

NEWSLETTER

Serving the Petroleum and Geothermal Community

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

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Dinner Meeting: Thursday, May 5, 2011

- Speaker:** Stuart Simmons
Research Professor
Colorado School of Mines
- Title:** "Fluid Flow and Geothermal Reservoirs in
Volcanic Terrain:
A New Zealand Perspective"
- Place:** Ramada Reno Hotel, Washoe Room
1000 East 6th Street, Reno, Nevada
- Agenda:** Cocktails begin at 6:30 PM
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 Monday, May 2**

Diane Phillips (775) 267-4663 or trailsend@pyramid.net

► **ABSTRACT – NPS Monthly Dinner Meeting – May 5, 2011**

Speaker Stuart Simmons, CSM:

Title: Fluid Flow and Geothermal Reservoirs in Volcanic Terrain: A New Zealand Perspective.

High temperature reservoirs for power production (>220°C) occur between 500 and 3000 m depth in the up flowing parts of terrestrial geothermal systems. Their occurrences are the product of convective heat and mass transfer in the top 10 km of the crust, as influenced by magmatic, tectonic, and hydrologic processes. The flow regime and permeability structure are dynamic, and controlled by buoyancy, rock type, faults and fractures, and mineral alteration and deposition. The physical and chemical attributes of reservoirs are examined based on examples from New Zealand (Wairakei, Ngawha, and Waimangu), where geothermal power production constitutes about 10% of the total electricity supply. The geological setting in which geothermal reservoirs form is diverse, and good resource management requires knowledge of the range of spatial and temporal changes that can influence power production.

► **About the Speaker:**

Stuart Simmons is a visiting research Professor (2011-12) at Colorado School of Mines. He is also a consulting geoscientist, with 30 years of experience on hydrothermal processes, serving clients around the Pacific Rim in the exploration and development of geothermal resources and precious metal deposits (www.hotsolutions.co.nz).

He received his PhD in Economic Geology (1986) from the University of Minnesota, and then took up a post-doc at the University of Auckland, New Zealand to study hydrothermal fluid chemistry and mineralization in geothermal systems. Stuart stayed at University of Auckland and later became Associate Professor and Director of the Geothermal Institute. In 2008, he became a full-time consultant. He has published over 70 papers in scientific journals, including *Nature*, *Science*, *American Journal of Science*, *Geology*, *Economic Geology*, *Geothermics* and *Journal of Volcanology and Geothermal Research*. He retains honorary research appointments with the University of Auckland and Canterbury University.

► **2011 PS-SEPM Fall Field Trip:**

Initial Notice: 2011 PS-SEPM Fall field trip – Late Paleozoic basins, tectonism, and resources of north-central Nevada

**Leaders: Dan Sturmer, Jim Trexler, Pat Cashman, Rachel Dolbier, and Tom Anderson;
University of Nevada, Reno
September 24-25, 2011**

In this first of two fall PS-SEPM field trips, we will investigate late Paleozoic (post-Antler Orogeny) deformation and basin formation in north-central Nevada and learn how understanding this complex geology is useful for locating and recovering natural resources. The field trip will begin Friday afternoon in Reno (or join us Saturday morning in Winnemucca). Saturday we will drive east to Carlin Canyon, where we will walk through a section of Mississippian–Permian strata in four, stacked, angular unconformity-bounded basins. We will observe and discuss the several generations of folds and faults developed in these strata and discuss how both the deformation and basin formation events relate to the late Paleozoic tectonic evolution of western Laurentia. In the afternoon we will travel west to Edna Mountain to see more effects of late Paleozoic–Mesozoic deformation on late Paleozoic basin deposits. We will also look at the other packages of rock exposed in the area: the Golconda allochthon which contains deep marine deposits which were thrust over the late Paleozoic rocks during the Sonoma Orogeny, and the Lower Paleozoic Preble Formation, which contains metamorphosed and deformed mixed carbonate-siliciclastic deposits of suspect origin. Saturday night we will enjoy a traditional Basque dinner in Winnemucca and a talk on the geology of the Getchell Trend and Twin Creeks Mine. Sunday (Day 2) will begin with a tour of Twin Creeks Mine (owned by Newmont Mining Corporation), led by mine geologists. Twin Creeks is a very large surface mine in a Carlin-type gold deposit: disseminated gold atoms and particles generally hosted in sedimentary rocks. The gold at Twin Creeks is hosted in Pennsylvanian-Permian carbonates; a Cambrian-Ordovician package of carbonates, siliciclastics, and mafic flows and tuffs; and Ordovician greenstones. We will then caravan back to Reno, with optional stops at Fossil Hill in the southern Humboldt Range to collect ammonoids out of the Triassic Star Peak Group, or the Desert Peak-Brady's geothermal field to discuss geothermal resources in Nevada.

Contact Dan Sturmer: sturmer.dan@gmail.com

► **April 2011 Annual AAPG Meeting:**

April 10, 2011, Houston, Texas, Delegate Bill Ehni

Bill attended the Delegates Meeting and represented the Nevada Petroleum Society at the annual meeting of the AAPG. Unfortunately, I neglected to get his report for this newsletter. I did not attend the delegates meeting; however, I do know that it lasted at least 5 hours, there was a lot of discussion about certification, and a very small percentage of delegates were under age 40. Maybe Bill can give a brief report at the NPS meeting on Thursday and I will include the written report in an upcoming newsletter.

The annual meeting was very well attended, Houston was bustling and so was the convention center!

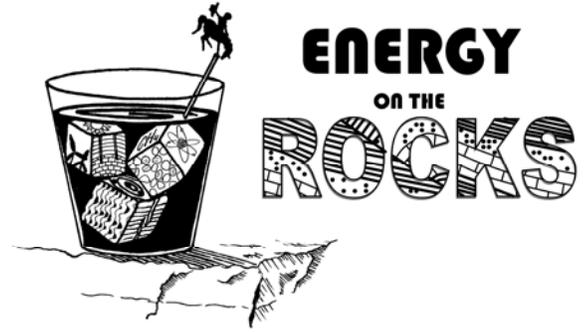
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Rocky Mountain geologists focus on Niobrara for summer meeting

CASPER – Wyoming’s newfound focus on the potential of the Niobrara shale play makes it the perfect setting for the AAPG Rocky Mountain Section meeting this summer. “Energy on the Rocks” is scheduled for June 25-29 in Cheyenne at the Little America Convention Center, and will highlight the Niobrara with many special events and features.

On the Niobrara schedule is a three-day field trip, a core workshop, two plenary sessions as well as a public session and a Niobrara core museum. The Rocky Mountain Association of Geologists also plans to release its new publication, “Revisiting and Revitalizing the Niobrara in the Central Rockies.” New and old research alike will be visited to give attendees an expanded level of understanding on this development.

“We’re excited to offer attendees such a rounded program on the Niobrara,” said Graeme Finley, president of the Wyoming Geological Association, which is hosting this year’s meeting. This is the 60th meeting, but it is the first time in Cheyenne.

While the meeting has a heavy Niobrara focus, the Rocky Mountain Section has planned a diverse technical program featuring CO₂ EOR and sequestration; EMD including geothermal, uranium and coal; evaluation of unconventional plays; Rocky Mountain structure, stratigraphy and sedimentology; and more. Several short courses and field trips, which have limited attendance, are also offered. Early registration is encouraged.

The exhibit hall promises to be the place for the exchanging information on products and services. It is located in the center of the meeting area and will host coffee breaks and happy hours.

Rounding out this year’s program is a prospect expo. Prospect exhibitors are invited to showcase their ideas to attract potential partners and investors. Over 700 conference attendees are expected to attend and one-day passes will be available.

To register to attend or exhibit or for full details on the technical program, short course and field trip descriptions and other convention information, go to www.rms-aapg.org/2011_meeting

► ***Northern Nevada SME Meeting, Monday, May 9th, 2011 - 6PM***

The Northern Nevada Chapter of the Society for Mining, Metallurgy and Exploration (SMENNV) will be hosting the last dinner/meeting of the year this coming May 9th at 6:00PM at the Circus Circus, Mandalay Room.

**The topic of the presentation is
“The Good And The Ugly of Oil Development” by Ken Donajkowski.**

Abstract:

An overview of environmental protection progress in Alaska and the Gulf of Mexico BP spill.

Ken learned about communication electronics from the Army, earned a EE degree and worked for Texas Instruments for three years. While at TI he earned an MBA and then went to work for ARCO Oil and Gas Company. After 2 years in the Gulf of Mexico, the next 24 years were spent in Alaska. He worked in finance, construction, production, materials, Fire and Safety, Environmental permitting, auditing, and retired in 2007 after several years as the ConocoPhillips Alaska Vice-president of Health, Safety, Environmental, Emergency Response and Native Community Relations. He was directly involved in four state legislative bills that were passed in Alaska and joined the Polar Bear Club in 2002 by swimming in the Arctic Ocean.

Meeting sponsored by GEOTEMPS www.geotemps.com

Members \$22/person and Non-Members \$25/person payable at the door

RSVP Required by noon, THURSDAY, May 5th 2011
Call Kaitlin C. Sweet 775.225.6147
or email: kcsweet@enviroincus.com

Social Hour 6 PM, Dinner 6:45 PM and Technical Session, at 7:30 PM
Circus - Circus Hotel and Resort, Mandalay Room in Convention Center
(Casino Entrance at the corner of 5th Street and North Sierra Street.)
500 N Sierra Street, Reno, NV

The Northern Nevada Section of SME meets monthly from September until May.
For more information about this announcement, please contact me or visit us at www.smennv.org

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

Geothermal map – now available as zip file

M161 - Nevada geothermal resources, by Robin Penfield, Lisa Shevenell, Larry Garside, and Richard Zehner, 2010
A 1:750,000-scale color map showing geothermal resources in Nevada, including active direct use applications and power plants as of June 2010. Locations are based on a compilation of databases containing information on thermal springs, geothermal wells in the literature, geothermal wells permitted by the State of Nevada, and thermal gradient wells. Site locations have been updated and corrected from the *Nevada Geothermal Resources* map published in 2005 (NBMG Map 141, 2nd edition).

[plate \(8.9 Mb\)](#) - [GIS zipfile \(141 Mb\)](#)

<http://www.nbmq.unr.edu/sales/pbsdtls.php?sku=M161>

New factsheet from NBMG

Nevada's public safety and economic development threatened by proposed budget cuts:

NBMG released a factsheet detailing how the proposed budget cuts to the agency will affect the state's public safety and economic development. The factsheet is available on the NBMG website in pdf format:

http://www.nbmq.unr.edu/docs/NBMG_BudgetFactsheet_2011April20.pdf

How you can help:

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

Lake Tahoe Basin LiDAR data released

http://www.opentopography.org/index.php/news/detail/lake_tahoe_basin_lidar_data_released

"I'm pleased to announce that you can now download the 2010 Tahoe LiDAR data from <http://www.opentopography.org/> at your convenience. Access to the data from the website is pretty straight forward – once you access the homepage, click on the "data" tab or "find data" button and you will be introduced to a map. Zoom into the Tahoe Basin polygon or the area of interest. Select the "Select a Region" button on the left hand side of the screen then select the area within the basin that you want data. The larger the area you select, the more time it will take to process. Alternatively, at the bottom of the map, is a link to "list all datasets", clicking this link will bring you to a list of all datasets hosted by opentopography. You can select the Tahoe LiDAR dataset from there as well. Follow the steps to specify what information and format you want downloaded. I encourage you to register for an account with opentopography to gain greater access to data. Please share this website with your colleagues. P.S. I'd like to extend a special thank you to Graham Kent, Ramon Arrowsmith, David Saah, Chris Crosby, Toby Welborne and Watershed Sciences for making this happen." (from J. Shane Romsos, Tahoe Regional Planning Agency, Department Manager, Measurement Department)

Report 53 now available on DVD

R53d - Geologic assessment of piedmont and playa flood hazards in the Ivanpah Valley area, Clark County, Nevada, by P. Kyle House, Brenda J. Buck, and Alan R. Ramelli (2010)

A comprehensive surficial geologic mapping effort was undertaken to support the development of a series of relative flood hazard maps of the Ivanpah Valley area, Clark County, Nevada. The study area spans approximately 1030 km² (398 mi²) and is defined by all of three and part of one internally drained basins between Las Vegas and Primm, Nevada. The proximity of the study area to Las Vegas makes it a likely site of urban and suburban development in the near future, and it is currently being considered for the construction of a major airport facility. The geologic study focused on the delineation of surficial deposits of alluvial, aeolian, and playa sediments ranging in age from recent to late Miocene (approximately 5.6 million years old). Mapping emphasized the discrimination of active alluvial and playa surfaces from relict, inactive surfaces for the purpose of developing a relative flood hazard characterization to provide a baseline physical data set to guide floodplain management and more detailed studies related to hazard mitigation efforts in the area. Ideally, the maps will help planners understand the distribution of flood hazard conditions in the valley and direct mitigation efforts and engineering studies to areas with the highest potential for flooding. Study results indicate that 60% of the total study area (236 mi²) is composed of surficial geologic deposits. Within that subset, nearly 75% (175 mi²) is subject to a relative flood hazard level deemed greater than "none", and nearly 53% of that area (125 mi²) is classified as having a hazard status high enough to represent a significant concern for floodplain management. A series of 9 maps and a complete digital GIS dataset accompany this report.

Report 53 (online version) – [available free on the Web](#)

Project DVD

A project DVD is available that contains all of the digital data used in developing the maps described in this report, including: geologic data geodatabase; field point and photo geodatabase; *.mxd files used in ArcMap to display and print the maps; layer files (*.lyr) that ensure the data are displayed the appropriate way; and *.pdf files of each map (plates 1–9). Report 53d, DVD version, \$20.00.

Charlotte Stock

NBMG Publication Sales

University of Nevada

mailing address for US Mail, Fed Ex, and UPS:

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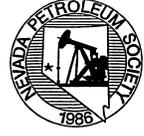
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Reno, NV 89512

phone (775) 682-8766, fax (775) 784-6690, www.nbmgs.unr.edu

Nevada Petroleum Society – Publication List 2010



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, 4 plates, hardbound, 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. **\$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, 2 volumes, 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 **\$30.00**
- 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**, 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** (bulk of 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/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/>.**

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**

Databases, Lists, Indexes, and Digital Maps

List of wells by API and permit numbers; operator and well names; township, range, and section (as of October 27, 2008) at <http://www.nbmq.unr.edu/lists/oil/oil.htm>
See also: <http://www.nbmq.unr.edu/Oil&Gas/index.html>

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. Selective data searches and index lists available upon request. 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*
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

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

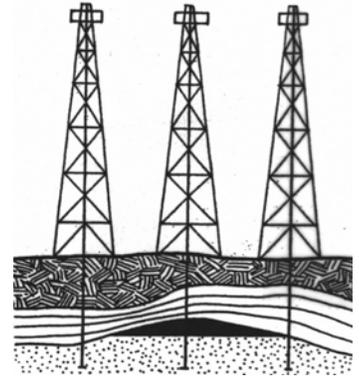
USGS

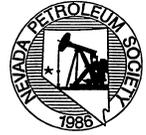
Assessment of undiscovered oil and gas resources of the Eastern Great Basin Province, 2005, Fact Sheet
FS-2005-3053, free at <http://pubs.usgs.gov/fs/2005/3053/>
Basin and Range Carbonate Aquifer System Study:
<http://nevada.usgs.gov/barcass/data.htm>

Ordering information for Nevada Bureau of Mines and Geology

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Nevada Petroleum Society Calendar: Year 2011

May 5, 2011	NPS Monthly Dinner Meeting – Thursday May 5, 6:30 PM Ramada Reno Hotel, 1000 E 6 th St, Reno, NV Speaker Stuart Simmons, Colorado School of Mines: Title: Fluid Flow and Geothermal Reservoirs in Volcanic Terrain: A New Zealand Perspective.
May 9, 2011	The Northern Nevada Chapter of the Society for Mining, Metallurgy and Exploration (SMENNV) - Dinner/meeting 6:00PM at the Circus Circus, Mandalay Room. Topic: "The Good And The Ugly of Oil Development" by Ken Donajkowski
Jun 25, 2011	2011 Rocky Mountain Section – AAPG Annual Meeting June 25-29, Little America Conference Center Cheyenne, Wyoming – www.rms-aapg.org/2011_meeting/
Sep 24-25, 2011	2011 PS-SEPM Fall field trip Late Paleozoic basins, tectonism, and resources of north-central Nevada Leaders: Dan Sturmer, Jim Trexler, Pat Cashman, Rachel Dolbier, and Tom Anderson; University of Nevada, Reno
Oct 23, 2011	GRC's 35th Annual Meeting - October 23-26, 2011 Town & Country Resort & Convention Center San Diego, California - http://www.geothermal.org/meet.html

The NPS Newsletter is provided to members of the Nevada Petroleum Society.
For information about membership and events, see the NPS website at <http://www.nbmq.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 .

Nevada Petroleum Society; May 2011

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