000 tons @ 0.020 opt Au inferred. (was 10,030,000 tons @ 0.024 opt Au measured+indicated) *Press Release:* January 23

Fortune River Resource Corp. announced that based on recent drill results at the Wind Mountain Project, resources aggregate 33,700,000 tons @ 0.012 opt Au measured+indicated and 9,800,000 tons @ 0.009 opt Au inferred. (no previous estimate) *Press Release:* January 8

Golden Predator Mines Inc. announced that it acquired Fury Explorations Ltd. through a 1.0 share Golden Predator/2.5 shares Fury exchange valuing Fury at \$72,800,000. (resource @ Taylor = 6,433,000 tons @ 2.31 opt Ag measured+indicated and 757,000 tons @ 2.54 opt Ag inferred) *Press Release:* January 7

Golden Predator Mines Inc. announced it terminated its proposed merger with Fury Explorations Ltd.

Press Release: January 20

Arnevet Resources Inc. announced that it acquired an option to earn a 51% interest in the Island Mountain Property from Gateway Gold Corp. for \$100,000 cash, 1,000,000 shares and \$2,500,000 in exploration expenditures over 3 years.

Press Release: January 8

Yukon-Nevada Gold Corp. announced that recent underground drill results at the Jerritt Canyon/SSX Project include 250.5-298 feet @ 0.281 opt Au (SR-134); 195-264 feet @ 0.213 opt Au (SR-135); 185-255 feet @ 0.210 opt Au (Z70590) and 155-200 feet @ 0.303 opt Au (Z70591). (resource = 2,945,700 tons @ 0.288 opt Au measured+indicated) *Press Release:* January 14

Yukon-Nevada Gold Corp. announced that recent underground drill results at the Jerritt Canyon/Mahala Creek Project include 120-145 feet @ 0.229 opt Au (C70069); 120-135 feet @ 0.176 opt Au (C70070); 165-180 feet @ 0.546 opt Au (C70073); 130-145 feet @ 0.409 opt Au (C70075) and 140-165 feet @ 0.820 opt Au (C70076). (resource = 420,600 tons @ 0.296 opt Au measured+indicated) *Press Release:* January 8

Rye Patch Gold Corp. announced that recent drill results at the Wilco Project include 229-270.5 feet @ 0.045 opt Au (WRC-01); 199-249 feet @ 0.012 opt Au (WRC-02); 201.5-235 feet @ 0.030 opt Au (WRC-03) and 536-712 feet @ 0.030 opt Au (WRC-04). (resource @ Willard = 3,890,000 tons @ 0.022 opt Au indicated) *Press Release:* January 9

Staccato Gold Resources Ltd. announced that it purchased a 15% net profits royalty on the Long Peak Property from Uranium Power Corp. for 100,000 shares. Uranium Power Corp. also assigned its 5% interest in the Cobb Creek Property to Staccato as part of the transaction. *Press Release:* January 24

Madison Enterprise Corp. announced that it exercised its option to acquire a 100% interest in the Battle Mountain Property from Allied Nevada Gold Corp. by paying \$2,000,000.

Press Release: January 16

Fronteer Development Group Inc.(51%) announced that recent drill results at the Long Canyon Project include 23 feet @ 0.88 opt Au (LC063C). *Press Release:* January 7

Allied Nevada Gold Corp. announced that recent drill results at the Hycroft/Central Zone Project include 463-979 feet @ 0.015 opt Au (H07D-3086); 295-600 feet @ 0.022 opt Au (H07R-3092); 400-725 feet @ 0.011 opt Au (H07R-3098) and 265-320 feet @ 0.038 opt Au (H07R-3099). *Press Release:* January 16

Allied Nevada Gold Corp. announced that recent drill results at the Hycroft/Brimstone Project include 690-980 feet @ 0.013 opt Au (H07R-3096); 415-710 feet @ 0.012 opt Au (H07R-3102); 20-140 feet @ 0.020 opt Au (H07R-3104); 880-935 feet @ 0.020 opt Au (H07R-3107) and 0-85 feet @ 0.016 opt Au (H07R-3113).

Press Release: January 16

THE SYMPOSIUM IS COMING!

THE SYMPOSIUM IS COMING!

Alan R. Coyner

Administrator, Nevada Division of Minerals

The Symposium Committee is hard at work planning the GSN 2010 Symposium titled "Great Basin - Evolution and Metallogeny" to be held May 14-22, 2010 in Reno/Sparks. As before, this meeting will include oral and poster presentations, field trips, short courses, exhibitors, and social events. For information please visit the symposium website at www.gsnv.org/symposium. We are still looking for volunteers for some of the committees. If you would like to help please check the website for opportunities and contact Nancy Wolverson at 775/972-3160 or nancyjeanw@aol.com.

February Job Announcements

Company	Contact Person	Position	Experience	Contact Info
High Desert Gold Corp	George Klemmick	1 or 2 Junior Geologists	1-2 years core logging	(907) 688-2377 gklemmick@yahoo.com
UR-Energy	Cal VanHolland or Hank Johnson	2 Permanent Proj. Geologists 1 Permanent Field Geologist 3 Summer Students		(307) 265-2373 cal.vanholland@ur-energyusa.com (866) 981-4588 Hank.johnson@ur-energyusa.com
WEDC	Rick Jones	Consulting Geol.	Experienced	rick@wedc.us
Terraco Gold Corp.	Charles Sulfrian	Consulting Geol.	B.S. 7+ years Great Basin	csulfrian@terracogold.com
OK Geological Survey	Dr. Randy Keller	Geologic Field Mapper	Experienced	Oklahoma Geol. Survey Sarkeys Energy Center 100 E. Boyd St., Room N-131 Norman, OK 73019-0628
World Minerals		Senior Industrial Minerals Geologist	Experienced +10 years	resume@worldminerals.com
Barrick	Paul Noland	Contract Geologist	Core logging & carbonate chip logging	pnoland@barrick.com
Midway Gold Corporation	Don Harris	3-D Modeler	2+ years modeling w/ Surpac	dharris@midwaygold.com

NEW PAPERS ON GREAT BASIN TECTONICS AND METALLOGENY

A new series of publications on Great Basin Tectonics and Metallogeny is being published in a special issue of *Geosphere*, the Geological Society of America's on-line journal. These papers focus on a wide variety of topics related to the geology, tectonics, ore deposits, volcanology, sedimentology, igneous petrology, geophysics, and remote sensing in this region. The papers published to date are listed below, and additional papers will be published and added to the special issue over the coming year as they are finalized. To access the special issue, go to http://www.gsjournals.org/perl/serve/?request=get-collection&coll_id=5. Copies of the papers can be obtained from the authors or purchased through GSA.

Albert H. Hofstra and Alan R. Wallace. 2006. Introduction: Great Basin tectonics and metallogeny.

William R. Dickinson. 2006. Geotectonic evolution of the Great Basin.

Richard J. Blakely, David A. John, Stephen E. Box, Byron R. Berger, Robert J. Fleck, Roger P. Ashley, Grant R. Newport, and Gary R. Heinemeyer. 2007. Crustal controls on magmatic-hydrothermal systems: A geophysical comparison of White River, Washington, with Goldfield, Nevada.

Janet T. Watt, Jonathan M.G. Glen, David A. John, and David A. Ponce. 2007. Three-dimensional geologic model of the northern Nevada rift and the Beowawe geothermal system, north-central Nevada.

Edward A. du Bray. 2007. Time, space, and composition relations among northern Nevada intrusive rocks and their metallogenic implications.

A. Elizabeth Jones Crafford. 2008. Paleozoic tectonic domains of Nevada: An interpretive discussion to accompany the geologic map of Nevada.

Christopher D. Henry. 2008. Ash-flow tuffs and paleovalleys in northeastern Nevada: Implications for Eocene paleogeography and extension in the Sevier hinterland, northern Great Basin.

Alan R. Wallace, Michael E. Perkins, and Robert J. Fleck. 2008. Late Cenozoic paleogeographic evolution of north-eastern Nevada: Evidence from the sedimentary basins.

David A. John, Christopher D. Henry, and Joseph P. Colgan. 2008. Magmatic and tectonic evolution of the Caetano caldera, north-central Nevada: A tilted, mid-Tertiary eruptive center and source of the Caetano Tuff.

Joseph P. Colgan, David A. John, Christopher D. Henry, and Robert J. Fleck. 2008. Large-magnitude Miocene extension of the Eocene Caetano caldera, Shoshone and Toiyabe Ranges, Nevada.

D.A. Ponce and J.M.G. Glen. 2008. A prominent geophysical feature along the northern Nevada rift and its geologic implications, north-central Nevada.

Barnaby W. Rockwell and Albert H. Hofstra. 2008. Identification of quartz and carbonate minerals across northern Nevada using ASTER thermal infrared emissivity data—Implications for geologic mapping and mineral resource investigations in well-studied and frontier areas.

UPCOMING EVENTS

NPS Schedule

March 6, NPS Monthly Dinner Meeting – Austin's Restaurant, Reno, NV. Speaker: John Warne, Colorado School of Mines. Title: "New Dimensions of the Devonian Alamo Impact Event, Nevada: Crater-rim Stratigraphy and Complex Distal Products".

April 3, NPS Monthly Dinner Meeting – Austin's Restaurant, Reno, NV. Speaker: Andrew Hanson, UNLV. Title: "Impacts of Mobile Salt on Hydrocarbon Migration".

GSN SPRING FIELD TRIP

**Mines and Wines: A Geologic Perspective
on the Central Mother Lode and Vineyards in the
Northern California Foothills**

May 9-11, 2008

Field Trip Coordinator: Marcus K. Johnston, Victoria Resources US Inc.

We are finalizing the plans for this three-day field trip in May, and will have a full announcement, itinerary, and sign-up sheet available in the April newsletter. The focus is on gold deposits and vineyards in the Mother Lode region, and the role geology plays for both. Currently, we are scheduled to visit the Empire mine in Grass Valley on the 9th, with an overnight stay in Placerville. On the 10th, we will have several stops in the Plymouth-Jackson area, and a tour of the Ironstone Winery. We will overnight in Sonora, and spend the morning of the 11th in the Sonora-Jamestown area, and return to Reno by 5 pm via the picturesque Sonora Pass. Additional tours and stops will be added as arrangements are made.

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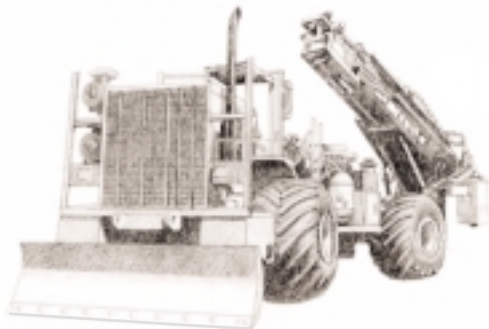
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Quarter page (3 1/2 x 4 3/4'')	150.00
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For an advertising form, call the GSN office at 775/323-3500 or fax 323-3599. Digital or text ads must be received by the 20th of the month to appear in the following month's newsletter.



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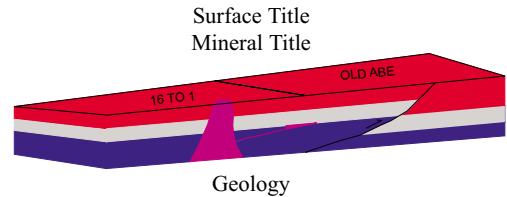
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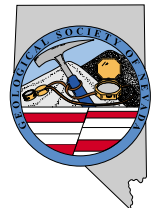
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