

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.nbmg.unr.edu/nps/>

President

John Snow
Chief Operating Officer
Standard Steam
14075 Saddlebow Dr.
Reno, Nevada 89511
(775) 336-8067 (O)
(775) 85-3458 (H)
jsnow@standardsteamtrust.com

Vice President/Pres Elect

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

Secretary

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

Treasurer

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

Past President

James Faulds
Director/State Geologist
NBMG, UNR MS 178
Reno, NV 89557-0088
jfaulds@unr.edu

AAPG Delegate/EMD Rep

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

RMS-AAPG Representative

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

Dinner Meeting: Thursday, Nov 1, 2012

Speakers: Lisa Shevenell and Rick Zehner
Atlas Geosciences, Inc. and Geothermal
Development Associates, Reno, NV

Title: Geothermal Activity in Nevada, A Summary

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

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

Hosted by:



Dinner Served at 7:00 PM

Dinner Costs:

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

Menu:

Buffet style; including chicken & beef entrees, side dishes and salad.

****RSVP to Judy Kareck (775) 827-6111 or**

jkareck@lumosengineering.com

**SEE CALENDAR Pages 17-18 for
upcoming meetings**

► **Abstract – NPGS Monthly Dinner Meeting – Nov 1, 2012**

***Geothermal Activity in Nevada, A
Summary***

**Lisa Shevenell and Richard Zehner
ATLAS Geosciences Inc
and
Geothermal Development Associates**

Nevada has experienced a boom in geothermal exploration and development within the past six years. There have consistently been more projects under various stages of development in Nevada than in any other state in the U.S.—nearly as many as in all of the other states combined in some years. In late 2011 and early 2012, there were 70 geothermal exploration projects in Nevada, in various stages of development and work activity, and others that have plans but no current activity. Trends and changes in geothermal exploration, development and company involvement over the past six years will be discussed. The information has been compiled from various company websites, press releases, personal discussions, BLM lease data, NV Division of Minerals data, and Geothermal Energy Association (GEA) reports. The GEA reports were used to note the estimated resource size when that information was not available elsewhere (Jennejohn *et al.*, 2011; GEA 2012).

The presentation will provide a brief description of currently active geothermal exploration and development projects in Nevada and changes in activity and development over the past six years. The projects were selected on the basis of having had a Bureau of Land Management (BLM) lease or known land position, together with information gleaned from other non-confidential sources. Several changes in ownership, holdings, and companies involved occurred over this period of time, with the current activity exhibiting a significant downturn in comparison to that in 2008 through 2010.

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



Barbour Well, Inc. would like to extend regards and appreciation for all of the attendees at the March NPS meeting who, like ourselves, are committed to the advancement of oil and geothermal energy production throughout Nevada. Please enjoy a complimentary cocktail on us as you receive a ticket when paying for your event. It is our hope to provide you with excellence in oil and geothermal drilling services.

Steve Zarcone Business Development

**Barbour Well Inc., 260 Sunpac Ave. Suite A, Henderson, NV 89011
Direct: 805-207-6407, Cell: 661-755-7687, www.barbourwell.com**

► **News from the RMS-AAPG Grand Junction Annual Meeting – September 9-12, 2012:**

– by Jerry Walker

The 2012 annual meeting of the Rocky Mountain Section of the American Association of Petroleum Geologists (RMS-AAPG) was held in Grand Junction, Colorado from September 9th to the 12th. Excellent facilities, technical program, field trips, and short courses, with a healthy array of exhibitors and noteworthy guest activities made this first ever Section meeting hosted by the Grand Junction Geological Society a success to remember. Highlights included a talk by Colorado Governor John Hickenlooper – a former exploration geologist and brewery owner – who spoke to a packed All-Convention Luncheon, and a special screening of the movie “Switch” in the historic Avalon theater, starring Scott Tinker, head of the Texas Bureau of Economic Geology and former AAPG President, who introduced this film about the challenges of future energy supply. General Chair Jay Scheevel, RMS-AAPG President Bob Suydam, and their committees are to be acknowledged for hosting a very successful meeting.

RMS-AAPG Executive Committee

The RMS-AAPG executive committee meets formally once a year, during the Section’s annual meeting. The committee’s principal tasks are to elect a Secretary-Treasurer-Elect and determine the host society and location of an upcoming annual meeting. Catherine Campbell, a “YP” (Young Professional), was selected to fill the office of Secretary-Treasurer-Elect. “Cat” will rise through the ranks to President in 2016, her fourth year in office. She is a geologist for Robert L. Bayless, Producer in Denver.

The next three annual meetings are in the planning stage: 2013 in Salt Lake City, 2014 in Denver, and 2015 in Denver as part of the AAPG Annual Convention and Exhibition (ACE). A discussion ensued concerning the host and site of the 2016 meeting. The Montana Geological Society (MGS) initially offered to hold the 2016 meeting in Billings, until it was pointed out that the AAPG ACE will be held in Calgary during the time frame the MGS would host a Section meeting. David Hawk (Idaho Association of Professional Geologists, IAPG) proposed instead that the RMS-AAPG co-host a 2016 meeting with the Pacific Section-AAPG (PS-AAPG) in Las Vegas, and hold the 2017 Section meeting in Billings. He requested that the Nevada Petroleum and Geothermal Society (NPGS) participate as a co-host, due to the Nevada venue. The executive committee accepted David’s proposal, subject to approval by the IAPG, NPGS, and PS-AAPG. General Co-Chairs for the 2016 Las Vegas meeting will be David Hawk (IAPG) and Jerry Walker (NPGS), representing the RMS-AAPG.

The 2016 Las Vegas meeting will be the first time the NPGS has hosted a Section meeting since the highly successful 2005 Jackson, Wyoming convention. Co-hosting a section meeting will of course require committed volunteers from the NPGS. However, the burden has been greatly reduced as the RMS-AAPG now hires convention planners to organize and run much of these annual meetings.

RMS-AAPG Foundation

A portion of profits from Section meetings are contributed to the Foundation for distribution to projects that impact a large number of earth scientist, as well as the general public, in the Rocky Mountain region. Two successful Foundation programs are the continuing support for AAPG Distinguished Lecturers and the newly implemented grants to active AAPG Student Chapters. \$350 is provided to an affiliated society for each AAPG Distinguished Lecture. There is no limit to the number of these grants. Five of the 11 RMS-AAPG local societies received support for 12 lectures during the last year. A \$1,000 grant is available to each student chapter in the Rocky Mountain region upon verification of their “active” status with AAPG. Nine universities were recipients of this grant during its initial year. Other recent Foundation grants were to the Colorado School of Mines for the Geology Trail on their campus, the Utah Geological Society for their 2011 field trip, and the Denver Earth Resources Library’s Capital Campaign.

AAPG House of Delegates

The Chair of the AAPG House of Delegates (HOD) traditionally hosts a breakfast meeting for the section’s delegates at each section meeting. Randy Ray, current HOD Chair, introduced AAPG officials and candidates for office after welcoming delegates to the crowded meeting room. The tone of the meeting focused on increasing membership numbers and the bimodal age distribution of the current membership. These issues merged into a discussion of how to recruit and retain students and to attract “Young Professionals” – the YP’s – into leadership roles in the organization. It is apparent that this concern transcends all levels and sizes of professional organizations in the petroleum industry.

Steve Sonnenberg, former AAPG President and professor at the Colorado School of Mines, discussed plans for the Unconventional Resources Technology Conference (URTeC), to be held in Denver August 12-14, 2013. This meeting is breaking new ground, as it is the first time the premiere professional organizations of engineers (SPE), geologist (AAPG), and geophysicist (SEG) are jointly sponsoring a major technical meeting and exhibit. URTeC is planned to leverage expertise from all the technical backgrounds needed in developing unconventional oil-and-gas resources.

► **NPS Financial Statement, Fiscal Year 2011-2012 – Membership Business:**

Submitted by Steve Foster, NPS Treasurer, 7May12
PROFIT & LOSS STATEMENT (1Mar11-29Feb12)

INCOME

AAPG Foundation (Distinguished Lecturer)	\$
Christmas party	
Dinner meetings	800
Donations (scholarship)	5510
Fieldtrip & Guidebook	285
Interest (Business Interest Maximizer)	
Membership dues	57.57
Publication sales	1810
Refunds (scholarship)	2723
RMS/AAPG meetings	1500
Total Income (\$)	193.03
	12878.60

EXPENSES

AAPG Distinuished Lecturer	
BLM Lease Sale coffee bar	
Board/Officer meetings	
Christmas party	1010
Dinner meetings	5480
Fieldtrip & Guidebook	
Insurance (dinner meetings)	355
Membership directory, postage, etc.	8.80
Misc (projector bulbs)	702.28
Post Office box rental	176
Publication sales (postage, printing, materials)	746.41
Refunds (board of regents)	70
Scholarships	4600
Speaker travel	434.33
Storage	
Total Expenses (\$)	13582.82

NET PROFIT / (LOSS) **(704.22)**

BALANCE SHEET (29Feb12)

ASSETS

Cash in bank (checking account)	8670.23
Cash in bank (Business Interest Maximizer)	34257.31
Total (\$)	42927.54

LIABILITIES and CAPITAL

Liabilities	0
Retained Earnings (from FY 2010-2011)	\$43,631.76
2011-2012 Fiscal Year Net Profit/ (Loss)	(704.22)
Total (\$)	\$42,927.54

Retained Earnings (at end of FY 2011-2012)	\$42,927.54



October 26, 2012

RE: Nevada Petroleum and Geothermal Society Sponsorship Request for 2012-13

On behalf of the Nevada Petroleum and Geothermal Society (NPGS) Board of Directors, I would like you and your firm to know that the NPGS is holding our first annual sponsorship for 2012-13.

Please accept this invitation to begin your NPGS Sponsorship for 2012-13.

Annual support from the NPGS firms in our community is necessary so that this Society can continue to perform our programs, including distribution of scholarships for Nevada University students, monthly professional dinner presentations, professional geology field trips, and the publication of professional papers.

We understand that the slow economy continues to drag on, and your firm's continual support at any level clearly shows your commitment to our professions.

Gold Sponsors will receive numerous benefits which allow them to maximize their positions as leaders in the local geological and geothermal communities. As a Gold Sponsor, your Company Logo will be prominently displayed in a special section of our monthly newsletter and on our website (<http://www.nbmg.unr.edu/nps/>). We will advertise opening positions with your Company at any time you request during the year. Additionally, we will feature your firm in our monthly newsletter. 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 showing your commitment to this community. Please also consider developing a dinner program that either highlights one of your firm's projects or is of general interest to the membership. Gold Sponsorship costs \$300 for the 2012-13 year.

Silver Sponsors also receive benefits. 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 at any time during the year. Silver Sponsorship costs \$125 for the 2012-13 year.

Finally, our **Individual Sponsors** will be displayed in a section of our monthly newsletter and on our website. Individual Sponsorship costs only \$50 2012-13 year.

As always, we welcome your suggestions on how our Society's programs and activities can be improved.

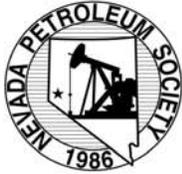
Most importantly, we welcome the participation of you and your firm's staff at the monthly dinner presentations and at all of our events. If you know of anyone who is interested in serving in a leadership position on our Society's Board of Directors, please encourage them to contact me. Their involvement 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. For your convenience, I have included a Sponsorship Form with this letter. Please contact me at (775)200-5143 or at jkareck@lumosenineering if you have any questions or require any additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Judy M. Kareck', written over a circular stamp or watermark.

Judy M. Kareck, P.E.
Secretary, Nevada Petroleum and Geothermal Society



NEVADA PETROLEUM AND GEOTHERMAL SOCIETY

2012-13 Sponsorship Application

(Sponsorship Fees must be Received by December 2012)

NPGS

P.O. Box 11526

Reno, NV 89510

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

	Sponsor Name	Email Address	Cost	Total
Primary Contact (1)				
Secondary Contact (2)				
3				
4				
5				
6				
7				
8				
9				
10				
Total Sponsorship Fees				
Indicate Level of Sponsorship:				
(3) GOLD				
(4) SILVER				
(5) INDIVIDUAL				

(1) (2) 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.

- (3) Gold Sponsors receive numerous benefits which allow them to maximize their positions as leaders in our local petroleum and geothermal community. As a Gold Sponsor, your Company logo will be prominently displayed in a special section of our monthly newsletter and on our website (<http://www.nbmg.unr.edu/nps/>). NPGS will advertise opening positions with your Company at any time during the year. Additionally, we will feature your firm in our monthly newsletter. We will also run your Company's promotional slide show at a monthly luncheon where 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 dinner program that either highlights one of your firm's projects or is of general interest to the membership. Gold Sponsorship costs \$300 for the 2012-13 year.
- (4) 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 at any time during the year. Silver Sponsorship costs \$100 for the 2012-13 year.
- (5) Individual Sponsor names will be displayed in a special section of our monthly newsletter and on our website (<http://www.nbmg.unr.edu/nps/>). Individual Sponsorship costs \$50 for the 2012-13 year.

Note: Checks written to the Society should be written to: Nevada Petroleum Society (The Board is working on final name changes.)

► **Welcome!! New NPGS Members:**

Several new members have joined the Nevada Petroleum & Geothermal Society in the past few months. We take this opportunity to welcome them! We appreciate your support and trust you will find NPGS membership to be beneficial.

Benoit, Dick	Alterra Power Co	Reno, NV
Berrington, Mike	RDM Environmental, Inc.	Sparks, NV
Boreman, Joseph	Student, University of Georgia	Athens, GA
Brookler, Morry	Geotemps	Reno, NV
Clark, Norman	Colorado TBC	Fallon, NV
Dennen, Joe	Hopkins Oil Tools	Mound House, NV
Gilmour, Bill	Horizon Well Logging	Lompoc, CA
Hardy, Michael	Lumos & Associates	Reno, NV
Henderson, Willy	ThermaSource	Arbuckle, CA
Hopkins, Robert	Hopkins Oil Tools	Mound House, NV
Lewis, Joshua	Noble Energy Inc	Denver, CO
Morriss, Alex	ThermaSource Cementing	S Lake Tahoe, CA
Overacker, Justine	Student, UNR	Reno, NV
Salo, Chuck	Ram Power	Reno, NV
Sievers, Clark	NOV Fluid Control	Denver, CO
Thomasson, Bob	RLT Technical Services	Reno, NV
Tuttle, John	Sinclair Well Products	Bend, OR
Vesterby, Bruce	Prospect Geotech	Reno, NV

► **NPGS Research Awards in Geosciences – 2013 Application Information Upcoming:**

The NPGS awards grants for geoscience research to graduate students each year. Usually, three to five grants up to \$1000 each may be awarded. The awards from 2012 are listed below. The 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 the current year. 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.

Applications must include 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).

COMING SOON: Information regarding when and where to send your applications.

Research Awards in 2012: 5 proposals, \$4,500 total grants

- 1) **Ryan B. Anderson** (M.S. candidate at the University of Nevada, Reno), **\$1,000** – *Structural controls of the Emerson Pass geothermal system, Pyramid Lake Paiute Indian Reservation, western Nevada*
- 2) **Joel Edwards** (M.S. candidate at the University of Nevada, Reno), **\$1,000** – *Structural controls on the Neal Hot Springs geothermal system, Vale, Oregon*
- 3) **Brett Mayhew** (M.S. candidate at the University of Nevada, Reno), **\$1,000** – *Structural investigation of the Astor Pass geothermal system*
- 4) **Jonathan Payne** (M.S. candidate at the University of Nevada, Reno), **\$1,000** – *Active faulting at a geothermal and petroleum prospect in Gabbs Valley, Nevada*
- 5) **Stefano Benato** (Ph.D. candidate at the University of Nevada, Reno), **\$500** – *Utilization of coupled thermal-hydrologic-mechanical-chemical modeling to investigate fracture network permeability evolution and reservoir responses to EGS stimulation experiments and long term thermal drawdown at Ormat Desert Peak and Brady's, Nevada*

► **AAPG Delegate Election – Membership Business:**

As an affiliated society of the AAPG (American Association of Petroleum Geologists), NPGS has an elected Delegate. The Delegate, or an Alternate, attends and participates in the annual meeting of the AAPG and reports the information from that meeting to the Society. The Delegate is responsible for communicating Society statistics and business to the AAPG. The Annual Delegates' Meeting is normally the Sunday morning prior to the Annual Meeting of the AAPG. There is no monetary compensation or reimbursement for any functions of the Delegate. The Delegate is elected from the Active voting members of the NPGS AND of the AAPG. The term for an AAPG Delegate is 2 years. Bill Ehni is the current AAPG Delegate for the NPGS.

AAPG has informed us that it is time to name our Delegate and Alternate for the upcoming term.

If any Active NPGS/AAPG member is interested in running in an election to serve as Delegate for the Society, please contact John Snow: (775) 336-8067, jsnow@standardsteamtrust.com; or this newsletter editor.

► **Next Scheduled Oil & Gas Lease Sale – Dec 11, 2012:**

49 parcels will be offered in Churchill County, Nevada.

The notice and list of parcels is available for this sale. .

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

► **Next Scheduled BLM Geothermal Lease Sale – January 29, 2013:**

Nominations were accepted for this sale until June 29, 2012.

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html

► **UNR College of Science – Discover Science Lecture Series:**

Information: 775-784-4591; science@unr.edu

Dec 6, 2012	Dr. Douglas Smith
Feb 7, 2013	Dr. Michio Kaku
Apr 4, 2013	Dr. Steven Strogatz

► **UNR Geological Sciences Seminar Series:**

Mondays 3:00 PM, DMS 104; <http://crack.seismo.unr.edu/geosci/>

Oct 29, 2012 Greg Dering MS Talk and Nate Pepe MS Talk
Nov 19, 2012 Jeff Lee, Central Washington
Nov 26, 2012 Julia Baldwin, University of Montana, *Distinguished Speaker*

► **Society of Exploration Geophysicists SEG 82nd Annual Meeting – Nov 4-9, 2012:**

The Society of Exploration Geophysicists will hold their 82nd Annual Meeting & International Exhibit November 4-9, 2012 at the Mandalay Bay Convention Center in Las Vegas, Nevada.

Information: www.seg.org

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

Geoffrey Blewitt—new President-Elect of the American Geophysical Union Geodesy Section

Congratulations to Geoff Blewitt! As President of the AGU Geodesy Section, Professor Blewitt will serve a two-year term as President-Elect starting January 1, 2013, then continue two more years as President. The AGU has over 61,000 members from over 146 countries. Geoff is currently teaching a new geodesy course "The Physics and Engineering of GPS" in UNR's Physics Department.

Read story on Nevada Geodetic Laboratory website:

<http://geodesy.unr.edu>
[Geoff's candidate statement](#)
<http://sites.agu.org/>

New geologic map—Jean quadrangle

Map 176—Geologic map of the Jean quadrangle, Clark County, Nevada, by Larry J. Garside, P. Kyle House, B. Clark Burchfiel, Stephen M. Rowland, and Brenda J. Buck; 2012; one 39x27.5-inch color plate, scale 1:24,000; 11-page text, b/w; folded or rolled, \$19.00 or free on the Web:

<http://www.nbmq.unr.edu/sales/pbsdtls.php?sku=M176>

A 1:24,000-scale, color geologic map of the Jean 7.5-minute quadrangle in Clark County, Nevada with descriptions of 46 geologic units and 2 cross sections. Accompanying text includes full unit descriptions and references.

Two new earthquake publications

Map 179—Earthquakes in Nevada: 1840s to 2010, by Diane M. dePolo and Craig M. dePolo; 2012; one 40x44-inch color map, scale 1:1,000,000; folded or rolled, \$18.00 or free on the Web:
<http://www.nbmgs.unr.edu/sales/pbsdtls.php?sku=M179>

Nevada is earthquake country; earthquakes occur every day in the state and a large damaging quake shakes some part of Nevada almost every decade. In fact, according to a 2006 report by the Nevada Seismological Laboratory, Nevada ranks third in the list of states with the most magnitude ≥ 5 earthquakes, trailing only Alaska and California.

This 1:1,000,000-scale map shows over 188,000 earthquakes that have occurred in or adjacent to Nevada over the last 170 years (1840s–2010). This map also features a series of small maps showing earthquake epicenters over four time periods.

The map was prepared by the Nevada Seismological Laboratory and the Nevada Bureau of Mines and Geology at the University of Nevada, Reno in cooperation with the Nevada Earthquake Safety Council, the Nevada Division of Emergency Management, the U.S. Geological Survey, and the Federal Emergency Management Agency.

Special Publication 37—Damaging Earthquakes in Nevada: 1840s to 2008, by Craig M. dePolo; 2012; one 35x45-inch color poster; 4-page text, b/w; folded or rolled, \$19.00 or free on the Web:
<http://www.nbmgs.unr.edu/sales/pbsdtls.php?sku=SP37>

Prepared by the Nevada Bureau of Mines and Geology with assistance from the Nevada Seismological Laboratory, the Seismological Society of America, the U.S. Geological Survey, and the Federal Emergency Management Agency

The damaging earthquakes briefly described on this map occurred during the period from the mid-1800s to 2008. They are the largest historical examples, but do not include all significant and damaging earthquake events in the state. These events and their descriptions remind us that Nevada is earthquake country and that earthquakes will produce strong shaking within our communities in the future.

Jim Faulds receives DOE award

Congratulations to NBMG Director and State Geologist, Jim Faulds, for receiving the 2012 Peer Review Excellence Award from the Department of Energy last week at the annual Geothermal Resources Council Meeting in Reno, Nevada. Jim's project, "Characterizing Structural Controls of EGS and Conventional Geothermal Reservoirs," was evaluated with hundreds of other projects last May and came out on top. This project involves analysis and cataloging of the favorable settings of geothermal systems in order to facilitate exploration and discovery of new blind or hidden systems (those with no surface hot springs), which make up the bulk of geothermal resources in the Great Basin region. The award brings national and international recognition to the project.

Jim also led two field trips for the Geothermal Resources Council meeting in Reno, including both a pre- and post-meeting, two-day trip. About 25 people attended each trip. The pre-meeting trip visited geothermal sites in and around the Carson Sink of western Nevada, including the Brady's, Desert Peak, Salt Wells, and Soda Lake geothermal systems. The post-meeting trip visited geothermal sites near Winnemucca (Blue Mountain and Rye Patch) and the Black Rock Desert area in northwestern Nevada.

New Lake Tahoe map – from California Geological Survey

Geologic Map of the North Lake Tahoe – Donner Pass Region, Northern Sierra Nevada, California;
by Arthur Gibbs Sylvester, William S. Wise, Jordan T. Hastings, and Lorre A. Moyer; 2012

“This new map of the Lake Tahoe-Donner Pass region covers the north part of the Tahoe-Truckee graben. The map represents the work of the authors with contributions from 136 students and graduate teaching assistants at the University of California, Santa Barbara over a number of years. The basement rocks in the Donner Pass region, on the west side of the graben, consist of late Paleozoic metasedimentary rocks and Mesozoic metavolcanic rocks intruded by Cretaceous granite, in contrast to the eastern side in Nevada where basement is Cretaceous granite. Tertiary and Quaternary andesitic and basaltic lava flows and andesitic volcanoclastic rocks erupted in four main periods covering the basement rocks. Seven Oligocene rhyolitic ignimbrite flow units and abundant Miocene and Pliocene andesitic flows and volcanoclastic rocks fill an Eocene paleovalley in the basement near the summit of Donner Pass. Quaternary valley glaciers and streams carved the west shoulder of the graben and deposited till, drift, and alluvium in the graben. Several major fault zones are in the graben including the Brockway Fault, the West Tahoe-Dollar Point Fault, the Carnelian and Agate Bay faults, and the Polaris Fault. The faults are right-oblique normal faults, with local strike-separations from $\frac{1}{4}$ to $\frac{1}{2}$ kilometer, and all are considered to be active. The Tahoe-Sierra Frontal Fault Zone bounds the west side of the graben and vertically separates the Pliocene debris avalanche of Mt. Disney about 500 m, thus yielding a maximum age of fault displacement of about 4 Ma. Evidence for younger displacement across any of the zone's discrete faults is scanty and not compelling.” (California Geological Survey)

MS60--California Geological Survey Map Sheet Series 60, printed map at 1:48,000 scale with an accompanying 45-page pamphlet, \$30.00

Ordering information

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

Subscribe to our blog: <http://nbmg.posterous.com>

Charlotte Stock

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

Nevada Bureau of Mines and Geology

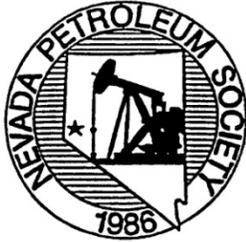
Great Basin Science Sample and Records Library

2175 Raggio Parkway

Reno, NV 89512

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

[Directions to office](#), www.nbmgs.unr.edu



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 _____

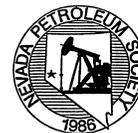
Date _____

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 List 2012



SPECIAL VOLUMES

- NPS 1** 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. \$65.00
- NPS 2** Membership Directory (only available **free on the Web** at <http://www.nbmg.unr.edu/nps/membershipdir.htm>)
- NPS 15** 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**
- NPS 21** 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 on CD only; 54 p., 45 illustrations, CD **\$15.00**

FIELD TRIP GUIDEBOOKS

- NPS 3** 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. (xerox copy only – unbound) \$8.00
- NPS 4** 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) **\$15.00**
- NPS 5** 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. **\$15.00**
- NPS 6** 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. **\$25.00**
- NPS 7** Structural and Stratigraphic Relationships of Devonian Reservoir Rocks, East Central Nevada (1993) C.W. Gillespie, editor, 15 papers, 3 plates, 203 p. **\$33.00**
- NPS 8** 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. on CD-ROM only **\$25.00**
- NPS 9** 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. **\$40.00**
- NPS 10** 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. **\$25.00**
- NPS 11** Cenozoic Structure and Stratigraphy of Central Nevada (1996) W.J. Taylor and H. Langrock, editors, 11 papers, 122 p. **\$25.00**
- NPS 12** 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. **\$25.00**
- NPS 13** Hydrocarbon Habitat & Special Geologic Problems of the Great Basin (1998) D.E. French and R.A. Schalla, editors and co-chair **\$25.00**
- NPS 14** 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 **\$35.00**
- NPS 16** Structure & Stratigraphy of the Eureka, Nevada Area (2001) Marilyn S. Miller and Jerome P. Walker, editors, 108 p., 11 color plates, book and CD **\$40.00** (NPS16), book only **\$30.00** (NPS16b), CD only **\$30.00** (NPS16c)
- NPS 17** Detachment and Attenuation in Eastern Nevada and its Application to Petroleum Exploration (2002) W. Ehni and J. Faulds, editors, 163 p., book & CD **\$40.00** (NPS17), book only **\$35.00** (NPS17b), CD only **\$15.00** (NPS17c)
- NPS 18** Oil, Gas, and Geothermal Occurrences in Northwestern Nevada (2003) S. Foster, editor, 102 p. **\$25.00**
- NPS 19** Megabreccias and Impact Breccias of East Central Nevada (2004) C.W. Gillespie and S. Foster, editors **\$35.00**
- NPS 20** 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/>)
- NPS 22** 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. **\$25.00**
- NPS 23** 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 **\$25.00**

These publications are only available from the Nevada Bureau of Mines and Geology (NBMG).

NBMG contact information: Phone: (775) 682-8766, Fax: (775) 784-6690

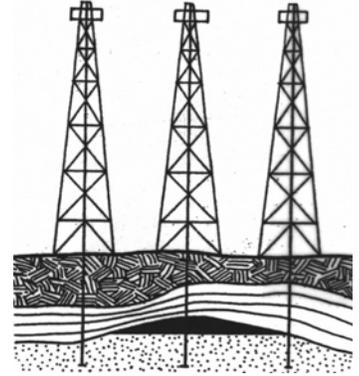
Web: <http://www.nbmg.unr.edu>

Web: <http://www.nbmg.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

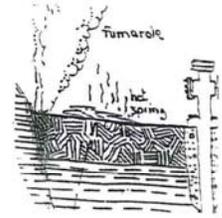
Assessment of undiscovered oil and gas resources of the Eastern Great Basin Province, 2005, Fact Sheet
FS-2005-3053, free at <http://pubs.usgs.gov/fs/2005/3053/>
Basin and Range Carbonate Aquifer System Study:
<http://nevada.usgs.gov/barcass/data.htm>

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.nbmq.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.nbmq.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.nbmq.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 Pahranaagat 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 2012-2013	
Oct 29, 2012	UNR Geological Sciences Seminar Series – Mondays 3:00 PM DMS 104; http://crack.seismo.unr.edu/geosci/ Greg Dering MS talk; Nate Pepe MS talk
Nov 1, 2012	NPGS Monthly Dinner Meeting – Thursday Nov 1, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speakers: Lisa Shevenell, Atlas Geosciences, Inc and Rick Zehner, Geothermal Development Associates</i> <i>Topic: Geothermal Activity in Nevada, A Summary</i>
Nov 4-9, 2012	Society of Exploration Geophysicists SEG 82nd Annual Meeting & International Exhibition – Nov 4-9, 2012 Mandalay Bay Convention Center, Las Vegas, NV www.seg.org
Nov 12, 2012	Northern Nevada Section SME Monthly Dinner Meeting Dr. Hamid Maleki, Ph.D., P.E. 2012 Henry Krumb Lecturer Circus-Circus Mandalay Room, Happy Hour 6:00, Dinner 6:45, Talk 7:30 RSVP by Wed Nov 7 775-682-7379; dlightwood@unr.edu
Nov 16, 2012	GSN Membership Meeting – Reno Elks Lodge 597 Kumle Lane, Reno, NV – Friday , 6:00 PM Drinks at 6:00 PM, dinner at 7:00 PM, and talk at 8:00 PM. RSVP by NOON Thu Nov 15: Laura Ruud (775) 323-3500, gsn@gsnv.org
Nov 19, 2012	UNR Geological Sciences Seminar Series – Mondays 3:00 PM DMS 104; http://crack.seismo.unr.edu/geosci/ Nov 19, 2012 Jeff Lee, Central Washington
Nov 26, 2012	UNR Geological Sciences Seminar Series – Mondays 3:00 PM DMS 104; http://crack.seismo.unr.edu/geosci/ Julia Baldwin, University of Montana, <i>Distinguished Speaker</i>
Dec 2-7, 2012	Northwest Mining Association 118th Annual Meeting Spokane Convention Center, Spokane, WA www.nwma.org
Dec 6, 2012	UNR College of Science – Discover Science Lecture Series Dr. Douglas Smith Information: 775-784-4591; science@unr.edu
Dec 7, 2012	NPGS Annual Christmas Party – FRIDAY Dec 7 Ramada Reno Hotel, 1000 E 6 th St, Reno, NV; Details TBA
Dec 11, 2012	Nevada BLM Oil & Gas Lease Sale, Reno NV 49 parcels available, Churchill County http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/oil_gas/oil_and_gas_leasing.html
Jan 3, 2013	NPGS Monthly Dinner Meeting – Thursday Jan 3, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: Scott Hector, Geologist/Owner Hobby Energy</i> <i>Topic: Monterey Shale play</i>

Jan 29, 2013	Nevada BLM Geothermal Lease Sale, Reno NV http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html
Feb 7, 2013	NPGS Monthly Dinner Meeting – Thursday Feb 7, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: Lowell Price, Nevada Division of Minerals, Carson City, NV</i> <i>Topic: Oil & Gas Exploration Summary 2012</i>
Feb 7, 2013	UNR College of Science – Discover Science Lecture Series Dr. Michio Kaku Information: 775-784-4591; science@unr.edu
Mar 7, 2013	NPGS Monthly Dinner Meeting – Thursday Mar 7, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: Vincent Ramirez, Hangtown Oil LLC, Carson City, NV 89703</i> <i>Title: Empire "Paradise 2-12" oil discovery in western Nye County: why so much Miocene structural compression?</i>
Apr 4, 2013	NPGS Monthly Dinner Meeting – Thursday Apr 4, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speakers: Jim Trexler, Professor, Geological Sciences, UNR, Reno NV and Don French, Geologist, Billings MT</i> <i>Topic: Distribution & lithology of the Mississippian Chainman shale</i>
Apr 4, 2013	UNR College of Science – Discover Science Lecture Series Dr. Steven Strogatz Information: 775-784-4591; science@unr.edu
May 2, 2013	NPGS Monthly Dinner Meeting – Thursday May 2, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV <i>Speaker: Sean P. Long, Research Professor, NBMG, UNR</i> <i>Topic: Mid-Tertiary Unconformity, implications of the structure of Railroad Valley and the surrounding region</i>
Sep 22-24, 2013	Rocky Mountain Section AAPG 2013 – Sep 22-24, 2013 Utah Geological Association hosting at the Hilton in downtown Salt Lake City.
2016 proposed	Rocky Mountain Section/Pacific Section Meeting – AAPG 2016 2016 joint RMS-AAPG/PS-AAPG annual meeting, Las Vegas, Nevada (<i>proposed</i>)

The NPS 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.nbmgs.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.
