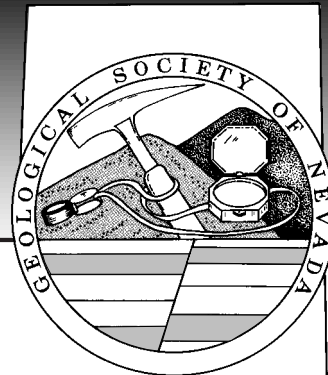


GSN NEWSLETTER



May 2001, Vol. 15, No. 5

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CALENDAR OF EVENTS

- May 2** GSN WINNEMUCCA CHAPTER MEETING: Red Lion Inn & Casino, Humboldt Room, Winnemucca, NV. Speaker – Tommy Thompson, Director, Center for Research in Economic Geology, Mackay School of Mines. Title – “Shear Zone Localized Gold, Manhattan District, Northern Colorado Front Range, CO, U.S.” The bar will open at 6:45 pm, and the talk will begin at 7:30 pm. If you are not a GSNWC member, please contribute a \$5 donation at the door. Call Bruce Braginton, 775/625-5606 for information.
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- May 24** GSN SOUTHERN NEVADA CHAPTER MEETING: Lily Fong Geoscience Bldg, UNLV, Las Vegas, NV. Speaker - Britt Jacobson and Rik Orndorff, University of Nevada, Las Vegas. Topic - “Modern and Late Pleistocene Hydrology of Owens Valley, CA.” Social-5:30 pm, talk-6:30 pm. Call Chris Riecken, 702/435-5664 for information.
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- June 3** GSN GOLF TOURNAMENT: Washoe Golf Course. Details on page 2.

GSN Newsletter is published monthly except June and July
Geological Society of Nevada, PO Box 12021, Reno, NV 89510-2021 USA, 775/323-3500

PRESIDENT’S MESSAGE

Ken Cunningham, GSN President 2000-2001

The April GSN meeting was a huge success with attendees arriving from Elko, Winnemucca, Tonopah and Washington D.C. Approximately 135 members showed up to hear Bob Hays describe the new discovery near the Cortez mining camp. Thanks to Bob and the Crescent Valley Joint Venture team for providing information on yet another Nevada gold deposit. Not only were the attendees interested in the presentation but the social hour saw a record crowd with the keg of Great Basin brew being emptied before dinner was over. A special thanks goes out to the sponsor, Jack Taylor and Baroid Drilling Fluids. **Please remember all our sponsors when you are planning exploration programs.**

John Rishel, staff member to the Subcommittee on Energy and Mineral Resources also addressed the audience regarding the current reevaluation of BLM’s 3809 Regulations. GSN urges all members to become involved

(continued on page 2)

May Sponsors



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News and Announcements

PRESIDENT'S MESSAGE (continued from page 1)

in this evaluation and to contact your public officials. The Woman's Mining Coalition provided handouts at the meeting to assist you in providing input. If you would like a copy of this information please contact Ann Carpenter, Ruth Carraher or Debbie Struhsacker.

Next month marks the final meeting of the fiscal year. **Scott Price of Great Basin Gold will provide an update on the recent exploration efforts at Ivanhoe.** At this meeting we will also be voting on a new slate of GSN officers. The candidates who are seeking your support include Dave Shaddrick for President, Bob Thomas for Vice President, Ann Carpenter for Secretary, Cami Prens for Treasurer, Greg French for Membership Chair and Heidi Anderson and Elizabeth Zbinden to co-host the Publication Chair. Thanks to everyone for volunteering.

As this is the last time you will see my name under this column **I also wish to thank everyone who has supported and contributed to the success of the last year.** During these difficult times for our industry, I am especially grateful to see strong membership and attendance at monthly meetings. I am also pleased to report that for the fiscal year 2000-2001 GSN has operated on a break even budget.

Have a prosperous summer.



GSN FOUNDATION

The GSN wishes to thank **Alan Coyner** for his offer to transport and sell Sarah Andrews' mystery novels at last month's Teacher Conference in Las Vegas. Sarah was a guest speaker there, and the teachers who attended purchased \$522 worth of her books. All proceeds from the book sales go directly into the GSN Foundation's account. Thanks Alan for taking the initiative!

Anyone wishing to make a donation to the GSN Foundation should make their checks payable to: GSN Foundation, P.O. Box 12021, Reno, NV 89510. You will be forever designated as a "Charter Founding Donor." The Foundation is set-up to receive non-profit donations so your donation is tax deductible. The Foundation funds are being used to fund the earth-science field trip grants for K-12 students in Nevada, UNR and UNLV scholarships for Geology students, DeLaMare Library donations, etc. Thank you for your support of this important cause.

ANNUAL GSN GOLF TOURNAMENT

Bob Felder, Coordinator

The annual GSN golf tournament will be held on **Sunday, June 3** at Washoe Golf Course, with a 1:00 shotgun start. (Please note the day is Sunday not Saturday, which was a typo in last month's newsletter). Plan to arrive 30-45 minutes early to allow for registration and practice. You can sign up individually or make your own team of 4 players. The format will be a 4-person scramble, which means your team plays from the best ball hit on each hole. Teams will be handicapped and will compete for prizes. Following the tournament, we will have a barbeque dinner in the picnic area. Non-golfing spouses and friends are invited to attend the barbeque for \$5. Entry fee this year is \$50, and includes golf, prizes and dinner. You can register by filling out the above form and mailing with your payment to the GSN office, or by calling Laura Ruud @ 775/323-3500. **Once again, GSN appreciates the generous support for this tournament provided by Eklund Drilling. Many thanks to Lance and Marty.**

Golf Tournament Registration	
Sunday, June 3, 2001	
NAME _____	
WK PHONE _____	FAX _____
HOME PHONE _____	
ADDRESS _____	

HANDICAP _____	OR AVERAGE SCORE _____
Cost includes greens fee, cart, prizes, and a barbeque to follow the event = \$50.00.	
AMOUNT INCLUDED WITH THIS FORM	\$ _____
PAID W/CHECK # _____	
CREDIT CARD # _____	
VISA _____	MC _____
EXP. DATE _____	
SIGNATURE _____	
(as it appears on card)	
NUMBER OF GUESTS EXPECTED AT BBQ _____	
Payment must be received by Friday, May 25th, 2001.	
No refunds after May 25th.	
Fax: 775/323-3599 or mail to GSN office:	
PO Box 12021, Reno, NV 89510-2021	

Thanks to Baroid Drilling Fluids - IDP for hosting the April Meeting

GSN May 18, 2001 Membership Meeting

Date: Friday, May 18, 2001

Time: Social-6:00 pm, Dinner-7:00 pm, Meeting-8:00 pm

Cost: \$17.00 (dinner)

Reservations: 775/323-3500; fax 323-3599 or e-mail:
gsn@mines.unr.edu

Deadline: Reserve by noon Wednesday, May 16

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

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

Speakers/topic: Scott Price, Senior Geologist,
Great Basin Gold Inc.

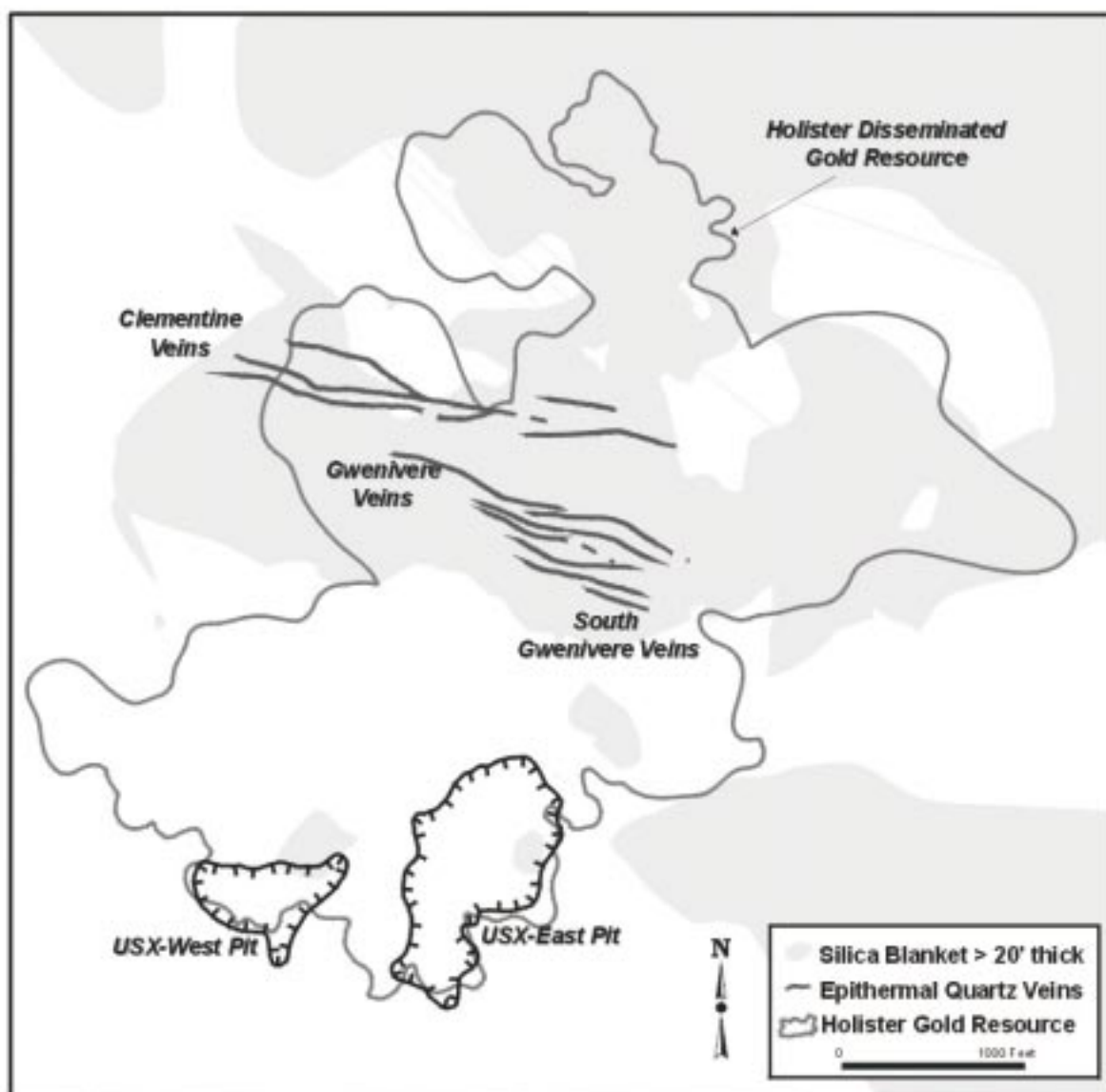
See abstract below.

HIGH-GRADE GOLD IN EPITHERMAL QUARTZ VEINS AT THE IVANHOE PROJECT, NEVADA

Scott Price, Senior Geologist, Great Basin Gold Inc.

The Ivanhoe project is located on the northern Carlin trend in Elko County, Nevada. High-grade, quartz veins are being delineated near the Hollister mine in part of a large, low sulfidation, epithermal, hot-springs gold system. Disseminated, volcanic-hosted, gold mineralization was discovered at Hollister, by United States Steel Corporation in 1980. Touchstone Resources Company and Galactic Resources Limited optioned Ivanhoe in 1986 and delineated a 2.8 million ounce resource grading 0.034 opt by 1992. High-grade gold was intercepted in the Ordovician Valmy Formation beneath the disseminated gold mineralization by Touchstone-Galactic and subsequently by Newmont Exploration. The nature and significance of these narrow intercepts was not recognized until late 1997 when Great Basin Gold cored several offsets that revealed classic epithermal vein textures with electrum and naumannite.

(continued on page 4)



Tertiary geology at Ivanhoe is dominated by Miocene felsic tuff and tuffaceous sediments with intercalated basaltic andesite and rhyolite flows. These rocks are replaced extensively by blanket-like chalcedonic silica bodies from the present surface to depths up to 60 meters. Silica bodies extend over an area of ten square kilometers, locally at two separate horizons. Underlying up to 200 meters of Miocene strata and outcropping on the east side of the property are quartzites and argillites of the Ordovician Valmy Formation.

Epithermal quartz veins developed almost exclusively in competent rocks of the Valmy Formation. Hydrothermal fluids that produced veins in competent quartzite and argillite dispersed widely in permeable Miocene tuffs producing disseminated gold mineralization and extensive, pervasive silicification and argillization. Orientation of the veins beneath the pervasive alteration was problematic. Movements on vein structures at Ivanhoe are minimal and poorly transmitted by the overlying Miocene strata. The vein systems commonly consist of multiple strands and orientation methods including cone analysis and three-dimensional observation in Vulcan produced multiple solutions. A unique solution was achieved by orienting veins in a core frame based on bedding attitude determined locally with a three-point problem. Veins delineated thus far trend west-northwest.

Vein textures and mineralogy are typical of a low-sulfidation epithermal system. The highest grade vein intercepts display banded textures produced by alternating gray and black silica related to varying sulfide or selenide content, by alternating silica and clay minerals, by varying silica grain size and texture or by combinations of the above. Precious metals tend to be localized in specific bands. Bladed quartz after calcite is common and best developed within and beneath the bonanza zone. Other common textures include breccias, suspended wall rock fragments and medial cavities. Primary metallic minerals include pyrite, marcasite, naumannite and electrum. A diverse suite of precious and base metal sulfides and selenides is indicated by qualitative SEM scans. Gangue includes quartz, clay, adularia and sericite. Alunite is present in shallower portions of the system and calcite is common at greater depths. Late botryoidal Fe-Mn rich carbonate, and euhedral quartz and barite occur in vugs and cavities in the veins. Adularia from the Hollister veins has yielded a date of 15.34 ± 0.05 Ma.

2001 SME MINI CONFERENCE

The Northeastern Nevada Section of the SME invites you to attend the 6th Annual 2001 SME Mini-Conference in Elko being held Friday, May 18th from 8 am to 5 pm. Keynote Speaker: Mr. Paul Scheidig, Executive Director of the SME national organization. Technical sessions will be held on geology, mining, metallurgy and environmental. Cost for all this fun, lunch and a hosted bar is only \$25. Please contact Charlene Hager, Lone Tree Mine, PO Box 388, Valmy, NV 89438 or call 775/635-4363, for information on how to register.

STUDENT DINNER FUND

The GSN Student Dinner Fund remains in the black with the generous donations each month from two of our honorary members, **Bob Horton** and **Bill Johnston**. We had six students at April's meeting. Any Mackay School of Mines student is eligible to attend the GSN meeting and eat for free due to the generous donations from Bob, Bill and many other members over the past several years. The students who take advantage of this fund gain important knowledge and contacts within the industry each time they attend. It is important that GSN continues to encourage these students by funding their meals at the monthly meeting. If you would like to make a donation to the Student Dinner Fund, just send a check or credit card information to the GSN office, P.O. Box 12021, Reno NV 89510 with a note of what it is designated for.

COMPUTER SALE

The GSN office is selling its spare computer, screen and printer as a package deal to the highest bidder. Laura had the good fortune of inheriting the 2000 Symposium's computer set-up and she really can't use two computers! The money from this sale will be put in the Foundation account as a donation. The computer is a Gateway which has been upgraded with a Pentium Processor (clone), has 16 megs of memory and a 3 gig hard drive. It comes with a 15" screen and the printer is a LaserJet 4P. All the components are in good working order. Please contact Laura Ruud at the GSN office by May 15th with your bid. 775/323-3500 or gsn@mines.unr.edu.

F. Dwight Blevins Memorial

F. Dwight Blevins, a long-time member of the GSN, died suddenly at his home on March 31, 2001, of a heart attack. Dwight was only 46 years old and leaves behind his loving companion, Sara Freitag, his mother, Anna Mae Blevins, and two older brothers, Charles and Richard Blevins. Dwight has been around GSN for many years and most of you have probably seen the advertisements for his business, Sierra Nevada Mapping, in this monthly newsletter. He was currently employed as a GIS technician for the City of Sparks and was an active citizen on several boards. Dwight loved bicycling and worked many hours advocating the building of new bike trails in Washoe County and publishing a concise map of where those trails are located. Judging by the number of people at his memorial service held at Rancho San Rafael Park, he was well liked by his co-workers, and the people who worked closely with him on the Reno Transit Commission, and the South Truckee Meadows General Improvement District. We heard many wonderful stories about Dwight, told by his co-workers and his loving family. Dwight will be missed by all of those who knew him and the GSN sends their deepest sympathy to Sara, the Blevins Family and the Freitag Family.

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Half page (4 3/4 x 7 1/2")	300.00
Classified ads \$10/line (up to business card size)	

For an advertising form, call the GSN office at 775/323-3500 or fax 775/323-3599. Camera-ready ads must be received by the 20th of the month to appear in the following month's newsletter.

Compliments of Peg O'Malley

Once upon a time an Emperor was convinced to believe that he was wearing beautiful clothes ... Have you ever had one of these dreams...? ...when, in fact, he was completely naked.	Several thousand years later, enterprising businessmen sold the public miracle remedies that claimed to cure all their ills but that actually contained only alcohol and narcotics. People thought they felt better because they were drunk and stoned.	Somewhere along the line, politicians realized the efficacy of two political parties. The public became bitterly divided in defense of their respective ideals.	Then, in 1922, Sinclair Lewis wrote "Babbitt", a novel considered by many to be his masterpiece. "Babbitt" is about an average American businessman, a Republican and a Rotarian, whose individuality is erased by conformist values. Babbitt was sold a suit of clothes that didn't exist.
Seven years later, in 1929, the stock market crashed for the first time. On December 5, 1996, Chairman of the Federal Reserve, Alan Greenspan voiced concern over "irrational exuberance" in the Stock Market, even though the stock market was, in fact, fairly valued according to his own model.	And then there were Cabbage Patch dolls, Ninja Turtles, "Ticke Me Elmo", Barbie, and Beanie Babies... ...the people were still being sold a bill of goods, and the Emperor was still looking under rocks for his clothes.	And through it all, gold was the only constant. Gold survived war and empire. The love of gold brought down civilizations and raised others, made some nations and their churches great and caused others to fall in ruin. Then one day the pundits told Babbitt to buy dot.coms and declared gold to be next-to-worthless. "Beanie Babies" became worth more per ounce than gold, at least for a while. And the Emperor looked down at himself and said, "What have I done?" Peg O'Malley for	

Peg O'Malley Graphics
851-0185
peggraphics@earthlink.net

UP-COMING EVENTS

May 2 – GSN WINNEMUCCA CHAPTER MEETING: Red Lion Inn & Casino, Humboldt Room, Winnemucca, NVa. Speaker – Tommy Thompson, Director, Center for Research in Economic Geology, Mackay School of Mines. Title – “Shear Zone Localized Gold, Manhattan district, Northern Colorado Front Range, CO, U.S.” The bar will open at 6:45 pm, and the talk will begin at 7:30 pm. If you are not a GSNWC member, please contribute a \$5 donation at the door. Call Bruce Braginton, 775/625-5606 for information.

May 3 – Nevada Petroleum Society, Rutherford's Old South Restaurant, McCarran House, Sparks, NV. Speaker and topic TBA. Social-6:30 pm, dinner-7:00 pm, talk-8:00 pm. 775/827-1323 for reservations.

May 11 – SME, Northern NV Chapter monthly meeting, Noon at the Bonanza Casino, N. Virginia St, Reno, NV. Reservations not required. Contact Nathan Earl Robison for information at 348-7997.

May 18 – GSN MEMBERSHIP MEETING: Reno Elks Lodge, Reno, NV. Speaker – Scott Price, Great Basin Gold Inc., Title – “High-grade Gold in Epithermal Quartz Veins at the Ivanhoe Project, Nevada.” Social-6:00 pm, dinner-7:00 pm (\$17), talk-8:00 pm. Details on page 3. Call Laura Ruud, 775/323-3500.

May 18 – Nevada Landman's monthly meeting. Noon, Rutherford's Old South Restaurant. Topic to be announced. www.nvlandman.org for more information.

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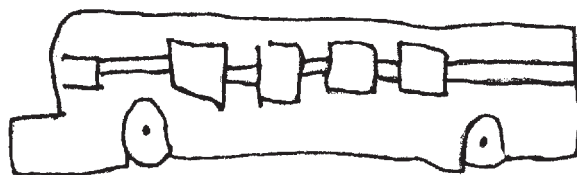
May 28-31 – 6th International Symposium on Mining in the Arctic-Mining and Man, Nuuk, Greenland. Contact Bureau of Minerals & Petroleum, Govt of Greenland. www.bmp.gl

June 3 - GSN GOLF TOURNAMENT: Washoe Golf Course. gsn@mines.unr.edu

Aug 19-24 – Gordon Research Conf. The formation, modification and preservation of ore deposits: tectonic, climatic and surficial factors. Proctor Academy, NH. Gordongeochem@aol.com



Crestwood Elementary Las Vegas, NV

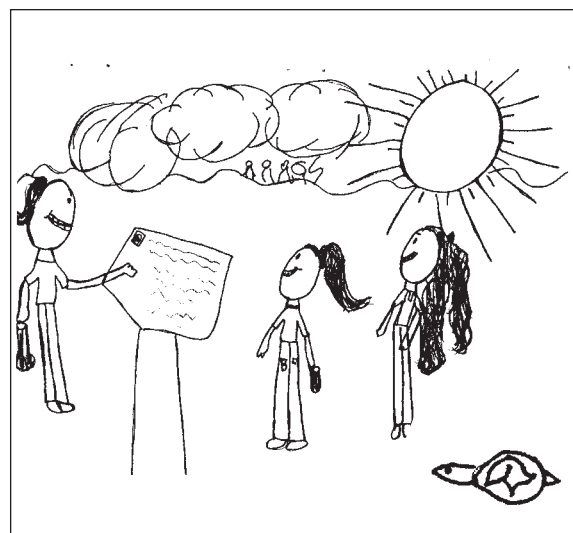


Dear Geological Societ of Nevada,

Thank you four giving us the money to go on a field

Trip. It was so fun you should have been there. We did lots of fun things. Like tested rocks four calcite. We ate oranges on the trail. We had Papper work. We had to draw picture of a tortoise there are lots of stops. We stop on places where the red rock use to be and ^{talked about} what the land use to be. Our teacher said we were on the bottom of the ocean. That is coal. We had lots of fun. Thank You Very much.

Your friend,
Molly



GEOLOGICAL SOCIETY OF NEVADA



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