

PACIFIC  
SECTION

*2014 FALL FIELD TRIP ISSUE*  
*Pacific Sedimentologist*

Newsletter of Pacific Section, SEPM (Society for Sedimentary Geology)

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*Neoproterozoic and Miocene Extensional Tectonics &  
Sedimentation, Eastern Mojave Desert, CA*  
*November 8 - 9, 2014*

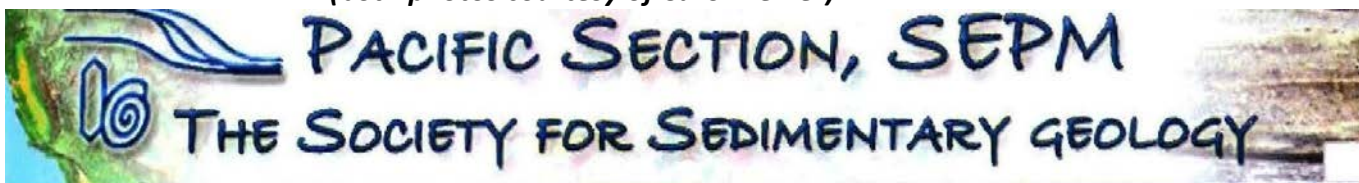


*Neoproterozoic strata (Middle Crystal Springs Fm. thru Horse Thief Springs Fm.), Silurian Hills*



*Diamictite within Neoproterozoic Kingston Peak Formation, Silurian Hills*

(both photos courtesy of Carol Dehler)



**President:**

**Todd Greene**

Department of Geological and Environmental Sciences  
California State University - Chico  
400 West First Street  
Chico, CA 95929-0205  
(530) 898 - 5546  
[tigreene@csuchico.edu](mailto:tigreene@csuchico.edu)

**Vice President**

**Russell Shapiro**

Department of Geological and Environmental Sciences  
California State University - Chico  
400 West First Street  
Chico, CA 95929-0205  
(530) 898 - 4300  
[rsshapiro@csuchico.edu](mailto:rsshapiro@csuchico.edu)

**Treasurer:**

**Adam Woods**

Department of Geological Sciences  
California State University, Fullerton  
P.O. Box 6850  
Fullerton, CA 92834-6850  
Phone: (657) 278-2921  
[awoods@fullerton.edu](mailto:awoods@fullerton.edu)

**Secretary**

**Ganqing Jiang**

Department of Geosciences  
University of Nevada, Las Vegas  
4505 So. Maryland Parkway  
Las Vegas, NV 89154  
Phone: (702) 895 - 2708  
[Ganqing.Jiang@unlv.edu](mailto:Ganqing.Jiang@unlv.edu)

**Managing Editor**

**Publications Manager**

**Mario V. Caputo**

Department Of Geological Sciences  
San Diego State University  
Phone: (909) 579-0573  
[mvcaputo@earthlink.net](mailto:mvcaputo@earthlink.net)

**Newsletter Editor**

**Eric D. Hendrix**

Earth Consultants International  
1642 East Fourth Street  
Santa Ana, CA 92701  
Phone: (714) 544 - 5321  
[ehendrix@earthconsultants.com](mailto:ehendrix@earthconsultants.com)

**Membership Manager**

**Wayne Henderson**

Department of Geological Sciences  
California State University, Fullerton  
P.O. Box 6850  
Fullerton, CA 92834-6850  
Phone: (657) 278-2972  
[whenderson@fullerton.edu](mailto:whenderson@fullerton.edu)

**Webmaster:**

**Tony Carrasco**

Department of Geological Sciences  
San Diego State University  
5500 Campanile Drive  
San Diego, CA 92182  
Phone: (619) 594 - 5589  
[tcarrasco@mail.sdsu.edu](mailto:tcarrasco@mail.sdsu.edu)

**Awards Manager**

**Daniel Sturmer**

Shell Exploration  
Houston, TX  
Phone: (813) 337-1416  
[daniel.sturmer@shell.com](mailto:daniel.sturmer@shell.com)

**Senior Advisor  
and Past-President Emeritus**

**Raymond V. Ingersoll**

Department of Earth, Planetary & Space Sciences  
University of California, Los Angeles  
(310) 825-8634  
[ringer@ucla.ess.edu](mailto:ringer@ucla.ess.edu)

*REMINDER: In an effort to "Go Green" and remain cost-effective, the PS-SEPM Newsletter is now issued in electronic version ONLY. However, members without Email access may still obtain hard copies for an extra fee....[Please Refer To Membership Form inside.](#)*

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**See also: Our PS-SEPM web site: [www.pacificsectionsepm.org](http://www.pacificsectionsepm.org)**





## *PS-SEPM President's Message*

Dear Members,

As I enter my first of two years as president of PS-SEPM and gaze at the names of past and current presidents and committee members, I am deeply humbled and honored to serve a society that has enjoyed so much success in joint meetings, publications, and field trips. I thank Past-President **Tom Anderson (UNR and CSU-Sonoma)** for showing me the ropes of the Society, and allowing me to pry and poke him about our Society's state of affairs. I'm excited to contribute to the organization in any way that I can, and I certainly welcome any suggestions and concerns members may have about our Society's role. For those interested in my background, I worked six years as a petroleum geologist for Anadarko Petroleum Corporation in Houston before coming to **CSU-Chico** as an Assistant Professor in 2007. I am now an Associate Professor and part-time consultant, heavily into clastic depositional systems, from local aquifer characterization to deep-marine Great Valley Group submarine canyon fill.

First off, I am deeply impressed with the Executive Committee's passion and enthusiasm for the Society. I only hope that my added presence as President will not dampen their energy too much. The hard work of Tom, **Mario Caputo**, **Wayne Henderson**, **Adam Woods**, **Eric Hendrix** and **Tony Carrasco** represent the long-time backbone of the Society, and I will rely on them heavily. I also want to both thank **Mario Caputo** for his 12 years of tireless work as Secretary of PS-SEPM (don't worry, Mario is still the Managing Editor and Publications Manager!), and welcome **Ganqing Jiang (UNLV)** as the new Secretary. Also please welcome **Ray Ingersoll (UCLA)** as our (fairly) new Senior Advisor (following the passing of former Senior Advisor **Gene Fritsche** last year), as well as **Mara Brady (CSU-Fresno)** serving as a new member of the Awards Committee and **Dan Sturmer (Shell Oil)** as Awards Manager.

I met many of the PS-SEPM members at the very successful joint PS-AAPG, PS-SEPM, PS-SEG meeting in Bakersfield last May. **Jonathan Allen (Chevron)** did a marvelous job organizing the PS-SEPM field trips, short courses, and technical sessions for the meeting, especially our field trip commemorating former Emeritus Advisor **Gene Fritsche (CSU Northridge)**. In addition, well-deserved Honorary Memberships were presented to **Dave Bottjer (USC)**, **Rick Behl (CSU-Long Beach)**, and **Bonnie Bloeser (Aera Energy)**. Although we were a bit short on PS-SEPM-sponsored student posters and presentations at the Bakersfield meeting, many have offered suggestions on how to improve student participation for next year.

Moving forward, the organization is planning at least two important events which I hope many of you will attend for Fall 2014 and Spring 2015. The **PS-SEPM Fall Field Trip** will be held **November 8-9, 2014**, in the **Silurian Hills and the Salt Spring Hills of the Mojave Desert** led jointly by **Russell Shapiro (CSU-Chico)**, **Carol Dehler (Utah State University)** and myself. Details have been posted on the PS-SEPM web site, and also follow in this newsletter. This trip will cover both the very old ("anomalous" section of the Neoproterozoic **Pahrump Group**) and the (comparatively) new (**Miocene megabreccias**), so there will be plenty of fun for all.

Next Spring, the **joint PS-AAPG/PS-SEPM meeting in Oxnard/Ventura will be held May 3-6, 2015**. **Rick Behl (CSULB)** has graciously agreed to be the PS-SEPM representative for our meeting activities, so stay tuned for the many opportunities to participate in a variety of great field trips, short courses, and technical sessions, and **encourage student participation!!**

I look forward to seeing more of the membership at future field trips and meetings, and please do not hesitate to contact me directly with any suggestions or comments as I get settled into my new position.

**Todd Greene (tjgreene@csuchico.edu)**

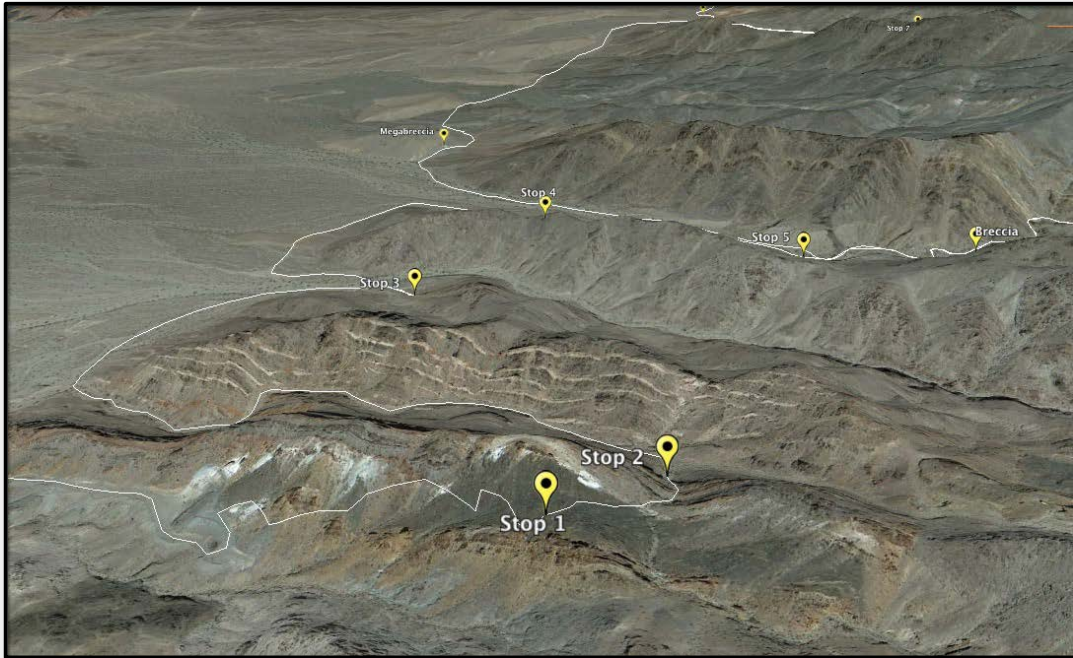
**Associate Professor, CSU-Chico**

**PS-SEPM President 2014 - 2016**



PACIFIC SECTION SEPM FALL FIELD TRIP  
November 8-9, 2014

CONTINENTAL EXTENSION  
OLD AND NEW AT THE EDGE OF THE MOJAVE



**Field Trip Leaders:**

**Russell Shapiro**

*California State University-Chico*  
rsshapiro@csuchico.edu

**Todd Greene**

*California State University-Chico*  
tjgreene@csuchico.edu

**Carol Dehler**

*Utah State University*  
carol.dehler@usu.edu

## FIELD TRIP OVERVIEW

This year's Pacific Section SEPM Fall Field trip will look at an excellently exposed section of the Meso-Neoproterozoic Pahrump Group (pre-Cryogenian Crystal Spring, Horse Thief Springs and Beck Spring Formations, Cryogenian Kingston Peak Formation and Ediacaran Noonday and Ibex Formations) in the Silurian Hills, as well as newly-described Miocene rock avalanche megabreccias in the northern Salt Spring Hills, with the goal of understanding the challenges of how to fit the deposits into a broader basin analysis context. Detailed correlations with regions outside the Mojave are challenged by complex faulting, magmatic overprinting, and a poor understanding of original basin geometry.

The Silurian Hills and Salt Spring Hills are found at the northern border of the Mojave Desert, at the eastern terminus of the Garlock Fault and south of Death Valley. During the Meso-Neoproterozoic, this region shifted from one of intracratonic platform to the leading edge of a new passive continental margin (Laurentia, formed from rifting of the older Rodinian supercontinent).

North and northeast of the Silurian and Salt Spring Hills, Neogene extension has exposed large swaths of time-correlative Proterozoic strata in such well-studied locales as the Panamint Range, Saddle Peak Hills, Kingston Range, and Alexander Hills. To the east lies the Shadow Valley, the location of spectacular Neogene extensional basins with thick sedimentary deposits, including enormous megabreccia sheets interpreted as far-traveled rock avalanches. South and southeast, significant exposures of Mesoproterozoic (and rare Paleoproterozoic) basement complexes of the Mojave Province are found in low relief hills. Recent crustal thinning in the area enabled extensive basaltic volcanism and young cinder cones and flows found throughout the area. Directly south and west of the area, late Permian through Cretaceous granitoids formed during the arc magmatism which obliterated the older rock record, although greenschist-grade windows of metasediments are preserved.

In contrast to the extensive normal-faulting within the Basin and Range province, the Mojave Desert is dominated by strike-slip faults and lateral translations which make direct correlations difficult. Similarly, understanding the geologic setting during major Miocene unroofing and extension is challenged by lateral translation, magmatism and uplift, and lack of appreciation for long run-out rock avalanches. The Salt Spring Hills are the westernmost expression of the megabreccia deposits well-described from the nearby Shadow Valley area and Valjean Hills.

**This PS-SEPM Fall Field Trip will focus on the following questions:**

**Question 1:** What is the nature of the major unconformity between the Crystal Spring and Horse Thief Springs formations?

**Question 2:** Is the Beck Spring Formation recognizable in the Silurian Hills?

**Question 3:** How does the Cryogenian Kingston Peak Formation in the Silurian Hills correlate to the Death Valley and Kingston Range sections? What are the facies variations?

**Question 4:** Are there post-glacial "cap carbonates" in the Silurian Hills and, if so, how many and can they be correlated to adjacent areas?

**Question 5:** Are the textures in the Neogene megabreccia deposits in the northern Salt Spring Hills consistent with a rock avalanche interpretation? If so, are there any indicators of provenance of the deposit to gauge run-out distances?

*We hope the PS-SEPM field trip will stimulate lively debate and new questions!*

## ITINERARY

This field trip is a walking field trip. The field trip will officially begin on Saturday morning at 7:30 a.m. in the Silurian Hills at **Gypsy Sally's**, a remnant structure from a bygone era. Participants can either show up Friday night at Gypsy Sally's to camp (*no dinner provided that night*), or stay nearby in Baker, Shoshone, or other campgrounds. Breakfast will be provided for all participants at 7:30 a.m. at Gypsy Sally's on Saturday morning, as well as sack lunches for the day's hike. The remainder of the day on Saturday will be spent in the Silurian Hills looking at the Proterozoic section. The total round trip mileage on Saturday is approximately 12 kilometers, comprising 10 stops with flat to moderate (and optional steep) hiking conditions. Dinner will be provided back at Gypsy Sally's as well as discussions and campfire chats.

On Sunday morning, participants will have breakfast and box lunches provided at Gypsy Sally's before we leave camp and drive 13 miles to the northern Salt Spring Hills to investigate Miocene rock avalanche deposits. Here, we will hike approximately five kilometers roundtrip with five stops. The majority of hiking at both localities is moderate with optional sections on steeper slopes. After returning from the hike, the trip will be over at approximately 1 p.m.

## TRANSPORTATION & LODGING

Participants are responsible for travel to the two field areas. Two-wheel drive vehicles with normal clearance will be acceptable. *There are dirt roads that may become impassable in inclement weather and participants will be updated.*

There are plenty of flat camping spots available for Friday and Saturday nights. We will be in the same area both nights. Open camping on BLM land is available at the field trip site for Friday and Saturday nights. ***Amenities are primitive with dry pit toilets and no potable water.*** Lodging is available in Baker, California (approximately 40 kilometers to the south) and Shoshone (approximately 56 kilometers to the north). Musical instruments are encouraged. Participants not camping are responsible for their own reservations AND for being promptly on time for field trip activities on Saturday and Sunday morning.

## WEATHER

The southern Death Valley region is generally sunny, dry, and clear throughout the year. The winters, November through March, are mild with occasional winter storms. Average DAILY highs in November are 75-62°F (24-17°C) and nighttime lows are 44-35°F (7-2°C). Most importantly, wind can be quite strong, especially at night. In short, prepare for sun, cold, rain, and wind.

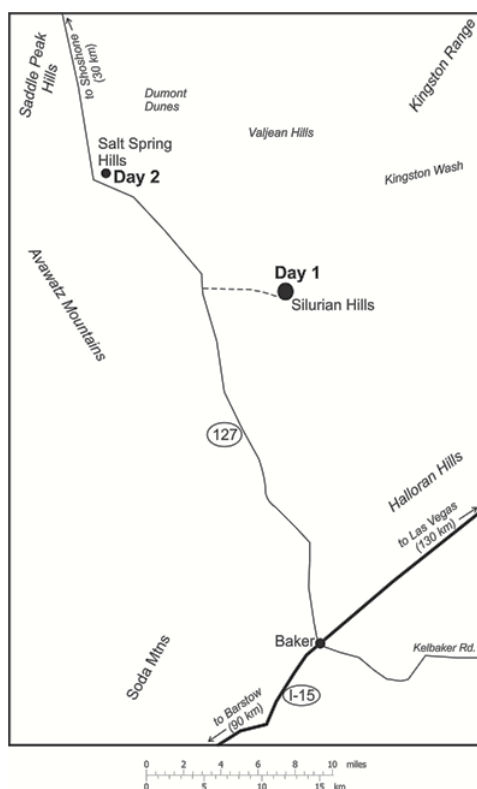
## MEALS & GAS

Meals for Saturday morning, lunch, and dinner, and Sunday breakfast and lunch will be provided. ***Please bring plenty of water for hiking and personal use.*** Participants are responsible for their own meals on Friday night, and Sunday night after the trip. Food, gas, and supplies are available in Baker (south of the field area) and Shoshone (north of the field area).

## RECOMMENDED FIELD GEAR

- Bring clothes that you don't mind getting dirty/ripped. Be prepared for a range of temperatures/conditions;
- Sturdy hiking boots (with ankle support and good traction) (sandals and lightweight shoes NOT recommended) and 2nd pair of shoes in case 1st pair gets wet;
- Pants to protect against sharp rocks and plants;
- Layers and warm clothes for cool evenings;
- Layers and lightweight clothes for warm days;
- Sunscreen;
- Sunhat and sunglasses;
- Rain gear;
- Windbreaker jacket;
- Water bottles or camelback (at least 2 liter capacity, 4 liters recommended);
- Rock hammer (optional);
- Day pack (big enough to carry field gear, lunch, camera, water, and extra clothing);
- Hand lens;
- small magnet;
- HCl 10% solution acid bottle (optional)

## DIRECTIONS & MAP



The Silurian Hills section is located 40 kilometers north of Baker. It is accessed by driving approximately 34 kilometers north on State Route 127, then turning east across a (hopefully) dry playa. A dirt road will bring participants directly to Gypsy Sally's, 7 kilometers from the highway.

On Sunday, participants will drive the 7 kilometers west out of the playa, and drive 14 kilometers north along Highway 127 to a rest stop next to the northern Salt Spring Hills. We will then hike to various field spots and back to the cars for approximately five kilometers round trip. The field trip will be officially over by 1 p.m. on Sunday.

Specific details will be provided to registered participants.





***ATTENTION PROFESSORS!***  
***PLEASE CONSIDER NOMINATING YOUR STUDENTS -***  
***LUCRATIVE CASH AWARDS FOR WINNERS!!***

## PS-SEPM ANNUAL STUDENT AWARDS

- **JOHN D. COOPER AWARD**

*Best Undergraduate Poster  
Presentation @ Annual Spring Conference*

- **JOHN C. CROWELL AWARD**

*Best Graduate Thesis or Dissertation*

- **RAYMOND V. INGERSOLL AWARD**

*Best Undergraduate (Senior) Thesis*

- **PATRICK L. ABBOTT AWARD**

*Best Graduate Student Poster  
Presentation @ Annual Spring Conference*

PLEASE SUBMIT NOMINATIONS FOR THE  
**CROWELL AND INGERSOLL AWARDS** DIRECTLY  
TO PS-SEPM AWARDS MANAGER  
**DANIEL STURMER** ([daniel.sturmer@shell.com](mailto:daniel.sturmer@shell.com))

# CONFERENCE SUMMARY

*PS-SEPM – PS-AAPG - SEG Annual  
Joint Technical Conference,  
Convention Center Marriott  
Hotel, Bakersfield, CA  
April 26– 30, 2014*



**Honorary Membership Award Recipient Bonnie Bloeser (PS-SEPM Past President and past Treasurer) with her citationist Tony Murer (middle) (both with Aera Energy) and PS-SEPM 2012 - 2014 President Tom Anderson (UNR - Reno). (Photo: Noel Velasco, Aera Energy)**

Our annual PS-SEPM Spring Meeting and Convention was held this year in **Bakersfield, California**, as part of the **Annual PS-AAPG-PS-SEPM-SEG Spring Conference**, and was a great success. The venue was **the Marriott Hotel at the Bakersfield Convention Center**.

The technical program included nine (9) separate oral presentation theme sessions with four (4) poster sessions. There were also eight (8) field trips and three (3) short courses.

Theme Sessions Sponsored or Co-sponsored by SEPM included the following:

***Fine-Grained Biosiliceous Rocks; the Monterey Formation and Beyond;*** Richard Behl and Dan Schwartz, Presiding

***From Fluvial to Deepwater: Clastic Reservoirs and Depositional Systems of the West Coast.*** Glenn Sharman and Mike Clark, Presiding

***Cenozoic Geologic History of Southern California – Dedicated to the Memory of A. Eugene Fritsche.*** Tony Reid and Mario Caputo, Presiding

A separate **Graduate Research Poster Session** was held, which the PS-SEPM Executive Committee judged for the presentation of our annual **John Cooper Memorial Award**.

The winner and recipient of the **Cooper Award** was **Chris Bowie of CSU-Fresno**, a student of PS-SEPM ExCom member and 2013 Vice President **Mara Brady**, for his presentation on Devonian mid-continent stratigraphic discontinuities. A plaque and cash award were presented. **CONGRATULATIONS Chris.**



**Honorary Membership Award Recipient Dave Bottjer (USC) with his citationist Adam Woods (CSU-Fullerton, PS-SEPM Treasurer). (Photo: Tom Anderson)**

## *Honorary Membership and Special Awards Ceremony*

The PS-SEPM 2014 **Honorary Membership Award recipients** were celebrated with a special ceremony at the Bakersfield conference. **Bonnie Bloeser (Aera Energy), David Bottjer (USC) and Rick Behl (CSU-Long Beach)** were each presented this award by their respective citationists (pictured herein; refer also to Spring 2014 PS-SEPM Newsletter for full citations). **CONGRATULATIONS AND MANY THANKS TO EACH OF YOU!!!**

Additionally, **Bonnie Bloeser** (past-President 2011 - 2012 and past-Treasurer) was presented with a **Special Service Award** by the PS-SEPM Executive Committee. Bonnie was presented with a special plaque, and also **a collection of fine Bordeaux and California wines**, which she graciously shared with her fellow awardees, PS-SEPM ExCom members, her husband Harold, and other attendees of the ceremony. **Thank you again Bonnie for your dedicated service to our organization!**



**Honorary Membership Award Recipient Rick Behl (CSU-Long Beach, PS-SEPM Past President) with his citationist Tom Anderson. (Photo: Mario Caputo)**



**2014 Honorary Membership Awardees ( L to R), Rick Behl, Bonnie Bloeser and Dave Bottjer; (photo: Mario Caputo)**



**Bonnie Bloeser receives Special Recognition Award for her dedicated service to PS-SEPM; with PS-SEPM Managing Editor, Publications Manager and former Secretary Mario Caputo (CSU - San Diego). (Photo: Noel Velasco, Aera Energy).**

## *RANDOM NOTES*

### *Spring 2015 Joint PS-SEPM, PS-AAPG and SEG Annual Conference, Oxnard, CA*

We are planning and looking forward to the **2015 Convention in Oxnard**, hosted by the Coast Geological Society. The meeting is **May 3-6, 2015** at the **Mandalay Beach Hotel and Resort Embassy Suites**. PS-SEPM Past President and Honorary Member **Rick Behl** (CSU-LB) has graciously volunteered to serve as our society's liaison and representative for planning of the conference program. **Thank you again Rick for your virtually unbroken string of leadership and participation at our Annual Conferences, over many years!**

Preliminary volunteered involvement by PS-SEPM for the conference thus far include a special paleontology session in honor of **Richard "Dick" Squires** (CSU-Northridge), and a field trip through the Point Dume-Paradise Cove section of the Monterey/Modelo Formation and a core workshop, both led by **Rick Behl**.

As every year, **we are actively seeking involvement from other PS-SEPM members** who may wish to organize theme sessions, short courses and field trips. More formal announcements and convention details will be posted subsequently on both the PS-SEPM and PS-AAPG web sites.

Please contact **Rick Behl** ([Richard.Behl@csulb.edu](mailto:Richard.Behl@csulb.edu)) or PS-SEPM President **Todd Greene** ([tjgreene@csuchico.edu](mailto:tjgreene@csuchico.edu)) should you have interest and/or suggestions.

**The continued success of these events depends upon your participation! Thank You!!**

### *PS-SEPM Web Site*

**Tony Carrasco** of San Diego State University occupies the role of **PS-SEPM Web Master**. Web page contents may be viewed at [www.pacificsectionsepm.org](http://www.pacificsectionsepm.org).

The web site includes details of the PS-SEPM organization, convention/meeting information, field trip information, list of PS-SEPM publications available for purchase, past field trip and convention photos, Society awards, newsletter archive, status of endeavors such as the **AAPG Data Pages project** (discussed below), and **historical archives** of the Society (past awards, past Executive Committee members, etc.; also discussed below).

Tentative **modifications-in-progress** for the web page include the following: 1) images of front covers of documents available in our Publications List; 2) Access to Pay-Pal account for publications purchase and field trip registrations; 3) Awards and Awardees, citations and photos4b 7

The web page is continuously a work-in-progress, and will be evolving constantly to best serve the needs of our membership. **Your comments and suggestions are welcomed and encouraged!**



## *Electronic Catalog Of PS-SEPM Publications: NOW AVAILABLE!*

The Executive Committee contracted for the creation of electronic (PDF) availability of **ALL PS-SEPM publications**, via the **AAPG “Data Pages” Project**. The E-copies include rare, old and out-of-print publications as well as those still in print (see Publication List at rear of this newsletter). Thank you to those members who have graciously provided copies of their out-of-print and rare publications! The digitizing process is close to completion. **The majority of our catalog is now available for sale via the AAPG web site: [www.aapg.org](http://www.aapg.org). Once at the website, click the following order of links and pull-down menus: Publications, Datapages, Associated Websites, Archives, Browse Collections and Pacific Section SEPM.**

PS-SEPM Publications and Managing Editor **Mario Caputo** has worked diligently to research, collect and coordinate the scanning of these publications, interfacing with the AAPG Data Pages project representatives to ensure successful completion of this important project. **Thank you Mario for all of your efforts!**

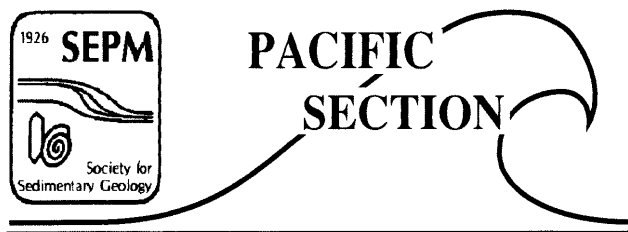
Our ultimate goal is to also make E-copies available as PDF documents for sale via the **PS-SEPM web site**, in part to encourage sales of our entire outstanding publications catalog to universities, corporations, libraries, etc. as an added revenue stream. Marketing of the PS-SEPM catalog via the Data Pages Program is part of our contract agreement with them.

More details and status updates will be provided as the project progresses.

## *Historical Archive Of PS-SEPM*

We are actively seeking anyone with information regarding the history of PS-SEPM to please contact **Ray Ingersoll** ([ringer@ucla.ess.edu](mailto:ringer@ucla.ess.edu)) with this information, so that we may develop a comprehensive historical archive for our web site. **Thus far, efforts have produced an impressive first draft of this archive...many thanks to Ray for spearheading this project!**

Information of interest includes a) listing of past officers; b) listing of past field trips and their leaders, and c) listing of those who have received PS-SEPM awards.



*PACIFIC SECTION - SEPM  
MEMBERSHIP INFORMATION, 2014*

The Pacific Section SEPM has grown to become an international society with more than 400 members, attracting students and working professionals from the United States, mainly from California and other Pacific states including Hawaii and Alaska, and from Canada, Europe, Asia, and South America. Help maintain the vitality of the Pacific Section, SEPM by renewing your membership and recruiting new members, especially undergraduate and graduate students majoring in the geosciences. Please distribute copies of the **membership form (provided on the next page)** to colleagues and students who have an interest in sedimentary geology. The form is available also on the PS-SEPM website.

A **Lifetime Membership** is also available for a one-time dues payment. See schedule below for age and payment categories. Honorary and Lifetime Members are permanent members of the Society; they are exempt, of course, from further dues payments. Please send your membership application or renewal to:

**Wayne Henderson, PS-SEPM Membership Manager**  
**Department of Geological Sciences**  
**California State University, Fullerton**  
**Fullerton CA 92834-6850**

**PLEASE PROVIDE/UPDATE YOUR EMAIL ADDRESS WHEN YOU RENEW!!**  
**(Otherwise You Will NOT Receive Future Newsletters And Announcements!)**  
**(Except As Described Below)**

## **Membership Dues**

### **Regular membership dues:**

**\$ 7.50 for a 1-year professional membership**

**\$20.00 for a 3-year professional membership**

**\$ 5.00 for a 3-year student membership**

**(Please add \$25.00 to each category if you wish to receive Hardcopy versions of the Newsletter)**

### **Lifetime membership dues:**

**\$150.00 for age group 20-40 years**

**\$100.00 for age group 40-60 years**

**\$ 50.00 for age group 60 years and older**

**(Please add \$50.00 for each category if you wish to receive Hardcopy Newsletters)**

## **Good Reasons for Joining the Pacific Section SEPM**

- The Pacific Section SEPM is one of the premier geological societies of western North America.
- Members benefit from discounts on superbly done field-trip guidebooks and special publications that address sedimentologic, stratigraphic and paleogeographic aspects of the Pacific region of the United States.
- Your membership dues sustain the Society by helping defray costs of publications. They further help support the operation of the California Well Data Repository (for borehole logs, cores, cuttings, microfossils, and other data) in Bakersfield, California. A **Society Website** provides up-to-date information on officers and other members, field trips and conferences, short courses, publications, and job openings

## Pacific Section – SEPM (Society for Sedimentary Geology) Membership Form, 2014

CHECK ONE ( ): Renewed Membership

( ): New Membership

Individual		
Last Name	First Name	Middle Initial
Company or Corporation		
Business Name:		

Preferred Mailing Address: Business or Home – PLEASE COMPLETE ONLY ONE			
Business Address	Name of Business or Teaching Institution		
	Street or P. O. Box #		
	City	State	Postal Code
Home Address	Street or P. O. Box #		
	City	State	Postal Code

### Telephone & Email

Business

Home

Cell

Email Address

Highest Degree Earned	
Year Earned	
Institution	
Specialization	

<b>Regular Memberships</b> (check ✓ one)	1-year professional	\$ 7.50	
	3-year professional	\$20.00	
	3-year student	\$ 5.00	
<b>Lifetime Memberships</b> (check ✓ one)	20-40 years old	\$150.00	
	40-60 years old	\$100.00	
	60 years old and older	\$ 50.00	
	CORPORATE	\$500.00	



**PACIFIC SECTION**

Make check payable to Pacific Section SEPM & send payment and this form to: Wayne Henderson?

Department of Geological Sciences  
California State University, Fullerton  
P. O. Box 6850  
Fullerton, CA 92834-6850

Please help increase membership in the Pacific Section SEPM by copying this form and giving it to students and colleagues who share an interest in sedimentary geology, sedimentary tectonics, stratigraphy, and paleontology

# PUBLICATIONS LIST (arranged in order by year of publication)

## Pacific Section SEPM (Society for Sedimentary Geology) 08-27-2014

book #	TITLE	AVAILABILITY
	<b>Whittier Hills and the Type Locality of the Sycamore Canyon Formation, California; Guidebook for Pacific Sections AAPG &amp; SEPM:</b> Lee, A. T., and Ten Eyck, R. E., leaders, 1944, 2p of maps	AAPG Datapages
	<b>San Emigdio Creek, Kern County, California; Field Trip Guidebook for Pacific Section SEPM:</b> Kelly, R. B., and Anderson, J. Q., leaders, 1948, 2p, plus 2 oversize maps	AAPG Datapages
	<b>Hollister Ranch, El Bulito Canyon, and Vicinity of Refugian Type Section, Santa Barbara County, California; Field Trip Guidebook for Pacific Section SEPM:</b> Dibblee, Tom, Jr., Simonson, R. R., and Hollister, Joe, leaders, 1949, 9p, plus 1 oversize map and 1 oversize column	AAPG Datapages
	<b>North Mt. Diablo Monocline; Field Trip Guidebook for Pacific Sections AAPG &amp; SEPM:</b> Church, C. C., Solari, Al, Cross, C. M., and Dillon, W. E., authors, 1950, 16p	AAPG Datapages
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	<b>Western Santa Ynez Mountains, Santa Barbara County, California; Field Trip Guidebook for Pacific Section SEPM &amp; CGS:</b> Weaver, D. W., & Dibblee, T. W., Jr., leaders, 1965, 52p, plus 1 oversize map and 3 oversized columns	AAPG Datapages
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	<b>Central Santa Monica Mountains Stratigraphy and Structure; Guidebook No. 7 for Pacific Sections AAPG &amp; SEPM:</b> Sullwold, H. H., Campbell, R. H., and Yerkes, R. F., leaders, 1967, 13p	AAPG Datapages
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