

NEWSLETTER

Serving the Petroleum and Geothermal Community

Nevada Petroleum and Geothermal Society; P. O. Box 11526; Reno, NV 89510
Visit our NPS Homepage: <http://www.nbmjg.unr.edu/nps/>

President

Bill Ehni
Geologist
Ehni Enterprises, Inc.
P. O. Box 4228
Carson City, NV 89702
775-883-1107
ehni@ehni.com

Vice President/Pres Elect

Judy Kareck
Engineer
Lumos & Associates
9222 Prototype Drive
Reno, Nevada 89521
775-827-6111
jkareck@lumosenineering.com

Secretary

Jerry Walker
Geologist
1455 Shewmaker Ct.
Reno, NV 89509
775-348-0650
Jerry_reno@charter.net

Treasurer

Steve Foster
Geophysicist/Geologist
886 Marsh Ave.
Reno, NV 89509
775-329-4123
sfostermammoth@gmail.com

Past President

John Snow
Chief Operating Officer
Standard Steam
14075 Saddlebow Dr.
Reno, Nevada 89511
(775) 336-8067 (O)
(775) 853-3485 (H)
jsnow@standardsteamtrust.com

AAPG Delegate

Andrew Hanson
Assoc Professor
Geoscience
UNLV, Las Vegas, NV
Andrew.hanson@unlv.edu

RMS-AAPG Representative

Jerry Walker
Geologist
1455 Shewmaker Ct.
Reno, NV 89509
775-348-0650
jerry_reno@charter.net

Dinner Meeting: Thursday, Feb 6, 2014

Speakers: Lowell Price, NDOM, Carson City
John Menghini, BLM, Reno

Topic: Hydraulic Fracturing Updates in Nevada

Place: Ramada Reno Hotel
1000 East 6th Street, Reno, Nevada

Cocktail Reception 6:30; Skyline Room, 14th Floor

HOSTED BY:



Buffet Style Dinner Served at 7:00 PM

Baked Chicken, Flank Steak, Baked Potato, Vegetables, Salad, Dessert

Dinner Costs:

NPGS Members \$ 20; Non-Members \$23; Students \$10

RSVP at the following link to make reservations for the Feb 6th
Dinner Presentation:

https://docs.google.com/forms/d/1Ea2MIIOPI4q25WHs_hTnNeah8QX4UT9W06YCwqfxsw4/viewform

SEE CALENDAR Pages 21-22 for upcoming meetings

► **NPGS Monthly Dinner Meeting – Feb 6, 2014**

**NEVADA PETROLEUM AND GEOTHERMAL SOCIETY
THURSDAY, February 6th DINNER MEETING**

Title: Proposed Hydraulic Fracturing Regulations

Lowell Price, NDOM Carson City

Lowell will be discussing the proposed hydraulic fracturing regulations. Topics to be included will cover proposed water sampling, NDEP involvement, well bore construction requirements, chemical usage and reporting, handling, storage and disposal of hydraulic fracturing back-flush, and scheduling of regulatory changes and workshops within our region.

Title: The Game Changer- Hydraulic Fracturing

John Menghini, BLM, Reno

John's presentation is an overview of hydraulic fracturing techniques, recent developments in Nevada and the status of the Federal Hydraulic Fracturing regulations.

► **About the Speakers:**

Lowell Price, Oil, Gas, and Geothermal Program Manager

Nevada Commission on Mineral Resources, Nevada Division of Minerals

400 West King Street, Suite 106, Carson City, NV 89703-4212, lprice@govmail.state.nv.us

Lowell Price received his Bachelor's degree in Geology from the University of Texas at Arlington in 1978. As the Oil, Gas, and Geothermal Program Manager for the Commission on Mineral Resources, Nevada Division of Minerals in Carson City, Nevada, he oversees oil, gas, and geothermal permitting and drilling activities within the State of Nevada. Prior to the Division of Minerals, Lowell was Operations Geologist for Epoch Well Services and Horizon Well Logging, performing well site geology in Nevada, California, Alaska, Belize, and Guatemala.

John R. Menghini, Oil and Gas Program Lead, State Petroleum Engineer

Bureau of Land Management, Reno, Nevada

Nevada State Office, 1340 Financial Blvd, Reno, NV 89502-7147, 775-861-6573

John is responsible for program development, budget, drilling permits, unitization and communitization, drainage, reasonable foreseeable development for NEPA documents and all engineering operations for geothermal activity. He holds degrees in petroleum engineering and business administration from the University of Wyoming.

John began his career as a drilling engineer for Dowell-Schlumberger in Cameron, Louisiana before returning to school to get his degree in business administration. He started his BLM career in Rawlins, Wyoming as an operations engineer later transferring to Casper, Wyoming as an operations/reservoir engineer working for the Reservoir Management Group. In 2003 he moved to the Nevada State Office as the program lead and state Petroleum Engineer.

He has a wide range of knowledge with all aspects of the Federal requirements dealing with permitting and unitization agreements including lease suspensions, unavoidable delay requests, paying well determination and establishment/revisions of participating areas.

► **Cocktail Reception 6:30 Hosted by Barbour Well:**



Scott Watkins Client Relations

Barbour Well Inc., 260 Sunpac Ave. Suite A, Henderson, NV 89011

Direct: 805-207-6407, Ofc: 702-558-5373, www.barbourwell.com

► **WELCOME NEW NPGS MEMBERS:**

Hinz, Nicholas	Nevada Bureau of Mines & Geology, UNR	Reno, NV
McGraw, Michael	Rain for Rent	Sparks, NV

► **NPGS Research Awards in Geosciences – 2014 Applications Due Feb 28:**

2014 Scholarship Application flyer in this newsletter.
For more information trexler@unr.edu

► **SWITCH – Showing Feb 12 @ UNR:**

The Nevada Petroleum and Geothermal Society, in conjunction with the UNR AAPG Student Chapter, is sponsoring **SWITCH**, a 98-minute film that provides a well-balanced, informative perspective on energy and shows alternatives to how we can transition from the energy that built our world to the energy that will shape our future.

Join us on Wednesday, February 12th, at the Joe Crowley Student Union Theater (3rd level), at 7:00 p.m. We will have a Q&A Session after the viewing co-moderated by Jerry Walker, P.G., and Dr. David Boden, Chair Physical Sciences, Professor of Geoscience, TMCC and part of the faculty for UNR's Renewable Energy Department. **See the flyer in this newsletter for more information.**

► **Upcoming Nevada BLM Geothermal Lease Sale; Sep 9, 2014:**

Deadline for Nominations for this sale was Jan 31, 2014.

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal

► **Scheduled BLM Oil & Gas Lease Sales: Parcel listings are available.**

***Nevada's Competitive Oil & Gas Lease Sale Schedule
(Tentative)***

Sale Date	Parcels Offered for District Office at Sale	*EOIs Due	Sale Posting Date	Protest Deadline
June 24, 2014	Elko/Southern Nevada	June 13, 2013	March 21, 2014	April 20, 2014
July 17, 2014	Battle Mountain	September 13, 2013	April 14, 2014	May 16, 2014
September 9, 2014	Winnemucca/Carson City	December 13, 2013	June 11, 2014	July 11, 2014
December 9, 2014	Ely	March 14, 2014	September 10, 2014	October 10, 2014

*EOI = Expression of Interest

NOTE: This is a revised schedule. For a listing of parcels for the June & July sale, use the following link:

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/oil_gas/oil_and_gas_leasing.html

► **AAPG Rocky Mountain Section Annual Meeting:**

July 20-22, 2014 – Denver Convention Center, Denver CO

Call for Papers included in this newsletter – EXTENDED Deadline Feb 15, 2014.

www.aapgrms.org

► **News from Nevada Bureau of Mines & Geology:**

From: Charlotte Stock

2014 NWRA Annual Conference—Panel with Jim Faulds

What: 2014 NWRA Annual Conference

When: February 3–6, 2014

Where: Tuscany Suites & Casino, Las Vegas, Nevada

<http://www.nwra.org/event-information>

Panel: Economic Perspective on Water Resources and Energy

Wednesday, February 5, 2014 3:45 p.m. – 5:15 p.m.

Discussion of the role of the economics of water resources within the context of the profitability of geothermal and other renewable energy development in Nevada, and related natural resources. Perspectives will be given on Regulations, Competing Local Water Uses, Cooperation and Stewardship.

Moderator: Thomas Piechota, Ph.D., P.E., University of Nevada, Las Vegas

- James E. Faulds, Ph.D., Director/State Geologist/Professor, Nevada Bureau of Mines & Geology, University of Nevada, Reno, “Why is Nevada in Hot Water: New Approaches to Understanding and Harnessing Nevada’s Vast Geothermal Resources”
- Brenda Shank, Director, Renewable Energy Strategy & Development, NV Energy, “Renewable Energy in Nevada”
- Randal Peterson, Manager, Corporate Permitting Group, Ormat Energy Systems, “Geothermal Energy’s Role in Nevada’s Water Future”
- Andrew Wang, Director of Development, SolarReserve LLC, “Crescent Dunes Solar Energy Project — An Update”

NBMG Information Video—Just Posted!

The Nevada Bureau of Mines and Geology conducts cutting edge, societally relevant science that fosters economic development and public safety and involves training of the next generation of geoscientists. Major projects include earthquake hazard studies in the

Nevada Petroleum and Geothermal Society; Feb 2014

nation's third most seismically active state, mineral and geothermal resource assessments, and regional tectonic studies of Nevada's rapidly evolving landscape.

Learn how the Nevada Bureau of Mines and Geology serves the citizens of Nevada in this informative and beautiful video with audio (produced in cooperation with WebsEdge):

<http://www.youtube.com/watch?v=h2MVieeukNg&feature=youtu.be>

New OFR on Eglinton Fault—Clark County

Open-File Report 13-12

Evidence for High Contemporary Slip Rates along the Eglinton Fault, Clark County, Nevada, by Craig M. dePolo, Wanda J. Taylor, and James E. Faulds, 2013, 8 pages, color, \$2.40:

<http://www.nbmg.unr.edu/sales/pbsdtls.php?sku=OF13-12>

or free online:

<http://www.nbmg.unr.edu/dox/of1312.pdf>

The Eglinton fault in northern Las Vegas Valley is an unusual fault in that it is expressed as a faulted warp at the surface and accommodated a large vertical surface offset (10-14 m) in latest Pleistocene sediments relative to its short length of 11 km. Coupled with a competing hydro-compaction hypothesis for faults within Las Vegas Valley, the earthquake hazard of the Eglinton fault has been poorly understood and likely underrepresented. Radiocarbon dates from faulted sediments in the area indicate that the vertical displacement across the fault has occurred in the last ~22 kyr. A preferred vertical fault slip rate of 0.6 m/kyr, and range of 0.25 to 0.9 m/kyr, are estimated using available data. How single event displacements are manifested along the Eglinton fault and what the size of those displacements might be is not known, generating uncertainty in estimating the potential earthquake recurrence interval for the fault.

W.M. Keck Museum Mineral Sale—Fri Feb 7

The Lady Muckers and Keck Museum will hold a mineral sale this Friday Feb. 7 from 9:00 a.m. to 1:00 p.m.

Proceeds of the sale will go towards the ladies' mining team at UNR.

<http://www.unr.edu/keck>

Office: 775.784.4528

SWITCH: Discover the Future of Energy

What: *SWITCH: Discover the Future of Energy* (film)

When: Wednesday, February 12, 2014 at 7:00 p.m.

Where: Joe Crowley Theater at the Joe Crowley Student Union, third floor, UNR

<http://www.unr.edu/around-campus/facilities/crowley>

See the film that's changing the global energy conversation.

A message from NPGS: The Nevada Petroleum and Geothermal Society, in conjunction with the UNR AAPG Student Chapter, is sponsoring *SWITCH*, a 98-minute film that provides a well-balanced, informative perspective on energy and shows alternatives to how we can transition from the energy that built our world to the energy that will shape our future.

In *SWITCH*, Dr. Scott Tinker gets the straight answers to our most controversial energy questions. He explores the world's premier sites for all energies, coal to solar, oil to biofuels. He talks to the people driving energy today, international leaders of government, industry and academia. In the end, he cuts through the confusion to discover a path to our energy future as surprising as it is practical.

Watch the trailer and get more info at

SwitchEnergyProject.com

Click the link below for free tickets:

<http://www.eventbrite.com/e/nevada-petroleum-and-geothermal-society-inc-screening-tickets-6466211613>

Seats will be held until 6:50 p.m. Remaining seats will be open to the public after 6:50 p.m.

Join us on Wednesday, February 12th, at the Joe Crowley Student Union Theater (3rd level), at 7:00 p.m. We will have a Q&A Session after the viewing co-moderated by Jerry Walker, P.G., and Dr. David Boden, Chair, Physical Sciences, Professor of Geoscience, TMCC and part of the faculty for UNR's Renewable Energy Department.

Be sure to bring money to feed the parking meters!

Parking Meters

Close-in, short term, day or night parking is available at \$1.50 per hour, most can be paid for two hours, however some can be paid up to four hours and some as little as thirty minutes. Meters are located in various areas throughout the campus for your convenience. **Meters are enforced Monday-Thursday 7:30am to 8:00pm** and Friday 7:30am to 5:00pm. Note: Parking at a non-functioning meter will result in a citation.

Parking Permits

If you need to come to campus frequently, you may want to purchase a parking permit at the Parking and Transportation Services Department. If your visits to campus are less frequent, you may stop at the Parking and Transportation Services Office and obtain a daily permit. The daily permit price for 2013-2014 is \$3 for Green and Blue Zones, \$5 for The West Stadium Parking Complex, and \$7 for the Silver - Brian J Whalen Garage. **Permit dispensers are located on the top level of both the West Stadium Complex and the Whalen complex for your convenience. These machines take cash, debit or credit cards.** The daily permits go down in price after 3:30pm, \$3 for the West Stadium Parking Complex and \$5 for the Silver 11- Brian J Whalen Garage. After 5pm, the Silver 11 is reduced to \$3 for the remainder of the day. Due to the construction and maintenance in the Brian Whalen Garage, visitor parking may be limited on the top floor of the garage. Visitors may be directed to the meter parking or to the West Stadium Parking Complex during these times.

UNR Parking and Transportation Services:

Phone (775) 784-4654

<http://www.unr.edu/parking>

W.M. Keck Museum—New Exhibit

History of Nevada's second oldest museum to be displayed at Keck Museum

The "Earthquakes, Chukars and Millionaires: The 'Mackay Mines' Story" exhibit will open Feb. 1

Story by Patrick Harris, Nevada Today, 1/24/2014

<http://www.unr.edu/nevada-today/news/2014/keck-museum-february-event>

A message from Garrett Barmore, W.M. Keck Museum Administrator: You're invited to experience the new exhibit at the W.M. Keck Earth Science & Mineral Engineering Museum—now through Feb. 1, 2015. Learn the exciting story behind the second oldest museum in Nevada! The exhibit spans three floors! Also, please be so kind to pass on information about our opening reception Saturday February 1, 2014 from 4-6pm. The museum will be providing wine and cheese.

<http://www.unr.edu/keck>

Office: 775.784.4528

Discover Science Lecture Series—Feb 6

Mackay School of Mines grad to talk on trade, technology and environment

Story by Mike Wolterbeek, Nevada Today, 1/28/2014

<http://www.unr.edu/nevada-today/news/2013/alan-krause>

"**Alan Krause**, chairman and CEO of MWH Global, whose engineering firm is the lead on the massive Panama Canal Third Set of Locks expansion project, will be the speaker **Thursday, Feb. 6** in the College of Science Discover Science Lecture Series.

Krause, who holds a master's degree in geological engineering from the University of Nevada, Reno's Mackay School of Mines, will present his talk, "**At the Forefront of Trade, Technology and Environment: Designing the New Panama Canal.**"

Admission is free. Lectures are held in the Redfield Auditorium in the Davidson Mathematics and Science Center at the University of Nevada, Reno."

<http://www.unr.edu/around-campus/facilities/davidson>

http://www.unr.edu/Documents/around-campus/map_vertical.pdf

Read the complete story here:

<http://www.unr.edu/nevada-today/news/2013/alan-krause>

UNR College of Science *Discover Science Lecture Series:*

Nevada Petroleum and Geothermal Society; Feb 2014

<http://www.unr.edu/science/about/discover-science-lecture-series>

Department of Geological Sciences and Engineering—Seminar Dates

Below is the current University of Nevada, Reno DGSE seminar schedule for Spring 2014.

Spring 2014 Seminar Dates

When: from 4 to 5pm

Where: Davidson Mathematics and Science Center 105 (please note room change)

<http://www.unr.edu/around-campus/facilities/davidson>

2/03/2014 Nicole Lautze, U Hawaii, eruptive processes/ Stromboli ejecta (GBCGE invitee)

2/10/2014 TBD

2/17/2014 Presidents Day, No Seminar

2/24/2014 Stephanie McAfee (Geography)

3/03/2014 TBD (David Schmidt, Scott McCoy Backup?)

3/10/2014 Jeff Vervoort

3/17/2014 Spring Break, No Seminar

3/24/2014 Russell DiFiori/ Steve Angster

3/31/2014 Melissa Penfold/ Saige Sanchez

4/07/2014 Kenjo Agustsson/Kate Zeiger

4/14/2014 Connor Newman/Dylan Baldwin

4/21/2014 Tyler Seaman/Erica Key

4/28/2014 Tim Cramer/Corina Forson

5/05/2014 John Wakabayashi

For more information, please contact:

Wendy Calvin

Prof. Geophysics & Remote Sensing

Director, Great Basin Center for Geothermal Energy

Univ. Nevada – Reno, wcalvin@unr.edu, 775-784-1785

NDOM Job Announcement

A message from Richard Perry, Administrator, Nevada Division of Minerals:

The Nevada Division of Minerals has a job opening for a Field Specialist in Oil, Gas, Geothermal and Abandoned Mine Lands programs. **The deadline to apply is February 21, 2014.**

http://minerals.state.nv.us/news/FldSpecOGG-AML_20140114.pdf

BLM Job Announcements

A message from BLM: We are pleased to announce new, exciting positions available at BLM - BUREAU OF LAND MANAGEMENT. It is our hope that qualified, career oriented individuals at your organization or other professionals known to you will actively consider this position and apply accordingly. Efforts on your part to disseminate this information are greatly appreciated.

Position Information:

Job Description: **Natural Resource Specialist/Physical Scientist**

Announcement Number: UT-Merit-2014-0017

Location(s) of position: Moab, UT, US

Salary: \$47,923 - \$75,376

Applications will be accepted until: **02/18/2014.**

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109234>

Position Information:

Nevada Petroleum and Geothermal Society; Feb 2014

Job Description: **Management and Program Analyst**

Announcement Number: NV Merit-2014-0100

Location(s) of position: Ely, NV, US

Salary: \$47,448 - \$61,678

Applications will be accepted until: **03/03/2014**.

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109235>

Position Information:

Job Description: **Management and Program Analyst**

Announcement Number: NV-DEU-2014-0045

Location(s) of position: Ely, NV, US

Salary: \$47,448 - \$61,678

Applications will be accepted until: **03/03/2014**.

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109224>

Position Information:

Job Description: **Management and Program Analyst**

Announcement Number: NV Merit-2014-0099

Location(s) of position: Ely, NV, US

Salary: \$38,790 - \$50,431

Applications will be accepted until: **03/03/2014**.

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109223>

Position Information:

Job Description: **Human Resources Specialist**

Announcement Number: AZ-Merit-2014-0017

Location(s) of position: Santa Fe, NM, US

Salary: \$68,809 - \$89,450

Applications will be accepted until: **02/13/2014**.

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109216>

Position Information:

Job Description: **Hydrologist**

Announcement Number: NV-DEU-2014-0032

Location(s) of position: **Carson City**, NV, US

Salary: \$51,298 - \$80,685

Applications will be accepted until: **02/18/2014**.

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109149>

Position Information:

Job Description: **Planning and Environmental Specialist**

Announcement Number: UT-Merit-2014-0012

Location(s) of position: Salt Lake City, UT, US

Salary: \$57,982 - \$75,376

Applications will be accepted until: **01/31/2014**.

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109116>

Position Information:

Job Description: **Park Ranger (Interpretive)**

Announcement Number: MT-DEU-2014-0016

Location(s) of position: Pompeys Pillar, MT, US

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Salary: \$22.96 - \$29.85

Applications will be accepted until: **02/10/2014.**

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=108989>

Position Information:

Job Description: **Management and Program Analyst**

Announcement Number: NV Merit-2014-0093

Location(s) of position: Ely, NV, US

Salary: \$38,790 - \$61,678

Applications will be accepted until: **02/27/2014.**

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109206>

Position Information:

Job Description: **Management and Program Analyst**

Announcement Number: NV-DEU-2014-0044

Location(s) of position: Ely, NV, US

Salary: \$38,790 - \$61,678

Applications will be accepted until: **02/27/2014.**

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109208>

Position Information:

Job Description: **Management and Program Analyst**

Announcement Number: NV Merit-2014-0097

Location(s) of position: Ely, NV, US

Salary: \$47,448 - \$61,678

Applications will be accepted until: **03/03/2014.**

For additional information on this job posting, please go to:

<https://jobs.mgsapps.monster.com/blm/vacancy/viewVacancyDetail!execute.hms?orgId=3&jnum=109221>

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You can place an order for other publications or check for shipping charges through our shopping cart at <http://www.nbgm.unr.edu/Departments/PubSales/PubSales.html>

Charlotte Stock

NBMG Publication Sales, University of Nevada, mailing address for US Mail, Fed Ex, and UPS:

Nevada Bureau of Mines and Geology

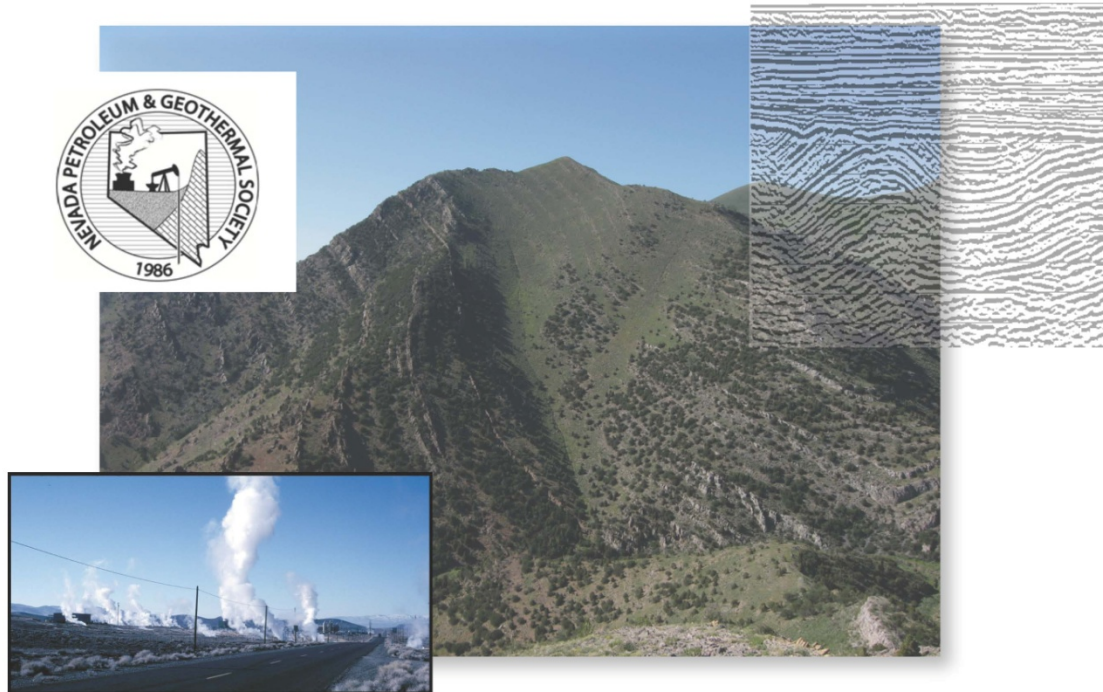
Great Basin Science Sample and Records Library

2175 Raggio Parkway

Reno, NV 89512

phone (775) 682-8766, fax (775) 784-6690

[Directions to office, www.nbgm.unr.edu](http://www.nbgm.unr.edu)



2014 Application Announcement

THE NEVADA PETROLEUM & GEOTHERMAL SOCIETY
Graduate Student Research Awards in Geosciences
Three to five grants up to \$1000 each

Amounts and number of awards will depend on proposal quality, number of proposals, proposal budgets, and applicant need. Awards will be available to support research beginning in the summer of 2014. Applicants must be graduate students in good standing. Successful applicants will be expected to present their results to the Society upon degree completion.

Guidelines: Research topics should be:

- related directly to geology of the Great Basin, and
- of general interest to those interested in bedrock geology problems.

Students working on litho-stratigraphy, biostratigraphy, structure, geothermal systems, geophysical exploration, geochemistry of sedimentary rocks, and tectonic history are especially encouraged to apply.

To apply: Send or email (as PDF file) a 2-page (maximum) research proposal (include results to date, bibliography, and budget), a short (one page) vita that includes academic progress so far, and a letter of recommendation from your academic advisor (sealed if mailed or emailed direct from advisor) to:

Dr. James Trexler, NPGS Scholarship Chairman
Department of Geological Sciences and
Engineering, MS 172
University of Nevada, Reno
Reno, NV 89557
trexler@unr.edu

**Application materials must be
received or postmarked by
February 28, 2014**

More information? Contact: trexler@unr.edu

SWITCH **DISCOVER THE FUTURE OF ENERGY**

SWITCH will be showing on Wednesday, February 12th

WHERE University of Nevada Reno's Joe Crowley Theater
Located on the third floor, 1664 N. Virginia Street

TIME 7:00 p.m.

**What will it really take, to go from the energy that built
our world, to the energy that will shape our future?**

SWITCH explores the world's leading energy sites, from coal to solar, oil to biofuels, and gets straight answers from the international leaders driving energy today, to discover the path to our energy transition.



Embraced across political lines by renewable energy and fossil fuel companies, environmental groups, academics and the general public alike, don't miss this opportunity to see **SWITCH**, the acclaimed agenda-free energy documentary. Click the link, below, for free tickets:

<http://www.eventbrite.com/e/nevada-petroleum-and-geothermal-society-inc-screening-tickets-6466211613>

Seats will be held until 6:50 p.m. Remaining seats will be open to the public after 6:50 p.m.

American Association of Petroleum Geologists

Rocky Mountain Section Annual Meeting

Colorado Convention Center, Denver, CO

July 20-22, 2014



CALL FOR PAPERS!

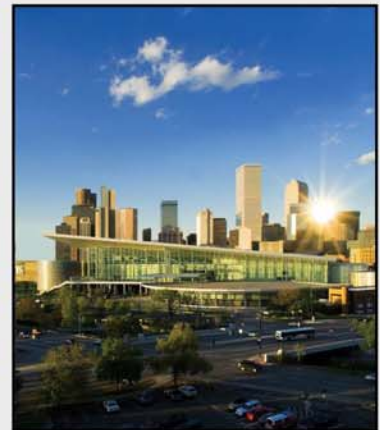
To submit an abstract for poster or oral presentations, go to:

www.aapgrms.org/2014/conference/technical-program

NEW deadline for abstracts: **February 15, 2014**

Technical Program themes —

- Source Rocks and Petroleum Systems: Have we deciphered the codes?
- Technology: Paradigm shifts
- Exploration/Exploitation: Looking back; Looking ahead
- Legendary Playmakers of the Rockies: A hotbed of notable people
- Structure and Tectonics: Nothing less than world-class
- Sedimentary Geology: Where the world comes to study



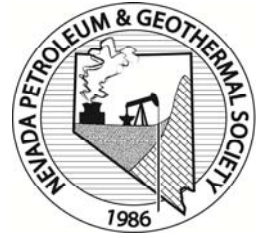
The Annual Meeting is expected to include:

- 2 days of Technical Presentations
Including oral, poster, and core poster presentations
- 4 Field Trips
- 3 Short Courses
- Student, Young Professional, and Teacher Opportunities
- Several Social and Networking Events

- Registration opens Spring 2014
- Exhibition and Sponsorship opportunities still available
- Visit aapgrms.org/2014 for more information



Hosted by the
Rocky Mountain Association of
Geologists



Nevada Petroleum and Geothermal Society Sponsorship Request for 2013-14

On behalf of the Nevada Petroleum and Geothermal Society (NPGS) Board of Directors, I invite you and your firm to join our NPGS Sponsorship Drive for the 2013-2014 term.

Annual support for the NPGS from firms active in Nevada is necessary so that this Society can continue to perform our programs, including distribution of research awards to University of Nevada, Reno, University of Nevada, Las Vegas, and other graduate students performing research relevant to the geology of the Great Basin, monthly professional dinner presentations, and community outreach activities such as the Nevada Bureau of Mines'-UNR's Earth Science Week Field Trips.

You and your firm's continual support at any level clearly shows your commitment to our profession. We have three sponsorship levels available this year:

Gold Level Sponsors will receive numerous benefits which allow them to maximize their positions as leaders in our local geological community. As a Gold Level Sponsor, your Company will be prominently displayed on a full page of our monthly newsletter and on our web site (<http://www.nbmng.unr.edu/nps/>). We will advertise opening positions with your Company at any time that you request during the year. We will also run your Company's promotional slide show at a monthly dinner where we will present you with an elegant commemorative plaque that you can proudly display at your office. Please also consider developing a short dinner showcase that highlights your firm or is of general interest to the membership. Gold Level Sponsorship costs only \$500 per year.

As a **Silver Sponsor**, your Company's business card will be displayed in a section of our monthly newsletter and on our website. We will advertise opening positions with your Company as requested at any time during the year. Silver Sponsorship costs \$300 per year.

Corporate Sponsorships are flexible. Corporate Sponsors will be able to provide NPGS with any amount of their choosing. Sponsors providing greater than \$500 will receive all the benefits as a Gold Level Sponsor. Sponsors providing less than the Gold Level amount will receive name recognition in both our website and our monthly newsletter.

Please help to sponsor the NPGS by filling out the attached Sponsorship Application Form and telling us where you would like to designate your sponsorship dollars. NPGS is a 501c3 non-profit organization. Contact your tax advisor to determine which portion(s) of your donation is (are) deductible.

We also have opportunities for you and your Company to host the Ramada bar during our dinner meetings. If you would like to host the bar, please contact me prior to one of the meetings at 775-200-5143 to set that up. Or you can provide a donation to our NPGS Scholarship fund which has provided significant assistance to our University of Nevada Mines and Geology students, or even to our General Fund, which helps us to provide you with our informative dinner meetings. Please designate the desired amount(s) on the attached Sponsorship Application.

As always, we welcome your suggestions on how our Society's programs and activities can be improved. More importantly, we welcome the participation of you and your firm's staff at our monthly dinner presentations and at all of our events. If you know of anyone who is interested in serving in a leadership position on our Society's Board of Directors, please encourage them to contact us. Their involvement will ensure a vibrant future for the Nevada Petroleum and Geothermal Society.

We look forward to working with you to help make our Society the best that it can be. Please contact me at 775-200-5143 or email me at jkareck@lumosengineering if you have any questions or require any additional information.

Judy M. Kareck, P.E., Vice-Chair, Nevada Petroleum and Geothermal Society



NEVADA PETROLEUM AND GEOTHERMAL SOCIETY

2013-2014 Sponsorship Application

Nevada Petroleum and Geothermal Society

P.O. Box 11526
 Reno, NV 89510
 Minden, Nevada 89423

Firm/Agency Name: _____
 Mailing Address: _____
 Phone Number: _____
 Fax Number: _____

	Sponsor Name	Email Address
Primary Contact (1)		
Secondary Contact (2)		

Indicate Level of Sponsorship Desired:

(3) GOLD		\$500
(4) SILVER		\$300
(5) CORPORATE		\$

Indicate desired amount.

Indicate Where You would like to Designate your Sponsorship Dollars:

A. NPGS - University of Nevada Mines and Geology Student Support	
B. NPGS General Support	
Total Amount Designated will Add up to Total Amount Sponsored	\$

Primary and Secondary Contacts represent the individuals who will serve as direct liaison with the NPGS Board of Directors. They will be counted on to distribute information, solicit involvement, and provide feedback as to what they would like to see this Society accomplish. They can also

(1) (2) develop leadership skills by participating and volunteering in NPGS functions.

GOLD Level Sponsors receive numerous benefits which allow them to maximize their positions as leaders in our local geological community. As a GOLD Sponsor, your Company logo and business write-up will be prominently displayed in a full page of our monthly newsletter and on our website (<http://www.nbm.unr.edu/nps/>). NPGS will advertise opening positions with your Company at any time during the year. We will present you with an elegant commemorative plaque that you can proudly display at your office showing your commitment to this community. Please also consider developing a brief dinner showcase that either highlights your firm's expertise or is of general interest to the membership.

(3) GOLD Level Sponsorship costs \$500 for the 2013-2014 year.

As a SILVER Level Sponsor, your Company's business card and/or logo will be displayed on a portion of our monthly newsletter and on our website. We will advertise opening positions with your Company at any time during the year. SILVER Level Sponsorship costs \$300 for the 2013-

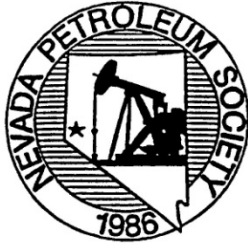
(4) 2014 year.

CORPORATE Level Sponsors can provide the NPGS with any amount of their choosing. Amounts exceeding \$500 will be given the same benefits as the GOLD Level. Amounts less than \$300 will be given name recognition in both our website and monthly newsletter.

(5)

Notes: Checks written to the Society should be written to: Nevada Petroleum and Geothermal Society and mailed to Steve Foster, Treasurer, at the above address.

The NPGS is a 501c3 non-profit organization. Contact your tax advisor to determine which portion(s) of your donation is (are) deductible.



APPLICATION FOR MEMBERSHIP

Name _____

Occupation/Title _____

Company/Affiliation _____

Work Address _____
Street City State Zip Code

Residence Address _____
Street City State Zip Code

Preferred Mailing Address? WORK -or- RESIDENCE

Work Phone _____ Residence Phone _____ Fax _____

Mobile Phone _____ Email _____

Member of AAPG? YES -or- NO

Professional References – list two references with phone numbers and addresses

1) Name _____ Phone _____

Address _____
Street City State Zip Code

2) Name _____ Phone _____

Address _____
Street City State Zip Code

Education – list colleges and universities attended, degree(s) received, and date of degree(s) (OPTIONAL)

Membership Type

- ACTIVE \$20.⁰⁰/year
- ASSOCIATE \$15.⁰⁰/year
- STUDENT \$10.⁰⁰/year
- LIFE \$200.⁰⁰ (one-time payment)

Signature _____

Date _____

Please make check payable to:

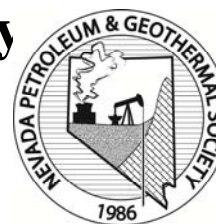
Nevada Petroleum Society
P.O. Box 11526
Reno, NV 89510-1526

DO NOT COMPLETE

For NPS Membership Committee Signatures Only

Nevada Petroleum and Geothermal Society

Publication Price List - October 2013



Paper **CD-ROM** **Download from Dropbox** **Title**

SPECIAL VOLUMES

NPS1 n/a	NPS1c \$80.00	NPS1y \$65.00	Oil Fields of the Great Basin (1994) R.A. Schalla and E.H. Johnson, editors, 31 papers on regional and field specific geology, 5 plates, soft cover with plastic comb binding, 380 p.
NPS2 n/a	n/a	n/a	Membership Directory (only available free on the Web at http://www.nbmg.unr.edu/nps/membershipdir.htm)
NPS15 \$20.00 \$5.00	n/a	n/a	TerraScan's Geologic Map of the Eastern Great Basin, Nevada and Utah (1978, rev. 1987) compiled and edited by E.L. Howard, 3 sheets (includes cross-sections) \$20.00/NPS or \$25.00/non-NPS, order by phone only for discounted price of \$5.00
NPS21 n/a	NPS21c \$35.00	NPS21y \$20.00	Carboniferous–Permian (Late Paleozoic) Hydrocarbon System, Rocky Mountains–Great Basin Region, U.S., Major Historic Exploration Objective (2001, updated 2003) J. Peterson, RMAG Open-File Report, 54 p., 45 illustrations

FIELD TRIP GUIDEBOOKS

NPS3 n/a	NPS3c \$35.00	NPS3y \$20.00	Oil Fields, Production Facilities and Reservoir Rocks of Northern Nye County, Nevada (1989) compiled by W.J. Ehni and D.M. Evans, 8 abstracts and papers, 30 p.
NPS4 \$15.00	NPS4c \$35.00	NPS4y \$20.00	Oil Fields and Geology of the Pine Valley, Eureka County Area, Nevada (1990) D.M.H. Flanigan, L.J. Garside, and M. Hansen, editors, 15 papers and abstracts, 74 p. (xerox copy only – unbound)
NPS5 n/a	NPS5c \$35.00	NPS5y \$20.00	Geology of White River Valley, the Grant Range, Eastern Railroad Valley and Western Egan Range, Nevada (1991) D.M.H. Flanigan, M. Hansen, and T.E. Flanigan, editors, 10 papers and abstracts, 74 p.
NPS6 \$25.00	NPS6c \$40.00	NPS6y \$25.00	Structural Geology and Petroleum Potential of Southwest Elko County, Nevada (1992) J.H. Trexler, Jr., T.E. Flanigan, D.M.H. Flanigan, M. Hansen, and L.J. Garside, editors, 9 papers, 2 plates, 96 p.
NPS7 \$33.00	NPS7c \$48.00	NPS7y \$33.00	Structural and Stratigraphic Relationships of Devonian Reservoir Rocks, East Central Nevada (1993), C.W. Gillespie, editor, 15 papers, 3 plates, 203 p.
NPS8 n/a	NPS8c \$40.00	NPS8y \$25.00	Dating of Pre-Tertiary Attenuation Structures in Upper Paleozoic and Mesozoic Rocks and the Eocene History in Northeast Nevada and Northwest Utah (1994) C.H. Thorman, C.J. Nutt, and C.J. Potter, editors, 11 papers, 125 p.
NPS9 n/a	NPS9c \$55.00	NPS9y \$40.00	Structural and Stratigraphic Investigations and Petroleum Potential of Nevada, with Special Emphasis South of the Railroad Valley Producing Trend (1994) S.W. Dobbs and W.J. Taylor, editors, two volumes bound as one, 13 papers, 22 plates, 281 p.

Paper	CD-ROM	Download from Dropbox	Title
NPS10 \$25.00	NPS10c \$40.00	NPS10y \$25.00	Mississippian Source Rocks in the Antler Basin of Nevada and Associated Structural and Stratigraphic Traps (1995) M.W. Hansen, J.P. Walker, and J.H. Trexler, Jr., editors, 16 papers and 7 abstracts, 166 p.
NPS11 \$25.00	NPS11c \$40.00	NPS11y \$25.00	Cenozoic Structure and Stratigraphy of Central Nevada (1996) W.J. Taylor and H. Langrock, editors, 11 papers, 122 p.
NPS12 \$25.00	NPS12c \$40.00	NPS12y \$25.00	The Roberts Mountains Thrust, Elko and Eureka Counties, Nevada (1997) A.J. Perry and E.W. Abbott, editors, 4 papers, 2 abstracts and reference papers/abstracts, 86 p.
NPS13 n/a	NPS13c \$40.00	NPS13y \$25.00	Hydrocarbon Habitat & Special Geologic Problems of the Great Basin (1998) D.E. French and R.A. Schalla, editors and co-chair
NPS14 \$35.00	NPS14c \$50.00	NPS14y \$35.00	Cenozoic Geology of the Northern Colorado River Extensional Corridor, Nevada and Arizona: Economic Implications of Extensional Segmentation Structures (1999) J.E. Faulds, editor, 183 p., 3 color plates
NPS16 \$30.00	NPS16c \$45.00	NPS16y \$30.00	Structure & Stratigraphy of the Eureka, Nevada Area (2001) Marilyn S. Miller and Jerome P. Walker, editors, 108 p., 11 color plates
NPS17 n/a	NPS17c \$50.00	NPS17y \$35.00	Detachment and Attenuation in Eastern Nevada and its Application to Petroleum Exploration (2002) W. Ehni and J. Faulds, editors, 163 p.
NPS18 \$25.00	NPS18c \$40.00	NPS18y \$25.00	Oil, Gas, and Geothermal Occurrences in Northwestern Nevada (2003) S. Foster, editor, 102 p.
NPS19 n/a	NPS19c \$50.00	NPS19y \$35.00	Megabreccias and Impact Breccias of East Central Nevada (2004) C.W. Gillespie and S. Foster, editors
NPS20 n/a	NPS20c n/a	NPS20y n/a	Great Basin Paleozoic Carbonate Platform: Facies, Facies Transitions, Depositional Models, Platform Architecture, Sequence Stratigraphy, and Predictive Oil and Gas Reservoir and Mineral Host Models (2006) H.E. Cook and J.J. Corboy, 129 pages, out of print (report from USGS Open-File Report 2004-1078, free on Web at http://pubs.usgs.gov/of/2004/1078/)
NPS22 n/a	NPS22c \$40.00	NPS22y \$25.00	Geology, Geothermal Resources and Petroleum Exploration of Neogene Basins in the Reno, Nevada Area (2007, 2nd ed., includes two papers not in 1st ed.) S. Limerick, editor, 7 papers, 3 reprints, and roadlog, 140 p.
NPS23 \$25.00	NPS23c \$40.00	NPS23y \$25.00	Sedimentology and Tectonic Setting of the Late Cretaceous to Eocene Sheep Pass Formation in the Southern Egan Range (2008) P. Druschke, trip leader; J. Trexler, Jr., editor
NPS24 \$30.00	NPS24c \$45.00	NPS24y \$30.00	Geothermal and Petroleum Developments in Several Extensional Basins of the Central Walker Lane, Nevada (2013) L.J. Garside, editor, 11 papers, 131 p.

These publications are only available from the Nevada Bureau of Mines and Geology (NBMG). If a publication is out of print or unavailable, it is marked "n/a" (not available). **Please check with us for the most current prices.** Thanks.

NBMG contact information:

Phone: (775) 682-8766

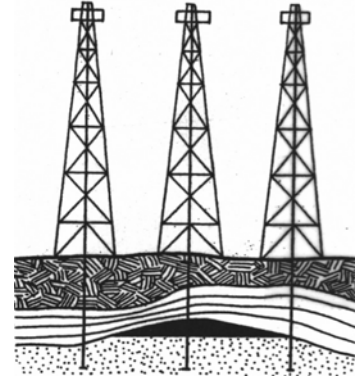
Fax: (775) 784-6690

Web: <http://www.nbmj.unr.edu>

Web: <http://www.nbmj.unr.edu/nps/>

Oil and gas resources from NBMG

The following publications are available from the Nevada Bureau of Mines and Geology. **NBMG publications that are underlined are also available free on the Web at <http://www.nbmq.unr.edu/>.**



Oil and gas information page on the NBMG website
<http://www.nbmq.unr.edu/Oil&Gas/index.html>

Bulletins

B104 Oil and gas developments in Nevada: **Garside, Hess, Fleming and Weimer (1988), \$15.00, for updates, see OF01-7, OF04-1, and M162**

Educational Series

E-6 **Oil and gas in Nevada** (Student book for grades 4-8, 23 pages) \$3.45

E-24 **Nevada oil: Division of Minerals** (Brochure, 1996) free

Lists

L-8 **List of oil and gas wells drilled in Nevada since 1907:** Hess, Davis, and Boldi (2001, updated 2003) *superseded by OF04-1, see also OF01-7*

L-12 **Nevada oil and gas well catalog (NVOILWEL),** *superseded by OF04-1, see also OF01-7*
Complete list of Nevada oil and gas well exploration data, 1906-present. Listed logs and cuttings are housed at NBMG. Shows, geologic tops and tests are given when available.

Maps

M162 **Petroleum data map of Nevada:** Garside and Hess (2007), 1:1,000,000, \$15.00

Mineral Industry Series

The Nevada Mineral Industry is **published annually**, beginning in 1979. Each volume has a **section on oil and gas** in Nevada. Most of these reports are available *free on the Web* at <http://www.nbmq.unr.edu/>.

Open-File Reports

OF83-5 **Nevada oil shale:** Garside, 10 pages, \$4.00 (for more oil shale information, see also USGS MF-1546 and MF-2091)

OF86-13 **Nevada petroleum production statistics, 1954-1986:** Hess, Loomis and Garside, 14 pages, \$5.00

OF92-5 **Nevada oil and gas source-rock database:** Hess, compilation of source-rock analyses performed on cuttings samples taken at varying depth intervals from oil and gas exploration wells in Nevada up to 1992, complete print-out, \$20.00

OF96-6c **Nevada oil and gas wells, 1907-1996:** 1:1,000,000 color digital map of Nevada showing major roads, county boundaries, and locations of oil wells drilled since 1907, original printout, \$20.00, *see also OF01-7, M162*

OF01-7 **Nevada oil and gas well database map:** Hess, CD and 4 page text, \$15.00

Contains the following: L-12; updated OF96-6, partial; L-8; B104 text; digital base layers of Nevada data in Shapefile and Arc/Info export file format designed for use at scale 1:1,000,000 (county, towns, roads, USGS topo boundaries for 1:100,000 and 1:24,000, Township and Range); georeferenced raster graphic of the Nevada state base map, B&W, scale 1:1,000,000; 18 USGS digital raster graphic maps (DRG), 1:250,000-scale, topo maps in tiffw format

OF00-2 **Hydrocarbon assessment of the Yucca Mountain vicinity, Nye County, Nevada:** French, 78 pages and 4 plates, \$44.40

OF04-1 **Nevada oil and gas well database (NVOILWEL):** Hess (2004), \$86.40 for photocopy

OF07-7 **Assessment of the potential for carbon dioxide sequestration with enhanced oil recovery in Nevada:** LaPointe, Price, and Hess (2007), 24 pages, \$7.20

OF11-2 **Qualitative petroleum potential map of Nevada:** Garside and Hess (2011), plate 1:1,000,000 and text

OF11-6 **Oil and gas well information for Nevada – 2011 update:** Hess, Henson, David, Limerick, Siewe, and Niles; portable hard drive, 105 GB, 9643 files, \$115; free on web at <http://www.nbmq.unr.edu/Oil&Gas/NVWellInfo.html>

Reports

R51 **Preliminary assessment of the potential for carbon dioxide disposal by sequestration in geological settings in Nevada:** Price and others (2005), CD-ROM or paper copy, 35 pages, \$15.00

R52 **Assessment of the potential for carbon dioxide sequestration by reactions with rocks in Nevada:** Sturmer, LaPointe, Price, and Hess (2007) \$22.00 paper

USGS

Assessment of undiscovered oil and gas resources of the Eastern Great Basin Province, 2005, Fact Sheet

FS-2005-3053, free at <http://pubs.usgs.gov/fs/2005/3053/>

Basin and Range Carbonate Aquifer System Study:

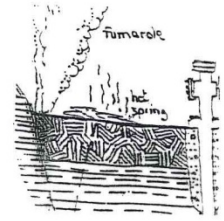
<http://nevada.usgs.gov/barcass/data.htm>

Ordering information for Nevada Bureau of Mines and Geology

Sales office located at Great Basin Science Sample and Records Library, 2175 Raggio Parkway, Reno, NV 89512

Phone: (775) 682-8766 Fax: (775) 784-6690 Web: <http://www.nbmq.unr.edu>

Geothermal resources in Nevada



Geothermal information page on the NBMG website

<http://www.nbmг.unr.edu/Geothermal/index.html>

The following publications on geothermal resources are available from the Nevada Bureau of Mines and Geology. NBMG items that are underlined are available **free on the Internet** and can be viewed at <http://www.nbmг.unr.edu/>.

Bulletins

- B65 Mineral and water resources of Nevada: Cornwall (1964) pp. 267-269, \$7.00
- B89 Geology and mineral deposits of Pershing County, Nevada: Johnson (1977) pp. 104-106, \$21.00
- B91 Thermal waters of Nevada: Garside and Schilling (1979) \$22.00, *for update see L-5*
- B97 Discovery and geology of the Desert Peak geothermal field—a case history: Benoit, Hiner, and Forest (1982), \$15.00 (*see also OF03-27*)
- B99B Mineral resources of northern Nye County, Nevada: Kleinhampl and Zion (1984) pp. 37-38, \$19.00

Educational Series

- E-7 Geothermal resources in Nevada: Student reading/activity book for grades four through eight, 27 pp., \$4.05
- E-15 Nevada geothermal electric power production, brochure (1992) 2 pp., \$0.60
- E-35 Major mines, oil fields, and geothermal plants in Nevada
- E-46 Taking the pulse of the Earth
- E-51 Life's a beach: In search of ancient shorelines and volcanoes in the Grimes Point and Lahontan Mountains area

Lists

- L-5 Index to geothermal well files housed at NBMG: Davis and Hess (2009) *updates* App. 2 of B91, \$19.50

Maps

- M126 Nevada geothermal resources: Shevenell, Garside, and Hess (2000), *superseded by M161*
- M141 Nevada geothermal resources (second edition): Shevenell and Garside (2005), 1:750,000, \$16.00 for paper copy, *available folded or rolled, superseded by M161*
- M146 Geologic map of the Fraser Flat quadrangle and the west half of the Moses Rock quadrangle, Washoe Co., NV
- M151 Geothermal potential map of the Great Basin, western United States: Coolbaugh and others (2005), 1:1,000,000, \$30.00, *rolled only*
- M161 Nevada geothermal resources: Penfield, Shevenell, Garside, and Zehner (2010), 1:750,000, \$18.00, *folded or rolled, supersedes M126 and M141*

Mineral Industry Series

MI-1979 through current year—The Nevada mineral industry is published annually and has a section on geothermal activities, varies with year, MI-1994-current year available free on Internet at <http://www.nbmг.unr.edu/> and click on "Online Documents."

Newsletters

Nevada Geology Newsletter no. 19, page 3 (Summer 1993) "Low-temperature geothermal resources in Nevada" by Larry Garside, free

Open-File Reports

- OF83-6 Preliminary map of thermal wells in the Moana geothermal area, Reno, Nevada: Garside, \$8.00
- OF87-2 Mineral resource inventory – U.S. Navy master land withdrawal area, Churchill County, Nevada: Quade and Tingley, \$92.00
- OF94-2 Nevada low-temperature geothermal resource assessment: 1994: Garside, with a bibliography by Davis and Garside, \$40.00 for text and plate, or \$20.00 for text on disk, or \$7.00 for plate only
- OF96-2-9 Reconnaissance photogeologic map of young (Quaternary and late Tertiary) faults in Nevada: (Plate 9) 1:1,000,000, map and text, \$15.00
- OF03-27 Preliminary geologic map of the Desert Peak-Brady geothermal fields, Churchill County, Nevada: Faults and Garside (2003), \$15.00 (*see also B97*)
- OF06-5 Mineral- and energy resource potential for White Pine County, Nevada
- OF06-6 Mineral- and energy resource potential for Pershing County, Nevada
- OF06-7 Mineral- and energy resource potential for Lyon County, Nevada
- OF06-12 Potential resources associated with proposed roadless areas in Nevada
- OF09-10 Preliminary geothermal potential and exploration activity in Nevada: Zehner, Coolbaugh, and Shevenell, 1:1,000,000-scale plate and text, \$20.00 (*supersedes OF09-1*)
- OF10-6 Preliminary geologic map of the Lee-Allen geothermal area, Churchill County, Nevada
- OF11-3 Preliminary geologic map of the Reese River geothermal area, Lander County, Nevada
- OF11-10 Descriptive logs, skeletonized samples, and photographs of core from Presco Energy's thermal gradient wells P3-1, P 10-1, and P 32-2 in the Rye Patch area, Pershing County, Nevada: Davis (2011, Web version only)

OF11-11 Preliminary geologic map of the northern Lake Range, San Emidio geothermal area, Washoe County, Nevada: Rhodes, Faulds, and Ramelli, scale 1:24,000, \$18.00

OF12-3 Data tables and graphs of geothermal power production in Nevada: Shevenell, Price, and Hess (1985-2011, Web version only)

Reports

R21 Geothermal exploration and development in Nevada through 1973

R25 Evaluation of geothermal activity in the Truckee Meadows, Washoe County, Nevada: Bateman and Scheibach (1975), \$4.00

R33 Papers on mineral deposits of western North America: (1979), presented at the Fifth Quadrennial Symposium of IAGOD, \$10.00

R41 Precious-metal mineralization in hot springs systems, NV-CA: Tingley and Bonham (1986), \$15.00

R43 Mineral resources of the Kumiva Peak 30' by 60' Quadrangle: Tingley (1989) pp. 16-17, \$5.00

R44 Mineral resources of the Pahrangat Range 30' by 60' Quadrangle: Tingley (1989) pp. 8-9, \$5.00

R45 Mineral resources of the Overton 30' by 60' Quadrangle: Tingley (1989) pp. 12-13, \$5.00

R46 Mineral resources of the Timpahute Range 30' by 60' Quadrangle: Tingley (1991) pp. 30-31, \$5.00

R51 Preliminary assessment of the potential for carbon dioxide disposal by sequestration in geological settings in Nevada

Special Publications

SP4 Geology of Nevada: a discussion to accompany the Geol. map of Nevada (see below): Stewart (1980), \$25.00

00001 Geologic map of Nevada: Stewart and Carlson, U.S.G.S. (1978) 1:500,000, *available rolled only*, \$20.00 *available free on the Internet at <<http://keck.library.unr.edu/>> and click on "Great Basin geoscience dataset" or at <<http://www.nbmg.unr.edu/dox/dox.htm>>, see SP4 for descriptive text*

Urban Map Series

3Ah Energy and mineral resources map of the Las Vegas SE Quadrangle: Papke and Bell (1973) *available rolled or folded*, \$2.00

4Ah Energy and mineral resources map of the Reno Quadrangle: Bingler, Bonham, and Luza (1973) *available rolled or folded*, \$2.00

5Ah Energy and mineral resources map of the Washoe City Quadrangle: Papke and Jones (1978) *available rolled or folded*, \$2.00

Nevada Petroleum Society

NPS5 Geology of White River Valley, the Grant Range, Eastern Railroad Valley and Western Egan Range, Nevada

NPS18 Oil, gas and geothermal occurrences in northwestern Nevada

NPS22 Geology, Geothermal Resources and Petroleum Exploration of Neogene Basins in the Reno, Nevada Area

USGS Publications

C1249 Geothermal energy – clean power from the earth's heat: Duffield and Sass, *free on the Internet at <<http://geopubs.wr.usgs.gov/circular/c1249/>>*

I-1701 Bouguer gravity anomalies, depth to bedrock, and shallow temperature in the Humboldt House geothermal area, Pershing County, Nevada: Schaefer (1986), \$9.00

OF74-271 Geothermal systems of northern Nevada: Hose and Taylor (1974), 30 pages, call for prices

OF74-1066 The chemical composition and estimated minimum thermal reservoir temperatures of the principal hot springs of northern and central Nevada, call for prices

OF81-918 Geothermal resources of the western arm of the Black Rock Desert, northwestern Nevada, part I, geology and geophysics: Schaefer, Welch, and Maurer (1983), 41 pages and 4 plates, call for prices

OF02-374 A helicopter-borne magnetic survey over Dixie Valley geothermal field, Nevada: A web site for distribution: Pearson, deRidder and Johnson (2002), *available free on the Internet at <<http://pubs.usgs.gov/of/2002/ofr-02-0374/>>*, call for prices

OF02-384 High-resolution aeromagnetic survey to image shallow faults, Dixie Valley geothermal field, Nevada: Grauch (2002), *<<http://pubs.usgs.gov/of/2002/ofr-02-0384/>>*, call for prices

Other Resources

Great Basin Center for Geothermal Energy is at <http://www.unr.edu/geothermal/>.

For more information, please contact:

Nevada Bureau of Mines and Geology
Great Basin Science Sample and Records Library
2175 Raggio Parkway
Reno, NV 89512

Phone: (775) 682-8766
Fax: (775) 784-6690
E-mail: nbmg@unr.edu
www.nbmg.unr.edu

Nevada Petroleum and Geothermal Society Calendar: Year 2013-2014	
Feb 3-6, 2014	2014 NWRA Annual Conference Tuscany Suites & Casino, Las Vegas , Nevada http://www.nvwra.org/event-information
Feb 6, 2014	Discover Science Lecture Series Alan Krause , chairman and CEO of MWH Global “ At the Forefront of Trade, Technology and Environment: Designing the New Panama Canal. ” Admission is free. Redfield Auditorium, Davidson Mathematics and Science Center, UNR http://www.unr.edu/around-campus/facilities/davidson http://www.unr.edu/Documents/around-campus/map_vertical.pdf
Feb 6, 2014	NPGS Monthly Dinner Meeting – Thursday Feb 6, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speakers: Lowell Price, NDOM, Carson City NV and John Menghini, BLM, Reno NV</i> <i>Topic: Hydraulic Fracturing Updates in Nevada</i>
Feb 7, 2014	W.M. Keck Museum Mineral Sale The Lady Muckers and Keck Museum will hold a mineral sale this Friday Feb. 7 from 9:00 a.m. to 1:00 p.m. Proceeds of the sale will go towards the ladies’ mining team at UNR. http://www.unr.edu/keck , Office: 775.784.4528
Feb 12, 2014	SWITCH: Discover the Future of Energy (film) Wednesday, Feb 12, 2014 at 7:00 p.m. Joe Crowley Theater at the Joe Crowley Student Union, third floor, UNR http://www.unr.edu/around-campus/facilities/crowley http://www.eventbrite.com/e/nevada-petroleum-and-geothermal-society-inc-screening-tickets-6466211613
Mar 6, 2014	NPGS Monthly Dinner Meeting – Thursday Mar 6, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: Patrick Walsh, Ormat Nevada, Reno NV</i> <i>Topic: Steamboat Geothermal Complex</i>
Apr 3, 2014	NPGS Monthly Dinner Meeting – Thursday Apr 3, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: James Faulds, Director/State Geologist, NBMG, Reno NV</i> <i>Topic: Hot Springs Mountain</i>
Apr 6-9, 2014	AAPG Annual Convention & Exhibition – Houston, TX George R Brown Convention Center. Submit abstracts by Sep 19. www.aapg.org
May 1, 2014	NPGS Monthly Dinner Meeting – Thursday May 1, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: Rick Stucker, Senior Geologist, Noble Energy, Denver CO</i> <i>Topic: Overview of Noble Energy’s Current Drilling Program in Nevada</i>
Jun 24, 2014	Nevada BLM Oil & Gas Lease Sale, Reno NV Elko, Southern NV District, posting date: Mar 21, 2014 http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/oil_gas/oil_and_gas_leasing.html

Jul 17, 2014	Nevada BLM Oil & Gas Lease Sale, Reno NV Battle Mtn District, posting date: Apr 14, 2014 http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/oil_gas/oil_and_gas_leasing.html
Jul 20-22, 2014	AAPG Rocky Mountain Section Annual Meeting Denver Convention Center, Denver, CO CALL FOR PAPERS - www.aapgrms.org
Sep 9, 2014	Nevada BLM Geothermal Lease Sale, Reno NV http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal
2016	Rocky Mountain Section/Pacific Section Meeting – AAPG 2016 2016 joint RMS-AAPG/PS-AAPG annual meeting, Las Vegas, Nevada

The NPGS Newsletter is provided to members of the Nevada Petroleum and Geothermal Society. For information about membership and events, see the NPGS website at <http://www.nbmng.unr.edu/nps/>
To submit articles, corrections or suggestions for the newsletter; Contact Vicki Ehni 775-883-1107, cell 775-720-6387; email vehni@aol.com .
