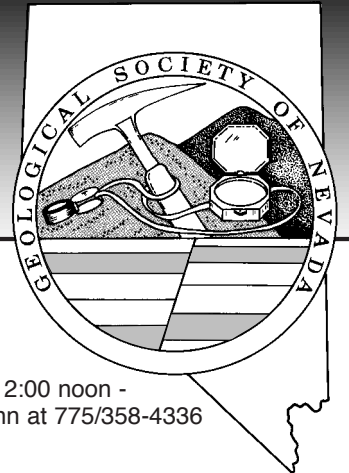


# GSN NEWSLETTER

September 1999, Vol. 13, No. 7



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gsn@mines.unr.edu

## CALENDAR OF EVENTS

- Sept 17** SYMPOSIUM 2000: Organizational meeting at 12:00 noon - Watts Room, University Inn, UNR. Cheri Reimann at 775/358-4336 for directions.
- Sept 22** GSN ELKO CHAPTER: At the High Desert Inn, Elko, NV; Speaker - David Vardiman, Cripple Creek District, Colorado, New Exploration Discoveries. Social-6:30, talk-7:00. Reservations not required. Call Jeff Pontius at 775/778-9280 for information.
- Oct 2** GSN PICNIC: Details and sign-up on page 2.
- Oct 15** **GSN MEMBERSHIP MEETING:** At Elks Club, Reno, NV; Speaker - Larry Kennedy, Battle Mountain Gold, Phoenix Project. Meeting details in the October Newsletter.
- Oct 16-17** GSN FALL FIELD TRIP to North Peak, Trenton Canyon, Buffalo Valley Mine and Marigold: Details on page 3.

Check out the **new** GSN web site:

**[www.gsnv.org](http://www.gsnv.org)**

**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

Joseph Anthony Kizis, Jr., GSN President 1999-2000

**The GSN Newsletter will be available soon via email... Sign up now!** Beginning in October, we hope to begin emailing the Newsletter to those who sign up for this service. Contact the GSN office or check the appropriate box on your membership renewal form to sign up.

Email has two very important advantages over physical mailing: 1) it saves the GSN significant mailing and printing costs, and 2) you actually receive the Newsletter. No more lost-in-the-mail Newsletters. No more receiving the Newsletter after the monthly meeting. Take note out-of-town members (who typically have had the worst luck). Our apologies to any postal workers who may be laid off because of our emailing... but not all of our members have been happy with the Postal Service.

Those who choose the email option will receive the Newsletter as soon as it's available. Email recipients will get all the news faster. The Newsletter will be viewed utilizing Adobe Reader, which is available free (we will provide a link so you can download it). Now if you think the photos are fuzzy, you can blame your printer!

## BACK FROM THE PRINTER

It's here! Special Publication No. 30, Geology and Ore Deposits at Bingham Canyon, Barney's Canyon, Mercur and Adjacent Districts in the Oquirrh Range, Utah, is back from the printer. The publication includes a new road log by **K. Krahulec** from SLC to the Mercur Gold Mine with extensive discussions of the districts along the west side of the Oquirrh Range. There are also two new papers on the history of the Bingham District by **K. Krahulec** and a second paper on the Mercur District by **D. Mako**. The publication contains 143 pages, nine color illustrations and sells for \$35.00 plus shipping (\$5.00 anywhere in the US). See publication form in this newsletter.

**A chilly Sam Nunnemaker views the Bingham Pit during the 1999 GSN Elko Chapter Field Trip.**





## News and Announcements

### ANNUAL GSN FAMILY PICNIC

GSN's 11<sup>th</sup> Annual Family Picnic is scheduled for Saturday, October 2nd from 12 noon to 5:00 in the North Picnic area at Bowers Mansion Park in Washoe Valley. Bring the whole family for a day of fun, games, and good food.

The GSN will provide the meat, snacks, and beverages. Each family is asked to bring a salad or dessert to share in the pot-luck style gathering.



**Steve Castor, Tom Crafford and Liz Jones begin to prepare the feast at the 1998 GSN Family Picnic.**

Please complete sign-up form and return it to the GSN office by September 25<sup>th</sup>. For more information call the office at 775/323-3500.



#### 11<sup>th</sup> ANNUAL GSN FAMILY PICNIC

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

Total # family members or guests in your party: \_\_\_\_\_

Ages of children: \_\_\_\_\_

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

City/State/Zip: \_\_\_\_\_

Daytime phone: \_\_\_\_\_

Bringing salad: \_\_\_\_\_

or dessert: \_\_\_\_\_

Enclosing: **\$10.00 per family or \$5.00 per single**

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### THE DEADLINE APPROACHETH!

Alan Wallace, GSN Symposium 2000 Publications

If you plan on submitting an abstract, short paper, or full manuscript for the GSN 2000 Symposium, Geology and Ore Deposits 2000: The Great Basin and Beyond, the deadline for submissions is October 1, 1999. All papers must be accompanied by a separate abstract, which will be published in the Program with Abstracts volume. Please review the Author Guidelines on the GSN website <http://www.gsnv.org/symp2000.htm> for information on preparing the papers.

The fourth announcement and registration package will be in the mail sometime in October.

### GSN MEMBERSHIP RENEWAL NOTICE

Gregory McN. French, GSN Membership Chair

A new GSN membership year has begun. As a friendly reminder we have provided a Membership Application/Renewal form in this newsletter.

In addition to the membership information published in previous years, your cell phone and web site will appear in this year's directory, printed in January. If you do not wish to have this information published, simply leave those items blank. For those who wish to receive GSN news in a more timely and convenient manner, we will be offering the Newsletters in PDF format via e-mail. Please check the appropriate box for your preference.

Thanks for your cooperation. We look forward to seeing you during the 1999-2000 membership year and hope you plan to attend the GSN Symposium scheduled for May 15-18, 2000!

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# GSN FALL FIELD TRIP

Ken Cunningham, GSN Vice President

The GSN 1999 Fall Field Trip is scheduled for October 16 and 17. We will depart Saturday morning at 7:00 am from the UNR parking lot on the northeast end of Campus (next to the William Peccole Baseball Field) and return Sunday evening between 5 and 6 pm. The trip is organized around gold deposits in the Buffalo Valley area and will include stops at **North Peak, Trenton Canyon, Buffalo Valley Mine** and **Marigold**. A presentation of the **Redline Deposit** will include examination of core and geochemical dispersion maps. In addition, as several of these deposits have a skarn affiliation, **Ted Theodore** of the USGS will give a short presentation of the Fortitude Skarn System. This will be the first GSN field trip to visit several of these deposits. The itinerary is below.

Space is limited to 85 and verbal reservations have been taken for approximately 25% of the available space. Price includes transportation, lunches (both days), cocktails (sponsored by **Eklund**), dinner Saturday, breakfast Sunday, guidebook, snacks, beer-on-the-bus (sponsored by **Chemex**), soft drinks, and lodging (if requested).

**Lang Drilling** and **Boart Longyear** are each sponsoring registration for three GSN members who are without company or corporate support. These slots will be filled by a drawing held during the September 17<sup>th</sup> GSN Executive Committee Meeting. A completed registration form with payment is required in order to confirm your spot on the trip.

## Saturday, October 16

- 6:45 am Meet buses at UNR parking lot
- 7:00 am Depart for Lone Tree Mine
- 10:00 am Meet with Newmont personnel and depart for Trenton Canyon Mine
- 10:30 am Tour Trenton Canyon (Newmont)
- 12:00 am Depart for North Peak, eat lunch en route
- 12:30 pm Tour North Peak (Newmont)
- 1:30 pm Depart for Buffalo Valley Mine
- 2:30 pm Tour Buffalo Valley Mine (Fairmile)
- 4:00 pm Depart for Battle Mountain (staying at Best Inn and Suite/Colt)
- 7:00 pm Hosted bar (Eklund) and dinner at Battle Mountain Civic Center

## Sunday, October 17

- 7:45 am Depart for Newmont's Battle Mountain Field Office
- 8:00 am Presentation of the Redline Deposit (Cameco/Newmont/Romarco)
- 10:00 am Discussion of the Fortitude Skarn System (USGS)
- 11:00 am Depart for Marigold
- 11:30 am Tour Marigold (Glamis) and eat lunch
- 2:00 pm Depart for Reno
- 5:00 pm Arrive at UNR parking lot



## GEOLOGICAL SOCIETY OF NEVADA 1999 FALL FIELD TRIP SIGN-UP

NAME \_\_\_\_\_

WK PHN \_\_\_\_\_ FAX \_\_\_\_\_

HOME PHN \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

Person to contact in case of emergency:

NAME \_\_\_\_\_ PHN \_\_\_\_\_

Accommodations needed in Battle Mtn: Y\_\_ N\_\_

Room Requirements (please circle)\*

GSN Member: single \$170 double \$150 no room \$128

Non-member: single \$200 double \$180 no room \$158

If double, specify roommate: \_\_\_\_\_

Amount included with this form: \$ \_\_\_\_\_

PAID WITH CHECK # \_\_\_\_\_

CREDIT CARD # \_\_\_\_\_

VISA \_\_\_ MC \_\_\_ EXPIRATION DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

(as it appears on card)

\* Lang Drilling and Boart Longyear have each graciously offered to sponsor three GSN members. A double occupancy room will be provided. Members without company or corporate support who wish to be considered for this lottery drawing should check this box.

**Payment must be received by September 24, 1999**

**No refunds after October 1, 1999**

**Fax to 775/323-3599 or mail to:**

**Geological Society of Nevada,**

**PO Box 12021, Reno, NV 89510-2021**

## GSN'S CREDIT UNION

Members of the GSN have membership privileges at the Great Basin Credit Union (GBCU) with branches in Reno and Sparks. For information call (from the Reno/Sparks area) 775/333-4228 and toll free from outside the Reno area 800/545-4228.

Recently GBCU has added "Great Basin @ Home" service for convenience and ease of banking from home.

## NEW POSTER HIGHLIGHTS EARTH SCIENCE WEEK '99

Julia A. Jackson,  
Earth Science Week Program Director

In anticipation of Earth Science Week '99 (Oct. 10-16), the American Geological Institute (AGI) has produced another vibrant poster. Eighteen AGI member societies and a number of other organizations are distributing the new Earth Science Week poster, by the beginning of Earth Science Week.

The front of the poster features a model of Earth's interior structure, and the investigation on the back, "Modeling from Evidence," is designed to help students understand how science is done. The investigation is a "mystery bag" activity that can easily be adapted for use with elementary, middle, high school, or college-age students. Students doing the activity develop scientific inquiry skills as they gather evidence, propose models based on evidence, and debate and discuss their observations and inferences. In the process, they learn to revise and improve their models by gathering new evidence and/or by re-evaluating their interpretations.

The Earth Science Week poster is the newest addition to AGI's Earth Science Week '99 information kit. The kit, which includes four posters, a 32-page booklet filled with ideas and activities for Earth Science Week, and other useful materials, is available from AGI at no charge.

To learn more about Earth Science Week or to request an Earth Science Week information kit, visit the Earth Science Week web site, <http://www.earthsciweek.org>, or send your request to Earth Science Week, AGI, 4220 King St, Alexandria, VA 22302.

## STUDENT MEMBERSHIP

Mackay School of Mines students: Even though your membership is being sponsored by **GEOTEMPS, Inc.**, you must still submit a membership application/renewal form. Please be sure to include any updates and changes.

All students are also encouraged to sign-up for one of the free field trips (Oct 16-17) being offered by **Lang Drilling** and **Boart Longyear**.



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## NEVADA PETROLEUM SOCIETY 1999 FIELD TRIP—OCT. 7-10

James Faulds, Nevada Bureau of Mines and Geology

The 1999 NPS field conference, Cenozoic Structure and Stratigraphy of the Northern Colorado River Extensional Corridor, Southern Nevada-Northwest Arizona: Economic Implications of Extensional Segmentation Structures, will address the Cenozoic structure and stratigraphy of the extensional corridor between Laughlin, Nevada, and Lake Mead. It will focus on the economic implications of extensional segmentation structures while viewing superb exposures of such structures. These structures contain the termination of normal-fault systems, consist of strike-slip faults (transfer zones) or belts of overlapping normal faults (accommodation zones), and commonly host hydrocarbons, mineral deposits, and groundwater in rift settings. The trip will include stops in the Eldorado and Black Mts, Lake Mead and Las Vegas areas, and Searchlight and Eldorado mining districts. The trip will be led by James Faulds, Dan Feuerbach, Eric Olson, and Linda Price.

Please address questions to Faulds by phone (775-784-6691, x159) or email [jfaulds@unr.edu](mailto:jfaulds@unr.edu). For trip details, visit the NPS web site at <http://www.nbmjg.unr.edu/nps/>.

## CONSULTANT GOES TO HEAVEN

Submitted by Thomas H. Burkhart

A consultant dies in a car accident on his 40th birthday and finds himself at the Pearly Gates. A brass band is playing, the Angels are singing a beautiful hymn, there is a huge crowd cheering and shouting his name and absolutely everyone wants to shake his hand.

Just when he thinks things can't possibly get any better, Saint Peter himself runs over, apologizes for not greeting him personally at the pearly gates, shakes his hand and says "Congratulations son, we've been waiting a long time for you!"

Totally confused and a little embarrassed, the consultant sheepishly looks at Saint Peter and says, "Saint Peter, I tried to lead a God fearing life, I loved my family, I tried to obey the 10 commandments, but congratulations for what? I honestly don't remember doing anything really special when I was alive."

"Congratulations for what?" says Saint Peter, totally amazed at the man's modesty. "We're celebrating the fact that you lived to be 160 years old! God Himself wants to see you!"

The consultant is struck with awe and can only look at Saint Peter with his mouth agape. When he regains his power of speech, he looks up at Saint Peter and says, "Saint Peter, I lived my life in the eternal hope that when I died I would be judged by God and be found to be worthy, but I only lived to be forty."

"That's simply impossible son," says Saint Peter, "we've added up your time sheets three times and they show you living 160 years."

# EARTH SCIENCE WEEK

Jonathan G. Price and D.D. LaPointe,  
Nevada Bureau of Mines and Geology

Earth Science Week has been officially proclaimed as the second full week of October by Nevada Governor Kenny Guinn, the U.S. Congress, and the Association of American State Geologists to recognize how important geology and other Earth sciences are to society.

The Nevada Bureau of Mines and Geology (NBMG) would like to invite all organizations, agencies, groups, and individuals in the Nevada "Earth science community" to join us in sponsoring and celebrating Earth Science Week, 1999, October 10 through 17. Let's show a united effort in reaching out to the public this year to help increase public awareness of the significant role played by Earth sciences in our lives.

We would like to know of any Earth science-related activities, lectures, meetings, field trips, workshops, etc. open to the public which your agency or group will be involved with during Earth Science Week so that we can help to promote these events to the public. We would also like to furnish you with a list of Earth Science Week events and activities to print in your newsletter if you have one, in order to increase community participation in this effort.

Among the activities will be two separate field trips for the public, on October 9 and 16, in the Reno area. We will send you more information about these trips, including a call for volunteer geoscientists to serve as field-trip co-leaders. We'll have easy-to-follow, brief pamphlets as field-trip guide booklets; the job for the co-leaders will be to help explain the geology (as described in the pamphlets) to the members of the general public who attend. Please respond to D.D. LaPointe, NBMG, 775/784-6691 x134, as soon as possible, to include your group on our list of Earth Science Week sponsors. Let us know the date, time and contact for any events you plan, and please include a contact person and publication deadlines for your newsletter.

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## MISCELLANEOUS

► All Expenses Paid: **Lang Exploratory Drilling** and **Boart Longyear** have once again offered to sponsor a total of 6 individuals (3 each) on the GSN Fall Field Trip. See Field Trip article and sign-up form for details. Chances are **Darrell Tweidt** (Lang) and **Steve Barnwell** (Boart) are to blame for this thoughtful contribution. What a generous gift!

► Thanks to **Aur Resources (USA) Inc.** and in particular, **Cheri Reimann**, who copied the GSN Membership Renewal forms for our recent mail-out.

► Typo or Truism? One of our keen-eyed members spotted a well-timed typo in the help wanted section of a local newspaper. The ad was for GOLF SERVICES ASST. It read as follows: ".....has immed opening for personal, outgoing individual who likes to work with public. Outdoor job. Duties include: bag-room, carts, range. Gold background not required ....."

► Thanks to UNR's DeLaMare Geoscience Librarian **Linda Newman** who once again spread the word to other university libraries about GSN's most recent publications.

### GSN Newsletter Monthly Advertising Rates

Business card size (3 1/2 x 2")	\$ 50.00	Quarter page (3 1/2 x 4 3/4")	150.00
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 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.

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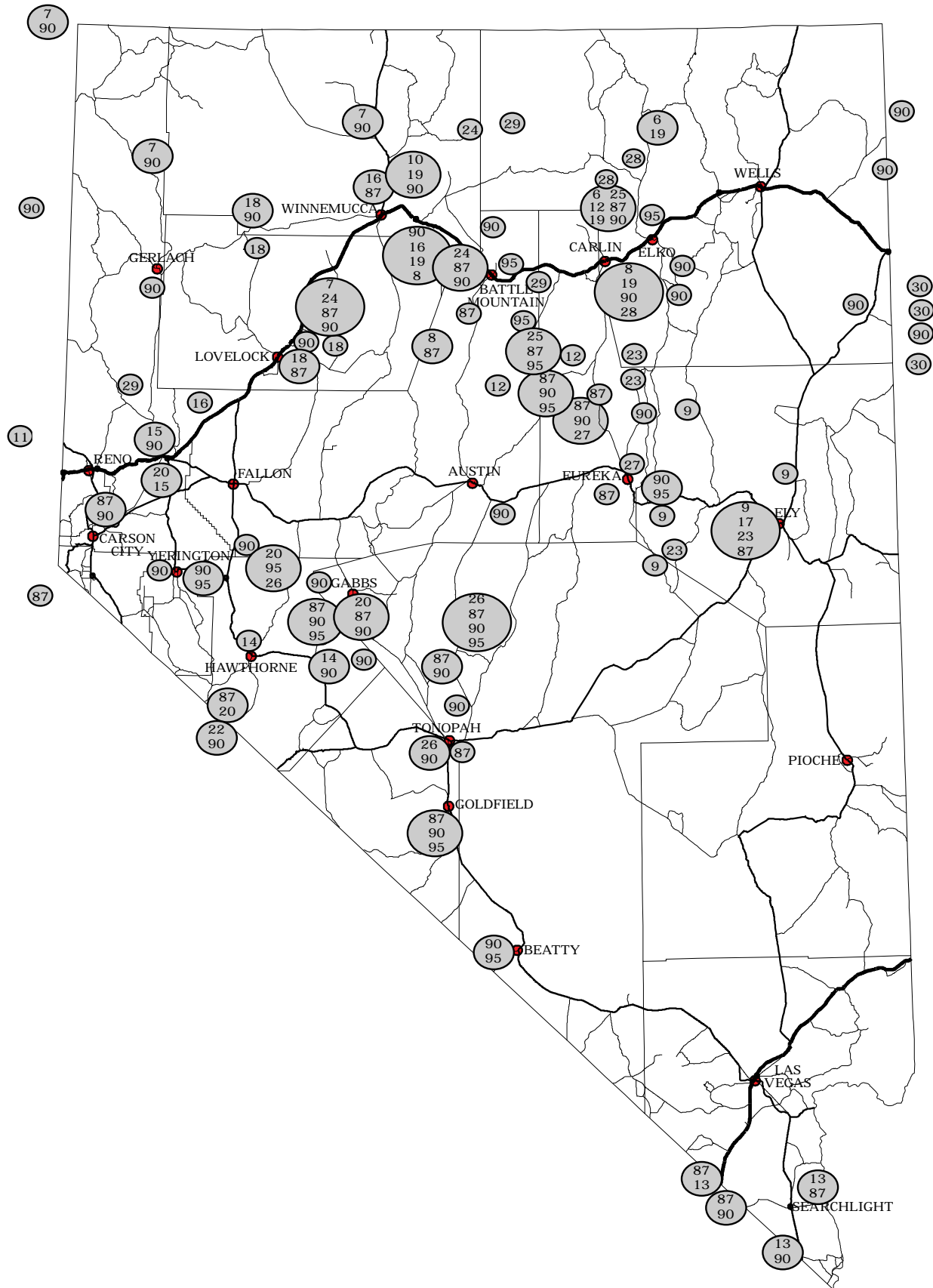
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# REFERENCE MAP FOR GSN FIELD TRIP GUIDEBOOKS

Thanks to the extraordinary efforts of Raye and Don Buckley, we are enclosing a map of Nevada cross-referencing specific areas the GSN field trip guidebooks cover. This map will undoubtedly be a valuable tool for those seeking information in particular locales. Publications can be ordered through the GSN by fax, phone, mail, or stop by in person to avoid shipping costs. The GSN sales office is open 9:00-12:00, Tuesday through Thursday, except holidays. The printed newsletter shows a map with text. Use the order form on the following page for a number reference.





# GEOLOGICAL SOCIETY OF NEVADA

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## PUBLICATION ORDER FORM & INVOICE

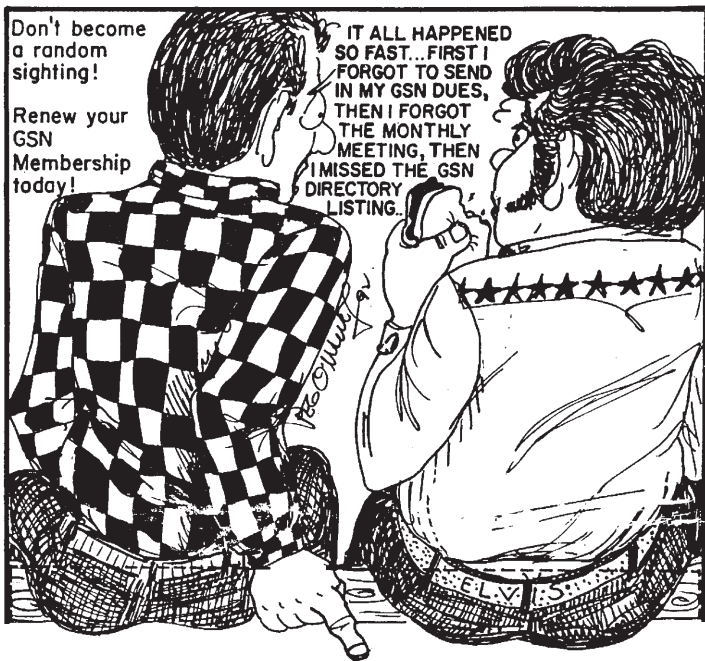
	QTY	TOTAL		QTY	TOTAL
87-1★ Bulk Mineable Precious Metals Symp, Proceedings (1987) \$25.00	_____	_____	SP-18 Gold & Silver Deposits of W NV (1993) \$30.00	_____	_____
87-2 Bulk Mineable Precious Metals Symp, Guidebook for Field Trips (1987) \$15.00	_____	_____	SP-19 NE NV Breccia Bodies (1993) \$15.00	_____	_____
89-1 Compressional & Extensional Structural Styles (1989) \$12.00	_____	_____	SP-20 Gold Deposits of the Central Walker Lane, NV (1994) \$35.00	_____	_____
90-1★ Geol & Ore Dep of the Great Basin Symp, Proceedings (1990) (2 v) \$30.00	_____	_____	SP-22 Geology & Ore Deposits of Bodie Hills, N Mono Basin Region (1995) \$10.00	_____	_____
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95-1★ Geol & Ore Dep of the American Cordillera Symp, Proceedings (1995) (3 vol) \$125.00	_____	_____	SP-25 Geology & Ore Deposits of NE NV (1997) \$35.00	_____	_____
95-2★ Geol & Ore Dep of the America Cordillera n Symp, Field Trip Compendium (1995) \$65.00	_____	_____	SP-26 Low-Sulfidation Volcanic-hosted Epithermal Au-Ag Deposits, W-C NV (1997) \$35.00	_____	_____
99-1 GSN Abstracts - 1986 through 1998 (1999) \$28.00	_____	_____	SP-27 Sediment-Hosted Au Deposits of Eureka & Gold Bar Districts, E-C NV (1998) \$35.00	_____	_____
99-2 GSN Membership Directory (1998-1999) \$10.00	_____	_____	SP-28 Shallow Expressions of Deep, High-Grade Au Deposits (1998) \$45.00	_____	_____
<b>SPECIAL PUBLICATIONS:</b>			SP-29 Low-Sulfidation Au Deposits in N NV (1999) \$40.00	_____	_____
SP-6 N Carlin Trend, Big Springs (1987) \$35.00	_____	_____	SP-30 Geology & Ore Deposits at Bingham Canyon, Barney's Canyon, Mercur & Adjacent Districts in the Oquirrh Range, Utah \$35.00	_____	_____
SP-7 Hot Springs Gold Deposits of NW NV & SE OR (1988) \$35.00	_____	_____	<b>Polo Shirts</b> (plumb or grey) \$22.00; <b>Hats</b> (plumb/green or black/beige) \$10.00; <b>GSN Pins</b> \$5.00	_____	_____
SP-8 Gold Deposits of N-C NV (1988) \$18.00	_____	_____	★ <b>SPECIAL OFFER:</b> Save an additional \$5.00 on any of the publications marked with a star by coming to the GSN office and picking them up.		
SP-9 Geology & Mineral Deposits of White Pine County (1989) \$35.00	_____	_____	Subtotal	_____	_____
SP-10 Geology & Gold Deposits of the Osgood Mtns, NV (1989) \$10.00	_____	_____	See chart below for <b>Shipping &amp; Handling</b>	_____	_____
SP-11 Geology & Ore Deposits of the Sierra Nevada & Foothills (1990) \$35.00	_____	_____	<b>TOTAL US \$</b>	_____	_____
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SP-16 Industrial Minerals & Gold Deposits Along I-80 Corridor (1992) \$15.00	_____	_____	City: _____ State/Prov: _____		
SP-17 Robinson Mining District Geology & Mineralization (1993) \$12.00	_____	_____	Zip Code: _____ Country: _____		
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			Signature _____ (as it appears on card)		

Please make checks payable to **Geological Society of Nevada**. Payment must accompany order (sorry, NO purchase orders). Payment should be made in US dollars. Price includes NV sales tax when applicable. Prices do not include international customs duty or taxes. This price list supersedes all others & is effective 8/8/99. Prices are subject to change. Tax ID # 88 0143056. Published in the **USA**.

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\$ 0 - 75	\$ 5.00	\$20.00	\$15.00	\$45.00	\$50.00	\$70.00	Please contact GSN office for current shipping rates
76 - 150	10.00	30.00	25.00	80.00	100.00	150.00	
<b>For each additional \$75 add</b>	5.00	10.00	10.00	20.00	25.00	40.00	

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**PEGGING THE HUMOR METER:**  
 For many years the talented Peg O'Malley entertained GSN members with her sagacious wit and artistic talents. The "random sighting" cartoon, (left) from a 1992 GSN Newsletter, is reprinted with her permission. We hope to exhume other favorites and re-print them in future newsletters, as space permits.



## GEOLOGICAL SOCIETY OF NEVADA MEMBERSHIP APPLICATION/RENEWAL

NAME: \_\_\_\_\_ POSITION/TITLE: \_\_\_\_\_

CONSULTANT  COMPANY NAME: \_\_\_\_\_

STUDENT  UNIVERSITY: \_\_\_\_\_

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- 1) I would prefer:    A. To receive the GSN Newsletter via e-mail in lieu of a hard copy.   
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# THE GREAT BASIN EXPERIENCE\*

(\*are we in trouble, or what?)

## By Ol' Three Toe and Club Tail (not your ordinary fossils)

e-mail address - [dinos28297@aol.com](mailto:dinos28297@aol.com)

### YOU KNOW THAT EXPLORATION IS DOWN IN THE GREAT BASIN WHEN:

You don't know anyone eating breakfast at the Griddle.

You can sign-up for a GSN field trip at the last minute.

You sent resumes to everyone in the Northern Miner, everyone in GSN directories, and everyone you ever knew.

There are more tourist vehicles on U.S. 50 than exploration rigs.

Each day you get more resumes than junk mail.

You actually attended the birth of one of your children.



Your mother-in-law comes for a visit and you have no field work to do.

You discover that your spouse has a whole other life that you knew nothing about.

Your favorite "field bar" calls to see if you are mad at them.

Your field dog's paw pads have grown tender.

Your favorite greasy spoon restaurant has closed.

The field vehicles in your fleet with only 100,000 miles on the odometer are now considered low mileage.

You can attend your children's sporting events and birthday parties.

You can get a room at your favorite motel.

You no longer want to watch how your company stock options are doing.

Your spouse has paid the bills so long that he/she won't trust you with the check book.

You have put time in on that paper you always wanted to publish, but you can't seem to finish it.

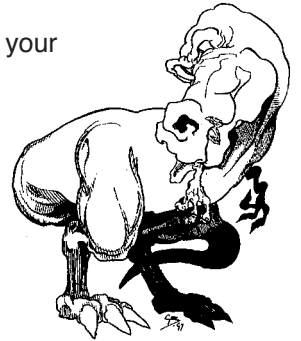
You no longer send out resumes.

You run into more geologists in a hardware store than in the field.

Your in-laws stopped asking for loans.

You've enrolled in teaching classes "just in case".

Your wife has to remind you to change T-shirts and to take a shower.



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## UP-COMING EVENTS

**Sept 9-11** NvMA 1999 Annual Conv at Lake Tahoe, NV. B Davies, 775/829-2121, bdavies@nevadamining.org

**Sept 11** UGA Annual Field Trip to Northern UT. A Yankee, 801/626-7419, AYONKEE@weber.edu; J Wilson, 801/626-6208, JWILSON@weber.edu

**Sept 11** CGS Field Trip at Boulder, CO. D Noe, 303/866-2432

**Sept 16-18** NC Div of Archives & History, Univ of NC, The First Discovery of Gold in America at Charlotte, NC. 704/721-4653, reedmine@ctc.net

**Sept 17-19** CGS Denver Gem & Mineral Show at Denver, CO. C Smith, 303/466-5863

**Sept 20-24** BLM Interactive Forum on Approaching Bond Release at Flagstaff, AZ. L Wagner, 303/844-1450, lwagner@osmre.gov

**Sept 22 GSN Elko Chapt Meeting** at Elko, NV. David Vardiman, Cripple Creek District, CO, New Exploration Discoveries. J Pontius, 775/778-9280, jpontius@mail.imc-i.com

**Sept 22-24** Utah Geographic Information Council annual meeting at Snowbird, UT. 801/585-9133, greg.gault@geog.utah.edu

**Sept 27-28** Int'l Soc of Explosives Eng, Explosives & Blasting Regulatory Conf at Cleveland, OH. 440/349-4004, www.isee.org

**Oct 2 GSN Picnic** at Reno, NV. 12:00-5:00 pm at Bowers Mansion Park in Washoe Valley. See sign-up form in this newsletter

**Oct 5** AGS Dinner Meeting at Tucson, AZ. Phil Pearthree, Paleoflood Hydrology/Flood Hazards. Social-6:00, dinner-7:00, talk-8:00. Res 520/770-3500 www.azgs.state.az.us/ags/index.htm

**Oct 7-10** NPS Field Trip. 775/784-6691 x159, jfaults@unr.edu

**Oct 8** UNR Econ Geol Lecture, Mark Conrad, Lawrence Berkeley Lab at Reno, NV. LMR Bldg, Rm 355, 3-4 pm, G Arehart, 775/784-6470, arehart@unr.edu

**Oct 9-12** MINExpo Int'l 2000 at Las Vegas, NV. 202/463-2611, www.minexpo.com

**Oct 10-13** Nat'l Mining Assn Conv '99 at St. Louis, MO. E Holmes, 202/463-2651

**Oct 10-16** Earth Science Week. www.earthsciweek.org

**Oct 15 GSN Membership Meeting** at Reno, NV. Larry Kennedy, Battle Mountain Gold. 775/323-3500, gsn@mines.unr.edu

**Oct 16-17 GSN Fall Field Trip.** 775/323-3500, gsn@mines.unr.edu

**Oct 17-20** NPS Geothermal Resources Council Annual Meeting at Reno, NV. S Wells, 775/861-6573

**Oct 25-28** GSA Annual Meeting & Expo, Crossing Divides at Denver, CO. 800/472-1988, meetings@geosociety.org, www.geosociety.org

**Nov 1-5** AMA Conv at Anchorage, AK. 907/563-9229, www.alaskaminers.org

**Nov 2** AGS Dinner Meeting at Tucson, AZ. Bill Bull, Soil Chronosequence. Social 6:00, dinner-7:00, talk-8:00. Res 520/770-3500

**Nov 4-6** Nat'l Western Mining Conf at Colorado Springs, CO. CMA, 303/575-9199

**Nov 7** NPS Dinner Meeting at Reno, NV. Social-6:30, dinner-7:00, talk-8:00. Res S Wells, 775/861-6573

**Nov 29-Dec 3** NWMA 105th Annual Meeting & Expo at Spokane, WA. H Hoeft, 509/624-1158, www.nwma.org

**Oct 5** AGS Dinner Meeting at Tucson, AZ. Jim Sell, History of AGS. Social 6:00, dinner-7:00, talk-8:00. Res 520/770-3500 www.azgs.state.az.us/ags/index.htm

—2000—

**Feb 13-16** Int'l Soc of Explosives Engineers 26th Annual Conv at Cleveland, OH. 440/349-4004, www.isee.org

**Feb 28-Mar 1** SEG-SME Annual Meeting, New Frontiers in Mining at Salt Lake City, UT. 303/973-9550, smenet@aol.com

**Mar 5-10** PDAC Mining Millennium 2000 at Toronto, Ontario, Canada. 416/362-1969, www.miningmillennium.org

**May 15-18** Geology & Ore Deposits 2000 - The Great Basin and Beyond, A GSN Symposium at Reno/Sparks, NV. 775/323-3500, gnsymp@unr.edu, visit our web site at: www.gsnv.org

**July 11-13** N American Quarry Show at Jamesville, NY. 518/673-3237, quarry@telenet.net


**Aug 31st** Int'l Geol Congress, Brazil 2000 at Rio De Janeiro, Brazil. 55 21 295 5847, 31igc@31igc.org.br

**Dec 3-7** NWMA Annual Meeting & Expo at Spokane, WA. H Hoeft, 509/624-1158, www.nwma.org

### CLASSIFIEDS (\$10 per line, deadline 20th of month)

GSA Bulletin back issues needed; '81-'98. Contact Marilyn at mmiller@kec-reno.com, or (775) 334-2772, ext 26.


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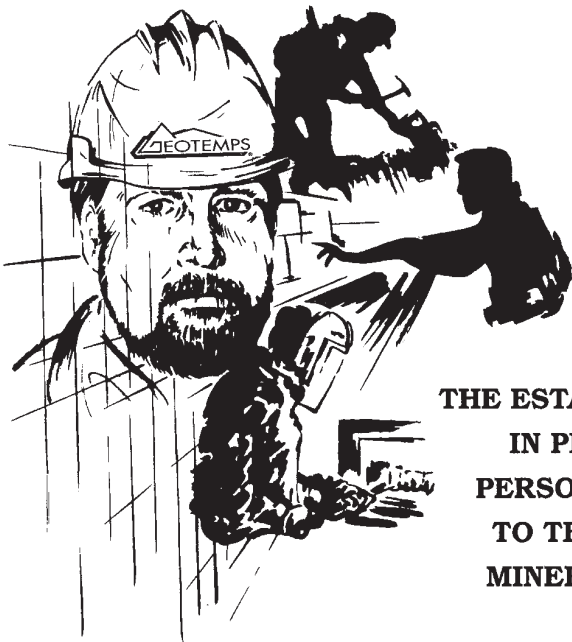
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