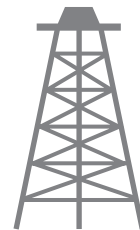




Pacific Petroleum Geology



NEWSLETTER

Pacific Section • American Association of Petroleum Geologists

May & June 2018



2018 PSAAPG Post Convention Issue & Officer Elections



www.psaapg.org

THANK-YOU

California Resources Corporation.

For your continued support of local students.
Your sponsorship funded many student dinners
at SJGS scientific talks in 2017-2018.



PAYZONE INC.

Geological, Geophysical, and Petrophysical Consulting Services for the Petroleum Industry 661-387-1715

- Accurate, consistent fieldwide reservoir properties for modeling, OIP, and improved heat management in thermal projects
- Old E-Log interpretation

- Image log interpretation and integration with petrophysical analysis
- 2D/3D seismic interpretation, expertise in old 2D data
- "Mystery logs" and other difficult log problems

Our petrophysical models for siliceous shales and California sands are based on over 30 years of experience with these rocks, including core, log, and lithology data from every basin in the state

Deborah Olson, President
dmolson@payzoneinc.com
661-747-0375

Have a log question? Give us a call!

www.payzoneinc.com

Tom Howard, Image Analyst
tomh@payzoneinc.com
832-407-2862

ROCK SOLID EXPERIENCE



Core Lab
RESERVOIR OPTIMIZATION

www.corelab.com
661-325-5657

© 2013 Core Laboratories.
All rights reserved.

2017-2018 Officers

President Mike Nelson
805-535-2058
mnelson@dcorllc.com
president@psaapg.org

President-Elect Richard Behl
562-985-5850
Richard.Behl@csulb.edu
president-elect@psaapg.org

Vice President Mike Clark
661-378-8134
rocksniffer@aol.com
vicepresident@psaapg.org

Secretary Timothy Gross
562-624-3581
Timothy.Gross@crc.com
secretary@psaapg.org

Treasurer 2017-2018 Simmie Chehal
661- 665-5738
SKChehal@aeraenergy.com
treasurer@psaapg.org

Treasurer Elect 2017-2018 Lisa A. Alpert
661- 665-5557
laalpert@aeraenergy.com
treasurer@psaapg.org

Past President Robert Horton
661-599-7380
rhorton@csu.edu

Editor-in-Chief 2017-2018 Vaughn G. Thompson
661-583-5784
vthompson@carbonnaturalgas.com
editor@psaapg.org

Staff

Web Master Taylor Carrasco
562-624-3259
Taylor.Carrasco@crc.com

Membership Chair Greg Thompson
661-364-3052
greg.thompsn@gmail.com

Publications Chair Larry Knauer
661-205-4463
laknauer@aol.com

Advisory Council Representative Tony Reid
2015-2018 661-412-5467
Tony.Reid@crc.com

5	President's Message •	<i>Mike Nelson</i>
6	Editor's Corner •	<i>Vaughn G. Thompson</i>
7	Convention •	<i>Post Convention Summary</i>
9-11	Convention •	<i>Honors and Awards</i>
12-15	Convention •	<i>Some Fun!</i>
16-19	PSAAPG Election •	<i>Officer Candidates</i>
23-26	Member Society News •	

COVER PHOTO: Mr. Kurt Neher, embracing geologic fundamentals and getting back to the rocks. Outcrop is the Stanley Mountain Ophiolite visited on the Structure of the Northwestern Transverse Ranges and Southeastern Coast Ranges led by Thom Davis.

"Geologists on the whole are inconsistent drivers. When a roadcut presents itself, they tend to lurch and weave. To them, the roadcut is a portal, a fragment of a regional story, a proscenium arch that leads their imaginations into the earth and through the surrounding terrene."

— John McPhee, *Annals of the Former World*.

- CONTACT THE EDITOR at editor@PSAAPG.org
- Images (graphics, photos, and scans) must be at least 300 dpi resolution. Text should be at least 600 dpi.
- Scanned photos, illustrations (line art) or logos should preferably be submitted as a .tif, .gif, or .bmp; .jpeg is OK.

Advertising Rates

<i>Members</i>	<i>Single Issue</i>	<i>Year (6 issues)</i>
<i>Full Page</i>	\$200.00	\$800.00
<i>Half Page</i>	\$125.00	\$525.00
<i>Quarter Page</i>	\$75.00	\$325.00
<i>Business Card</i>		\$125.00

2018 Advertisements reduced price by 50%
due to drastic drop in oil prices

Societies Free Advertising:

Convention: Unlimited Space in PSAAPG Newsletter
Societies: 1/4 Page in AAPG Explorer

93rd Annual Pacific Section Convention

THANK YOU TO OUR SPONSORS

Platinum Sponsors



Silver Sponsors



Bronze Sponsors



Patron Sponsors



THE HOPPS GROUP
at Morgan Stanley



Rancho Energy Consultants, Inc.



EnviroTech
Consultants, Inc.



SANDE OIL FIELD
GEOLOGY



Petroleum Geophysicists, Inc.

MACPHERSON
POWERING THE FUTURE

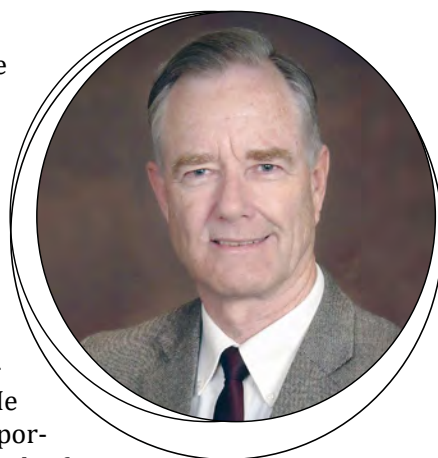
Dear Pacific Section AAPG Members,

The 2018 PSAAPG Convention just concluded in Bakersfield in April with 300 in attendance. This exceeded our expectations by 50! Credit goes to an outstanding convention team led by Convention General Chair Becca Schempp. They put together an excellent convention program of oral and poster sessions, short courses, field trips, honors and awards, luncheons, and guest speakers. On behalf of the Pacific Section, I extend our deepest appreciation to Becca and all of the volunteers who worked hard to make the 2018 Convention a success!!

AAPG President Charles Sternbach journeyed from Houston to Bakersfield to give the keynote address at the All-Convention Luncheon. He spoke of the resurgence in U.S. oil production because of the rise in shale production in super basins like the Permian (Sprayberry, Wolfcamp, Bone Spring), Williston (Bakken), Appalachian (Marcellus), and Western Gulf (Eagle Ford). Horizontal drilling and fracking technology has made the development of shales possible, a completely new paradigm for geoscientists working in the oil and gas industry. California has its own super basin in the San Joaquin Basin but its potential as a shale resource play is yet to be fulfilled. Some of you who are early in your careers have the opportunity to bring forward new ideas, interpretations, and technologies to develop the Monterey and other source rocks into genuine resource plays in California. The complexities of the Monterey formation including its lithologic variation and diverse fracture networks are a great challenge to extracting more oil from this prolific source rock with horizontal drilling.

The convention presented an excellent panel of Monterey experts who discussed the problems with developing the Monterey as a resource play. I think that sharing of information in this way can build a foundation for innovative future work and breakthroughs in thinking about the extraction of more oil from California reservoirs and source rocks. The annual convention is the best setting for this information exchange to occur. I always find that the technical presentations made at the convention motivate me to think more professionally and creatively about geoscience work I do throughout the year. Most of us in California are doing development work in conventional reservoirs in legacy fields. We need the technical information exchange at the convention in order to improve our ability to drill successful wells and reverse the normal decline in field production. Without regular exposure to a full spectrum of current technical work by fellow industry professionals, we stagnate and fall into a narrowed path of petroleum geoscience focus instead of continually innovating.

Ken Hunter III spoke at the Division of Professional Affairs luncheon at the convention. He is a third generation California oil man and has built a number of successful oil and gas companies including Vaquero Energy. He



spoke about the importance of risk-taking in the formation and growth of his companies. He described the appropriate level of risk as being that “funny feeling you get in your stomach” when you are about to commit to a venture whose outcome is uncertain. Ours is a risk-taking business and he expressed what most of us have felt at certain times. We do all of the analysis possible to reduce the risk in a project but there still remains considerable uncertainty. We are at that “funny feeling” moment. Sometimes the reward is great enough to go forward, and sometimes not. That is the oil and gas business.

Our profession has been instrumental in raising the standard of living for billions of people around the planet. As geoscientists, we have applied our knowledge and skills to develop oil and gas resources on a vast scale. The result is plentiful energy that supports the economy of the world. It is a remarkable achievement considering that Colonel Drake drilled his first oil well in Oil Creek, Pennsylvania, just 159 years ago. Next year, the oil industry will produce 100 million barrels of oil per day for the first time. Yet, one of the world's greatest problems is energy poverty. The number of people who rely on wood, coal, and dung for heating and cooking is staggering – 2.8 billion. Our industry can help change that by finding more oil and gas resources that will benefit the impoverished of the world. It has already done that for part of the planet and today we call that the First World, where we live. The Third World deserves the same.

This is my last column in the Pacific Section Newsletter; my term as president will end on June 30. It has been my privilege to serve the membership of the PSAAPG and work with an outstanding Executive Committee and Convention Committee. You should know that these volunteer officers donate many hours to keep Pacific Section functioning! They deserve our appreciation and thanks.

I look forward to staying in touch with the many fine people of the PSAAPG. God bless you all.

Mike Nelson

Dear friends and colleagues,

I edited my first PPG in September 2014. By January 2015, oil was around US\$50/bbl before diving to its most destructive collapse in February 2016, where WTI fell to below US\$30/bbl.

In January 2015, Past President John Williams wrote: "WOW, the Oil War is now raging! In just the past few months, orchestrated global overproduction has created a market glut. The glut has driven prices down below \$50 from over \$100/barrel. American Petroleum Geologists have done a great job finding oil. Now, we are temporally vulnerable because of too much good work. In just 8 years, USA has gone from a mantra of 'Peak Oil' – that claimed oil is finished -- to an oil war that will force a slowdown, impacting the whole economy.



Almost a year later, then PSAAPG President, Kurt Neher wrote in September 2015: "We watched as the price of oil collapsed midyear 2014 causing a plunge in the number of working rigs in our Section. Many of us remember the price drop in 2008; fewer remember the 1998 dip or the crash of the mid 1980's. Drilling is the lifeblood for so many of us, and it has been painful to watch the rig count decline as far as it has in the past six months. Nobody knows what the future holds, but it appears that our industry is planning for a period of sustained lower oil and gas prices".

Then in September 2016, PSAAPG President Bob Horton wrote of the Annual Convention: "Notably, attendees seemed to be very upbeat in spite of the hard times that our profession has been experiencing. It was very encouraging to see the level of optimism being exhibited, and everyone I ran into seemed very satisfied with the meeting".

Yet another year later, and the in-coming PSAAPG President, Mike Nelson wrote in July 2017: "The level of investment in conventional non-shale production has dropped to very low levels. That means that there will eventually be substantial shortfalls in conventional oil production that probably cannot be sufficiently offset by shale production. If the market re-balances by 2019 or 2020, oil prices will rise, and our industry will see a recovery. We all would like to see the oil and gas industry return to healthy levels of activity, investment, and employment in the near future"!

From the time of Mike's note, to present, oil prices have steadily increased (THANKS by the way Mike!), and now, another year later, and oil price "chatter" seems to be at a four-year low. It feels like the past few months have seen a collective upbeat sentiment toward oil prices, and that collective wisdom makes me an optimist. I hope that the next time we speak of oil prices at PSAAPG, it will be via a rig count graph depicting an all-time high.

As I edit my last newsletter, all I can think of, is that it has been a proud four years serving as your Editor, and I take many life and career lessons away with me. Volunteering with such wonderful fellow Earth Scientists has been a deeply fulfilling experience.

Onwards and upwards,

Vaughn G. Thompson

"No Geologist worth anything is permanently bound to a desk or laboratory, but the charming notion that true science can only be based on unbiased observation of nature in the raw is mythology. Creative work, in geology and anywhere else, is interaction and synthesis: half-baked ideas from a bar room, rocks in the field, chains of thought from lonely walks, numbers squeezed from rocks in a laboratory, numbers from a calculator riveted to a desk, fancy equipment usually malfunctioning on expensive ships, cheap equipment in the human cranium, arguments before a road cut". Stephen Jay Gould.

Post Convention Summary

Embracing Geologic Fundamentals: Fueling Your Passion – I don't know about you, but our theme for our annual meeting still resonates, even a week post-convention. This year's joint PSAAPG, PS-SEPM, PCS-SEG meeting exceeded our expectations. More than 300 people attended the meeting in Bakersfield, CA. We had 23 sponsors and 20 exhibitors that were critical to the success of our convention. Thank you to each company, school, and agency that was a part of our 2018 convention.

The last time Bakersfield hosted a meeting was in 2014, just before the price of oil really crashed. A lot has changed in the past four years, especially within the local geologic community. So, it was wonderful to see familiar faces of friends, colleagues, and students in the exhibit hall, presenting, and in the audience of the sessions.



All Convention Speaker AAPG President Charles Sternbach delivered a wonderful talk about the Super Basins, which was a nice set up for the first ever PSAAPG Panel Discussion. This is a new addition to our technical program. This year's theme was Rediscovering the Monterey Formation: What is the Next Breakthrough? Panelists Rick Behl, Bryan Bell, Allegra Hosford-Scheirer, and Dan Schwartz were diverse and passionate about their work in the Monterey Formation. Moderator Kurt Neher did an excellent job moderating the panel. He set up the discussion with figures showing production by state over the last few years, highlighting the fact that California is not growing at the same rate of the other states. It's rare to have a discussion with that many geologists in one room- without total chaos ensuing. Kuddos to Kurt for keeping order!

Strategic planning ensured success for the field trips and short courses this year. We ran three field trips (one Saturday, one Sunday, and one Wednesday). Thank you to the field trip leaders for volunteering your time to share the field with our geologists. We also had two short courses Wednesday and Thursday post-convention. Thank you to the short course instructors for bringing (and condensing) industry level courses to our convention.

Our technical program included 49 oral sessions, 20 posters, and the afternoon Monterey Panel Discussion. Thank you to everyone that submitted an abstract. It's impossible to have a technical program without people willing share their science, struggles, and successes. These conventions allow knowledge sharing that is difficult to find otherwise. Thank you to the Technical Program Chairs and all the Session Chairs for all your time and effort planning and executing the 2018 outstanding program.

Students contributed much to the success of the convention. They volunteered their time to help with field trips, short courses, and helped in the speaker and judge prep room by handing our materials, loading presentations, and more. Monday afternoon was the Student Q&A panel, another event that has become key to our conventions. Ten Students from CSU Bakersfield and CSU Fresno were awarded the Martin Van Couvering Award at the All Convention Luncheon. Students also contributed to the technical program in almost every session (both oral and posters). Thank you to those that donated to the "support a student fund" we were able to cover the registration costs for the convention, short courses, and field trips for the students that volunteered with your generous assistances.

The convention committee and I are so thankful to everyone that attended the convention and hope that you left reignited for our industry and our science.

Becca Schempp

2018 PSAAPG General Chair

2018 PSAAPG NEWSLETTER has gone DIGITAL!

In a continual effort to reduce overhead and provide meaningful programs to our membership and the community, PSAAPG have decided to go DIGITAL. For those members still wanting hard copies of the newsletter, please email greg.thompsn@gmail.com or write to us at Pacific Section AAPG, P.O. Box 1072, Bakersfield, CA, 93302.

PSAAPG Membership Directory

The PSAAPG website will have a members-only password-protected membership directory available on March 1, 2018. Please email greg.thompsn@gmail.com if you do not want your name listed. There will also be a checkbox for this on the PSAAPG membership renewal form that goes out before the end of this year.

MUNGER MAP BOOKS

The CA Well Sample Repository is seeking donations of MUNGER MAP BOOKS. The collection is incomplete, so any donations would be kindly appreciated!!! Please contact Larry Knauer at laknauer@aol.com

GREGORY GEOLOGICAL SERVICES

Glenn J. Gregory

Calif. Prof. Geol. #3676

8804 O'Meara Ct.
Bakersfield, CA 93311

(661) 747-5065

glenng@bak.rr.com

H. Victor Church Memorial Award

The H. Victor Church Memorial Award is given by the Pacific Section American Association of Petroleum Geologists in recognition of the best poster presented at the annual Pacific Section meeting. The H. Victor Church Memorial Award was established as the result of individuals wanting to build a lasting memorial to the technical prowess of Dr. H. Victor Church. The focus of the award is on creative thinking toward new ideas in exploration, development geology, or foundational geology. Peers judge the posters at each session and scores are compiled and reviewed by the convention judging committee to determine the overall winner.

The Award is a beautiful walnut plaque with a brass seal of the Association and a large brass plate engraved with the name of the award, the name of the Section meeting and the name of the author whose poster is judged best. The presentation of the Award will be at the 2017 Pacific Section AAPG Annual Meeting in Anchorage, Alaska.

The winner of the Best Poster presented at the Pacific Section AAPG Annual Meeting in Anchorage, AK, May 21-24, 2017 is **Robert J. Gillis**, Geologist, Energy Resources, Alaska DNR Division of Geological and Geophysical Surveys, Fairbanks, AK. The Poster is entitled "*Results of 1:63,360-scale geologic mapping and related field studies in the south-central Tyonek Quadrangle, Alaska: Late Paleocene?-middle Eocene transtension and post-Oligocene inversion on the northwest periphery of the Cook Inlet forearc basin.*" The co-authors are David L. LePain, Trystan M. Herriot, Marwan A. Wartes PhD, Paul L. Decker, Diane P. Shellenbaum, Jeffrey A. Benowitz PhD, and Paul B. O'Sullivan PhD.

A. I. Levorsen Memorial Award

The A. I. Levorsen Memorial Award is given by the national American Association of Petroleum Geologists in recognition of the best paper presented at each AAPG section meeting, with particular emphasis on creative thinking toward new ideas in exploration and developmental geology. AAPG members who volunteer their time at each meeting judge the papers in each session. The session scores are compiled and reviewed by the convention judging committee to determine the overall winner.

The Award is a diamond shape crystal displaying the AAPG emblem and Section name. The crystal is mounted on a wood base with a gold plate inscribed with the recipient's name, year, and name of the award winning paper. The award was established as the result of contributions from many individuals and societies who wished to contribute to a lasting memorial to A. I. Levorsen.

The winner of the Best Oral Presentation of a Paper given at the Pacific Section AAPG Annual Meeting in Anchorage, AK, May 21-24, 2017 is **Paul G. Lillis PhD**, Petroleum Geochemist, USGS, Denver, CO. The paper is entitled "*Are Tertiary coals from central and southern Alaska sources for oil?*". The co-authors are Michael D. Lewan, Richard G. Stanley, David L. LePain and Marwan A. Wartes PhD.

Young Professional Distinguished Service Award

The YP Distinguished Service Award was defined and proposed by the Section's Executive Committee in 2014. It will be first presented at the Section's Annual Meeting in Oxnard, CA in 2015. The award is bestowed upon practicing petroleum geologists who are under 35 years of age or who have been employed as a petroleum geologist for less than 10 years. The Honoree has volunteered and demonstrated excellence, enthusiastic participation, organization creativity, leadership and passion for the geological sciences.

This year the Section honors: **Plamen N. Ganev, PhD, Bakersfield, CA**
Shane M. Peterson, Bakersfield, CA



From left to right: Mike Nelson, Plamen Ganev, and Bob Lindblom.



From left to right: Mike Nelson, Shane Peterson, and Bob Lindblom.

Distinguished Service Award

The Distinguished Service Award was defined and proposed by the Section's Executive Committee and passed by the membership in 2002. It was first presented at the Section's annual meeting in Long Beach in 2003. The award is bestowed upon members "in recognition of singular and beneficial long-term service to the Section and or affiliated Societies. The term singular does not necessarily mean without precedent, But rather the activity is specific as distinguished from general service."

This year the Section honors: **Anne C. Draucker, Bakersfield, CA**
Monte D. Mabry, Anchorage, AK



From left to right: Mike Nelson, Anne Draucker, and Bob Lindblom.



Monte Mabry.

Distinguished Educator Award

The Distinguished Educator Award is given by Pacific Section in recognition of distinguished and outstanding contributions to geological education and counseling of students.

This year the Section honors:

Dirk Baron, PhD
Cal State University - Bakersfield, CA

*From left to right:
Mike Nelson, Dirk Baron, and Bob Lindblom.*



Honorary Life Membership

Honorary Life Membership is Pacific Section's highest honor. It is bestowed upon members who have distinguished themselves by their contributions and devotion to the science and profession of petroleum geology and by outstanding service to the Pacific Section.

This year the Section honors: **Scott T. Hector, Rio Vista, CA**
John T. Williams, Ventura, CA



*From left to right: Mike Nelson, Scott Hector,
and Bob Lindblom.*



*From left to right: Mike Nelson, John Williams,
and Bob Lindblom.*

Photo credits to the one & only BRIAN PITTS!



Three oil finders are we. Our great friends, Tom Hopps, Allegra Hosford Scheirer, and Kurt Neher.



CSUB student volunteers and CA Well Sample Repository friends, Samuel McKinny, Jeff Buehler, Scott Jones, and Mena Moerike.



Mr. John Minch, PSAAPG Honorary Life Member, Past President, and author of the popular and informative Roadside Geology and Biology of Baja California, Mexico. A true PSAAPG Legend!



A happy family is where it all begins. Ryan and Becca Schempp with Becca's mom, Helen Lanners. An extraordinarily well orchestrated job Becca, thanks for all your effort, it certainly paid off!



The usual suspects can always be found in their usual seats. You don't need to look far. "With their four-dimensional minds, and in their interdisciplinary ultra verbal way, geologists can wiggle out of almost anything" (John McPhee) – Thanks for picking up the tab Larry!

From left to right: Larry Knauer, Scott Hector, Bob Lindblom, Mark Wilson, Vaughn Thompson, Stephen Testa, and Tom Hopps



Ring, ring. Who is it? Destiny?! Oh, Larry. I've been expecting your call. Yes, the rumors are true, I will be running for Vice President, Sections for AAPG! Donald Clarke, a household name amongst geologists in California, and a long serving member of our Society!



Oh hey Don, I didn't think you'd know it was me if I used my "silent" voice. Anyway, are the rumors true? Well that's great news, you have my vote! Larry Knauer, PSAAPG Orchestra Conductor and wearer of many hats. Thanks again Larry for your coaching and deep historical knowledge of PSAAPG!



Two great Californians. John Williams, Past President of PSAAPG, presents The DPA LUNCHEON Guest Speaker, Ken Hunter, with a token of gratitude for his excellent speech.



Another die-hard PSAAPG Extraordinaire, Lisa Alpert, keeping us all on track and on time!



A power Team. Charles Sternbach (President, AAPG), Jim Hill (President, DPA), and John Williams, (PSAAPG Past President, and current DPA Counselor).



Cheers to two wonderful ladies. This photo is a perfect metaphor for Cynthia Huggins Schwartz. She is always behind everything we do at PSAAPG, she is a Past President, loyal member, and continuous contributor. THANKS Cynthia! From left to right: Brian Pitts's hand, G&T, Cynthia Huggins, and Helen Lanners. P.S. 99.9% of Photo credits go to this gentleman – Thanks Brian for the wonderful and historical moments you capture!



Tom Hopps and Ariel Auffant. Don't let the photo fool you, these are both very tall men, literally and figuratively.



Kevin Weberling, Sacramento Basin Exploration and Development CO-Chair, and speaker with friend Emily Fisher, Oral Session Chair.



Greg Gordon (Fieldtrip Chair) discussing the San Joaquin Basin with Poster Presenter, Leo Giannetta.



2018 Awardees and Leadership. From left to right: Mike Nelson, Dirk Baron, Anne Draucker, Shane Peterson, Scott Hector, John Williams, Bob Lindblom, Plamen Ganey, and Charles Sternbach.



Frank Cressy, Author of From Weston To Creston, A Compendium of Witnessed US Meteorite Falls, 1807-2016. I hope you all had a chance to visit the PSAAPG Bookstore and inspect this excellent book!



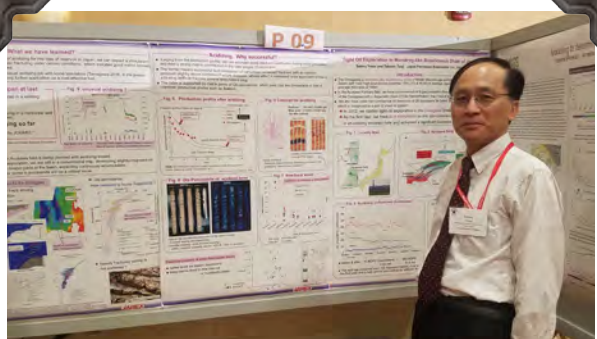
A familiar face and experienced PSAAPG leader, Tony Reid. Tony was the field trip co-leader for the Stratigraphy and Depositional Environments of The Tulare Formation, Elk Hills and Buena Vista Hills.



Tony Reid explains aspects of an outcrop of the upper member of the Tulare Formation at the Elk Hills field. He notes several beds, one to two feet thick, containing cross bedded sandstone with abundant light-gray opal CT porcelaneous clasts along foreset laminations.



The PANEL. The Special Panel Session: Current Understandings and Progress Made. Concerning the Monterey Formation and its storied life as a Source Rock, Reservoir, and record of The Miocene In California. Excellent topics and discussions, and a chance to visit with the experts, from left to right: Bryan Bell (BEST CORE SERVICES), Allegra Hosford Scheirer (Research Scientist, Stanford University), Richard Bell (President Elect, PSAAPG, and CSLB Professor Extraordinaire), and Daniel Schwartz (VP, Sections, AAPG and Senior Managing Partner at Black Fox Resources, LLC).



Satoru Yokoi of JapEx standing beside his thought provoking poster. Mr. Yokoi came all the way from Japan to show his work on fractured shales and volcanics.



Cheers! The smile that says a thousand words, and a photo that needs no caption. Ladies and gentlemen, Kay and Brian Pitts!

President-elect

Plamen Ganev, PhD



EDUCATION

- Anderson School of Business, University of California Los Angeles, MBA (Corp. Strategy and Finance), 2016
- University of Southern California, Los Angeles, Ph.D., Geology, 2011
- Whittier College, B.A., Geology and Economics, Summa Cum Laude, 2002

EMPLOYMENT

- 2016-Present, Strategic Planning and Portfolio Analyst, Aera Energy LLC, Bakersfield, CA
- 2015-2016, Strategic Business Development Geologist, Aera Energy LLC, Bakersfield, CA
- 2014-2015, Production Geologist, Aera Energy LLC, Bakersfield, CA
- 2011-2014, Exploration Geologist, Aera Energy LLC, Bakersfield, CA
- 2012, Adjunct Faculty, Geology Department, Santa Monica College, Santa Monica, CA

PRIOR SERVICE

- PSAAPG Young Professional Distinguished Service Award, 2018
- General Co-chair, PS-RMS AAPG Convention, Las Vegas, NV, 2016
- Membership Chair, PSAAPG., 2012-2014
- Committee Co-chair, Visiting Geoscientist Program, AAPG., 2012-2014
- Session Chair, AAPG ACE Meeting, Pittsburgh, PA., 2013
- Abstract Reviewer, AAPG ACE Meeting, Pittsburgh, PA., 2013
- Session Chair, AAPG ACE Meeting, Long Beach, CA., 2012
- Abstract Reviewer, AAPG ACE Meeting, Long Beach, CA., 2012
- Fieldtrip Leader, GSA Cordilleran/PSAAPG Annual Meeting, Anaheim, CA., 2010
- Grad Student Rep, Geology Department, University of Southern California, Los Angeles, CA., 2008-2009
- Student Body President, Whittier College, Whittier, CA., 2005
- Student Body Treasurer, Whittier College, Whittier, CA., 2004

Becca Shemp,



EDUCATION

- BS in Geology from California State University, Long Beach. 2010
- MS in Geology from California State University, Long Beach. 2013

EMPLOYMENT

- Geologist at California Resource Corporation: November 2014 – Present
- Geologist at Occidental Oil and Gas: 2013 – 2014
- Geoscience Specialist at Occidental Oil and Gas: 2011 – 2013
- Geotechnical Intern at Occidental Oil and Gas: 2009 - 2011

PRIOR SERVICE

- General Chair, PSAAPG Convention, Bakersfield, CA 2018
- Student Chapter Committee, PSAAPG: 2013-Current
- Secretary, Pacific Section AAPG: 2016-2017
- PSAAPG Young Professional Distinguished Service Award, 2015
- Secretary, Pacific Section AAPG: 2011-2013
- Secretary, Los Angeles Basin Geological Society: 2009-2011

Vice president

Mike Clark, PhD



EDUCATION

- Colorado School of Mines, Ph.D, Geology, 1991
- University of Calif at Davis, M.S., Geology, 1979
- University of Calif at Santa Cruz, B.S., Earth Science, 1975

EMPLOYMENT

- 2015 – present, Geologist, Aera Energy
- 2005- 2015, Consulting Petroleum Geologist, with DeGolyer & MacNaughton and Oxy, USA
- 1998-2005 Staff geologist, CHEVRON North America, Bakersfield, CA
- 1991-1998 Senior geologist, ARCO Western Energy, Bakersfield, CA
- 1990-1991 Research geologist, EXXON, Houston, TX and ELF AQUITAINE, Pau, France
- 1987-1990 Teaching assistant and Consultant, Colorado School of Mines, Golden, CO
- 1980-1986 Senior geologist, AMOCO Production Co., Denver, CO

PRIOR SERVICE

- 1992-Present, Board of Governors, California Well Sample Repository
- 1993-2000, Several offices of San Joaquin Geological Society, including President
- 1996-2004, Oil Museum Advisory Committee of Kern County Museum Foundation
- 1997-2003, House of Delegates, American Association of Petroleum Geologists (AAPG)
- 2000 & 2004, Vic Church Best Poster & Levorsen Best Paper Awards, Pacific Section-AAPG.
- 2005-2006, Vice-President of Pacific Section-AAPG.
- 2006, Distinguished Service Award, Pacific Section-AAPG.

Tom Howard



EDUCATION

- University of California, Berkeley, B.A., Earth Science, 1983

EMPLOYMENT

- 2009 - Present, Co-Owner, Principal Image Log Analyst and Manager Image Log group, PayZone Inc., Bakersfield, CA
- 2008-2009, Senior Geoscientist / Image Log Analyst, Baker Atlas, Houston, TX
- 2005-2008, Senior Image Log Analyst, Halliburton, Oklahoma City, OK and Houston, TX
- 2001-2005, Wireline Engineer, welenco, and Pacific Surveys, CA
- 1999-2001, Contract Project Geologist
- 1997-1999, Wireline Engineer, NUMAR, Houston TX
- 1996-1997, Wireline Engineer and Project Geologist, Beylik Drilling, Sacramento, CA and Guam
- 1986-1996, Project Geologist, Various Environmental Consulting Companies, CA
- 1983-1985, Wellsite Geologist, Fenix and Scisson, NTS, Mercury, NV

PRIOR SERVICE

- 2009 – Present, various one-day short courses, field trip, lectures, presentations at society meetings, session chair/co-chair, presentation judge
- 2017 Invited Lecturer (Working with Ancient Electric Logs), Petroleum Engineering 461, University of Southern California
- 2011-2016, Vice President and President of the San Joaquin Well Logging Society (Bakersfield, CA chapter of the Society of Petrophysicists and Well Log Analysts)
- 2015 Co-Chairman of the Annual SPWLA symposium, held in Long Beach
- 2008 Co-recipient PSAAPG H. Victor Church Memorial award (with Lockman and Elliott)

Secretary

Jlynn Bowen



EDUCATION

- CSU Bakersfield, B.S. Geology, Magna Cum Laude, 2009, Outstanding Graduating Senior
- Bakersfield College, A.A., Magna Cum Laude, 2007

EMPLOYMENT

- Aera Energy LLC, Technical Analyst - 2017 - Present
- Aera Energy LLC, Geoscience Technician - 2010 - 2017
- Select Resources Corporation, Geologist - 2009-2010
- Kern County Water Agency - Geologist Intern -2008

PRIOR SERVICE

- 2018 PS AAPG Convention Judging Chair
- 2016 PS AAPG Convention Poster Judge
- 2013, 2016, 2017, 2018 AAPG Imperial Barrel Award Volunteer
- AAPG member since 2008

Logan Prosser



EDUCATION

- BS Geology, California State University, Bakersfield, 2013

EMPLOYMENT

- BSK Associates, Geologist, 2014 - Present
- CSU Bakersfield, Student Researcher, 2012 - 2014

PRIOR SERVICE

- AAPG Member since 2011

Treasurer-elect

Simmie Chehal



EDUCATION

- M.S. Geology, CSU Northridge, 2014
- GIS Graduate Certificate, SFSU, 2012
- B.S. Environmental Resource Management, CSU Bakersfield, 2011
- B.S. Geology, CSU Bakersfield, 2011

EMPLOYMENT

- Geologist, Aera Energy LLC, Bakersfield, CA (current)
- Teaching Associate, CSU Northridge, Northridge, CA (2012-2013)
- Intern, DOE, Berkeley, CA (2011-2012)

PRIOR SERVICE

- PSAAPG Treasurer (2017-2018)
- PSAAPG Treasurer Elect (2016-2017)
- My volunteer work has primarily focused on encouraging students to study earth science through Aera's Ambassador Program, the Quest in Science program in Northridge, CA and currently as a mentor to high school students in Bakersfield, CA.

Editor-In-Chief

Brandi Johnson



EDUCATION

- San Diego State University, M.S. Geology, 2014
- Imperial Barrel Award Program, 3rd place in Pacific Region, 2013
- San Diego State University, B.A. Graphic Design, 2007

EMPLOYMENT

- 2015 - Present: Development Geologist, Chevron, Bakersfield, CA
- Summer 2014: Geologist Intern, Chevron, Bakersfield, CA
- Summer 2013: Geoscientist Intern, ExxonMobil, Houston, TX
- 2012-2014: Lead Teaching Associate, SDSU, San Diego, CA
- 2009-2011: Letterbrush Artist, San Diego Zoo Safari Park, San Diego, CA
- 2007-2008: Graphic Designer, Jack in the Box, Inc., San Diego, CA

PRIOR SERVICE

- 2018: PS AAPG Convention Committee
- 2015-2018: PS AAPG Young Professionals Lead
- 2014: President of SDSU Student Chapter of AAPG
- 2013: Vice President of SDSU Associated Geology Students
- 2006: Vice President American Institute of Graphic Arts, Student Chapter

Courtney Marshall



EDUCATION

- California State University, Long Beach, M.S. Geology, 2010
- California State University, Long Beach, B.S. Geology, 2008

EMPLOYMENT

- 2010-present, Geologist, Occidental Petroleum, California Resources Corporation

PRIOR SERVICE

- 2015, Vice President, SJGS
- 2014, Short Course Chair, PSAAPG
- 2015, Field Trip Chair, PSAAPG
- 2013, Poster Session Technical Chair, PSAAPG

Marty Hall
Program Development Manager
Multi-Client Services


7765 Windwood Way
P.O. Box 549
Parker, CO 80134
USA

P: 720 851.6152
C: 303 885.8860

 geokinetics.com

marty.hall@geokinetics.com

Geolog



GEOLOGICAL LOGGING INC.
9229 Beatty Drive, Suite B
Sacramento, CA 95826
(916) 452-9570 Tel
(408) 307-4653 Cell
(916) 452-9573 Fax
david@geologinc.net

DAVID BURROUGHS
President

www.geologinc.net

(Continued on next page)

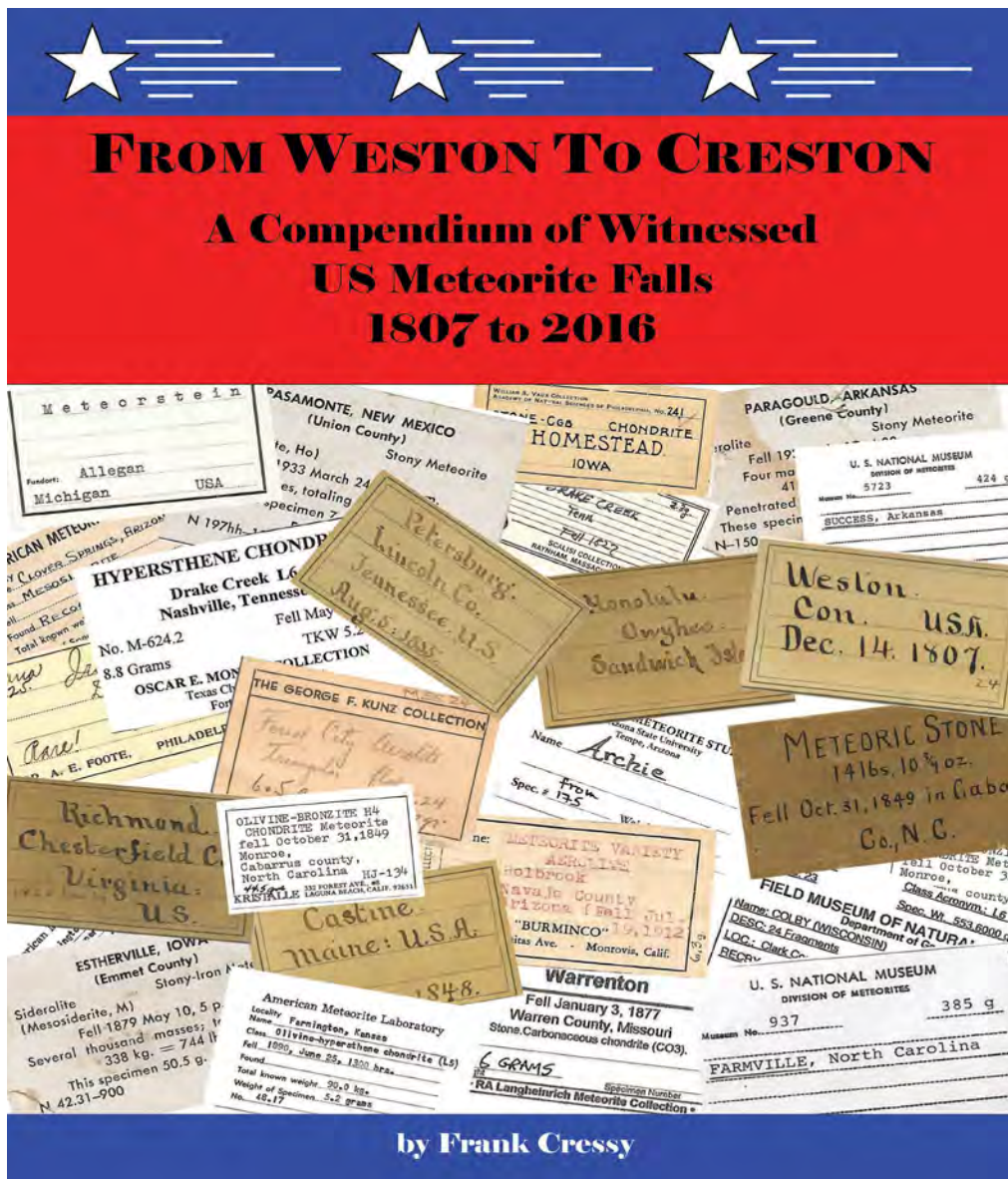
New Publication

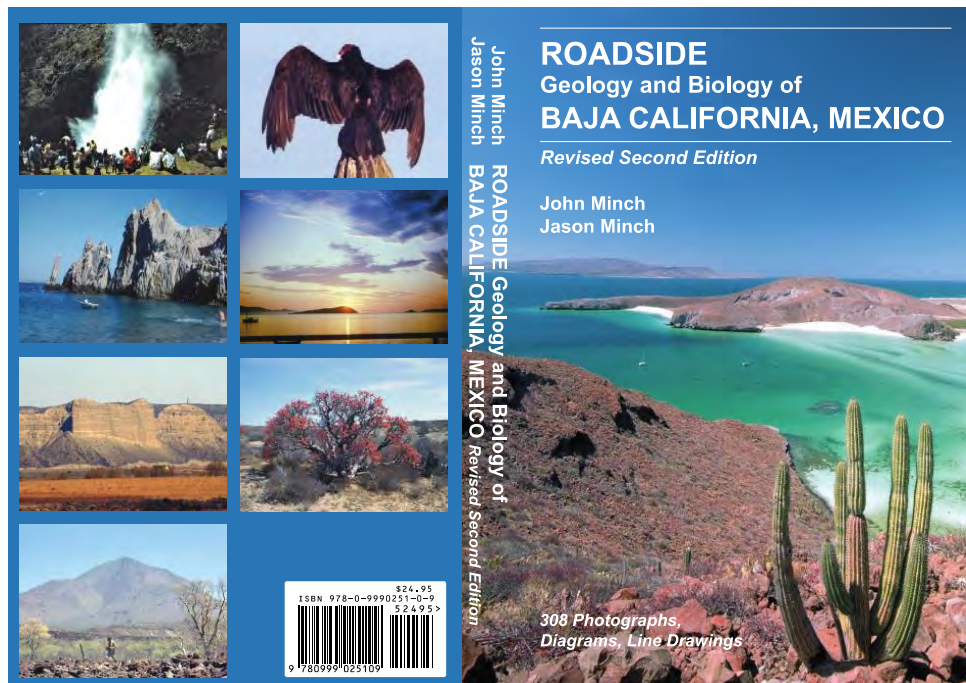
"FROM WESTON TO CRESTON – A Compendium of Witnessed US Meteorite Falls – 1807 to 2016"

by Frank Cressy

The violent display of blazing light and explosive sounds ending with meteorites crashing to the ground is an unforgettable event to those who witness it firsthand. This book summarizes the fall histories of nearly 170 witnessed meteorite falls that have occurred in the United States since the first documented fall at Weston, Connecticut in 1807. It is written not only for the collector of these rare objects, but also for those interested in the history and the growth of the branch of science known as Meteoritics. The accounts of the fall phenomena and recoveries associated with these extraordinary events are the focus of the book. However, the book is more. The reader will learn about those individuals responsible for the growth of the science and their contributions, together with interesting facts and coincidences about these visitors from space; 257 pages with over 300 color photos plus maps, figures and illustrations.

Soft Cover books \$36.00; for ordering, contact: fcressy@prodigy.net





Roadside Geology and Biology of Baja California

John Minch and Jason Minch

Second Edition, completely updated and revised - Over 300 color photos, sketches, and drawings, 6x9, full color, 288 pages, Includes Rock charts, Geologic time scale, References, Glossary, Index

**Introductory Meeting Sale Price
\$20 cash**

or check made out to "John Minch Publishing"

**To order additional copies remit \$25+\$2 CA tax+\$3 shipping to:
John Minch Publishing, 27441 Betanzos. Mission Viejo CA 92692
jmainc@earthlink.net**

HOME MOVIES TO DVD,
PHOTO GIFTS, RESTORATIONS
& MORE

digital creations

1705 20th St.
(661) 322-5552
digitalcr1@gmail.com

 like us on facebook
digitalcreations.bakersfield

Retirement Planning
College Savings Plans
Financial Planning

Morgan Stanley

The Hopps Group Lydia Hopps & Benjamin Hopps CFP®

Investment Management Consultant
Senior Vice President
Financial Advisor
300 Esplanade Dr., 10th Floor
Oxnard, CA 93036
1 805 278-3609

www.morganstanleyfa.com/thehoppsgroup/

© 2014 Morgan Stanley Smith Barney LLC. Member SIPC.
CRC897562 03/14



California Well Sample Repository

Our 60+ Volunteers



Our Volunteers curate material from Superior Oil Company's collection from the early 1930's.



Step 1



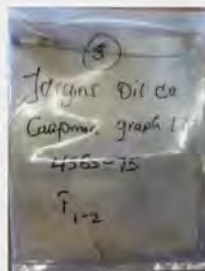
Wooden Crates with Samples

Step 2



Samples in Paper Bags from 1920's

Step 3



Samples Transferred into Plastic Bags

Step 4



Plastic Bags Placed into Boxes

Step 5



Boxes Placed on Shelf



Dr. Victor Church Memorial

The only facility in California providing permanent storage and public use of cores, sidewall samples, drill cuttings, outcrop samples, microfaunal slides, foundation borings, and mineral suites.



**The Repository is open on
Mondays 7am-2pm
Tuesdays 7am-9am
Wednesdays 7am-2pm
Thursdays 7am-9am.**

Visit us on the web at www.wellsample.com or call (661) 654-2324 for more information.

Alaska Geological Society

May 15th, 2018.

Speaker: Dr. Erin Shea, University of Alaska, Anchorage.

Talk: TBA

Summer break. Talks to resume in September, 2018.

Coast Geological Society

May 15th, 2018.

Speaker: Joseph Saenz, Engineering Lead, Heavy Construction IPT, Naval Facilities and Expeditionary Warfare Center.

Talk: "23 Years of Historic Hydrocarbon Seep Studies in Santa Maria Basin, Offshore California Using Seismic and Stratigraphic Data (1995 through 2018)".

Summer break. Talks to resume in September, 2018.

L.A. Basin Geological Society

May 24th, 2018.

Speaker: Ms. Sherilyn Williams-Stroud, President/CEO of Confractus, Inc.

Talk: "A Geological Approach to Seismicity b-values: Implications for Hazard Assessment."

June 28th, 2018.

Speaker: Mr. Thomas L. Davis, President/Director of Geologic Maps Foundation, Inc.

Talk: "Fault Displacement Hazards at Aliso Canyon and Honor Rancho Natural Gas Storage Fields, Southern California, USA."

Summer break. Talks to resume in September, 2018.

Northern California Geological Society

May 30th, 2018.

Speaker: Dr. Isabel Montanez, UC Davis and President - Geological Society of America.

Talk: "Reconstructing precipitation patterns in California during past warmings and coolings of the last 20,000 years".

June 27th, 2018.

Speaker: Dr. Janet Watt, USGS Research Geophysicist.

Talk: "Underwater Secrets of the Hayward Fault Zone: Integrated 3D imaging to understand earthquake hazards".

Summer break. Talks to resume in September, 2018.

September 26th, 2018.

Speaker: Dr. Artie Rodgers, Lawrence Livermore National Laboratory.

Talk: "High-performance computing ground motion simulations of large, damaging Hayward Fault scenario and moderate earthquakes in the USGS 3D model of the San Francisco Bay Area".

Northwest Energy Association

May 17th, 2018.

Talk: "Energy-related thesis presentations by Portland State Graduate Students".

Summer break. Talks to resume in September, 2018.

Sacramento Petroleum Association

May 16th, 2018.

Speaker: Victoria Langenheim, USGS.

Talk: "What Lies Beneath Sacramento Valley - Potential Insights from Potential Field Data".

Summer break. Talks to resume in September, 2018.

San Joaquin Geological Society

May 8th, 2018.

Speaker: Dr. Katie Stack Morgan, Jet Propulsion Laboratory.

Talk: "Exploring the evolution of an ancient lake basin on Mars with the Curiosity rover".

June 12th, 2018.

Speaker: Eldon Gath, President, Earth Consultants International.

Talk: "Paleoseismology of the Western Garlock Fault at Campo Teresa, Tejon Ranch, Southern California".

Summer break. Talks to resume in September, 2018.

Alaska Geological Society
www.alaskageology.org

P. O. Box 101288
Anchorage, AK 99510

Contact: Dave Buthman
dbuthman@hilcorp.com



Geology meetings/talks 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 am to 1:00 pm. Open To The Public. No Charge to Attend.

President:	Larry Smith	ljsmith@gci.net
President-Elect:	Greg DuBois	
Vice-President:	Keith Torrance	keith.torrance@uicurniaq.com
Secretary:	David Buthman	dbuthman@hilcorp.com
Treasurer:	Carla Sanchez Phelps	carlasphelps@gmail.com
Past-President:	Chad Hults	chadcph@gmail.com

Coast Geological Society
www.coastgeologicalsociety.org

P. O. Box 3055
Ventura, CA 93006

Contact: Theresa Heirshberg
805-443-7641



Dinner meetings are held monthly September through May, on the third Tuesday of the month, at 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). For reservations, please email Shelby Fredrickson (secretary@coastgeologicalsociety.org), and should be made by 4:00 p.m. on the Friday before the meeting.

President:	Theresa Heirshberg	president@coastgeologicalsociety.org
Past President:	Alastair Haddow	pastpresident@coastgeologicalsociety.org
Vice President:	Eric White	vicepresident@coastgeologicalsociety.org
Secretary:	Shelby Fredrickson	secretary@coastgeologicalsociety.org
Treasurer:	Stacey Zeck-Boles	treasurer@coastgeologicalsociety.org
Membership chair:	Bonnie Walters	membership@coastgeologicalsociety.org
Webmaster/Tech Support:	John Rice	webmaster@coastgeologicalsociety.org

Los Angeles Basin Geological Society
www.labgs.org

Contact: Bert Vogler
949-585-3103



Luncheon meetings are held monthly September and October; and January through June, usually on the fourth Thursday of the month, 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 \$25 (with reservations), \$30 (without reservations), \$20 for retired members, and \$5 for students. "Reservations can be made online at www.labgs.org or by contacting Maia Davis at 530-559-1404 or maiac.davis@gmail.com. Reservations are best made prior to Tuesday before the meeting.

President:	Bert Vogler	hvogler@kleinfelder.com
Vice President	Nate Busch	nbusch@eecenvironmental.com
Treasurer:	Nicky White	nwhite@geomechanicstech.com
Secretary:	Maia Davis	maiac.davis@gmail.com
Scholarships:	Karla Tucker	ktkr2@aol.com
Webmaster	Ivan Aburto	Ivan.aburto@crc.com

Northern California Geological Society
www.ncgeolsoc.org

803 Orion #2
Hercules, CA 94547-1938

Contact: Barbara Matz
barbara.matz@cbifederalservices.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, contact Dan Day at danday94@pacbell.net before the meeting. Cost is \$5 per regular member; \$1 per student member; and \$1 per K-12 teachers.

(Continued on next page)

NCGS Officers:

President:	Greg Bartow	gregbartow@yahoo.com
President-elect:	open	open
Past President:	Will Schweller	willschweller@yahoo.com
Treasurer:	Barbara Matz	barbara.matz@cbifederalservices.com
Recording Secretary:	Crystal Replogle	ctreplogle@gmail.com
Membership Chair:	Tom Barry	tomasbarry@aol.com
Outreach Chair:	Mark Petrofsky	
Newsletter Editor:	Mark Sorensen	msorensen64@earthlink.net
Field Trip Coordinator:	Will Schweller	willschweller@yahoo.com
K - 12 & Geoscience Program Coordinator:		open
Scholarships:	Phil Garbutt	plgarbutt@comcast.net
Program chair:	John Karachewski	cageo@sbcglobal.net
Website Manager:	Mark Detterman	mdetter1@gmail.com

Northwest Energy Association

www.nwenergy.us

P. O. Box 6679

Portland, OR 97228-6679

Contact:

Jim Jackson or John Armentrout



Luncheon meetings are held monthly September through May, on the third Thursday of the month, at the Multnomah Athletic Club (1849 SW. Salmon Street) in Portland, Oregon. Meeting time is at 11:45 AM to 1:00 PM (speaker about 12:15 PM). The cost is \$25 for members and \$30 for non-members. For information or reservations email NWEnergyAssociation@gmail.com, or our Postal Box: Northwest Energy Association, P.O. Box 6679, Portland, Oregon 97228-6679.

President	Laird Thompson	lbtfracs@gmail.com
Vice-President	Steven Pappajohn	pappajohn@narpllc.com
Treasurer	Barb Portwood	bbportwood@gmail.com
Co-Treasurer	Jim Jackson	jackson.js@comcast.net
Secretary	Clark Niewendorp	clark.niewendorp@state.or.us

Sacramento Petroleum Association

P. O. Box 1844

Folsom, CA 95630

Contact: Pam Ceccarelli

916-439-0400



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.

President:	Jerry Reedy	JWR5532@aol.com
Vice-President:	Scott Hector	Scott.Hector@gmail.com
Secretary	Derek Jones	djones@gasbiz.com
Editor/Treasurer	Pam Ceccarelli	pc626@comcast.net

San Joaquin Geological Society

www.sanjoaquingeologicalsociety.org

P. O. Box 1056

Bakersfield, CA 93302

Contact: Lindsey Thompson

lthompson@envirotechteam.com



We have dinner meetings on the second Tuesday of the month, October through June, at the Eagle's Lodge at 1718 17th Street, Bakersfield, CA 93302. There is an icebreaker at 6:00 p.m., dinner at 7:00 p.m., and a talk at 8:00 p.m. Dinner is \$25 for members with reservations and \$30.00 for nonmembers and members without reservations. Students may attend for free.

President:	Cameron Campbell	cameron.campbell@conservation.ca.gov
Past President:	Greg Gordon	gsgordon@aeraenergy.com
President-Elect:	Jonathan Goodell	Jonathan.Goodell@crc.com
Vice-President:	Matt Andersen	MAndresen@aeraenergy.com
Secretary:	Lindsey Thompson	lthompson@envirotechteam.com
Treasurer:	Kathy Jennifer Prosser	jprosser@envirotechteam.com
Webmaster:	Ivan Aburto	Ivan.Aburto@crc.com



BEST CORE SERVICES

where BETTER became BEST

We Supply Quality Data with Quality Service

4031 Alken St Suite A1
Bakersfield, CA 93308

Bryan Bell: (661) 496-2654

Office: (661) 835-6001

NOW AVAILABLE

Anomalies

✦ **Pioneering Women in Petroleum Geology: 1917-2017**

To be released April 1, 2017, *Anomalies* represents a deep foraging into the unrealized and near lost history of women that began in 1917 their 100 year journey as petroleum geologists.

“Robbie Gries and her contributors have created a remarkable account of early women in petroleum geology. The book represents a “deep dive” into the lives, accomplishments, triumphs, and, even, terrors, of early women professionals. It displays impressive scholarship, and reflects four years’ efforts to source histories of these largely forgotten women professionals.

An astounding network of women professionals, formed by need, strengthened by time, constituting an amazing support system. Robbie has done an amazing, multi-year research effort in uncovering hundreds of early petroleum geologists, active in many countries, whose early efforts are now recorded for our belated appreciation.

A delightful, hopeful, sense of progress is conveyed by the book, as the intense survival stories of early women geologists, give way to a prideful modern acknowledgement of the importance of women petroleum geoscientists in our modern petroleum industry.

The book should be read by every petroleum geologist, geophysicist, and petroleum engineer; partly for the pleasure of the sprightly told adventures, partly for a sense of history, and, significantly, because it engenders a proper respect towards all women professionals, forging their unique way in a “man’s world”.

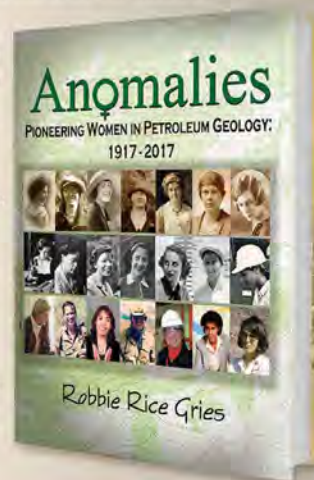
Buy this book! It will renew your pride in being a petroleum geologist, and it will enlighten you on the struggles of our wonderful women associates as they followed their professional dreams.”

– Marlan Downey, Past President of AAPG, CEO Roxanna Petroleum

“*Anomalies* celebrates the inspiring achievements of an intrepid group of pioneering women that have laid the groundwork for female geoscientists today. Robbie Gries provides an entertaining and informative narrative of 100 years of trailblazers that is enriched by excerpts from diaries, letters and interviews. The women in these pages were true scientific contributors and innovators at a time when women were just emerging into the growing field of petroleum geology. This is a must read for any historian of the oil patch, as it provides the only comprehensive record of the hidden history of these ground-breaking women.”

– Allyson Anderson Book,
Executive Director - American Geosciences
Institute

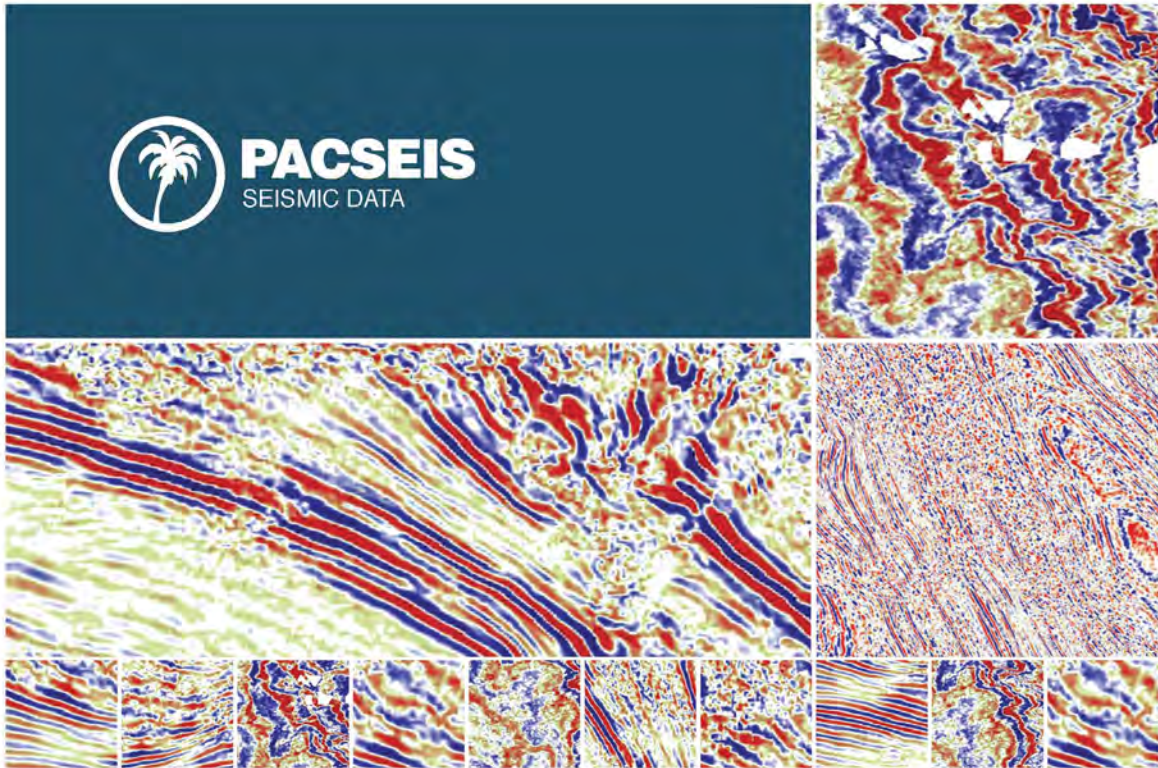
Once released, the book can be ordered from the AAPG Store for \$50 plus shipping and handling. Please e-mail publications@AAPG.org expressing your interest and we will contact you as soon as the book is available. Don't want to wait? Visit the AAPG Center at the 2017 ACE meeting to purchase your copy.





PACIFIC SECTION AAPG
P. O. Box 1072
BAKERSFIELD, CA 93302

PRESORTED
STANDARD
U.S. POSTAGE PAID
BAKERSFIELD, CA
PERMIT NO. 1163



PACIFIC SEISMIC COMPANY

The leader in subsurface information

RESOURCES THAT DELIVER THE DIFFERENCE

- One of the largest seismic databases available for license
- Seismic available for immediate license
Over 500,000 line miles of 2D data located in domestic United States (onshore & offshore)
- 2,500 square miles of 3D surveys

RECENTLY ACQUIRED SEISMIC DATABASES BY PACIFIC SEISMIC CO.

- Chevron USA California, OXY USA Nationwide (including Arco & Enron)
- Santa Fe energy, TXO, Cities Service Oil & Gas Nationwide
- Southern Pacific, PG&E/ NGC, SOHIO

PACIFIC SEISMIC COMPANY | Your Full-Service Seismic Brokerage & Acquisition Company

EXPLORATION CONSULTING

PROJECT DEVELOPMENT

Tel (661) 322-1171 | Fax (661) 322-1181 • www.pacseis.com | Bakersfield | Houston