

Pacific Section • American Association of Petroleum Geologists

September & October • 2010



School of Rock Ridge Basin

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	/		Ten minutes into this race, and trust

Cover photo of Ridge Basin outcrop courtesy Jonathan Allen

me folks, the Silurian will end sooner.



Message from the President Cynthia Huggins

Do you know what Marilyn Bachman, Mike Fillipow, Peggy Lubchenco, and Jane Justus Frazier have in common? They were all recipients of the Teacher of the Year Award from AAPG, and they all came from the Pacific Section! Of the 13 recipients of this award, four have been from PSAAPG.

This time of year, all AAPG sections are canvassing their affiliated societies to select nominees for the section's "Teacher of the Year". This award is open to any K-12 teacher who covers a unit of earth science with an emphasis on natural resources. The Pacific Section awards cash stipends to both the recipient and his/her school, and the award is presented at our annual meeting. Bob Ballog, the PSAAPG Teacher of the Year Coordinator, is soliciting nominations from Pacific Section Member Societies for the 2011 award. The winner will be submitted to national for the 2012 AAPG "Excellence in Teaching" award.

If you know of any deserving / qualified nominees, please contact Bob at the address below. The specific forms and requirements for this award are the same as the National AAPG requirements for their "Excellence in Teaching" award. These forms can be found on the AAPG website (http://foundation.aapg.org/toty/). Nominations are due by February 2011, so you have time to interact with local schools and find the next TOTY.

Bob Ballog Eagle Exploration & Production Co., Inc. 1000 Business Center Circle, Ste. 204 Newbury Park, CA 91320 bob@eaglexpco.com

This year we are submitting Michael Warren (Alaska Geological Society) to national as our nominee for their 2011 award (to be awarded in Houston in 2012). Michael is a middle school teacher in Anchorage, Alaska. Below please find the front page of his award winning curricula "GoogleEarthQuest." This is the type of innovative teaching method that we should be encouraging and recognizing across the region.

In order for us to find out about teachers like Michael, we need to be more aware of who is teaching earth science in our local schools. One of the best ways to do this is to volunteer, and go into the classroom.

We have many tools at our disposal to encourage and support resource education in our schools. The AAPG has a very useful website for youth education activities:

http://www.aapg.org/k12resources/index.cfm

The problem is that teachers may not be aware of the existence of this site, or similar sites at AGI:

http://www.agiweb.org/education/curriculum/index.html#es

or GSA:

http://www.geosociety.org/educate/resources.htm



We need to reach out to science teachers in all of our local schools to make them aware of these different resources, including us! You can volunteer to give talks to the kids about drilling a well, earthquakes, oil and gas exploration, or even take your rock collection into the classroom. Kids love to learn about rocks, fossils, volcanoes, and dinosaurs.

October is a great time to get this effort rolling. The AGI-sponsored National Earth Science Week is October 10th to the 16th, and the theme is "2010: Exploring Energy." This great effort is supported in part by the USGS, NASA, NPS, AAPG Foundation, US DOE, ExxonMobil, ESRI, and other groups. Who better than us to participate, share our story, and explain how we contribute to the energy industry?

This year, for the first time, AGI is partnering with the National Park Service to sponsor National Fossil Day on October 13th. What a great opportunity for us to take our favorite fossils down to the local school house, and offer to tell their story. There is even a "No Child Left Inside" Day!

Here are some addresses where you can learn more: http://www.earthsciweek.org/ http://nature.nps.gov/geology/nationalfossilday/overview.cfm http://www.earthsciweek.org/ncli/index.html

Along with all these fun activities, in order to better communicate to students, teachers, and our communities, AAPG is putting together several PowerPoint presentations for us to use as we tell the story about geology and our industry. We'll let you know when they are available.

Remember, Earth Science Week is coming up, so let's all get out there and share our love of all things geological! Take a rock to school, because as we all know, geologists rock!

Cheers, Cynthia Huggins



With National Earth Science Week coming up, it is important to remember that education doesn't stop after graduation. Training, not only geologic, but also in other subjects pertinent to a petroleum geologist (e.g., computer software, reserves estimation, reservoir engineering, economics, etc.), is vital for those of us who work on a multidisciplinary project team, and is also important for contractors who will hand off their work to such groups. Many larger companies in the industry have well-developed training programs for new hires which include field and classroom geology courses, as well as other cross-functional training. As experience and responsibility grow, it can become increasingly difficult to find time and support for training, especially for expensive field courses. I find it disheartening that all geologists, regardless of experience, aren't encouraged to attend at least one geology field course per year, be it a company-offered trip, or one of the spectacular array of AAPG field schools (http://www.aapg.org/education/).

There are many ways that we, as practicing geologists, can help solve this problem. Communication with supervisors/managers about the benefits of field courses is something we all should do. Sharing your field trip experiences with your team or manager is a good start. When possible, inviting them along on short geology trips can cement the concept that understanding of geologic relationships affects everyday reservoir management activities. Hopefully, over time, it will become obvious that the benefits easily justify the costs.

In addition to sharing our view of the importance of field geology to those who fund our formal training, we can also take the solution into our own hands. On page nine you will find an anouncement for a field trip being organized at the local level by the AAPG Young Professionals San Joaquin Chapter. It is very encouraging to see geologists willing to use a Saturday during prime college football season to teach and learn about a very neat area (for those who haven't yet visited the Ridge Basin, I highly recommend this trip).

The more rock we see, the better we are at visualizing the subsurface and interpeting all types of subsurface data. Short of visiting outcrops in person, we are also fortunate to have local geological society monthly meetings, and regional and national geologic association conferences (see the announcement for the 2011 PS-AAPG convention hosted by the Alaska Geological Society on page 19), all great ways to continue expanding your geologic horizons. I encourage you to get involved, stay involved, and keep on learning.



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Press release August 20th 2010 From: Buena Vista Museum of Natural History Re: Acquisition Fund set up to save local Miocene (14-16 million years old) fossils.

The Buena Vista Museum of Natural History began modestly fifteen years ago with a small exhibit of very special fossils from in the Bakersfield area. These 15-million year old fossils were found in the Shark Tooth Hill area, less than 10 miles from downtown Bakersfield. Visitors have been enthralled by seeing and learning about world class fossils of sharks, sea lions, turtles, whales, and other life forms that swam in the Pacific Ocean when Bakersfield was under that ocean.

Over the years the Museum has become more than just a fossil exhibit. The Museum now displays many diversified collections. These include taxidermied African, Asian, and North American animals, dinosaurs, gems and minerals, Native American artifacts, and a hands-on children's Discovery Center. But the main attraction has continued to be the local Sharktooth Hill fossils. Over the years the collection grew to include several hundred specimens. It has been viewed and studied by thousands of visitors, including scientists from all over the world. These fossils provided thousands of Kern County school children a stimulating education of seeing and hearing about 70-foot sharks, entire skeletons of whales and sea lions, and more. Seeing shark teeth often rekindled fond memories for native Kern County adults, who may have visited Shark Tooth Hill in their youth.

Unfortunately, the Shark Tooth Hill fossil collection, which was on loan, was moved out of the Museum on August 12th. The fossils were packed and crated, and are scheduled to be sold via auction in December 2010. For fifteen years, larger Shark Tooth Hill specimens had been the signature pieces for the Museum. The mission of the Museum is to educate and celebrate the rich natural history of Kern County. Display of Shark Tooth Hill fossils have been an effective, fun way to accomplish that mission.

In an effort to re-acquire some of these special fossils for permanent display in Kern County, the Museum's Board of Directors is announcing the creation of an "Exhibit Acquisition Fund." This idea was developed by Museum member Robin Turner, a noted California paleontologist and archaeologist. Upon learning about the Sharktooth Hill fossil situation, Robin approached the Board of Directors with her idea to create this fund for the fossils. Robin has generously donated \$5000 toward preserving Kern County's heritage through this fund. This is a good start!

There is urgency to securing more money for the Exhibit Acquisition Fund. The Museum hopes to raise approximately \$150,000- \$200,000 before the Dec. 5 auction. This would allow the museum to able to acquire significant, signature fossils such asa baleen whale skeleton, sperm whale skull, sea lion skeleton, and shark teeth and jaws. Our hope is that there will be enough funds regain a good representation of Miocene Epoch and the creatures that lived here.

Please let everyone you know that this fund is available to help save and bring home our local fossils. It is the museum's hope that you or that you know someone that can donate to this fund. No donation is too small. I thank you in advance for your help with this important matter.

Sincerely, Koral Hancharick BVMNH Executive Director Donations can be sent to 2018 Chester Ave Bakersfield Ca 93301 or for more info call 324-6350

Editor's Note: Look for an article on the geology and history of the Sharktooth Hill area in the Nov.&Dec. PPG Newsletter.

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Join the AAPG Young Professionals San Joaquin Chapter on a field trip to the Ridge Basin, California on Saturday November 13, 2010

Meet at 7:30 am in the parking lot next to Finish Line Bicycles 8850 Stockdale Hwy (across the street from CSUB)

Snacks and drinks will be provided, but bring your own lunch. This trip will be coled by Dave Larue (Stratigrapher and Earth Modeler, Chevron North America E&P) and Tony Reid (Chief Geologist, Occidental of Elk Hills), and is open to members of SJGS and PSAAPG. Limit 25 people, please RSVP to sjgsyp@gmail.com

Come treat yourself to world-class examples of deltaic successions and fanglomerates, including the famous Violin Breccia







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Glenn J. Gregory California Professional Geologist #3676

4800 Easton Drive, Suite 101 Bakersfield, CA 93309 (661) 633-5555 glenng@bak.rr.com Membership information over the past 12 months shows that 39 percent of new AAPG members were under the age of 30. The national AAPG Young Professionals (YP) Committee was formed to represent these early career geoscientists, and to aid in the transition from Student to Active membership. The mission of the Young Professionals is to:

 foster a successful career in the energy business for recent college graduates and early career geoscientists

• build an understanding of the value of a lasting relationship between AAPG and young professional members

In order to fulfill this mission, we need to:

- · have open communication with students about careers in earth science and the petroleum industry
- · identify and serve early career needs of young geoscientists
- offer opportunities for networking, career guidance, learning, and enhancing professional competence

My role as the Pacific Section representative on the YP Committee is to engage the section's students and young professionals in order to advance the mission of the YPs. Additionally, we want to increase membership within the section, increase the involvement of both students and young professionals within the section and the affiliated local societies (not only as active participants but as leaders), increase the number of universities competing in the Imperial Barrel competition through cooperative partnerships/mentoring between professionals and IBA teams, and host YP networking events at the annual section meeting. In order to achieve these goals, local chapters of young professionals across the section will be organized.

A local chapter of the Young Professionals associated with the San Joaquin Geologic Society was formed in Bakersfield at the beginning of this year. This YP chapter has had great success and held a number of well attended events including: networking events, a field trip to the Santa Barbara area to view the Monterey Formation with a quick stop at one of the local wineries, and volunteering to restore California condor habitat in the Bitter Creek National Wilderness. The group also held a 3-week career seminar at one of the local universities that focused on resume writing and interview skills, which culminated in mock interviews conducted by recruiters from several area companies.

The YP Committee aids to further AAPG's commitment to gaining and retaining members of a key demographic. Early and active involvement within the society by both students and young professionals is rewarding not only for the future leaders of AAPG but for the society as a whole!

If you would like to start a chapter of the Young Professionals within your area, or have questions about the AAPG Young Professionals, contact Jonathan Allen, jonathan.allen@chevron.com.



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Thanks to Mel Erskine for submitting this commentary that he was asked to provide to California botanists in support of keeping serpentine as California's state rock. Some of the basic geologic explanations have been removed, as it was

originally written for a wider audience.

California's State Rock: SERPENTINE

Serpentine, California's State Rock, is currently under fire because of a misunderstanding of the use and misuse of one of its minerals, chrysotile. However, serpentine richly deserves its role as State Rock because serpentine, or more properly, serpentinite, is arguably the most important rock for understanding the structure and geologic history of the region we now call California. It also hosts some of our state's most impressive native plant diversity, cherished rare species, and the best displays of wildflowers in California, which could not exist without this substrate. Serpentinite is a rock mainly composed of serpentine group minerals: antigorite, chrysotile or lizardite, with accessory chlorite, talc, and magnetite. It is hydrothermally derived from the alteration of ferromagnesian silicate minerals (olivine, pyroxene) found in mafic rocks, such as the basaltic volcanic rocks of the ocean floor.

California and western Nevada are composed of a number of oceanic derived terrains that have been accreted to North America by plate tectonic processes over the last approximately 250 million years. As the oceanic Pacific Plate and its predecessors converged on the North American continental plate, the oceanic plates impacted very old (circa 800 million year old) cold oceanic crust loaded with 40,000 feet of continentally derived simple layered sedimentary rocks. In most oceanic plate / continental plate collisions, the continental plate acts as a rigid beam that stands (floats) high as the thin flexible oceanic plate is subducted. However, western North America's western margin was an old oceanic plate loaded and depressed to 40,000 feet by a relatively easily deformed package of sedimentary rocks. What happened is that the old, "cold" oceanic plate margin of North America was subducted, and a series of island arcs were obducted onto North America. The oceanic plate drove the 40,000 feet of relatively easily deformed sedimentary rocks eastward onto the continent. This is now a major, long-lived fold and thrust belt that extends from Mexico to northernmost Canada.

Now for the formation and role of serpentinite. The root of each oceanic island arc is basaltic oceanic crust (ferromagnesian silicate minerals). In the collision zone of the obduction process, these low silica, calcium poor (mafic) rocks are subjected to very high temperature and pressure while in the presence of abundant seawater. The result is the formation of serpentinite in large quantities in the fault boundaries between North America and accreted terrains. Serpentinite is a rock with very little shear strength; the minerals are fibrous. Thus, the boundaries between accreted terrains are faults in rocks with very little shear resistance. The convergence between North America and the various Pacific plates is and has been at a very small angle since the beginning. The bounding faults are a combination of right lateral strike-slip faults and thrust faults, dominated by the strike-slip motion. Because of the malleability of serpentinite, most of the accreted terrains are relatively coherent, but are generally much elongated north to south. The larger ones are several thousand kilometers long and 200 to 300 kilometers wide. Much of Alaska is made up of accreted terrains; 154 of them have been identified to date. California is almost entirely composed of accreted terrains. As attested by the broad San Andreas fault system plate boundary, the convergence continues.

On the geologic map of California serpentinite is colored purple. It forms long, sinuous, semi-continuous stripes. In the Coast Ranges this stripe extends from the Oregon border to Coalinga. In the Klamath Mountains it forms five arcs separating six distinctive terrains. On the northwest side of Mount Diablo it forms a small south facing arc. Those of us living along the Hayward Fault zone are aware of the poor soil and land-slides associated with it; the workers boring the new Caldicott Tunnel are anticipating problems with it. The western outcrops of the Sierra Nevada have several long zones of serpentinite that meander discontinuously from Lake Almanor to Porterville. Along the coast from north of Big Sur almost to Santa Barbara, there are many strands of serpentinite.

In the Klamath Mountains, the terrains separated by serpentinite have been identified as such and correlated with larger terrains in Idaho, Washington, western Montana, and southern Canada. However, in much of the rest of California, geologists are still struggling with the concept. The complexity of the superimposed San Andreas fault zone has made the problems much more difficult.

Chrysotile is an asbestoform mineral which is useful for its fire resistant properties plus its ease of handling and forming. When improperly used in enclosed places, the dust of chrysotile can cause a form of silicosis called asbestosis. Silicosis is caused by long exposure to the fine dust of minerals containing silica. Silicosis used to be a problem for underground miners until, early in the last century, all drills were required to be fitted with water to suppress the dust underground. Silicosis is no longer considered a problem in underground mines, even asbestos mines. However, if one works with concentrated asbestos fibers in enclosed spaces, installing insulation for instance, without protection, for long periods of time, measured in years, asbestosis is a serious problem.

Asbestosis and related mesothelioma problems have no relation to the suitability of serpentine as California's State Rock.

M.C. Erskine, PHD Consulting Geologist California Registered Geologist #1943



Serpentine and Jasper outcrop, Parkfield Grade (E. Washburn)



Serpentinous Franciscan Formation, Parkfield Grade (E. Washburn)

Stanford University Geologic Studies of the San Joaquin Basin, 1980-2010

Stephan A. Graham, W.J. and M.L. Crook Professor School of Earth Sciences, Stanford University, Stanford, California

The dissertations reproduced on this DVD largely predate the digital era, so many have been scanned from original hard copies of variable states of preservation; as a result, the quality varies in this product. The original dissertations are on file and accessible to the public at Branner Earth Sciences Library. School of Earth Sciences, Stanford University. Scans for this DVD derive from two sources. Some were produced as part of a program at Stanford to digitize all older dissertations, with thanks to Julie Sweetkind-Singer, (Acting Head Librarian) and her staff at Branner Library, for facilitating access to previously scanned dissertations. However, the majority of the dissertations in this collection were scanned pro bono by PayZone, Inc. of Bakersfield, thanks to the considerable efforts of Deborah Olson and her colleagues. Larry Knauer, Pacific Section AAPG, encouraged and facilitated production of the DVD. Ultimately, principal credit for this compilation goes to Deborah Olson, who first suggested the idea of this DVD in order to facilitate greater public access to these dissertations, because most were previously unpublished or published in regional publications of limited circulation. This body of research would not have been possible without the support of the San Joaquin Project consortium member companies, which over time included: Amerada-Hess, Amoco, Arco, BP Alaska, Champlin, Chevron, Cities, Conoco, Exxon, Getty, Gulf, Husky, Marathon, Mobil, Natural Gas Corp, Occidental, Phillips, Santa Fe Energy, Shell, Sohio, Superior, Tenneco, Texaco, and Unocal.

A 2-DVD set containing the information described above may be purchased from the Pacific Section American Association of Petroleum Geologists (PSAAPG) Publications Committee for \$39.00 by contacting (and including a check or credit card information and a shipping address)

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Figure 1. Index map for dissertations included in this DVD, modified from Scheirer, A.H., editor, 2007, Petroleum Systems and Geologic Assessment of Oil and Gas in the San Joaquin Basin Province, California: U.S. Geological Survey Professional Paper 1713. Names indicate dissertation authors; colors indicate ages of stratal units studied in dissertations; special thematic emphasis is indicated by underlining or italics. Names are positioned on the map in approximate geographic position of study; basin-scale studies are arbitrarily placed in the center of the basin.

DIBBLEE CENTER HAS COMPLETED THE DIGITIZING OF 96% OF TOM DIBBLEE'S MAPS 404 of the 419 maps have been digitized. Only 15 of the maps remain to be digitized We need help to finish the project

The AAPG is featuring Tom's maps in digital format in the Datapages section on their website for downloading as georeferenced, layered PDF files by end user. The Dibblee Geologic Map Collection is available to end users on a global level. Paper maps are still available.

Jason and I have been vigorously soliciting funds to digitize the original 76 maps of the Dibblee Collection that were prepared by hand. We need less than \$75,000 of additional funding to accomplish our goal. I am asking you to consider helping us to obtain funding for all or part of our mission. Help us to finish this project.

To aid our funding quest, blocks of the Adobe Illustrator Dataset as CS4 .ai files can still be purchased. Data in this set is in an unrestricted, layered format to allow the user to examine and manipulate the data, and to help incorporate it into their data set.

The AAPG Foundation has the E.F. Reid Dibblee Fund, created by Bud Reid, to support the work of the Thomas W. Dibblee Jr. Center for Geology of the Santa Barbara Museum of Natural History. Contributions can be made through this fund, or directly to the Dibblee Map Digitizing Fund, Dibblee Geological Center, Santa Barbara Museum of Natural History.

John Minch, Editor, Thomas Dibblee Jr. Geological Center Santa Barbara Museum of Natural History, 2559 Puesta del Sol, Santa Barbara, CA 93105 805-569-1800 <jmainc@earthlink.net>



PUBLICATIONS OF THE AAPG PACIFIC SECTION ON DVD

AAPG Datapages and the AAPG Pacific Section announce our recent release of the digital archive, "Publications of the AAPG Pacific Section on DVD" released by the AAPG Bookstore.

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This DVD may also be order through AAPG Datapages.



Alaska Geological Society

www.alaskageology.org

P. O. Box 101288 Anchorage, AK 99510 Contact: Tom Homza 907.770.3701



Luncheon meetings are held monthly September through May, usually on the third Thursday of the month, at the BP Energy Center (1014 Energy Court) from 11:30 a.m. to 1:00 p.m. The hot lunch cost is ^{\$}20 for members with reservations; ^{\$}22 for non-members with reservations; and ^{\$}25 without reservations. The box lunch cost is ^{\$}13 for members with reservations, ^{\$}15 for non-members with reservations, and ^{\$}18 without reservations. For reservations, call the AGS reservation voice mail at 907-258-9059 or contact David Hite at hiteconsult@acsalaska.net by noon on Monday before the meeting.

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Coast Geological Society	P. O. Box 3055	Contact: Muriel Norton
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Dinner meetings are held monthly September through May, usually on the third Tuesday of the month, at the Poinsettia Pavilion, 3451 Foothill Road in Ventura. Social hour starts at 6:00 p.m., dinner is served at 7:00 p.m., and the talk starts at 8:00 p.m. The cost of dinner with reservations is \$20 (members), \$25 (non-members), or \$10 (students and K-12 teachers); the talk is free. For reservations, please email Jerry Nichols (secretary@coastgeologicalsociety.org). Reservations should be made by 4:00 p.m. on the Friday before the meeting.

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Los Angeles Basin Geological Society www.labgs.org

515 So. Flower Street, Ste 4800 Los Angeles, CA 90071

Contact: Bill Long 213.225.5900 x 205



Luncheon meetings are held monthly September and October; and January through June, usually on the fourth Thursday of the month, in the Monarch Room at The Grand at Willow Street Conference Centre (4101 E. Willow Street) in Long Beach. Lunch is served at 11:30 a.m., and the talk starts at 12:15 p.m. The cost is ^{\$}20 (with reservations), ^{\$}25 (without reservations), or ^{\$}0 (students are covered by Halliburton and Schlumberger). Reservations can be made online at www. labgs.org or by contacting Marieke Gaudet at 562.624.3364 or marieke_gaudet@oxy.com. Reservations must be made prior to Tuesday before the meeting.

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www.ncgeolsoc.org

9 Bramblewood Court Danville, CA 94506-1130 Contact: Barb Matz Barbara.Matz@shawgrp.com



Evening meetings are held monthly September through May, usually on the last Wednesday of the month, at the Masonic Center (9 Altarinda Road) in Orinda. Social hour starts at 6:30 p.m., and the talk starts at 7:00 p.m. (no dinner). For reservations, leave your name and phone number at (925) 424-3669, or at danday94@ pacbell.net before the meeting. Cost is \$5 per regular member; \$1 per student member; and \$1 per K-12 teachers (new!).

Northwest Energy Association

www.nwenergyassociation.org

P. O. Box 6679 Portland, OR 97228-6679 Contact: Tim Blackwood 503.656.0156



Breakfast meetings are held monthly September through May, usually on the second Friday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland. Meeting time is at 7:30 - 9:00 am. The cost is \$18. For information or reservations, contact Treck Cardwell at 503-226-4211 ext. 4681.

President Secretary Tim Blackwood **Treck Cardwell** tblackwood@pacificgeotechnicalllc.com t2c@nwnatural.com

Sacramento	Petroleum	Association

P. O. Box 571 Sacramento, CA 95812-0571

Contact: Rick Blake 925.422.9910



Luncheon meetings held monthly January through November, on the third Wednesday of the month. Location: Club Pheasant Restaurant in West Sacramento. The meetings starts at noon. The cost is \$16 - \$20. For information or reservations, contact Pam Ceccarelli at 916-322-1097x2 or Pam.Ceccarelli@conservation.ca.gov.

	President:	Jerry Reedy	916.486.2643	JWR5532@aol.com
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	Editor	Pam Ceccarelli	916.322.1097x2	pceccare@consrv.ca.gov
San Joac	quin Geological Socie	ety	P. O. Box 1056 Bakersfield, CA 93302	Contact: Kurt Johnson kurt_johnson@oxy.com



We have dinner meetings on the second Tuesday of the month at the American Legion Hall at 2020 "H Street" in Bakersfield. There is an icebreaker at 6:00 pm, dinner at 7:00 pm, and a talk at 8:00 pm. Dinner is \$20.00 for members with reservations and \$25.00 for nonmembers, \$25.00 for members without reservations and \$30.00 for nonmembers without, and the talks are free.

President:	Jack Grippi	JGrippi@aeraenergy.com
Past President:	Kurt Johnson	kurt_johnson@oxy.com
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PSAAPG Newsletter AAPG Explorer **November 1st**

Technical Session Topics Include:

Oral Sessions

 Geology and Hydrocarbon Potential of the North Slope. Offshore Beaufort and Chukchi Seas

Conference Dates: May 9th – 11th, 2011

- Cook Inlet Oil and Gas Fields
- Recent advances in Exploration and
- Development on the North Slope
- Reservoir Quality: Analysis and Prediction
 Integrated Reservoir Description: Case Studies and Best Practices
- Environmental Geology and Geohazards: Applications for Resource Development
- Reservoir Modeling: Techniques, Workflows and Case Studies
- Paleozoic and Proterozoic Geology of Alaska
- Technology: Advances and Applications
- Alternative Energy. Progressing the Future
- Petroleum Systems in Alaska and the Western Cordillera
- Advances in Seismic Data Acquisition and Processing
- Case Histories and Reservoir Characterization: Application of Seismic and other Geophysical Data

Poster Sessions

- Technology: Advances and Applications
- Integrated Reservoir Description and Modeling
 Geology, Tectonics and Resource Potential of North Alaska
- Oil and Gas Fields of Alaska: Case Studies

Arctic to the Cordillera: Unlocking the Potential

The 2011 Pacific Section of the American Association of Petroleum Geologists (PS-AAPG) meeting will be held in Anchorage, Alaska – the gateway to the 'Last Frontier'. The Pacific Section of SEPM and the Pacific Coast Section of SEG will also be participating in the conference and will co-sponsor several of the technical sessions. The Western Region of the Society of Petroleum Engineers will be co-hosting the conference and helping to provide a cross-discipline forum that offers attendees a wide variety of technical presentation, poster sessions, short courses and field trips.

The themes for the conference will include exploration and development case studies, technology applications and recent advances, alternative energy, environmental geology and geohazards in resource development, and petroleum systems in Alaska, the circum-Arctic, and the western US.

For this to be a successful meeting we need you, your ideas, and your participation. We look forward to a series of stimulating and insightful sessions that will continue to address and lead to solutions for many of the technological, environmental, and political challenges the industry is faced with today.

You are invited to get involved and help shape this conference by submitting an abstract for an oral or poster presentation in the technical program. So, please review your recent work and put together an abstract for a contribution to the technical program. Abstract submissions can be made at the following website between **October 1, 2010 and February 11, 2011**. http://www.

For additional information please contact:

David Hite, PS-AAPG, General Co-Chair: <u>hiteconsult@acsalaska.net</u> Sandy Phillips, PS-AAPG, Oral Session Chair: <u>sandra.phillips@bp.com</u> Steve Wright, PS-AAPG, Poster Session Chair: <u>sswr@chevron.com</u>





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