

2014 Pacific Section AAPG – Joint Annual Meeting

A Century of Innovation – From Exploration to EOR

April 27-30, 2014

Bakersfield, CA





PSAAPG



PSAAPG

2014 PSAAPG - PSSEPM - PCSSEG Joint Annual Meeting A Century of Innovation - From Exploration to EOR

April 27-30, 2014

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Back Cover: Main Photo: <i>Wildflowers and Antelope Shale Near Maricopa, CA.</i> Photography by Stefano Mazzoni Inset Photo: <i>Kern River Field Wooden Derricks</i> Photography Courtesy of Chevron	

**CONFERENCE SCHEDULE****Bakersfield Marriott at the Convention Center**

TIME	EVENT	ROOM
SATURDAY 4/26		
8:00am & 9:00am	Field Trip Departures	Hotel Lobby
8:00am - 5:00pm	Basic Image Log Short Course	Hammons
8:00am - 5:00pm	Sequence Stratigraphy for Students	Kern River
3:00pm - 6:00pm	Registration	
SUNDAY 4/27		
7:00am - 5:30pm	Speaker Prep/Judges Room	Harvest
7:00am & 12:30pm	Field Trip Departures	Hotel Lobby
8:00am	Guest Field Trip Departures	Hotel Lobby
8:00am - 6:00pm	Registration	
8:00am - 5:00pm	Fracture Characterization Core Workshop	CoreLab, 3437 Landco Dr.
8:00am - 5:00pm	Sequence Stratigraphy for Students	Kern River
2:00pm - 6:00pm	Guest Hospitality	Hammons
3:30pm - 5:00pm	Spouse Wine Tasting/Concierge	
6:00pm - 8:00pm	Icebreaker in Exhibit Hall	Ballroom B,C,D
MONDAY 4/28		
7:00am - 7:45am	Speakers/Judges Breakfast	Harvest
8:00am - 5:00pm	Speaker/Judges Room	Harvest
7:30am - 5:00pm	Registration	
7:00am - 8:00am	AAPG-HoD Breakfast (invitation only)	Hammons
8:00am - 5:00pm	Guest Hospitality	Hammons
8:00am - 6:30pm	Exhibitors/Posters	Ballroom B,C,D
8:00am - 5:00pm	Technical Oral Sessions	Potato
8:00am - 5:00pm	Technical Oral Sessions	Truxtun
11:45am - 1:15pm	All Convention Luncheon	Ballroom A
4:00pm - 5:30pm	Student - YP Experts/Mentor Panel	Ballroom A
5:00pm - 6:30pm	Brew & Browse w/ Exhibitors	Ballroom B,C,D
TUESDAY 4/29		
7:00am - 8:00am	DPA Breakfast	Hammons
7:00am - 7:45am	Speakers/Judges Breakfast	Harvest
8:00am	Guest Field Trip Departure	Hotel Lobby



8:00am - 5:30pm	Speaker/Judges Room	Harvest
7:30am - 4:00pm	Registration	
8:00am - 11:30pm	Guest Hospitality	Hammons
8:00am - 5:00pm	Exhibitors/Posters	Ballroom B,C,D
8:00am - 5:00pm	Oral Technical Sessions	Potato
8:00am - 5:00pm	Oral Technical Sessions	Truxtun
11:45am - 1:15pm	Division Luncheon (DEG)	Ballroom A
11:45am - 1:15pm	Division Luncheon (DPA)	Breckenridge
4:30pm - 5:30pm	PS-AAPG Leadership Forum	Hammons
5:00pm - 6:30pm	Brew & Browse w/ Exhibitors	Ballroom B,C,D
5:00pm - 6:30pm	SEPM Reception	Potato
WEDNESDAY 4/30		
8:00am	Field Trip Departures	Hotel Lobby
1:00pm - 5:00pm	Siliciclastic Core Workshop	CoreLab, 3437 Landco Dr
THURSDAY 5/1		
7:00am & 8:00am	Field Trip Departures	Hotel Lobby
7:00am & 8:00am	Ancient E-Logs Short Course	Hammons



Credit: Harold Sullwold



SPONSORS

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LETTER FROM THE PSAAPG PRESIDENT, DAN SCHWARTZ

Dear Geologists of the Pacific Section,

It is my honor to welcome you to our annual technical conference and convention in the center of the west coast energy business, Bakersfield. The San Joaquin Geological Society is our host for the meeting, and we will be joined again by the Pacific Section SEPM and the Pacific Coast Section SEG. Kevin Weberling and his convention committee have assembled an impressive program representative of the diverse geology of the West Coast, with a wonderful range of technical sessions: Celebrating century old fields from discovery to EOR; Fine-grained biosiliceous rocks; the Monterey and beyond; From fluvial to deep water, clastic reservoirs and depositional systems of the West Coast; Heavy Oil Development: How technology has made the unconventional conventional; Structure, tectonics, and regional geology of Western North America; Understanding fractured reservoirs: characterization, geomechanics, and completions.

Field trips take advantage of Bakersfield's proximity to many of California's classic outcrops, which also happen to coincide with some of the largest oil fields in America. Short courses are offered to improve your skills at ancient log and image log analysis as well as fractured reservoir characterization.

The Bakersfield Marriott at the Convention Center, our host hotel, is in downtown Bakersfield within steps of revitalized buildings, new hotels, art galleries, and a vibrant night life. We encourage you to take advantage of the best the valley can offer. If time permits, venture out to the southern Sierras, head to the beach, or taste the wine of the central coast.

I would like to thank the many individuals of the San Joaquin Geological Society for the efforts in planning and execution of the convention. Also, I want to acknowledge our sponsors and exhibitors who help underwrite the cost of the meeting.

Please enjoy Bakersfield and take advantage of this opportunity to renew friendships and learn more about the Pacific Section's fantastic geology.

Dan Schwartz
President, Pacific Section AAPG



FROM THE CHAIR

I am pleased to welcome you to the 2014 Pacific Section AAPG Technical Conference and Convention in Bakersfield, California. The San Joaquin Geologic Society is our 2014 host along with our Pacific Section SEPM and the Pacific Coast Section SEG partners. The 2014 Convention theme is: "A Century of Innovation – From Exploration to EOR". This theme is fitting for the return of the annual meeting to the Southern San Joaquin Valley and its rich history of oil and gas production. The PSAAPG annual meeting always provides attendees with excellent networking and learning opportunities from fellow industry colleagues. We are honored to have AAPG President, Lee Krystinik, as the keynote speaker for our All Convention Luncheon. The talk will address the impact of unconventional resources and the associated drilling and completions technology boom. You won't want to miss it! This year's technical conference and convention will be held at the Bakersfield Marriott at the Convention Center. The hotel has an excellent exhibition hall and is a great venue for presentations, workshops and short-courses. I would like to personally thank all of the exhibitors who have signed on this year to help make this year's convention a success. The center also provides numerous dining and entertainment opportunities within easy walking distance.



The technical sessions have been arranged into pertinent themes including: Fine-grained Biosiliceous Rocks, Western North America Regional Geology, Shallow to Deepwater Depositional Systems of the West Coast and two sessions dedicated to new Petrophysical and Geophysical applications. We will have timely sessions focusing on the important issues surrounding water resources, CO₂, and environmental/regulatory updates in the Western U.S., as well as a special session on the Cenozoic Geologic History of Southern California honoring the memory of our esteemed colleague, A. Eugene Fritsche. This year's technical committee has set up numerous field trips to both the Western and Eastern margins of the San Joaquin Basin as well as trips to the Ventura Basin. I hope you will be able to attend one or more of these excellent trips, all of which are within easy driving distance from the convention center. Short course topics include: Working with Ancient E-logs, Image Log Interpretation, Two core workshops on Fracture Characterization and San Joaquin Siliciclastic Reservoirs, and a Sequence Stratigraphy for Students course.

We expect to have a strong student presence at this year's conference and there will be numerous activities for both students and Young Professionals. The committee has also planned several fun outings for guests and spouses including a tour of Central Coast vineyards, a trip to the Giant Sequoias, and a rafting trip on the beautiful Kern River.

I would like to thank the San Joaquin Geologic Society for hosting the 2014 technical conference and convention. The committee is equally indebted to the numerous sponsors and volunteers who make this event possible. I look forward to seeing you all this April in Bakersfield!

Kevin Weberling
PSAAPG Convention Chair



**84th Annual Meeting of the
Pacific Section American Association of Petroleum Geologists
Hosted by San Joaquin Geological Society**

Pacific Section AAPG Officers

President	Dan Schwartz
President-Elect	John Williams
Vice President	Jennifer Anderson
Secretary	Jana McIntyre
Treasurer	Jack Grippi (1), Cameron Campbell (2)
Past President	Tony Reid
Editor In Chief	Tim Elam

San Joaquin Geological Society Officers

President	Laura Bazeley
Vice President	Jon Allen
Treasurer	Noel Velasco
Secretary	Evan Bargnesi
Past President	Vaughn Thompson

Convention Committee

General Chair	Kevin Weberling
General Vice Chair	Erika Bowen
Technical Chair	Stefano Mazzoni
Exhibitors Chair	Anne Draucker
Sponsors & Fundraising Chair	Larry Knauer
Registration Chair	Emily Fisher
Webmaster	Jason Minch
Student Volunteers & Activities	Dan McCuan, Becca Lanners
Editor & Publicity Co-Chairs	Vaughn & Victoria Thompson, Jason Minch
Guest & Spouse Co-Chairs	Eric Fossett, Alice Koerner
Judging Chair	Noel Velasco
Awards Chair	Bob Lindbloom
Finance Chair	Mary Holland-Ford, Martha Winkler
Convention Site Chair	Kay Pitts
Technical Vice-Chairs	Jon Allen, Greg Gordon
Field Trip Co-Chairs	Courtney Marshall, Heather Strickland
Short Course Chair	Plamen Ganey
Oral Session Chair	Shane Peterson
Poster Session Chair	Drew Hutto
Student Volunteers & Activities	Dan McCuan, Becca Lanners
A/V Chair	Pierre-Orly Dupont



EXHIBITORS

(as of 2/25/2014, subject to change)

Company	Contact	E-mail	Booth
AAPG	Tonia Greening	tgreening@aapg.org	19
Aera Energy LLC	Traco Matthews	tpmatthews@aeraenergy.com	7
ALS Corpro	Jennifer Laake	Jennifer.laake@alsglobal.com	23
Baker Hughes	Sara Alsbury	sara.alsbury@bakerhughes.com	2
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Chevron	Reagan Henderson	Reagan@chevron.com	22
Core Laboratories	Larry Kunkel	larry.kunkel@corelab.com	32
CSU Bakersfield, Geological Sciences, Honors Geology High School Program	Dirk Baron	dbaron@csu.edu	29
DHI Services, Inc.	Les Collins	lcollins@dhiservices.com	34
Division of Oil, Gas, and Geothermal Resources, Dept of Conservation	Lynne Taylor	Lynne.Taylor@conservation.ca.gov	28
Dynamic Graphics, Inc.	Susan Brooks	sue@dgi.com	33
EV Downhole Video	Gregg Linville	gregg.linville@evcam.com	20
GlassPoint Solar	John O'Donnell	john@glasspoint.com	39
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PS SEPM Publications	Mario Caputo	Mvcaputo@earthlink.net	4
Schlumberger	Steve Hall	Hall10@slb.com	14,15,16
Weatherford Laboratories	Heidi Allen	heidi.allen@weatherford.com	37,38
Weatherford (Trailers)	Heidi Allen	heidi.allen@weatherford.com	Parking Lot



Exhibitor Locations





GENERAL INFORMATION

The Conference is a general interest meeting with papers and poster sessions on a wide variety of topics as well as timely short courses and field trips. The theme of the 2014 conference is A Century of Innovation – From Exploration to EOR. Presentations will be organized into technical sessions with topical themes. Our committee members look forward to your papers and attendance in the heart of the San Joaquin Valley.

Find up to the minute information at <http://psaapg.org/2014-convention/>.

Registration

Early registration deadline: March 28, 2014.

Short Courses and Field Trips have Registration Cut-off dates of April 1, 2014.

Online Registration for Conference ends April 20.

Register now and save - fees will increase on March 29 and again April 20, 2014.

Use the form at the end of this document or online at <http://psaapg.org/2014-convention/>.

Contact Emily Fisher EAFisher@aeraenergy.com 661-665-5571 with any questions

Fees

Registration Type	On or Before March 28	On or before April 19	After April 19
Member Registration	\$195	\$225	\$250
Non-Member	\$235	\$265	\$280
One Day – Member	\$125	\$145	\$150
One Day – Non-Member	\$145	\$165	\$170
Student	\$40	\$40	\$40
Guest / spouse	\$25	\$25	\$25
Emeritus	\$125	N/A	N/A
Field Trip or Short Course only	\$25	\$25	\$25

* Guest or Spouse registration fee does not allow access to technical sessions.

On-Site Registration/Check-in and Badge Pickup Schedule

Registration will be in the pre-function area of the hotel.

- Saturday, April 26; 3:00 PM – 6:00 PM
- Sunday, April 27; 7:30 AM – 5:00 PM
- Monday, April 28; 7:30 AM – 5:00 PM
- Tuesday, April 29; 7:30 AM – noon

Judging Volunteers Needed

Judging volunteers are needed for judging oral and poster sessions, if you are interested please check the 'Volunteer to Judge' box during registration. For questions contact judging chair Noel Velasco: NOVelasco@aeraenergy.com.



The Venue

The meeting is being held in downtown Bakersfield, California. Temperatures are mild in April (40-70°F), with a possibility of rain showers and/or fog.

Convention Hotel –Bakersfield Marriott at the Convention Center

801 Truxtun Avenue · Bakersfield, California 93301 USA

Hotel Accommodations

A block of rooms has been reserved at a discounted rate at the meeting venue hotel, **the deadline for the hotel reservation at the discounted rate of USD\$94.00 + tax/standard room is April 11, 2014**. Any reservation requests received after the deadline date will be available on a space and rate available basis only. To make hotel reservations finish registration and you will be provided a link to the Marriot upon completion or proceed to the PSAAPG website <http://psaapg.org/2014-convention/> and click on the “Click Here” button under Hotel location information.

Hotel Parking

Parking at the Marriott is open and free of charge.

Accessibility

PSAAPG is committed to making its meetings accessible to all.



Credit: Harold Sullwold



Cancellations, Changes, and Refunds

Requests for additions, changes, and cancellations must be received by April 16, 2014. No refunds will be made on cancellation notices received after this date. The meeting cannot provide refunds for on-site registration.

Transportation

As the population centerpoint of California, Bakersfield is only four hours from 90 percent of the state's population. Just 15 minutes east of Interstate 5 and positioned at the crossroads of State Highways 99 and 58, Bakersfield is easy to get to from any part of the state.

Bakersfield is serviced by **Meadows Field Airport (BFL)**, located 8 miles north of downtown Bakersfield and by Amtrak via the **San Joaquin Route**. Local city wide bus transportation is provided by **Golden Empire Transit**.

Directions from Bakersfield Meadows Field (9.0 mi, 14 min)

Meadows Field Airport
3701 Wings Way, Bakersfield, CA 93308

1. Turn Left on 7th Standard Rd.
2. Turn left onto the California 99 ramp
3. Take the CA-58 W/Rosedale Hwy exit toward CA-178 E/24th St
4. Turn left onto CA-178 E
5. Turn right onto Oak St
6. Turn left onto Truxtun Ave
7. Stay on Truxtun Ave, destination will be on the right

Directions from LAX (116 mi, 1 h 54 min)

Los Angeles International Airport
World Way, Los Angeles, CA 90045

1. Get on I-405 N from S Sepulveda Blvd
2. Merge onto I-5 N
3. Continue onto CA-99 N (signs for California 99 N/Bakersfield/Fresno)
4. Take the California Ave exit toward Civic Center
5. Turn right onto California Ave
6. Turn left onto Chester Ave
7. Turn right onto Truxtun Ave, destination will be on the right

The host hotel, the Bakersfield Marriott at the Convention Center offers a free airport shuttle. Call 1 661 323 1900 Ext 1040.



Museums / Galleries

Bakersfield Museum of Art – 661.323.7219 – bmoa.org
Buck Owens Crystal Palace – 661.328.7560 – www.buckowens.com
Buena Vista Museum of Natural History – 661.324.6350 – www.sharktoothhill.org
California Living Museum (CALM) – 661.872.2256 – calmzoo.org
Kern County Museum – 661.868.8400 – www.kcmuseum.org
Metro Galleries – 661.634.9598 – themetrogalleries.com

Performing Arts / Live Music

Bakersfield Jazz Workshop – www.bakersfieldjazzworkshop.com
Bakersfield Symphony – 661.323.7928 – www.bakersfieldsymphony.org
Buck Owens Crystal Palace – 661.328.7560 – www.buckowens.com
The Empty Space Theatre – 661.327.7529 – www.esonline.org
Gaslight Melodrama – 661.587.3377 – www.themelodrama.com
Rabobank Arena – 661.852.7777 – www.rabobankarena.com
The Stars Dinner Theatre – 661.325.6100 – www.bmtstars.com

Amusement

Bakersfield Ice Sports Center	1325 Q Street – 661.852.7400
Camelot Park	1251 Oak Street – 661.859.1812
Fox Theater	2001 H Street – 661.324.1369
John's Incredible Pizza	3709 Rosedale Hwy – 661.859.1111
Maya Theaters 16	1000 California Ave – 661.636.0484
McMurtrey Aquatic Center	1325 Q Street #100 – 661.852.7430
Rollerama	1004 34th Street – 661.327.7589
Westchester Bowling	1819 30th Street – 661.324.4966

Outdoor Activities

Biking:

Kern River Trailway – 30 miles from Enos Lane to the mouth of Kern Canyon! Be safe and share the road with runners, walkers, children, etc. There have already been a few accidents too many!

Granite Road – North of town; beware of cars not used to sharing the road with bikes.
Mountain Biking in **Hart Park**

Golf

The Links at RiverLakes – Public	5201 RiverLakes Drive
Kern River Golf Course – Public	Lake Ming Drive
Bakersfield Country Club – Private	4200 Country Club Drive
Rio Bravo Country Club – Private	15200 Casa Club Drive
Seven Oaks Country Club – Private	2000 Grand Lakes Avenue
Sundale Country Club – Semi Private	6218 Sundale Avenue

Hiking / Camping:

Carrizo Plain National Monument: A dazzling display of wildflowers in the spring.



Johnsondale: Trail of 100 Giants – Easy hike with family where you can enjoy views of some massive Sequoias.

Kern Canyon: Good resources for trails in canyon: 1) kernvalley.com/news/hike.htm and 2) www.southern-sierra.com/Community/hiking.html. Also several hot springs located in the canyon for winter hiking/camping.

Kernville: Good base camp for hiking, mountain biking, rafting, and other activities because there is an excellent brewery to enjoy after a hard day of play!

Mt. Pinos: Just an hour out of Bakersfield you can drive to 8300'. Lots of hiking, camping, mountain biking, and rock climbing options. Located in National Forest lands, so free camping in many spots.

Ridge Basin: A veritable playground between Bakersfield and LA.

Sequoia National Park: Mineral King – Southern area newly-added to the park with some of the most dramatic scenery, displays of wildflowers, waterfalls, and rock formations.

Wind Wolves Preserve: On the southern end of the San Joaquin Valley, this area preserves local habitat and has an impressive display of wildflowers in the spring.

Wine Tasting

Bakersfield Imbibe Wine & Spirits – 4140 Truxtun Avenue – 661.633.9463

Santa Ynez Santa Barbara (Santa Barbara Winery), Lompoc (Foley), Santa Rosa Road (Alma Rosa, Lafond, Sanford), Buellton, Solvang (Lucas & Lewellen), Santa Ynez, Los Olivos (Andrew Murray, Byron), Foxen Winetrail (Cambria, Fess Parker, Foxen, Zaca Mesa)

Paso Robles Adelaida (Justin, Tablas Creek), Paso Robles (Arroyo Robles, Eberle, Eos, J Lohr, Tobin James), Templeton (Taz, Wild Horse)

Edna Valley – Arroyo Grande (Edna Valley, Laetitia, Talley, Tolosa, Wolff)

Shopping

Bellissima 1712 K Street – 661.334.1712 – www.bellissimafashion.com

Fashionista 2001 H Street – 661.327.4466

House of Talula 1900 19th Street – 661.323.7394

In Your Wildest Dreams 1723 18th Street – 661.324.6484 – www.buywildestdreams.com

Kuka Folk Art 1609 19th Street – 661.325.0000 – www.kukasfolkart.com

Lassen's Natural Foods 4308 California Ave – 661.324.1264 – www.lassens.com

Red Door Interiors 2300 Eye Street – 661.327.9999

For Parents Visiting with Children

A Good Time Out

3400 Calloway – agoodtimeout.net

This is a day-care where you can drop your kids and they charge on an hourly basis. This is a very good place for parents who want to do a night out, as they close very late (~11pm on the weekends). Reasonable rates after you pay an initial fee. They are closed on Sundays.

Wild Fun Center

8500 Harris Rd – 661.663.3753 – www.thewildfuncenter.com

On Harris Rd behind Sam's Club. This place has inflatable slides and such; more like an indoor playground.

Food

24th Street Cafe (Diner) 1415 24th Street – 661.323.8801

Belvedere in the Padre Hotel 1702 18th Street – 661.427-4999



Buck Owens Crystal Palace
Chef's Choice Noodle Bar (Thai)
Dewar's Ice Cream
El Sombrero (Mexican)
Enso (Sushi)
Goose Loonies (Greek & Pizza)
Joseph's (Italian)
Juicy Burger
Luigi's Deli (Italian)
KC Steakhouse
La Costa Mariscos (Mexican)
Mama Roomba's (Latin)
The Mark (Steakhouse)
Maxwell's (American)
Rosemary's Family Creamery
Sequoia Sandwich Co.
Sub Station
Uricchio's Trattoria (Italian)
Village Grill (Diner)
Woolgrowers (Basque)
Zingo's (Diner)

2800 Buck Owens Blvd – 661.328.7560
 1534 19th Street – 661.325.1234
 1120 Eye Street – 661.322.0933
 2731 M Street – 661.327.1075
 1419 19th Street – 661.327.7785
 1623 19th Street – 661.631.1242
 3013 F Street – 661.322.7710
 1201 24th Street – 661.325.8429
 725 East 19th Street – 661.322.0926
 2515 F Street – 661.322.9910
 716 21st Street – 661.322.2655
 1814 Eye Street – 661.322.6262
 1623 19th Street – 661.322.7665
 1421 17th Place – 661.323.6889
 2733 F Street – 661.395.0555
 1231 18th St – 661.323.2500
 1605 20th Street – 661.322.3740
 1400 17th Street – 661.326.8870
 2805 F Street – 661.325.1219
 620 East 19th Street – 661.327.9584
 3201 Buck Owens Blvd – 661.321.0627

Drink

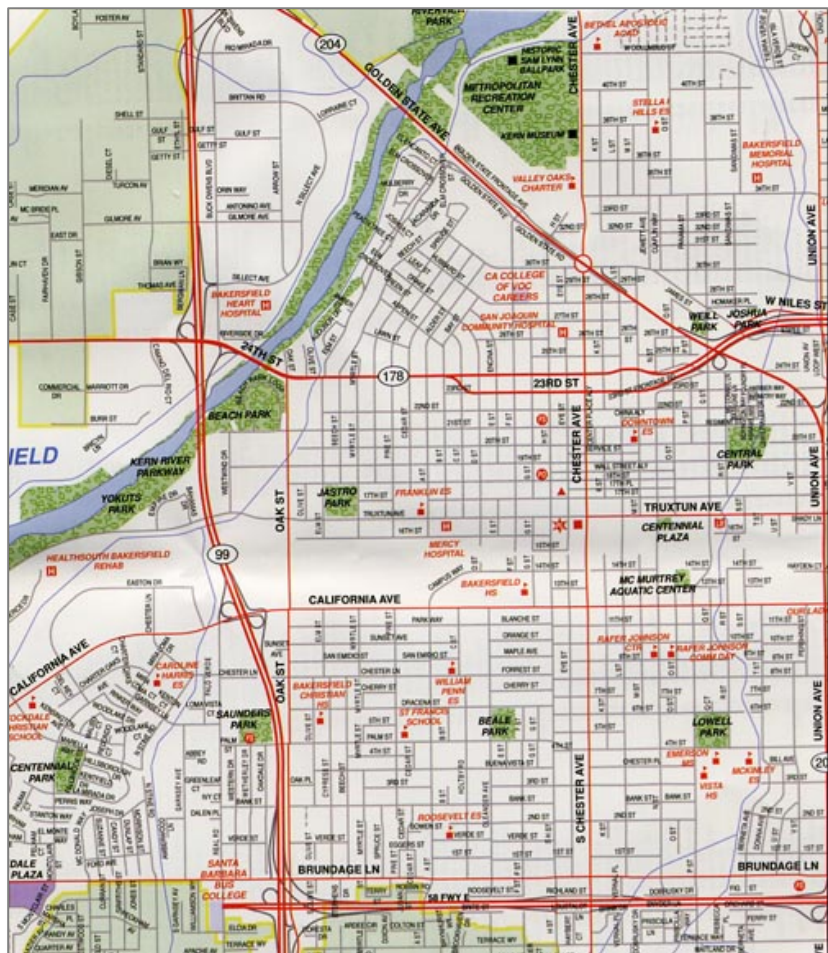
Brimstone Bar @ the Padre
 Hotel 1702 18th Street
 661.427.4900

Dagny's Coffee Company
 1600 20th Street
 661.634.0806
dagnyscoffee.com

The Filling Station
 1830 24th Street
 661.323.5120

Guthrie's Alley Cat
 1525 Wall St
 661.324.6328

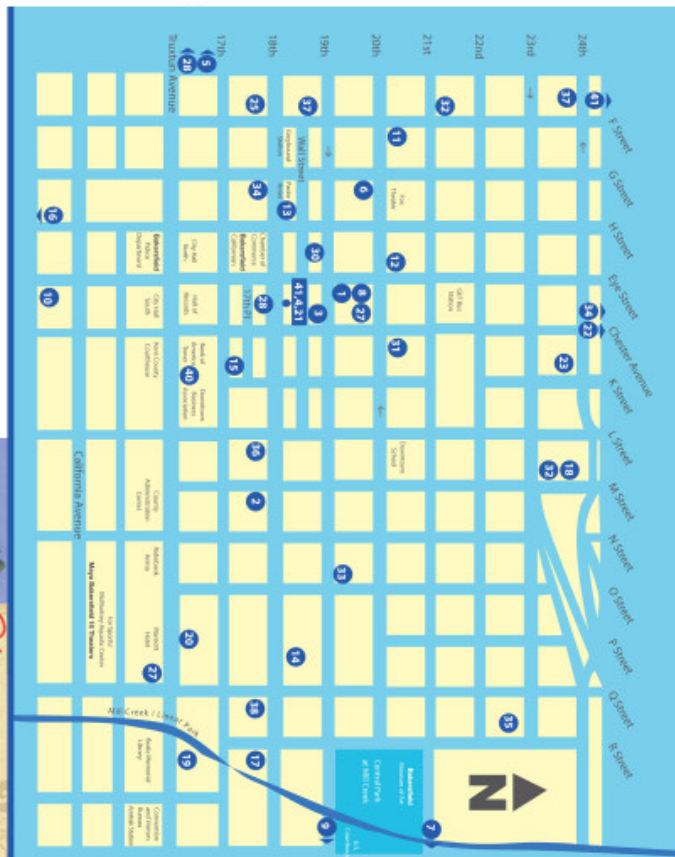
Sandrini's
 1918 Eye Street
 661.322.8900
www.sandrinis.com





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- ASIAN**
 1. **Chief's Choice Noodle Bar** / 1534 19th Street / 325-1234
 2. **Rice Bowl Restaurant** / 1119 18th Street / 323-2901
 3. **The Fusion** / 1823 Chester Ave / 861-8900
- BARS**
 4. **Guthrie's Alley Cat** / 1525 Wall Street Alley / 324-6328
 5. **Imbibe Wine & Spirits** / 4140 Truxtun Ave / 633-9463
- Bakery**
 6. **The Cookie Jar** / 1717 20th Street / 861-1002
- BASQUE**
 7. **Narducci's Cafe** / 822 E. 21st Street / 324-2961
(Not on map, located between Kern and Baker Streets on E. 21st)
 8. **Sandini's Biscaya & Italian Restaurant** / 1918 Eye Street / 322-8900
 9. **Woodgroves Restaurant** / 620 E. 19th Street / 327-9584
(Not on map, located between Kern and Baker Streets on E. 19th)
- CANDY-ICE CREAM SHOP**
 10. **Dewar's Ice Cream Shop** / 1120 Eye Street / 322-0933
- COFFEE SHOPS**
 11. **Caffeine Supreme Drive Through** / 2000 7th Street / 873-4712
 12. **Daggy's Coffee Company** / 1600 20th Street / 634-0806
 13. **The Padre Hotel - The Pharmacy** / 1702 18th Street / 427-4900
 14. **GOOSE** / Goose Loonies Travem & Grill / 816 18th Street / 631-1242



- ITALIAN**
 15. **Urlicchio's Italian Trattoria** / 1400 17th Street / 326-8870
 16. **Sandini's** / 1918 Eye Street / 322-8900
- LATIN / MEXICAN**
 17. **Medical Restaurant** / 631 18th Street / 327-3801
 18. **Baja Fresh Mexican Grill** / 1201 24th D100 Street / 323-2252
 19. **Mamie's Casa De Mariscos** / 700 Truxtun Avenue / 325-8834
 20. **Sel Y Luna** / 900 Truxtun Ave Suite 110 / 325-2335
- PIZZA**
 21. **Jerry's Pizzo & Pub** / 1817 Chester Avenue / 633-1000
 22. **Santa Barbara Pizza & Chicken** / 700 N. Chester Avenue / 399-2020
(Not on map, located at corner of N. Chester & E. Warren)

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RESTAURANTS

23. **24th Street Cafe** / 1415 24th Street / 323-8801
24. **The Garden Spot** / 3320 Truxtun Avenue, # 150 / 323-3236
(Not on map, located at corner of Truxtun & Oak Street)
25. **Guild House Gourmet Luncheon** / 1705 18th St / 325-5478
26. **Lorene's Ranch House** / 1523 23rd Street / 322-6887
27. **Marriott Hotel - The Mines** / 801 Truxtun Avenue / 323-1900
28. **On The Rocks Bar & Grill** / 1517 18th Street / 327-7625
13. **The Padre Hotel** / 1702 18th Street / 427-4900
- Rooftop Fine Dining
- **Bernstone Bar and Restaurant**
- **Frame Fire**
29. **Stans Theatre** / 1931 Chester Avenue / 325-6100
30. **The Milk** / 1623 18th St / 322-7665
31. **Tina Marie's Cafe** / 2000 Chester Avenue / 631-1188
- SANDWICH-DEL-BURGERS**
 32. **Blimpie-America's sub shop** / 1201 24th St Suite D120 / 864-7610
33. **Bonnie's Best Cafe**
 - A) 1900 21st Street / 323-7224
 - B) 1002 19th Street / 637-1002
34. **Union Station Deli** / 1723 18th Street / 428-9857
35. **Hot & Smoke BBQ** / 2231 R Street / 428-9857
36. **Sequoia Sandwich Shop** / 1231 18th Street / 322-2500
37. **Subway Sandwiches** / 1921 24th Street / 863-0124
38. **Too Fat Sandwiches**
 - A) 721 18th Street / 631-8401
 - B) 1825 7th Street / 324-3567
39. **Quig's BBQ & Catering** / 1616 20th Street / 345-9395
40. **Truxtun Lower Cafe** / 1430 Truxtun Ave #110 / 861-0034
- COOKING STUDIO**
 41. **Sustenance 101** / 1810 Eye Street / 8051-234-1691



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Retail

1. A.B. Dick/Copy Machines / 1200 18th Street / 327-7386
2. **Adipjon Home & Garden / 2231 N Street / 327-0077**
3. American Jewelry Co. / 3200 21st Street / 325-5023
4. Assistance League of Bakersfield / 1924 Q Street / 323-6838
5. Big Brand Tire / 1401 21st Street / 371-4695
6. Blacktop Cyclery / 1612 18th / 869-1140
7. **Digital Creations / 1705 20th Street / 322-5552**
8. Emporium Western Store / 1031 19th Street / 325-8476
9. Fashionista / 2007 H Street / 327-4666
10. Fur and Feathers Luxury Pet Resort / 408 21st Street / 843-7970
11. Gonilla Alisoff / 608 18th Street / 323-1066
12. **Guarantee Shoe Center / 2101 Chester Ave. / 325-8751**
13. Henley's Photos / 2000 H Street / 324-9484
14. Imbibe Wine and Spirits / 4140 Truxtun Ave / 633-9463
15. Kayla's Gift Shop / 1101 South H Street / 346-8621
16. **Kuka's / 1609 19th Street / 325-0000**
17. Mercy Plaza Pharmacy / 7323 16th Street #100 / 324-2545
18. Modern Office Environments / 830 21st Street / 377-2110
19. O'Reilly's Office Products / 4550 Easton Dr / 327-7386
20. Raymond's Trophy & Awards / 300 Chester Ave / 323-4015
21. Smart n Final / 1725 Golden State Hwy / 326-7945
22. Simon's Stationers / 1108 Baker Street / 323-7611
23. Tasha's Something Borrowed Something New / 1600- 19th Street / 859-1500

Entertainment and Event Centers

24. Bakersfield Carriages / 18940 Palm Ave / 589-4435
25. Bakersfield Community House / 2020 R Street / 327-8835
26. Bakersfield Condors / 1001 Truxtun Ave / 324-7825
27. Bakersfield Symphony Orchestra / 1328 34th Street # A / 323-7928
28. Fox Theater / 2001 H Street / 324-1369
29. Maya Cinemas / 1000 California Ave / 636-0490
30. Rabobank Arena / 1001 Truxtun Ave / 852-7300
31. Spotlight Theater / 1622 19th Street / 634-0692
32. Stars Theater / 1931 Chester Ave / 325-6100

Pawn Shops:

33. All American Jewelry & Loan / 1809 Chester Ave / 325-2274
34. Globe Loan Jewelry Co. / 1130 19th Street / 325-3353
35. Wooden Nickel MA Griffin / 1234 19th Street / 323-4055

Antiques

36. Curiosity Shop and Antiques / 1607 18th Street / 324-7112
37. Dog-Gone Nice Stuff / 1614 20th Street / 301-9448
38. In Your Wildest Dreams Consignment / 1723 18th Street / 324-6484

Florist

39. Log Cabin Florist / 800 19th Street / 327-8646

Farmers Market

40. Valley Farmer's Market Assoc. / 3201 F Street / 703-4004

Museums & Art Galleries

41. Bakersfield Museum of Art / 1930 R Street / 323-7219
42. Bakersfield Art Association / 1817 Eye Street / 869-2320
43. Buena Vista Museum of National History / 2018 Chester Ave / 324-6350
44. Ice House Framing & Gallery / 1610 19th Street / 325-8008
45. **Younger Gallery / 1430 Truxtun Ave. Suite 105 / 247-3968**

Hair Salons

46. A Season for Beauty / 301 18th Street / 395-1111
47. Hair Inc Salon / 2031 H Street / 327-4965
48. Indulge at Unique Hair Design / 3011 F Street / 631-2304
49. Pure Essentials Day Spa / 2036 E Street / 633-0220
50. Scissor Hands Salon & Boutique / 1715 20th Street / 323-3321

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HIGHLIGHTS

Breakfast – Luncheons/Receptions

Icebreaker

Sunday, April 27 (18:00 – 20:00)

Location: Exhibit Hall

Summary: Plan to kick off the convention meeting old and new friends at the Icebreaker. You also have the opportunity to see what is happening with the exhibitors. No-host bar and hors d' oeuvres will be served.

All Convention Luncheon

Monday, 28 April (11:45 - 13:15)

Location: Ballroom A

Cost: \$45 USD

Speaker: Lee Krystinik, AAPG President

Please join us for the All Convention Luncheon, where we will be featuring AAPG President Lee Krystinik. Lee will speak on the impact of unconventional resources on the boom in drilling and completion technology. His talk is titled: "Pushing Hubbert's Curve: The impact of the unconventional resources boom on our nation (and the globe)". Be sure to catch this exciting talk and watch the presentation of PS-AAPG Honors and Awards, hear from AAPG Candidates, and enjoy a good lunch.

Dr. Krystinik has specialized in applied sedimentary and stratigraphic analysis to predict oil and gas reservoirs since he received his Ph.D. in geology from Princeton University in 1981. Krystinik has held positions as Manager of Geology at Union Pacific Resources and Global Chief Geologist for ConocoPhillips. In 2006, he formed Fossil Creek Resources, an independent exploration company that uses new technologies in the search for overlooked targets. His areas of interest include controls on basin-fill and reservoir architecture, integrated play assessment and cost-effective implementation of new concepts and technology. Dr. Krystinik has been President of SEPM (The Society for Sedimentary Geology) and an AAPG Distinguished Lecturer in North and South America. He is currently President of AAPG.

Brew and Browse

Monday, April 28 (17:00 – 18:30)

Location: Exhibit Hall

Summary: Wrap up a long day of technical sessions by winding down with friends and having the opportunity to talk with exhibitors. Snacks will be served; No host bar.



AAPG - DPA Breakfast/Meet and Greet

Tuesday, 29 April (7:00 – 8:00)

Location: Hammons

This special hosted buffet breakfast is an opportunity to meet and greet current and prospective DPA members. Meet our luncheon panel of oil company owners, and chat with colleagues of the DPA. Join us on the morning of Tuesday, April 29, 2014 for this gathering.

AAPG - DEG Luncheon

Tuesday, 29 April (11:45 – 13:15)

Location: Ballroom A

Cost: \$45 USD

Speaker: Tim Kustic, California State Oil and Gas Supervisor

The promise of new oil and gas development from shale deposits in California has led to the most extensive public and legislative interest in oil and gas production methods in decades. With the passage of Senate Bill 4 (Pavley) in 2013 and the subsequent regulations flowing from that bill, California established new and wide ranging rules for well stimulation. Those rules include new provisions for ensuring well integrity, public notification, and groundwater monitoring. Operators and consultants surely are interested in how those new rules will affect development prospects for shales in California. Come hear from State regulators what those rules are and how they will unfold over the coming year.

AAPG-DPA Luncheon

Tuesday, 29 April (11:45 – 13:15)

Location: Breckenridge

Cost: \$45 USD

Speakers: David Combs, President of 'The Termo Company'
Chad Hathaway, President of 'Hathaway, LLC'

'Owners of Oil' Exploration and Discovery of a Vision

Join our DPA luncheon speaker panel to hear stories on how they became Oilmen.

Learn how each path was different, but their visions coalesced – all became 'Owners of Oil' and a business. What were their motivations, interests, original ideas and realities that lead them to this day? Was there a panic moment, a mortifying fork in the road, a choice that changed their life forever? Join us to hear how a way of life was found, 'Their Exploration and Discovery of a Vision'.

Come ready to ask the panel your questions about the oil business.



Speaker: David Combs, President of 'The Termo Company'

Title: Rebuilding a Sleepy Oil Company

In 1967, I started with Termo, as a roustabout, was then promoted to field operator (with an MBA); Later, I was moved to foreman position and then advanced to the office in management. During that tenure, I become aware that the company was distributing 100% of the operating profits every quarter to the owner. That was a fundamental concern. At that fork, I decided to work to shift Termo's direction. With some serious planning and strategy, the future of Termo was forever changed. In 1985, I was promoted to President. Today 'The Termo Company' ranks in the top independent oil and gas producers in California, and also has oil and gas wells in Louisiana and Wyoming.

Speaker: Chad Hathaway, President of 'Hathaway, LLC'

Title: Young Oil and Gas Producers, A Vanishing Breed

There is a clear generational gap in today's oil and gas industry from an ownership perspective. After several years of depressed pricing, very few opportunities existed where true startups could happen. My story is one of hard work, ambition and pure luck. Hathaway LLC was started with a \$5000 loan from my mother and has now grown into a \$160MM company and growing fast. I hope to paint a picture between what opportunities exist now versus when I started.

Brew and Browse

Tuesday, April 29 (17:00 – 18:30)

Location: Exhibit Hall

Summary: Wrap up a long day of technical sessions and celebrate the end of a successful convention by winding down with friends and having the opportunity to talk with exhibitors. Snacks will be served; No host bar.

Pacific Section AAPG Leadership Forum

Tuesday 29 April (16:30 – 17:30)

Location: Hammons

Speaker: Dan Schwartz, PS-AAPG President

Learn what the leadership of your organization has been up to and their plans for the future of your organization. This is a great opportunity to spend time with the leadership of Pacific Section AAPG. Officers and Committee Chairs will present short summaries of their activities. Hear about our business plan for 2014, support for affiliated societies, details of a new scholarship program, and how you can get involved.

Registration is encouraged; not required.



Student Activities

Student Q&A: The Transition: From Academia to Industry

Monday, April 28 (16:00-16:45)

Location: Ballroom A

Hosted By: Becca Lanners

Are you preparing to graduate and looking for your dream geoscience job? Are you anxious to hear what an energy job will be like? Then come ask a panel of professional geoscientists from different backgrounds. We will cover topics that will help bridge the gap from being a geoscience student to a professional geoscientist. Recruiters will share with you what companies are really looking for and what you should know before your next interview. We'll also go over ways that can help prepare you as you transition into the corporate environment. You will also hear what students are doing to prepare and what activities successful student chapters do and how they get graduates placed in jobs.

Come join us and ask all those burning questions to help make your transition into the workplace seamless!

No registration required; bring your friends and colleagues.

Young Professional Functions

YP Speed Mentoring and Mixer

Monday April 28, 2013 (16:45-17:30)

Location: Ballroom A

Hosted By: Jon Allen

Summary: The Speed Mentoring event is a great networking opportunity and your chance to connect with the leaders of the convention's participating organizations. Participants meet and are grouped with experienced attendees, many of whom are leaders in the organization. Learn about all the twists and turns your career path may take! You are then encouraged to attend the Networking Mixer and continue your networking experience. The speed mentoring promises to be a valuable networking experience for all who attend.

Registration is encouraged; not required.



GUEST FIELD TRIPS

Field Trip 1

Title: Upper Kern River Rafting

Dates: April 27, 2014 --- 8:00 - 15:00

Meeting Location: Hotel Lobby

Cost: USD \$190 - Transportation, ½ day guided rafting, and lunch

Limit: 50

Description: Half day of rafting class III and IV rapids – Upper Kern

The Kern River is a popular rafting destination and offers a great opportunity to get out and explore the wilderness. Attendees should be fit and in good medical condition. Previous rafting experience is highly encouraged. There is always an element of risk in adventure sports, so waivers are required. Wetsuits can be provided and are mandatory. Please notify us if you require special assistance. Rafting companies have a high standard of safety.

Field Trip 2

Title: Sequoia National Park (Giant Sequoia Tree Grove – Trail of 100 Giants)

Dates: April 29, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Cost: USD \$60 - Transportation, admission, and lunch

Limit: 50

Description: Just up in the southwestern portion of the Sierra Nevada are outstanding destinations that provide spectacular encounters with giant Sequoia trees. This is a great opportunity to get out and explore! Good walking shoes are strongly advised as considerable walking can be involved. The Trail of 100 Giants is a mile long. The trail is handicap accessible, but please notify us if you require special assistance.

Field Trip 3

Title: Central Coast Wine Country Tour (Paso Robles)

Dates: April 28, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Cost: USD \$125 - Transportation, lunch, vineyard visits and wine tastings

Limit: 40

Description: Phenomenal wineries are located right here on the central coast. Come out and explore the various varietals that are offered in Paso! This can be a memorable trip where you enjoy old friends and make new ones. This trip is restricted to guests 21 years of age and older.



FIELD TRIPS

Field Trip 1

Title: **Depositional Environments of Oligocene and Miocene Rocks of the Cuyama Basin: A Trip in Commemoration of Dr. Gene Fritsche**

Dates: April 26, 2014 --- 7:30 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Mike Oldershaw, Tony Reid

Cost: USD \$150 professional - includes Lunch,
Transportation, Guidebook

Limit: 30

Sponsor: PS-SEPM

Description: Join us for a day in the field to commemorate the life of Gene Fritsche. The Cuyama Basin was a favorite area for Gene and was the site of his PhD dissertation research as well as the location for several of his students' MS projects. Our trip will focus on the mid-Tertiary transgression that is so prominent in many of California's coastal basins. Outcrops we plan to examine include the Simmler, Vaqueros, Monterey and Branch Canyon Formations. We'll discuss sedimentary structures and their depositional significance. We will view outcrops on hikes of moderate difficulty and that are up to 2 miles in length.

Field Trip 2

Title: **Paleontology and Geology of the Miocene Round Mountain Silt Bonebed at Sharktooth Hill**

Dates: April 26, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Tim Elam

Cost: USD \$150 professional - includes Lunch,
Transportation, Guidebook

Limit: 30

Sponsor: Buena Vista Museum of Natural History and SJGS

Description: This field trip examines the geologic genesis and paleontologic significance of fossil-rich sediment of the middle Miocene Round Mountain Silt Bonebed, which outcrops near Bakersfield, Ca. Over 140 species of fauna have been found in the Bonebed, which is the most prolific middle Miocene marine vertebrate fossil location in the world.

At Buena Vista Museum of Natural History and Science in Bakersfield, field trip participants will be introduced to the Bonebed by viewing fossils of marine



creatures such as whales, sea lions, dolphins, sharks, etc., as well as rare terrestrial fossils of deer, camels, and other large mammals. A Museum presentation will then cover 1) history of paleontologic study at Sharktooth Hill, 2) stratigraphy, sedimentology, and structure of Round Mountain Silt outcrops, and 3) recent dating techniques used on the Bonebed at Sharktooth Hill.

Participants will then be transported to the Ernst Quarries northeast of Bakersfield. There they will dig for shark teeth and other Round Mountain Silt fossils, which they can take home. Participants will receive a field trip guidebook plus a fossil identification booklet they can use while unearthing treasures. Monitoring will be done by Buena Vista Museum personnel.

Field Trip 3

Title: Westside Turbidite Systems

Dates: April 27, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Mike Clark, Glenn Sharman

Cost: USD \$150 professional - includes Lunch,
Transportation, Guidebook

Limit: 30

Sponsor: PS-SEPM

Description: Turbidite sandstones are one of the more important reservoir types of the San Joaquin Valley oil province, and for more than a hundred years turbidites have contributed to a significant amount of the production coming from fields in the southern San Joaquin. The westside of the basin provides a unique setting where it is possible to study turbidite outcrops that are located in some cases less than two miles from the very fields where these same rocks produce. This field trip will visit some of the classic westside turbidite outcrops and will include examples from the Miocene Stevens and Carneros sandstones, and the Eocene Point of Rocks. Excellent exposures that include some of the type areas for these units will provide us with opportunities to review terminology, identification, and the mechanics of deposition, and to discuss depositional models, provenance and some of the controversies surrounding these fascinating rocks. The field trip will include a lunch stop at some historic oil seeps and tar pit workings that have been known and exploited since the days of the pioneers.

**Field Trip 4**

Title: Structure And Hydrocarbon Exploration In The Transpressive Basins Of Southern California Part 1

Dates: Wednesday, April 30, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Stuart Gordon, Jay Namson & Thom Davis

Cost: USD \$150 professional - includes Lunch,
Transportation, Guidebook

Limit: 30

Sponsor: SJGS

Description: This field trip is an overview and reappraisal of the prolific oil basins of southern California using exploration methods commonly used in international exploration. We have used balanced cross sections and other types of structural analyses integrated with basin modeling, geochemical and geophysical data to gain new insights into the structure, trapping mechanisms, and petroleum systems in a setting combining strike-slip and convergence (transpression). Southern California geology also has the scientific advantage, but societal disadvantage, of earthquakes which provide useful data about the deeper structure which will be presented during the trip. Our field examples are in the eastern Ventura basin, Ridge Basin, and southern San Joaquin basin. During the field trip we will show that the southern California oil basins and petroleum systems have had a similar history during the last 2-3 Ma and there are a number of structural features common to all of the basins. Burial history modeling supported by geochemical data show that the petroleum systems have only recently begun (<5 Ma) to generate oil which provides us with a unique view of an active petroleum system.

Field Trip 5

Title: A Paleocene Fluid System Revealed: Linked Clastic Intrusions and Cold Seep

Dates: Wednesday, April 30, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Hilde Schwartz, Kevin Weberling

Cost: USD \$150 professional - includes Lunch,
Transportation, Guidebook

Limit: 30

Sponsor: AWG and SJGS

Description: The Panoche Hills (northwestern San Joaquin Basin Province) provide excellent exposures of an extensive network of Paleocene clastic dikes and sills ('injectites') and coeval cold seep deposits. Injectites originated from sandstones in the



late Cretaceous Panoche Formation and (possibly) the late Cretaceous-Paleocene Moreno Formation; they intruded and are best exposed in the lower ~700m of the fine-grained Moreno Formation, for at least 50km along strike. The carbonate-rich, fossiliferous cold seep deposits are most abundant in a 25m-thick sandstone interbed (in the Moreno Formation) that stratigraphically caps the injectite interval. Textural and stratigraphic evidence suggest that the injectites and seep deposits are genetically linked: the injectites likely represent the original 'plumbing' underlying a broad region of Paleocene seafloor fluid seepage. With a total stratigraphic thickness of more than 1200m this is the best exposure in the world of an ancient source-to-seep fluid system, and a unique natural laboratory for studying the relationships between surface and sub-surface features in a region with extensive hydrofracturing.

On this trip we will visit outcrops in Escarpado Canyon (southern Panoche Hills) and Marca Canyon (northern Panoche Hills) that illustrate key aspects of the ancient fluid system, including a) the complex geometry and sedimentology of the injectites, b) the vertical architecture of the former cold seep horizon, c) linkage between injectites and seep deposits and d) possible hydrofracture at the Paleocene seafloor.

Field Trip 6

Title: Structure And Hydrocarbon Exploration In The Transpressive Basins Of Southern California Part 2

Dates: May 1, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Stuart Gordon, Jay Namson & Thom Davis

Cost: USD \$150 professional - includes Lunch,
Transportation, Guidebook

Limit: 30

Sponsor: SJGS

Description: This field trip is an overview and reappraisal of the prolific oil basins of southern California using exploration methods commonly used in international exploration. We have used balanced cross sections and other types of structural analyses integrated with basin modeling, geochemical and geophysical data to gain new insights into the structure, trapping mechanisms, and petroleum systems in a setting combining strike-slip and convergence (transpression). Southern California geology also has the scientific advantage, but societal disadvantage, of earthquakes which provide useful data about the deeper structure which will be presented during the trip. Our field examples are in the southern San Joaquin basin, Ridge basin, eastern Ventura Basin, as well as a transect of the western Transverse Ranges. During the field trip we will show that the southern California oil basins and petroleum systems have had a similar history during the last 2-3 Ma and there are a number of structural features common to all of the basins. Burial history modeling supported by geochemical data show that the petroleum systems have only recently begun (<5 Ma) to generate oil which provides us with a unique view of an active petroleum system.

**Field Trip 7**

Title: Outcrops and Oilfields of the Eastside San Joaquin: Kern River, Round Mountain, Mt Poso

Dates: May 1, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Amy Moss-Russell, Marc Cooper

Cost: USD \$150 professional - includes Lunch, Transportation, Guidebook

Limit: 30

Sponsor: SJGS

Description: Field trip participants will tour outcrops of the eastern San Joaquin Valley representing the Kern River and Round Mountain / Mount Poso oil fields a short distance northeast of the city of Bakersfield. The Kern River Field has produced over 2 billion barrels of heavy oil through enhanced oil recovery from the Kern River Formation, a Miocene-Pliocene fluvial depositional environment with channel geometries and associated depositional facies exposed in outcrop. The Round Mountain and Mount Poso fields, consisting of basinward dipping strata trapped against Sierras' normal faults, have produced 100 and 300 million barrels of heavy oil respectively. Production is primarily from steam flooding of the clean upper shoreface Vedder Formation but with increasing recent contributions from horizontal drilling in the overlying clay-rich lower shoreface Pyramid Hill Formation, both of which are exposed in outcrop nearby.

Field Trip 8

Title: Student Field Trip Schlumberger and Core Labs

Dates: April 30, 2014 --- 8:00 - 17:00

Meeting Location: Hotel Lobby

Field Trip Leaders: Becca Lanners, Emily Fisher

Cost: USD \$25 student - includes Lunch

Limit (Student): 50

Sponsor: SJGS

Description: This premier field trip for students takes you through the Schlumberger Tool Shop to see well logging tools up close and in person! After lunch, we will tour Core Labs' facility, where rock and oil samples are analyzed before your very eyes! We will end the day viewing a genuine conventional core. This hands-on trip gives you the opportunity to see data collection and measurement in glorious, high-definition action.



SHORT COURSES

Short Course 1

Title: Basic Image Log Interpretation

Dates: April 26, 2014 --- 8:00 - 17:00

Location: Hammons Room

Instructor: Randy Koepsell

Cost: USD \$100 - includes - Course Materials

Limit: 20

Sponsor: SJWLS

Description: Image log analysis can run the gamut of basic to complex. Contrasting the geologic to petrophysical approaches; this 1 day short course will cover: Relevant technologies for data acquisition focusing on what technologies are available in wireline, memory and LWD, with what can and cannot be interpreted from them. Structural interpretation from either vertical or horizontal wells focused on understanding the pitfalls of the interpreters technique, how to evaluate interpreted data, and how can modeling the data deliver a more complete and relevant understanding in 2D & 3D. Stress induced fractures: a rules based understanding of how to classify induced features along with how image data compares and contrasts to acoustic data. Natural fracture analysis: Conductive vs. resistive, does this imply open vs. healed. Geo-statistics on connectivity, aperture, fracture porosity. How to use the data to compare and contrast intervals or wells. Orientation of fractures vs. stress. Last topic will be unconventional resource plays: how image logs are used to define opportunities.

Short Course 2

Title: Quantitative Fracture Characterization Core Workshop

Dates: April 27, 2014 --- 8:00 - 17:00

Meeting Location: Core Labs, 3437 Landco Drive, Bakersfield

Field Trip Leaders: Michael Gross

Cost: USD \$100 - includes - Course Materials

Limit: 20

Sponsor: SJGS

Description: The core workshop will focus on the identification, description and analysis of fractures in core and how these observations can be integrated with borehole image (BHI) data to develop conceptual models of fractured reservoirs. Through a variety of cores taken across variable lithologies, participants will learn how to (1) distinguish between natural and coring induced fractures, (2) classify fractures according to kinematics (faults vs. joints), and (3) evaluate fracture architecture within the context of mechanical stratigraphy. Based on these



learnings, the participants will construct fracture logs and interpretations from core. This course can be applied to both conventional and unconventional reservoirs where natural fractures play a role in production and completion strategies. The core workshop will focus on the identification, description and analysis of fractures in core and how these observations can be integrated with borehole image (BHI) data to develop conceptual models of fractured reservoirs. Through a variety of cores taken across variable lithologies, participants will learn how to (1) distinguish between natural and coring induced fractures, (2) classify fractures according to kinematics (faults vs. joints), and (3) evaluate fracture architecture within the context of mechanical stratigraphy. Based on these learnings, the participants will construct fracture logs and interpretations from core. This course can be applied to both conventional and unconventional reservoirs where natural fractures play a role in production and completion strategies.

Short Course 3

Title: Sequence Stratigraphy for Students

Dates: April 26-27, 2014 --- 8:00 - 17:00

Location: Kern River Room

Instructor: Morgan Sullivan

Cost: USD \$50 student - includes Lunch and Course Notes

Limit: 20

Sponsor: PS-SEPM

Description: This two day short course, for students only, provides a historical perspective on the development of stratigraphy in general and focuses on the development of sequence stratigraphy in particular. Sequence stratigraphy is a methodology that uses stratal surfaces to subdivide the stratigraphic record. This methodology allows the identification of coeval facies, documents the time-transgressive nature of classic lithostratigraphic units, and provides geoscientists with an additional way to analyze and subdivide the stratigraphic record. We provide a mix of lectures and hands-on exercises utilizing datasets that were instrumental in formulating concepts of sequence stratigraphy.



NOTES



TECHNICAL PROGRAM

The final Technical Program also is available at the Pacific Section AAPG website, www.psaapg.org, at the AAPG Meetings Search and Discovery iPhone app, and in the Abstracts with Program distributed at the conference.

TECHNICAL ORAL SESSIONS

Monday Morning, April 28

SESSION NO.1: **Fine-Grained Biosiliceous Rocks; the Monterey and Beyond.**

Richard Behl and Dan Schwartz, Presiding

Location: Potato Room

- | | | |
|-------|-----|--|
| 8:05 | 1-1 | Nelson Doris, Richard J. Behl, Christopher Sorlien
3D Subsurface Model Of Monterey-Related Sediments And The Syntectonic Distribution Of Clastic And Biogenic Facies, Offshore Santa Maria Basin, California |
| 8:25 | 1-2 | Becca Lanners, Richard J. Behl
Chemostratigraphy Of Hemipelagic Facies Of The Monterey Formation And Equivalent Sedimentary Rocks, Los Angeles Basin, California |
| 8:45 | 1-3 | Mary Nelis, Bonnie Bloeser
Vein Structures And Intrastratal Microfractured Zones Interpreted In Cores Of Late Miocene Diatomite, Midway Sunset Field, CA |
| 9:25 | 1-4 | Mary Nelis
Depositional And Diagenetic Microfabrics Of Diatomite And Opal CT Porcelanite Reservoirs, North Midway Sunset Field, CA |
| 9:45 | 1-5 | Steve Grayson, Jim Hemingway
Diatomite Productivity Evaluation Using Dielectric Measurements At Four Depths Of Investigation |
| 10:05 | 1-6 | Deborah M. Olson, William R. Berry II
High Resistivity, High Porosity (Apparently) Monterey Formation: What Is Its Lithology And How Is It Recognized On Logs? |
| 10:45 | 1-7 | Idu Opral C. Ijeoma, Richard J. Behl
A Test Of Diagenetic Ordering In Siliceous Lithofacies, Monterey Formation, Southwestern Casmalia Hills: Santa Maria Basin, CA |
| 11:05 | 1-8 | Richard J. Behl
Oil And Dolomite In The Monterey Formation Of California |
| 11:25 | 1-9 | Gregg Wilkerson
Is Hydraulic Fracturing Necessary? |



SESSION NO.2: New Ways to View the Reservoir: Petrophysics from the Laboratory, Well Bore and Field. Don Hill and Tom Howard, Presiding

Location: Truxtun Room

- 8:05 2-1 Jeffrey Little, Larry Knauer, David Barnes, Dale Julander
Reservoir Evaluation: Logging Without Chemical Radioactive Sources
- 8:25 2-2 Lee Swager, Larry C Knauer, David Barnes, Hal Ewald, Dale Julander
Hydrocarbon Saturation From Total Organic Carbon Logs Derived From Inelastic And Capture Nuclear Spectroscopy
- 8:45 2-3 Miriam A. Woods, Fausto Vasquez
Reservoir Characterization In Complex Tectonic Settings
- 9:25 2-4 Daniel Wynne
Onshore Mudlogging, Challenges & Opportunities For Improving Value
- 9:45 2-5 Charles H. Smith, Layne Hamilton
Reservoir Permeability In Difficult Carbonate Reservoirs
- 10:05 2-6 Jon Schwalbach, Thomas Hauge, Michael Glascock, Plamen Ganey, Jaron Lucero
Using Borehole Images To Characterize A Major Fault In The Ventura Avenue Field
- 10:45 2-7 Matthew W. Becker, George Tsofilias
Experimental Analysis Of Flow Channeling Through A Fracture
- 11:05 2-8 Zailily Johan, Sammy Haddad, Wee Wei Wa, Smail Chouya
New Techonology Enables Rock And Fluid Evaluation In East Asia Carbonate Reservoirs
- 11:25 2-9 Chenji Wei, Changbing Tian, Baozhu Li, Weimin Zhang
Heterogeneity Characteristics Of Carbonate Reservoirs: A Case Study Using Whole Core Data

Monday Afternoon, April 28

SESSION NO.3: From Fluvial to Deepwater, Clastic Reservoirs and Depositional Systems of the West Coast. Glenn Sharman and Mike Clark, Presiding

Location: Potato Room

- 13:20 3-1 Jason Kracke
Ichnotaxonomy, Paleoecology, Paleoenvironmental Analysis Of Paleogene Yager Complex Turbidite Deposits, Humboldt County, California



- 13:40 3-2 Jonathan P. Allen, Gerald McNaboe, David K. Larue
Detailed Reservoir Architecture Of The Kern River Formation: Examples From Outcrop, Core, And Well Logs
- 14:00 3-3 Greg Gordon, David Pyles
Flow Processes, Sedimentation, And Stratigraphic Evolution Of The Submarine Channel-Lobe Transition Zone
- 14:40 3-4 Elisabeth Steel, Jon Schwalbach
Depositional Facies And Geometry Of Repetto Formation Turbidites In Ventura Avenue Field, Ventura Basin, California
- 15:00 3-5 Michael S. Clark
Tectonics And Sedimentation Of The Mio-Pliocene Ranger Zone Of The Puente And Repetto Formations, Los Angeles Basin, CA

SPECIAL SESSION Fine-Grained Biosiliceous Rocks; the Monterey and Beyond.

Richard Behl and Dan Schwartz, Presiding

Location: Potato Room

- 16:00 1-10 Annie Mosher, Richard J. Behl
Detailed Lithostratigraphic Characterization Of The Monterey Formation At Chico Martinez Creek, CA

SESSION NO.4: Geophysical Applications: Fracture Characterization, Passive Seismic and Tectonic. Richard Xu and Doug Klepacki, Presiding

Location: Truxtun Room

- 13:20 4-1 Mark R. Legg, Marc J. Kamerling, Karen E. Blake
Tectonic Evolution Of Borderland Transpressional Systems, Southern California
- 13:40 4-2 Dan Hollis, Mitchell Barklage, Rob Clayton
Improving Earth Models Using Passive Data Co-Acquired With Active Source Data: The Long Beach 3D Seismic Survey
- 14:00 4-3 Qiaosi Chen, Aditya Tiwari, Fred Aminzadeh
Application Of Induced Seismicity Mapping (ISM) Software - In Wilmington Oil Field
- 14:40 4-4 Robert L. Walker, Fred Aminzadeh, Danielle Sumy
An Innovative Method For Detecting Subtle Events And Patterns In Seismic Data
- 15:00 4-5 Yong An, Fred Aminzadeh
Azimuthal Attenuation Attributes Applied To Integrated Fractured Reservoir Characterization By Using 3-D Prestack Seismic Data
- 15:20 4-6 Mahshad Samnejad, Fred Aminzadeh, Yong An
The Investigation Of An Integrative Approach For Fracture Density Inversion Using AzAVO Analysis



Tuesday Morning, April 29

SESSION NO.6: Research in Water Resources and CO₂ EOR/Sequestration at the Cal State Bakersfield NSF (CREST) Center of Research Excellence in Science and Technology. Rob Negrini and Lindsey Medina, Presiding

Location: Potato Room

- 8:05 6-1 Janice Gillespie, Preston Jordan
Evaluation Of Three Mid-Cenozoic Sandstone Reservoirs In The San Joaquin Valley For Potential Carbon Storage
- 8:25 6-2 Diem Nguyen, Robert A. Horton, Jr., Alyssa B. Kaess
Diagenesis Of The Oligocene Vedder Formation, Greeley Oil Field, Southern San Joaquin Basin, California
- 8:45 6-3 Sara A. Freeman, Tze Wee Tan, Patrick Mickler, Dirk Baron
A Geochemical Investigation Of The Suitability Of Oil Reservoirs In The Southern San Joaquin Valley Of California For Carbon Sequestration And Enhanced Oil Recovery
- 9:25 6-4 John M. Wilson, Azael Salinas, Brynn Galindo, Dirk Baron
Geological Carbon Sequestration: Possible Impact On Shallow Freshwater Aquifers Near A Proposed Sequestration Site, Southern San Joaquin Valley, California
- 9:45 6-5 Alyssa B. Kaess, Robert A. Horton, Jr.
Preliminary Study Of The Mineralogy And Diagenetic History Of The Temblor Formation Sandstones, McKittrick Oil Field, California
- 10:05 6-6 Brandon Jackson, Logan Prosser, Kelsey Padilla, Lindsey Medina
Holocene-Aged Lake Sediments From The Southeastern Margin Of Tulare Lake, CA
- 10:45 6-7 Kelsey Padilla, Lindsey Medina, Ashleigh Blunt, Rob Negrini
Latest Pleistocene Through Holocene Lake Levels From Tulare Lake, CA: Testing Results Using The Smear Slide Technique
- 11:05 6-8 Logan Prosser, Brandon Jackson, Kelsey Padilla
An Initial Comparison Of The Youngest Paleolake History Of Tulare Lake, CA Between Eastside And Westside Localities
- 11:25 6-9 Gregory Thompson, Karla Luna, Citlali Trigos, John Erickson
Multi-Proxy Paleolake Reconstruction Of Summer Lake, Oregon



SESSION NO.7: Environmental and Regulatory Updates for Unconventional and Conventional Oil Field Activities.

Laura Bazeley and Allen Waggoner, Presiding

Location: Truxtun Room

- 8:05 7-1 Brent Miyazaki
A Perspective On New Well Completion And Stimulation Regulations In California, Implications For Petroleum Geologist Resulting From Senate Bill 4 (SB-4) And Other Local Regulations
- 8:25 7-2 Jeff Prude
BLM Update - Proposed Hydraulic Fracturing Rule And Additional Environmental Data Requirements
- 8:45 7-3 Don Clark
Addressing Public Fear About the Impacts of Hydraulic Fracturing and Water Management
- 9:25 7-4 Lindsay A. Swain, Allen Waggoner
Availability Of High TDS Groundwater For Unconventional Oil And Gas Exploration
- 9:45 7-5 Michael D. Henschel, Benjamin Deschamps, Shinya Sato, Gillian Robert
Long Term Operational Observation Of Ground Deformation In The San Joaquin Valley
- 10:05 7-6 Clay L. Rodgers
Central Valley Water Board Oilfield Activities
- 10:45 7-7 Mary Jane Wilson, Laura M. Bazeley
The Risk Of Benzene Exposure On The Urban Setting From Historic Oil Field Activities
- 11:05 7-8 Brian Pitts
Applicability Of California's Health And Safety Code To Oilfield Hazardous Waste Treatment And Disposal
- 11:25 7-9 Leslie A. Klinchuch, Jim Kang
Remediation Exit Strategy, Defining When To Turn Off An Engineered System

Tuesday Afternoon, April 29

SESSION NO.8: Cenozoic Geologic History of Southern California – Dedicated to the Memory of A. Eugene Fritsche. Tony Reid and Mario Caputo, Presiding

Location: Potato Room

- 13:20 8-1 Don Clarke
Gene Fritsche, The Man, The Inspiration, The Geologist



- 13:40 8-2 Brent Miyazaki
Learning To Walk Amongst The Giants – Practical Lessons Learned From My Relationship With Gene Fritsche
- 14:00 8-3 Mike Oldershaw, George Freitag, Tony Reid
Stratigraphy and Paleogeography of the Tertiary Cuyama Depositional Basin, Southern California
- 14:40 8-4 Frank Sousa, J. Saleeby, and K. Farley
Chronology Of Tectonic And Landscape Evolution Of The Southern Sierra Nevada Foothills-Eastern San Joaquin Basin Transition, CA
- 15:00 8-5 Zorka Saleeby, Robinson Cecil, and J. Saleeby
Neogene-Quaternary Subsidence, Uplift And Exhumation History Of The Kern Arch, SE San Joaquin Basin, California
- 15:20 8-6 J. Saleeby and Zorka Saleeby
Detrital Zircon U/Pb Ages Of Upper Miocene To Pleistocene Strata Of The SE San Joaquin Basin In Comparison To Zircon Age Patterns Of The Southern Sierra Nevada Batholith-Implications For Late Cenozoic Sediment Provenance And Dispersal Patterns
- 16:00 8-7 Greg Gordon and David Pyles
Stratigraphy and distribution of lithofacies associations in a structurally confined turbidite system: the Upper Modelo Formation in eastern Ventura Basin, California
- 16:20 8-8 Melissa K. Macis, Eiko B. Kitao, Robert S. Gray
New Pleistocene megafauna localities in Santa Barbara County, California: Paleontological reconnaissance of the marine terrace deposits at Vandenberg Air Force Base

SESSION NO.9: Reservoir Characterization and Development of California Oilfields.
Winston Seiler and Melissa Morse, Presiding

Location: Truxtun Room

- 13:20 9-1 Scott T. Hector
Rio Vista Gas Field: History Of Development
- 13:40 9-2 Scott T. Hector
Lindsey Slough Gas Field: History Of Development
- 14:00 9-3 Nicholas Driscoll, Winston Seiler
Introduction To The San Ardo Field
- 14:40 9-4 Erika Bowen, Erick Santillan, Michael Riddle
Post Stimulation Acoustic Measurement Of Proppant Placement: California Sand Control Example In A Mature Field.



- 15:00 9-5 John Abeid, Larry Knauer
Fault Play Wells In A 115 Year Old Heavy Oil Field, Kern River Field, Bakersfield, California, USA
- 15:20 9-6 David Barnes, Larry Knauer, Dale Julander, Tony Lucas
Estimation Of Siltstone Oil Saturation In Kern River Using Spectroscopy Logs
- 16:00 9-7 David Barnes, Larry Knauer, Dale Julander, Andrew Sparks
Results Of The Core/Log Comparison In Kern River Well
- 16:20 9-8 Eric Bathellier, Olivier Lerat, Axelle Baroni, Gerard Renard
Modeling Of The Steam Chamber Growth During SAGD

ALL POSTER TECHNICAL SESSIONS

** Posters will be on display for the entire day of their session; however, authors will only be present in the afternoon of each day.*

Monday, April 28

Fine-Grained Biosiliceous Rocks; the Monterey and beyond

- P01 Caitlin Tams, William Berelson, Robert Thunell
A High-Resolution Study Of $\delta^{15}\text{N}$ sed And Biogenic Silica In Laminated Fine-Grained Sediments In The Gulf Of California And The California Borderland
- P02 Daniel Torn, Richard Behl
Sedimentology And Stratigraphy Of Diatomaceous Sediments In The Casmalia Hills And Orcutt Oil Fields In The Santa Maria Basin, California
- P03 Kristina Hill, Richard J. Behl
Diagenetic And Compositional Controls Of Wettability In Siliceous Sedimentary Rocks, Monterey Formation, California
- P04 Tesfalidet Kassa, Richard J. Behl
Pore Structure Of Opal-CT And Quartz Phase Porcelanites, Monterey Formation, California

New Ways to View the Reservoir: Petrophysics from the Laboratory, Well Bore and Field

- P21 Chenji Wei, Yong Li, Benbiao Song, Hong Luo
Waterflooding Surveillance And Optimization For A Super-Giant Carbonate Reservoir



- P22 Zailily Johan, Sammy Haddad, Wee Wei Wa, Smail Chouya
Reservoir Evaluation In Tight Clastic Formations With New Technology: A Case Study In East Asia

From Fluvial to Deepwater, Clastic Reservoirs and Depositional Systems of the West Coast

- P31 Daniel Tentori, Kathleen Marsaglia
Sand Compositional Changes As A Key For Sequence-Stratigraphic Interpretation: The Pleistocene Tiber River Deltaic Succession (Italy)
- P32 Matthew Van Grinsven, Kathleen Marsaglia
Evaluation Of Calleguas Creek As A Source Of Sand At ODP Site 1015 On The Hueneme-Mugu Submarine Fan, Santa Monica Basin
Structure, Tectonics, and Regional Geology of Western North America

- P51 Robert Dame, Stephanie Rozek, Paula Chojnacki, Drew Mayerson
Development Of An Exploration And Production GIS Database For The Pacific Outer Continental Shelf
- P52 Brian J. Swanson, Pamela J. Irvine
Preliminary Revised Nomenclature For Plio-Pleistocene Formations In The Ventura Basin Portion Of The Los Angeles 30'X60' Quadrangle
- P53 C.J. Wills, R.H. Campbell, P.J. Irvine, B.J. Swanson
Updates To The Regional Geologic Map Of The Los Angeles 30'X60' Quadrangle
- P54 Christopher Milliner, James Hollingsworth, James Dolan, Sebastien Leprince
Factors Controlling Shallow Co-Seismic Deformation: Quantifying Distributed Co-Seismic Deformation Of The 1992 Landers Earthquake
- P55 Margo Odum, Rita Economos, Axel Schmitt
Petrology And Geochronology Of Lower Crustal Xenoliths From Joshua Tree National Park
- P56 Richard G. Stanley
Tectonic Implications Of New Geological And Geophysical Results From The Susitna Basin, South-Central Alaska
- P57 Tomas N. Capaldi, Natalia V. Solomatova, Edward J. Rhodes, Andreas Lang
Exploratory IRSL Thermochronology Of The Yucaipa Ridge Block, San Bernardino Mountains, Southern California
- P58 Yannick Wirtz
Integration Of Microstructural And Macrostructural Indicators With Large-Scale Models To More Accurately Measure Shortening Across The Santa Maria Basin, California: Implications For Reservoir Geology And Tectonic History



Tuesday, April 29

Research in Water Resources and CO₂ EOR/Sequestration at the Cal State Bakersfield NSF (CREST) Center of Research Excellence in Science and Technology

- P71 Janine Roza, Eric Heaton, Ken Verosub, Rob Negrini
Paleomagnetic Secular Variation Of Late Holocene-Aged Sediments Of Tulare Lake, CA
- P72 Kelly Harrington, Janice Gillespie, Preston Jordan
Carbon Capture Potential In The Temblor Formation, McKittrick Oil Field, Southern San Joaquin Basin, California
- P73 Lindsey Medina, Peter Wigand, Behnaz Balmaki, Robert Negrini
Pollen, Geochemistry, And Paleoclimatic Implications Of Tulare Lake Sediments, San Joaquin Valley, CA Over The Past 19 Ka
- P74 Matthew Van Grinsven, Robert Negrini, James Wilson, Kelsey Padilla
Changes In Tulare Lake Levels For The Past 35,000 Years From The Upper Eight Meters Of The TL05-4 Cores.
- P75 Robin Richardson, Graham D. M. Andrews, Sarah R. Brown
Quantification Of Neogene Extension Across The Owyhee Plateau Of SW Idaho
- P76 Roger W. Ward, Graham D. M. Andrews
Compaction And Welding Of Ignimbrites: The Resting Springs Pass Tuff, Inyo County, California
- P77 Stephanie E. Caffee, Robert A. Horton, Jr.
Preliminary Study Of Petrology And Porosity Development Of The Oligocene Vedder Sandstones Of The Rio Bravo Oil Field, California
- P78 Zachary Martindale, Graham D. M. Andrews, Sarah R. Brown
Preliminary Results Of Geologic Mapping Of The Durwood, Alder Creek, And Rincon Roof Pendants, Sierra Nevada Batholith (Fairview Quadrangle), Tulare County, California



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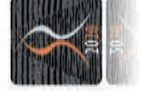
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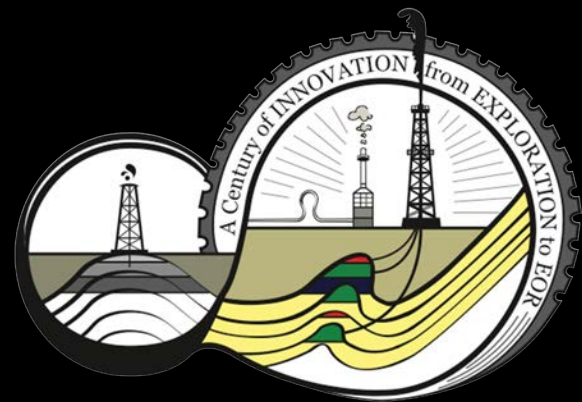
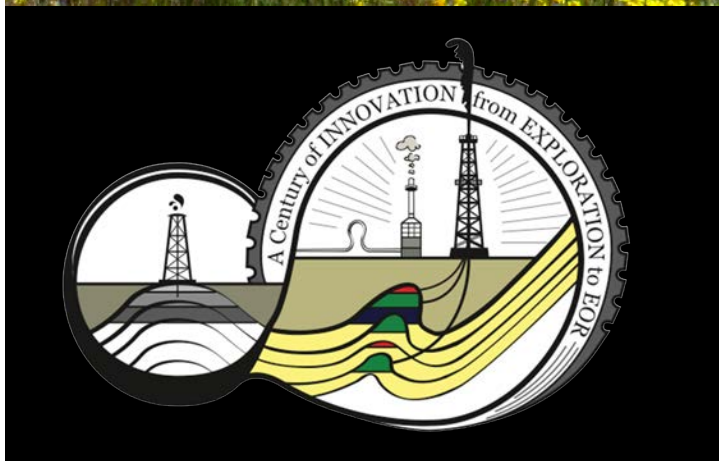
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