**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/](http://www.nbmg.unr.edu/nps/)

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**Dinner Meeting: Thursday, Jan 3, 2013**

**Speaker:**
Scott Hector  
Geologist/Partner, Hobby Energy  
Rio Vista, CA

**Topic:**
Monterey Shale Play: Update

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

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

**Hosted by:**
BARBOUR WELL Inc.  
Oil and Geothermal Drilling Services

**Dinner Served at 7:00 PM**

**Dinner Costs:**
NPGS 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 19-20 for upcoming meetings
MONTEREY SHALE UPDATE

The American Oil and Gas industry has become excited about the tremendous potential for oil and gas reserves by fracking previously non-productive shale rocks. The Energy Information Agency recently published a report that stated that the most reserves of any “Shale Resource Play” in the United States are in the Monterey Shale play in California. The agency stated that it had estimated reserves of over 15 billion barrels for this play. This is three times as much oil as the EIA credits for the Bakken Shale play in North Dakota! This presentation takes a look at the reserve estimates for the Monterey, and discusses the recent activity in various California basins. This talk discusses the good, the bad, and the ugly results so far for this highly touted resource play. Mr. Hector has and is exploring for oil in the reservoir, and has the experience of more than 40 fracs in the Monterey over the last 15 years.

► About the Speaker – Scott T. Hector

from www.hobbyenergy.net

“Scott T. Hector, partner and senior geologist, specializes in structural geology, stratigraphy and biostratigraphy as related to finding oil and gas fields. Scott’s primary experience in exploring for and developing natural gas plays is the Sacramento, San Joaquin and La Honda basins of onshore California and offshore Santa Barbara Channel and Ventura Basin.

Scott has experienced success exploring for oil in the Paradox Basin of Utah and Colorado. He has analyzed basins in Guatemala, Belize and Bangladesh. He has been involved in the drilling of geothermal wells at the Geysers and in the evaluation of multiple geothermal properties in the western United States.”

► 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
Welcome!! New NPGS Members:

We take this opportunity to welcome our new members!
We appreciate your support and trust you will find NPGS membership to be beneficial.

Biffle, Jim  Welsco Corp.    Fallon, NV
Biffle, Shami  Welsco Corp.    Fallon, NV
Bowman, Jon  Noble Energy, Inc.    Denver, CO
Morrison, Monte  Alterra Power Corp.    Fallon, NV
Osborn, William  Geothermal Resource Group, Inc. Palm Desert, CA
Ponder, Steve  Geothermal Resources Council Davis, CA
Schwarz, Jeff  Noble Energy, Inc.    Denver, CO
Sophy, Matthew  New Mexico Tech/Ormat Nevada Reno, NV
Taylor, David  Noble Energy, Inc.    Denver, CO
Webster, Judy  Noble Energy, Inc.    Denver, CO
Zehner, Richard  Geothermal Development Associates 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.

AAPG Delegate Election – Andrew Hanson AAPG Delegate, July 2012 – June 2015

Results of the Election for Delegate and Alternate conducted by AAPG Headquarters

NEVADA PETROLEUM & GEOTHERMAL SOCIETY
Term: July 1, 2012 – June 30, 2015

Statistics:  38 Electronic Ballots Mailed 9 Paper Ballots
9 Voted Electronically 2 Voted by Paper Ballot

DELEGATE  Andrew D. Hanson
ALTERNATE  William J. (Bill) Ehni
Next Scheduled BLM Geothermal Lease Sale – January 29, 2013:

7 parcels will be offered in various counties. See the listing @
http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html

Next Scheduled Oil & Gas Lease Sale – Mar 12, 2013:

36 parcels will be offered in Elko and Eureka Counties, Nevada.
5 of the parcels have pre-sale offers.

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

Results of Dec 11, 2012 Oil & Gas Lease Sale:

49 parcels were offered in Churchill County, Nevada.
No parcels received bids – ZERO bids.
See the results of this sale @

UNR College of Science – Discover Science Lecture Series:

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

Joint PSAAPG/SPE/PSSEPM Conference – Monterey, CA Apr 19-25, 2013:
Energy & the Environment – Working Together for the Future
Portola Hotel & Spa –
Submit abstracts to: psaapgabs@gmail.com – Deadline Jan 15, 2013

AAPG- Rocky Mt Section 62nd Annual Meeting – Sep 22-24, 2013:
“Energy Elevated” Hilton Salt Lake City Center
Call for papers will begin Jan 2013

AAPG-Education Calendar:

Upcoming AAPG Field Seminars: http://www.aapg.org/education/fieldseminars/index.cfm
News from Nevada Bureau of Mines & Geology:

Desert Peak quadrangle--new geologic map
Southern Eureka mining district-- new geologic map
USGS National Geologic Map Database--search NBMG
Discover Science Lecture Series (UNR College of Science)
Geological Sciences Seminar Series

>Desert Peak quadrangle--new geologic map Open-File Report 12-5

Preliminary geologic map of the Desert Peak quadrangle, Churchill County, Nevada, by James E. Faulds, Alan R. Ramelli, Larry J. Garside, Mark F. Coolbaugh, and Heather L. Green, 2012

A 1:24,000-scale, color preliminary geologic map of the Desert Peak 7.5-minute quadrangle in Churchill County, Nevada with descriptions of 102 geologic units and three cross sections. Locations of geothermal wells are also included. The Desert Peak quadrangle incorporates much of the northern Hot Springs Mountains, which contain one of the larger geothermal anomalies in the Great Basin. The quadrangle includes the Desert Peak geothermal system and associated power plant, the easternmost part of the Brady’s geothermal field, and the western part of the Desert Queen geothermal system. It also includes one operating diatomite mine and much of the currently inactive Desert Queen mining district.

1:24,000-scale color plate, 51x27 inches, rolled or folded, $19.00

Buy or free on Web: http://www.nbmg.unr.edu/sales/pbsdtsls.php?sku=OF12-%205

>Southern Eureka mining district-- new geologic map Open-File Report 12-6


A 1:24,000-scale, color preliminary geologic map of the southern Eureka mining district, and surrounding areas of the northern Fish Creek Range, southern Mountain Boy Range, and southern Diamond Range, with description of 80 geologic units and 3 cross sections. This map represents a significant reinterpretation of the structural style, kinematics, and geometry of the Eureka mining district.

$38.00--set of two 1:24,000-scale color plates, both 55 x 39 inches, rolled or folded
$19.00--plate 1 (map and cross section A)
$19.00--plate 2 (cross sections B and C)

Buy or free on Web: http://www.nbmg.unr.edu/sales/pbsdtsls.php?sku=OF12-%206

>USGS National Geologic Map Database—search NBMG

This new database from USGS is very helpful in searching NBMG publications. http://ngmdb.usgs.gov
Go to “Map Catalog” and select “Nevada” for location and “USGS/AASG” for publisher.
You can also do spatial searches by clicking on “MapView.”
>Discover Science Lecture Series (College of Science)

People have asked about science and geology lectures on campus, so we are passing on this information from the College of Science and the Department of Geological Sciences and Engineering. These lectures are too good to miss.

“Established in 2010, the Discover Science lecture series brings renowned scientists from all over the country to the University of Nevada, Reno campus to present their knowledge to the community in a series of engaging and free lectures at the Davidson Mathematics and Science Center.”

“Science encompasses a wonderfully diverse collection of explorations into the unknown,” Jeff Thompson, dean of the College of Science, said. "Join us and experience the extent of the science universe as the best scientists on the planet visit Nevada for our Discover Science Lecture Series.”

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

>Geological Sciences Seminar Series

The Department of Geological Sciences and Engineering has a seminar series on Mondays. Here is a list of the upcoming lectures: crack.seismo.unr.edu/geosci

MONDAYS, 3:00 P.M, DAVIDSON MATH & SCIENCE BUILDING, #104 AT UNR:
http://www.unr.edu/admissions/visit-campus

Ordering information

You can place an order for other publications or check for shipping charges through our shopping cart at http://www.nbmg.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.nbmg.unr.edu
GOLD LEVEL Sponsorship Bio

The NPGS extends a warm thank you to Barbour Well, Inc. for becoming a Gold Sponsor.

Company Profile

Barbour specializes in drilling oil production wells and large diameter geothermal wells that are high-yield and high-quality in support of both the oil and geothermal industries throughout Nevada, California, Utah, New Mexico, Idaho and the Western United States.

Over three decades of geophysical logging, water well design, work-over/stimulation, down-hole video services, and drilling production wells makes Barbour ideally suited in the expertise for successful oil or geothermal projects. Barbour has an extensive background in geophysics unique to the offerings of most drilling organizations.

Barbour maintains current C23 and A6 Contractor’s Licenses in Nevada, a C57/D09 Contractor’s License in California, and current drilling Contractor’s Licenses in New Mexico and Utah, offering both direct mud rotary (conventional) drilling (vertical and directional) as well as air-rotary foam drilling for specialized applications. Wire-line services are also available in most of the Western United States.

Cost-effective operations and innovative techniques designed to be used by the Oil and Geothermal Industries have provided new avenues of possibilities for future project planning. Barbour is confident that their continued commitment to the oil and geothermal communities will result in the increased availability of much needed renewable energies within the United States. For additional questions regarding company info, pricing or rig availability please contact:

Steve Zarcone, 
Business Development 
Barbour Well Inc. 
260 Sunpae A, Suite A 
Henderson, NV 89011 
(805) 207-6407 Direct 
(901) 755-7687 Cell 
zarcone@barbourwell.com
About GeoSymposium

The annual UNLV GeoSymposium is a student-run conference in which both graduate and undergraduate Geoscience students present their original research to industry, civic and government professionals, as well as academic experts. This provides important feedback to further advance their research and career opportunities.

Each Spring, more than 40 students showcase their research as either oral or poster presentations in front of fellow students, faculty, staff, and professionals in the field of geoscience. Attendance by local, national, and international industry professionals has been outstanding for past events, and we hope this facet of GeoSymposium grows, gaining support from geoscience industries. The 2013 GeoSymposium will again include diverse and exciting scientific research conducted through UNLV’s Department of Geoscience.

Our graduate students, undergraduate students, faculty, and staff would like to invite you to join us for the 8th Annual GeoSymposium. We hope this event will further facilitate networking and future collaborative Geoscience research, both within and beyond the UNLV Department of Geoscience.

Research Topics

Research presented at the 2013 GeoSymposium will showcase the latest discoveries and upcoming research generated from our graduate and undergraduate students.

Previous oral and poster presentations have covered topics such as:
- Igneous and Metamorphic Petrology
- Sedimentology and Stratigraphy
- Experimental Petrology
- Carbonate System Analyses
- Economic Geology
- Paleontology
- Arid-Region Soil Science
- Hydrology and Hydrogeology
- GIS and Remote Sensing
- Planetary Sciences
...and many more!!
Awards

A volunteer panel of experts will judge student presentations based on their scientific merit, quality and applicability of research, and professionalism.

Awards will be presented for the best oral and poster presentations in different categories, recognizing the best research efforts of the 2012-2013 academic year.

We are looking forward to share our research with you and show you everything that is great about UNLV Geoscience!

2013 Events Schedule

Friday, April 12

8:45 am Opening Remarks
9:00 am Morning Keynote Address
   (Dr. Jeff Randall, CH2M HILL, retired)
9:30 am Oral Presentation Session - I
11:00 am Poster Presentation Session - I
12:00 pm Lunch Break
1:00 pm Oral Presentation Session - II
2:00 pm Poster Presentation Session - II
3:30 pm Afternoon Keynote Address
   (Mr. Gary Gray, ExxonMobil)
4:15 pm Awards Ceremony
4:30 pm Silent Auction and Refreshments

Saturday, April 13

Field Trip to Mormon Mesa, NV
Depart from Lilly Fong Geoscience (LFG) parking lot at 8:30 am, return about 5:00 pm.

Petrocalcic soil at Mormon Mesa, NV

For more information regarding the 2013 GeoSymposium, please visit our website:
http://geoscience.unlv.edu/GeoSymposium

Sponsorship Opportunities

This student-run symposium continues to be a success due to the support of our generous sponsors, who have given both their time and resources. This generosity is the lifeblood of our GeoSymposium and is greatly appreciated by the students and faculty of the Department of Geoscience. We are pleased to accept sponsors for registration breakfast, luncheon, silent auction reception, and field trip.

Thank You!

If you have questions and would like to learn more, or are interested in sponsoring a portion of the 2013 UNLV GeoSymposium, Please contact:

GeoSymposium Coordinator
Jeevan Jayakody
jayakody@unlv.nevada.edu
(702) 895-4633
(702) 592-3260
Or visit:
http://geoscience.unlv.edu/GeoSymposium
8th Annual GeoSymposium
April 12-13, 2013
R.S.V.P. Form

The GeoSymposium committee cordially invites you to join us at the Auditorium in the Science and Engineering Building (SEB) on April 12, 2013. To ensure recognition of your attendance at this event, please return this form by March 29, 2013. Options for submission of this form include fax, email (attachment), or postal mail. Please return one form per attendee. Additional forms are available from our website: http://geoscience.unlv.edu/GeoSymposium/

Name: .................................................................................................................................
Affiliation: ..............................................................................................................................
Address: .................................................................................................................................
Email/Telephone: ....................................................................................................................

Please check:
☐ I will attend GeoSymposium on Friday, April 12, 2013
☐ I would like to attend the Field trip on Saturday, April 13, 2013 (seats are limited)

Sponsorship Opportunity:
Your donation will help make the 8th Annual GeoSymposium a success! Financial and/or material support from friends and alumni of the Department of Geoscience is greatly appreciated and will be warmly acknowledged in our meeting program. For this special acknowledgement, please send your check or donate online by March 29, 2013. Online donations can be made at: http://geoscience.unlv.edu/GeoSymposium/donate.html

If paying by check, please indicate the amount of your donation and make checks payable to: ‘UNLV FOUNDATION’ and in the Memo Line: ‘GEOSYMPOSIUM’
Quartz Donation (up to $249) ...................... Garnet Donation ($250-$999) ......................
Topaz Donation ($1000-$1999) ...................... Corundum Donation ($2000-$2999) ...........
Diamond Donation ($3000+) ......................

Sponsor for:  ☐ Breakfast  ☐ Luncheon  ☐ Evening Reception  ☐ Field Trip

Notes: ........................................................................................................................................

I would like to donate a rock, mineral, or other item for the silent auction
Description: ............................................................................................................................
Location: ...................................................................................................................................

Estimated Market Value: $ ..................... Do you want recognition of item donation for tax purposes? Y/N

Please mail forms or direct any questions to:
Jeevan Jayakody, UNLV Department of Geoscience
4505 S. Maryland Parkway, Box 4010
Las Vegas, NV 89154-4010
Email: javakody@unlv.nevada.edu  ·  Phone: (702) 895-4633  ·  Fax: (702) 895-4064

Thank you for your support, and we look forward to seeing you at the 8th GeoSymposium
CALL FOR PAPERS!
Joint PSAAPG / SPE / PSSEPM Conference – Monterey
April 19th – 25th, 2013 at the Portola Hotel & Spa (www.portalahotel.com)
Energy & the Environment – Working Together for the Future

Sessions
1. Reviving Old Giants and Recognizing New Potential Mature Basins
2. Opening Up the West: New and Overlooked Opportunities in Unconventional Reservoirs
4. Contributions to the Geology of the Sacramento Valley
5. Arctic Energy Opportunities: from the Cook Inlet to the North Slope and Beyond
7. Energy and the Environment
8. Outcrop, Subsurface and Modern Seafloor Studies of California’s Turbidite Systems
10. Fluvial and Shallow-Marine Depositional Systems: Insights from Outcrops and Subsurface Prediction
11. Western North America Earthquake Hazards: What’s Shakin’?
12. Faults, Folds, Transforms and Terranes of Western North America
13. Sediment Routing in Western North America
14. Tectonics and Sedimentation on the Pacific Margin of North America: New Developments and Interpretations
15. Analysis and Modeling of the Dynamics of Coupled Seascapes and Landscapes
16. Undergraduate Research Poster Session

Submit Your Abstract NOW!
Submit your abstract to: psaapgabs@gmail.com and list what session you prefer and oral or poster. Deadline for submission is 1/15/13
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@lumosengineering if you have any questions or require any additional information.

Sincerely,

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

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<th>Sponsor Name</th>
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Total Sponsorship Fees

**Indicate Level of Sponsorship:**

(3) GOLD  
(4) SILVER  
(5) INDIVIDUAL

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.

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.

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.

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.)
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 ________________

DO NOT COMPLETE
For NPS Membership Committee Signatures Only

Please make check payable to:
Nevada Petroleum Society
P.O. Box 11526
Reno, NV 89510-1526
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-1995 or $25.00 non-NPS order by phone only for discounted price of $5.00)


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 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 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 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 Impression Breccias of East Central Nevada (2004) C.W. Gillespie and S. Foster, editors $35.00


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 a 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.nbmg.unr.edu/](http://www.nbmg.unr.edu/).

Oil and gas information page on the NBMG website: [http://www.nbmg.unr.edu/Oil&Gas/index.html](http://www.nbmg.unr.edu/Oil&Gas/index.html)

**Bulletins**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Authors</th>
<th>Date</th>
<th>Price</th>
<th>Notes</th>
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<tbody>
<tr>
<td>B104</td>
<td>Oil and gas developments in Nevada</td>
<td>Garside, Hess, Fleming and Weimer (1988)</td>
<td>$15.00</td>
<td>for updates, see OF01-7, OF04-1, and M162</td>
<td></td>
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</tbody>
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**Educational Series**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Price</th>
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<tbody>
<tr>
<td>E-6</td>
<td>Oil and gas in Nevada</td>
<td>$3.45</td>
<td>Student book for grades 4-8, 23 pages</td>
</tr>
<tr>
<td>E-24</td>
<td>Nevada oil</td>
<td>free</td>
<td>Division of Minerals (Brochure, 1996)</td>
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**Lists**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>L-8</td>
<td>List of oil and gas wells drilled in Nevada since 1907</td>
<td>superseded by OF04-1, see also OF01-7</td>
</tr>
<tr>
<td>L-12</td>
<td>Nevada oil and gas well catalog (NVOILWEL), 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.</td>
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**Maps**

<table>
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<tbody>
<tr>
<td>M162</td>
<td>Petroleum data map of Nevada</td>
<td>Hess and Hess (2007)</td>
<td>$15.00</td>
<td>1:1,000,000</td>
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</tbody>
</table>

**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.nbmg.unr.edu/](http://www.nbmg.unr.edu/).

**Open-File Reports**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
<th>Price</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>OF83-5</td>
<td>Nevada oil shale</td>
<td>Garside</td>
<td>10</td>
<td>$4.00</td>
<td>(for more oil shale information, see also USGS MF-1546 and MF-2091)</td>
</tr>
<tr>
<td>OF86-13</td>
<td>Nevada petroleum production statistics</td>
<td>Hess, Loomis and Garside</td>
<td>14</td>
<td>$5.00</td>
<td>1954-1986</td>
</tr>
<tr>
<td>OF92-5</td>
<td>Nevada oil and gas source-rock database</td>
<td>Hess</td>
<td>10</td>
<td>$4.00</td>
<td>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</td>
</tr>
<tr>
<td>OF96-6c</td>
<td>Nevada oil and gas wells, 1907-1996</td>
<td>Hess</td>
<td>250</td>
<td>$20.00</td>
<td>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</td>
</tr>
<tr>
<td>OF01-7</td>
<td>Nevada oil and gas well database map</td>
<td>Hess</td>
<td>10</td>
<td>$15.00</td>
<td>CD and 4 page text</td>
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<tr>
<td>OF00-2</td>
<td>Hydrocarbon assessment of the Yucca Mountain vicinity, Nye County, Nevada</td>
<td>French</td>
<td>78</td>
<td>$44.40</td>
<td>78 pages and 4 plates</td>
</tr>
<tr>
<td>OF04-1</td>
<td>Nevada oil and gas well database (NVOILWEL)</td>
<td>Hess</td>
<td></td>
<td>$86.40</td>
<td>for photocopy</td>
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<tr>
<td>OF07-7</td>
<td>Assessment of the potential for carbon dioxide sequestration with enhanced oil recovery in Nevada</td>
<td>LaPointe, Price, and Hess</td>
<td></td>
<td>$7.20</td>
<td>24 pages,</td>
</tr>
<tr>
<td>OF11-2</td>
<td>Qualitative petroleum potential map of Nevada</td>
<td>Garside and Hess</td>
<td>1</td>
<td>$15.00</td>
<td>105 GB, 9643 files</td>
</tr>
<tr>
<td>OF11-6</td>
<td>Oil and gas well information for Nevada – 2011 update</td>
<td>Hess, Henson, David, Limerick, Siewe, and Niles</td>
<td></td>
<td></td>
<td>portable hard drive, 105 GB, 9643 files, $115; free on web at <a href="http://www.nbmg.unr.edu/Oil&amp;Gas/NVWellInfo.html">http://www.nbmg.unr.edu/Oil&amp;Gas/NVWellInfo.html</a></td>
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**Reports**

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<thead>
<tr>
<th>Code</th>
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<th>Price</th>
<th>Notes</th>
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<tbody>
<tr>
<td>R51</td>
<td>Preliminary assessment of the potential for carbon dioxide disposal by sequestration in geological settings in Nevada</td>
<td>Price and others</td>
<td>35</td>
<td>$15.00</td>
<td>CD-ROM or paper copy</td>
</tr>
<tr>
<td>R52</td>
<td>Assessment of the potential for carbon dioxide sequestration by reactions with rocks in Nevada</td>
<td>Sturmer, LaPointe, Price, and Hess</td>
<td>22</td>
<td>$22.00</td>
<td>CD-ROM or paper copy</td>
</tr>
</tbody>
</table>

**USGS**


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.nbmg.unr.edu](http://www.nbmg.unr.edu)
Geothermal resources in Nevada

Geothermal information page on the NBMG website
http://www nbmg.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 nbmg.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, Hinrich, and Forest (1982), $15.00 (see also OF03-27)

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 County, 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 nbmg.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 Pahranagat 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
R61 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 southwestern Nevada
NPS22 Geology, Geothermal Resources and Petroleum Exploration of Neogene Basins in the Reno, Nevada Area

USGS Publications
I-1701 Bouger gravity anomalies, depth to bedrock, and shallow temperature in the Humboldt House geothermal area, Pershing County, Nevada: Schaefer (1986), $9.00
OF74-1066 The chemical composition and estimated minimum thermos 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

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) 784-0890
E-mail: nbmg@unr.edu
www.nbmg.unr.edu
## Nevada Petroleum and Geothermal Society Calendar: Year 2012-2013

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 3, 2013</td>
<td><strong>NPGS Monthly Dinner Meeting</strong> – Thursday Jan 3, 6:30 PM</td>
<td>Ramada Reno Hotel, 1000 E 6th St, Reno, NV</td>
<td>Speaker: Scott Hector, Geologist/Partner Hobby Energy Topic: Monterey Shale play</td>
</tr>
<tr>
<td>Jan 14, 2013</td>
<td><strong>Northern Nevada Section SME Monthly Dinner Meeting</strong></td>
<td>Charles A. Jeannes – President &amp; CEO, Goldcorp</td>
<td>Circus-Circus Mandalay Room, Happy Hour 6:00, Dinner 6:45, Talk 7:30 RSVP by Wed Jan 9; 775-682-7379; <a href="mailto:dlighthwood@unr.edu">dlighthwood@unr.edu</a></td>
</tr>
<tr>
<td>Jan 18, 2013</td>
<td><strong>GSN Membership Meeting – Reno Elks Lodge</strong></td>
<td>597 Kumle Lane, Reno, NV – Friday, 6:00 PM</td>
<td>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, <a href="mailto:gsn@gsnv.org">gsn@gsnv.org</a></td>
</tr>
<tr>
<td>Jan 28, 2013</td>
<td><strong>UNR Geological Sciences Seminar Series – Mondays 3:00 PM</strong></td>
<td>DMS 104; <a href="http://crack.seismo.unr.edu/geosci/">http://crack.seismo.unr.edu/geosci/</a></td>
<td></td>
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<tr>
<td>Feb 4, 2013</td>
<td><strong>UNR Geological Sciences Seminar Series – Mondays 3:00 PM</strong></td>
<td>DMS 104; <a href="http://crack.seismo.unr.edu/geosci/">http://crack.seismo.unr.edu/geosci/</a></td>
<td></td>
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<tr>
<td>Feb 7, 2013</td>
<td><strong>NPGS Monthly Dinner Meeting</strong> – Thursday Feb 7, 6:30 PM</td>
<td>Ramada Reno Hotel, 1000 E 6th St, Reno, NV</td>
<td>Speaker: Lowell Price, Nevada Division of Minerals, Carson City, NV Topic: Oil &amp; Gas Exploration Summary 2012</td>
</tr>
<tr>
<td>Feb 7, 2013</td>
<td><strong>UNR College of Science – Discover Science Lecture Series</strong></td>
<td>Dr. Michio Kaku</td>
<td>Information: 775-784-4591; <a href="mailto:science@unr.edu">science@unr.edu</a></td>
</tr>
<tr>
<td>Feb 11, 2013</td>
<td><strong>UNR Geological Sciences Seminar Series – Mondays 3:00 PM</strong></td>
<td>DMS 104; <a href="http://crack.seismo.unr.edu/geosci/">http://crack.seismo.unr.edu/geosci/</a></td>
<td></td>
</tr>
<tr>
<td>Mar 7, 2013</td>
<td><strong>NPGS Monthly Dinner Meeting</strong> – Thursday Mar 7, 6:30 PM</td>
<td>Ramada Reno Hotel, 1000 E 6th St, Reno, NV</td>
<td>Speaker: Vincent Ramirez, Hangtown Oil LLC, Carson City, NV 89703 Title: Empire &quot;Paradise 2-12&quot; oil discovery in western Nye County: why so much Miocene structural compression?</td>
</tr>
<tr>
<td>Apr 4, 2013</td>
<td><strong>NPGS Monthly Dinner Meeting</strong> – Thursday Apr 4, 6:30 PM</td>
<td>Ramada Reno Hotel, 1000 E 6th St, Reno, NV</td>
<td>Speakers: Jim Trexler, Professor, Geological Sciences, UNR, Reno NV and Don French, Geologist, Billings MT Topic: Distribution &amp; lithology of the Mississippian Chainman shale</td>
</tr>
</tbody>
</table>
### Event Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>Apr 4, 2013</td>
<td><strong>UNR College of Science – Discover Science Lecture Series</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Dr. Steven Strogatz</strong></td>
</tr>
<tr>
<td></td>
<td>Information: 775-784-4591; <a href="mailto:science@unr.edu">science@unr.edu</a></td>
</tr>
<tr>
<td>Apr 19-25, 2013</td>
<td><strong>Pacific Section AAPGS/SPE/PSSEPM Conference</strong></td>
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<tr>
<td></td>
<td>Monterey, CA Apr 19-25, 2013: Portola Hotel &amp; Spa</td>
</tr>
<tr>
<td></td>
<td><strong>Energy &amp; the Environment – Working Together for the Future</strong></td>
</tr>
<tr>
<td></td>
<td>Submit abstracts to: <a href="mailto:psaappabs@gmail.com">psaappabs@gmail.com</a> – Deadline Jan 15, 2013</td>
</tr>
<tr>
<td>May 2, 2013</td>
<td><strong>NPGS Monthly Dinner Meeting</strong> – Thursday May 2, 6:30 PM</td>
</tr>
<tr>
<td></td>
<td>Ramada Reno Hotel, 1000 E 6th St, Reno, NV</td>
</tr>
<tr>
<td></td>
<td><strong>Speaker: Sean P. Long, Research Professor, NBMG, UNR</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Topic: Mid-Tertiary Unconformity, implications of the structure of Railroad Valley and the surrounding region</strong></td>
</tr>
<tr>
<td>Jun 26-27, 2013</td>
<td><strong>Geothermal Energy Association - National Geothermal Summit</strong></td>
</tr>
<tr>
<td></td>
<td><a href="http://geo-energy.org/events.aspx">http://geo-energy.org/events.aspx</a></td>
</tr>
<tr>
<td>Sep 22-24, 2013</td>
<td><strong>AAPG- Rocky Mtn Section 62nd Annual Meeting</strong></td>
</tr>
<tr>
<td></td>
<td>Sep 22-24, 2013</td>
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<tr>
<td></td>
<td>Utah Geological Association hosting at the Hilton Salt Lake City Center</td>
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<tr>
<td></td>
<td><strong>“Energy Elevated” Call for papers will begin Jan 2013</strong></td>
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<tr>
<td><strong>2016 proposed</strong></td>
<td><strong>Rocky Mountain Section/Pacific Section Meeting – AAPG 2016</strong></td>
</tr>
<tr>
<td></td>
<td>2016 joint RMS-AAPG/PS-AAPG annual meeting, Las Vegas, Nevada</td>
</tr>
</tbody>
</table>

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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.nbmg.unr.edu/nps/](http://www.nbmg.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.