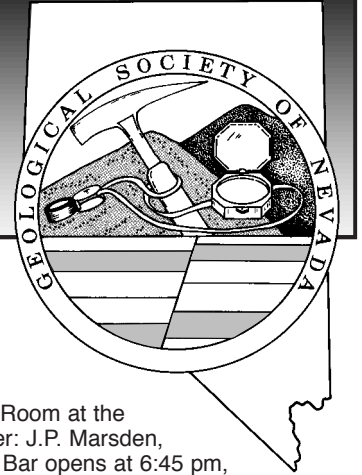


# GSN NEWSLETTER



February 2002, Vol. 16, No. 2

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## OFFICE MANAGER

**Laura Ruud**  
gsn@mines.unr.edu

## CALENDAR OF EVENTS

- Feb 5  
Tuesday** WINNEMUCCA CHAPTER MEETING: Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: J.P. Marsden, local historian. Title: "Mining History in Our Area." Bar opens at 6:45 pm, meeting at 7 pm. Contact Sheila Bunch for information, sbunch@lambdacom.com, 775/623-0202.
- Feb 15  
Friday** GSN SYMPOSIUM 2005 - First Organizational Meeting: Round Table Pizza, N. McCarran and Mae Anne Ave., Reno, NV. 12 noon. Contact Dave Shaddrick, 775/746-2071 or Laura Ruud, 775/323-3500 for more information.
- Feb 15  
Friday** GSN MEMBERSHIP MEETING: Reno Elks Lodge, Reno, NV. Speaker: Dr. Greg Arehart, Professor, University of Nevada, Reno. Title: "Mineral Deposits and Exploration in Mali." Social-6 pm, dinner-7 pm (\$17), talk-8 pm. Contact Laura Ruud, 775/323-3500, email: gsn@mines.unr.edu.
- Feb 21  
Thursday** ELKO CHAPTER MEETING: High Desert Inn, Elko, NV. Speaker: Jacob Margolis, District Geologist, AngloGold (USA) Exploration Inc. Title: "The Geology of Sediment-hosted Gold Mineralization in the Jerritt Canyon District, Nevada." Refreshments at 6:30 pm. Contact Leslie Creel, 775/468-4400 for information.
- Feb 28  
Thursday** SOUTHERN NEVADA CHAPTER MEETING: Lilly Fong Geoscience Building, Room 102, UNLV, Las Vegas, NV. Speaker: Rod Metcalf. Title: "Plutons as Magma Chambers, Processes and Products." Social-5:30 pm. Contact Chris Riecken, 702/435-5664 for information.

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

## FROM THE PRESIDENT

Dave Shaddrick, GSN President 2001-2002

The Executive Committee has been hard at work on a number of projects over the past few months. This newsletter contains the final phase of one of those projects. After careful consideration the Executive Committee is asking for your approval of a series of changes and additions to the Bylaws and Constitution. For the most part they are house-keeping items which either correct errors or update procedures to current practice. Before voting on these changes and additions I encourage you to read the Constitution and Bylaws published in the back of your membership directory. Please return the enclosed ballot by mail, email or in person within 10 days of receipt.

## CHANGES TO CONSTITUTION

Article V. Duties of the Officers

## ORIGINAL

Section 3. Secretary. The secretary shall be responsible for writing and sending out meeting announcements and

continued on page 2

The GSN Foundation wishes to thank the following new Founding Donors for their support:

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# News and Announcements

## FROM THE PRESIDENT (continued from page 1)

any other required correspondence, directing any clerical staff, maintaining the society's records, recording minutes of Executive Committee meetings, maintaining inventory and distributing and (should read "any") publications of the society.

COMMENT: In addition to the underlined typo, the secretary no longer has the responsibility for maintenance of inventory or distribution of publications. Some years ago the society approved Section 6 of this constitution which established the position of Publication Chairperson. This position assumes the responsibility for all publication related matters.

Therefore, the proposed wording for the section in question (Article V, Section 3) is as follows:

**Section 3. Secretary. The secretary shall be responsible for writing and sending out meeting announcements and any other required correspondence, directing any clerical staff, maintaining the society's records and recording minutes of Executive Committee meetings.**

## CHANGES TO BYLAWS

The proposed Bylaws change consists of the addition of a new Article dealing with the financial matters of the society. The additions will codify informal practices that have been followed by Executive Committees for years. Having these policies in the Bylaws makes the practices of the Executive Committee transparent to the membership and provides clear guidance to future generations of officers. We have made a strong effort to provide enough flexibility for future committees to be able to meet new challenges while insuring that the intent of our predecessors is clear to all. Note that in section three only the first three symposia are considered. This is because the accounting and review of the 2000 symposium is not yet complete. These funds will be the first to be handled under section three of these proposed changes.

The proposed article reads as follows:

### Article V. Fiscal Policy and Financial Management

Section 1. The Executive Committee shall manage the business of the GSN in a fiscally responsible manner.

Section 2. It shall be the intent of the Executive Committee to follow, as closely as practicable, an annual budget where expenditures do not exceed operating income. The budget will be prepared annually by the Treasurer in consultation with the President and Vice-President and be approved by the Executive Committee.

Section 3. The GSN shall establish and maintain an Investment Fund to ensure its ability to meet potential liabilities incurred through the organization of symposia or other large special events, to serve as a capital fund for future capital expenditures and to promote financial stability by providing additional operating income from investment earnings. The initial deposit shall consist of the funds set aside by resolutions of the trustees from the 1987, 1990 and 1995 symposia.

Section 4. The Executive Committee shall deposit no less than 50% of the profits from any large special event, such as a symposium or significant contribution, into the Investment Fund described in Section 3. The Executive Committee shall determine what events or contributions qualify on a case-by-case basis.

Section 5. The Executive Committee may apply earnings from the Investment Fund for a fiscal year to operating income for that year. The amount of earnings eligible for such conversion shall not exceed 50% of the earnings for the year in question.

Section 6. The principal balance of the Investment Fund may be used for any purpose deemed necessary by the Executive Committee and approved by a majority of returned ballots received by the officers ten (10) working days after a proposal by the Executive Committee for such use has been received by the membership.

Section 7. The Treasurer shall, at a time specified by the Executive Committee, make an annual report to the membership which will include: A summary of the income, expenditures and asset balances for the previous year; the approved budget for the upcoming year; the status of the investment fund.

## Ballot for Proposed Changes to the GSN BY-LAWS

This serves as a ballot for voting on the proposed changes to the GSN BY-LAWS as presented in the February GSN newsletter. This ballot is to be received by 18 February 2002 at the GSN office. PLEASE CONSIDER EMAILING YOUR VOTE (gsn@mines.unr.edu) to help to expedite the process. Otherwise, mail to GSN, PO Box 12021, Reno, NV 89510-2021.

### Ballot Form

Name: \_\_\_\_\_

Address: \_\_\_\_\_

- I approve the proposed changes to the GSN BY-LAWS as presented in the recent GSN newsletter.
- I do not approve the proposed changes to the GSN BY-LAWS as presented in the recent GSN newsletter.

# GSN February 15, 2002 Membership Meeting

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**Date:**

Friday, February 15, 2002

**Time:**

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

**Cost:**

\$17.00 (dinner)

**Reservations:**

775/323-3500; fax 323-3599 or e-mail: [gsn@mines.unr.edu](mailto:gsn@mines.unr.edu)

**Deadline:**

Reserve by noon Wednesday, February 13

**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

**Speaker/topic:**

Greg Arehart, Professor, University of Nevada, Reno.  
Mineral Deposits and Exploration in Mali.

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## MINERAL DEPOSITS AND EXPLORATION IN MALI

Dr. Greg Arehart, Professor, Geologic Sciences, University of Nevada, Reno

Mali has a long and rich history of gold mining. Although most of the historical production is from placers and paleo-placers, several primary gold sources have been discovered and exploited in recent years. These include mesothermal gold systems such as Syama and Kalana, and the "Carlin-type?" system at Sadiola. An overview of the geology of Mali and exploration for mineral resources in the southern part of the country will be presented, along with some cultural photos of the country.

The bedrock geology of southernmost Mali is dominated by the Birimian craton (2.2 Ga), which comprises greenstone belt rocks with interspersed granitoids. Western Mali comprises late Precambrian sedimentary packages, and northeastern Mali is made up of Paleozoic basinal rocks accreted to the Birimian craton, or recent cover (desert sands). Much of Mali has been deeply weathered, the relief is very low and is covered by lateritic soils at present. Because there has been little movement of the African craton, these laterites are among some of the oldest in the world, dating back as far as the Paleocene. Historical (traditional) mineral production has come from placers in the Niger river and its tributaries, and includes primarily gold but also some diamonds. In addition, small local operations (by today's scale) are exploiting paleo-placers underlying the laterites. In the past couple of decades, there has been increased exploration for and development of the bedrock resources, although exploration for these resources can be very difficult in areas of extensive laterite development.

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## SCIENCE FAIR JUDGES WANTED!

The Western Regional Science and Engineering Fair will be held this year on the evening of March 14th at Lawlor Events Center.

The Science Fair Committee is always looking for interested scientists to participate as judges. The more judges we have participating, the easier and more fun it is for everyone. If you are interested and available this year send an email to Liz Crafford at [aejonescrafford@geologicsservices.com](mailto:aejonescrafford@geologicsservices.com). She will then send announcements and details to you via email. Call Liz at 775-846-7901 with any questions.

## WHAT A PIT CONTEST WINNER

### We have a winner!

Chris Kelson, a GSN member who lives in Bishop, Georgia was the first one to correctly identify the arm-waving geologist in the "What A Pit" website photo contest. Chris wins a GSN hat for his answer, Ralph Roberts.

A new photo will be posted shortly. Just go to the website: [www.gsnv.org](http://www.gsnv.org) and click on the "What A Pit" contest to view the photo and see if you can identify it correctly. If you have any questions, contact Mario Desilets at [desilets@unr.edu](mailto:desilets@unr.edu) or call 775/784-6691x125.

# THE GSN FOUNDATION SALUTES ITS “CHARTER FOUNDING DONORS”

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## STORIES FROM THE SAGEBRUSH

Back in the early 80s, maybe mid-eighties, I went up to the Hailey-Ketchum area in Idaho, supervising a M.S. thesis. Checked into a motel in Hailey (as I recall) along about 11 a.m. and thought I would drop off my gear before going briefly into the field with Noel, the student. Walked over to the room and there on the bed were a well interlocked couple breathing hard and totally oblivious of my entrance. Went back to the manager and before I could say anything (I guess he saw the laughter on my face) he grabbed a sturdy stick saying "that god damned maid is at it again". Walked over to the room and started whacking everyone about. Damn near died laughing!!

This next one happened in about 1978 or '79 in Gabbs and I would be surprised if it hadn't happened to others as well. They have (had?) a 7 unit (or was it 5, hell I don't remember) motel there and one day I went up and rented a room. Took the key and walked back to the room and saw that it was not 'made up' — the bedding was strewn about, the sheets on the bed messed up, etc. Went back and told the lady and she calmly said: "Well—funny, the last guy didn't complain!"

Oh well, so much for the big city!

Submitted by Larry Larson (unedited)

(If anyone else has a funny story to tell — please email it to Laura Ruud at the GSN office [gsn@mines.unr.edu](mailto:gsn@mines.unr.edu) or fax it to 775/323-3599. All stories will be approved by the Executive Committee before publishing.)

## NEVADA BUREAU OF MINES AND GEOLOGY PUBLICATIONS

The following publication is now available in the Publication Sales Office (SEM 310):

**SP29** - Rocks, gemstones, minerals, and fossils in Nevada: Stephen B. Castor and Daphne D. LaPointe, 2001, \$10.00 (1:1,000,000 scale map with references and color and black & white photos of some minerals) - replaces SP1, Rockhound's map of Nevada.

**OF01-7** - Nevada oil and gas well database map, CD and text, by Ronald H. Hess (2001) \$65.00.

You may place an order or check charges for shipping through our shopping cart at:

<http://www.nbmgs.unr.edu/sales.htm>  
or by calling (775) 784-6691 x2

The following publications are now available for viewing in the Information Office (SEM 311):

**DOE/NV—546-CD** - Waste management, Area 3 and Area 5 tour, Nevada Test Site (April 1999) - can order from US DOE in Las Vegas (phone 702-295-3521 or e-mail [nevada@nv.doe.gov](mailto:nevada@nv.doe.gov))

**USGS OFR 00-459** - Hydrogeochemical data for historic mining areas, Humboldt watershed and adjacent areas, northern Nevada by Nash, on web at <http://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-00-0459>

**USGS OFR 01-135** - Basin-centered gas systems of the U.S. (CD, Great Basin included) by Popov, Nuccio, Dyman, Gognat, Johnson, Schmoker, Wilson, and Bartberger (2001)

**USGS OFR 01-282** - Sediment-deposition rates and organic compounds in bottom sediment at four sites in Lake Mead, Nevada, May 1998 by Covay and Beck (2001)

**USGS OFR 01-402** - Sedimentology of the Pennsylvanian and Permian Strathearn Formation, northern Carlin Trend by Berger, Singer and Theodore, 102 pages or on the web at <http://geopubs.wr.usgs.gov/open-file/of01-402>

**USGS Water-Data Report NV-00-1** - Water resources data, Nevada, Water Year 2000

**USGS Water-Resources Investigations Report 01-4234** - Estimates of evapotranspiration from the Ruby Lake National Wildlife Refuge Area, Ruby Valley, northeastern Nevada, May 1999 - October 2000 by Berger, Johnson, Tumbusch, and Mackay (2001)

Thanks! Charlotte Stock, Publication Sales - MS 178, NBMG, University of Nevada, Reno, NV 89557-0088, (775) 784-6691 x2, fax (775) 784-1709, [nbmgsales@unr.edu](mailto:nbmgsales@unr.edu).

### *In Memory of Henry Herbert Shear*

GSN and the geologic community have lost a real gentleman. Henry Herbert "Herb" Shear died suddenly on January 6, 2002 while visiting family in Seattle, Washington. Herb was born in Missouri in 1935 and grew up in south Texas. He graduated from University of Arizona in 1960 with degrees in geologic engineering and mining engineering. Most of his career was spent in British Columbia where he became a Canadian citizen. His work was primarily as an independent prospector, but he also operated two mines. Herb founded and was President of Dentonia Resources and Skylark Resources, among other companies. In recent years, he returned to Nevada and reclaimed his U.S. citizenship. He lived in Tonopah and owned mining properties in the Tonopah area and in Mexico.

Herb Shear was a strong supporter of GSN and attended numerous field trips, symposia, and meetings. His friendliness, straightforwardness, and honesty will be sorely missed.

Earl Abbott

## UP-COMING EVENTS

**Feb 5** – Arizona Geological Society dinner meeting. Speaker: Stan Keith. Topic: “Planetary Tectonics – Fibonacci Planet.” Embassy Suites Hotel, 7051 S. Tucson Blvd, Tucson, AZ. AGS-520/663-3295.

**Feb 5 Tuesday** – WINNEMUCCA CHAPTER MEETING: Humboldt Room at the Red Lion Hotel/Casino, Winnemucca, NV. Speaker: J.P. Marsden, local historian. Topic: “Mining History in Our Area.” Bar opens at 6:45 pm, meeting at 7 pm. Contact Sheila Bunch for information, sbunch@lambdacom.com, 775/623-0202.

**Feb 8** – Northern NV section of SME meeting. Noon at the Bonanza Casino, Reno, NV. See the website for more information: [www.smennv.org](http://www.smennv.org).

**Feb 10-13** – 28th Annual Conference on Explosives & Blasting Technique, Riviera Hotel, Las Vegas, NV. Contact: International Society of Explosive Engineers, Cleveland, OH. 440/349-4400. Website: [www.isee.org](http://www.isee.org).

**Feb 12** – Northwest Geological Society meeting. University Plaza Hotel, 400 NE 45<sup>th</sup> St., Seattle, WA. University of Washington, Faculty Night. Dinner reservations: Art Coulter, [coulters@worldnet.att.net](mailto:coulters@worldnet.att.net).

**Feb 15** – Nevada Landmen’s Association meeting: Heidi’s Restaurant, near Parklane Mall, Reno, NV, 11:45 am. Contact Susie Mason for more information at 775/851-0283 or [smason@nvlandman.org](mailto:smason@nvlandman.org).

**Feb 15, Friday** – **GSN SYMPOSIUM 2005** - First Organizational Meeting: Round Table Pizza, N. McCarran and Mae Anne Ave., Reno, NV. 12 noon. Contact Dave Shaddrick, 775/746-2071 or Laura Ruud, 775/323-3500 for more information.

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**Feb 21** – Colorado Scientific Society meeting. Speaker: John Dewey, UC Davis. Topic: “Transtension in Arcs and Orogens.” Metals Hall, Green Center, Colo School of Mines, Golden, CO. Contact Eric Nelson for more information at 303/273-3811 or [enelson@mines.edu](mailto:enelson@mines.edu).

**Feb 25-27** – SME Annual Meeting, Phoenix, AZ. Contact SME, 303/973-9550 or 800/763-3132.

**Feb 28, Thursday** – SOUTHERN NEVADA CHAPTER MEETING: Lilly Fong Geoscience Building, Room 102, UNLV, Las Vegas, NV. Speaker: Rod Metcalf. Title: “Plutons as Magma Chambers, Processes and Products.” Social-5:30 pm. Contact Chris Riecken, 702/435-5664.

**March 5-9** – Alaska Miner’s Association Biennial Conference. Theme: The first 100 years; where do we go from here? Westmark Hotel, Fairbanks, AK. [www.alaskaminers.org](http://www.alaskaminers.org).

**March 10-13** – PDAC Annual Convention, Toronto, Canada. For information call 416/362-1969 or email [hsklarz@pdac.ca](mailto:hsklarz@pdac.ca).

**March 25-27** – 14<sup>th</sup> Annual Clark County Minerals Education Workshop, Cheyenne High School, Las Vegas, NV. Contact Diane Bryan, NV Mining Association at 775/829-2121 or [dbryan@nevadamining.org](mailto:dbryan@nevadamining.org).

**April 14-16** – SEG Annual Convention, Global Exploration 2002: Integrated Methods for Discovery; Denver, CO. For information go to [www.seg2002.org](http://www.seg2002.org).

### GSN Newsletter Monthly Advertising Rates

Business card size (3 <sup>1</sup> / <sub>2</sub> × 2’’)	\$ 50.00
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**For an advertising form, call the GSN office at 775/323-3500 or fax 323-3599. Camera-ready ads must be received by the 20th of the month to appear in the following month’s newsletter.**

Advertising guidelines:

- 1) No more than one (1) 1/2 page ad per company/per issue.
- 2) The GSN Newsletter is published monthly except June and July.
- 3) Placement of ads will be rotated and displayed in the order in which the payment is received.
- 4) B&W camera ready or digital ads (saved as EPS with preview) and payment **must be received by the 20th of the month** in order to be placed in the following month’s Newsletter. (Classifieds need not be camera ready.)
- 5) Depending on response, GSN may have to limit the ads in order to provide opportunity for all.
- 6) The Executive Board reserves the right to reject any ad which it may find inappropriate.

# GEOLOGICAL SOCIETY OF NEVADA



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