

Pacific Sedimentologist

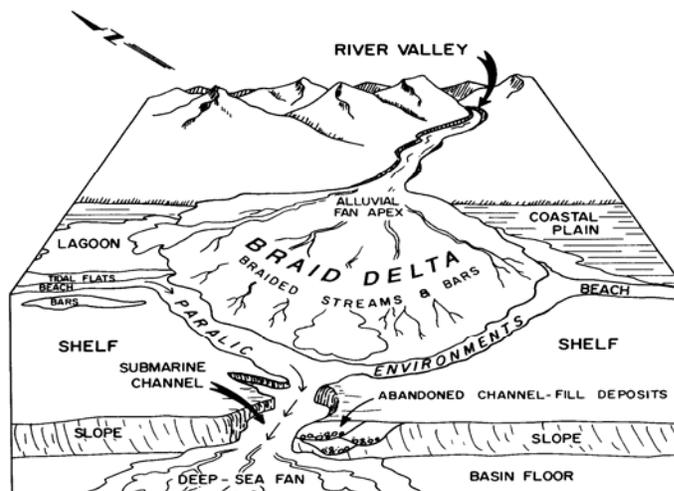
FALL FIELD TRIP ISSUE



PACIFIC
SECTION

Newsletter of the Pacific Section, SEPM
(Society for Sedimentary Geology)
<http://www.sci.sdsu.edu/pacsepm>

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Depositional model for the middle and upper Eocene strata in the San Diego area (from Link, M. H., and Abbott, P. L., 1991, Eocene sedimentary history, San Diego, California: Overview and field trip stops, in Abbott, P. L., and May, J. A., eds., Eocene Geologic History San Diego Region: Pacific Section, SEPM Book 68, p. 1-26).

volume 77, issue 2

September, 2005

PS-SEPM Fall Field Trip scheduled for October 29 – 30, 2005

Sedimentology and Facies Architecture of Channelized Slope Systems: Eocene Ardath and Scripps Formations and Miocene Capistrano Formation, Southern California

Field Trip Leaders:

Kirt M. Campion – ExxonMobil Upstream Research Company
Anthony R. Sprague – ExxonMobil Upstream Research Company
Morgan D. Sullivan – Chevron Energy Technology Company

Field Trip Overview:

The Pacific Section SEPM fall field trip will focus on the architecture, lithology, and distribution of facies within two different deep-water systems exposed at two localities in southern California. Both systems were deposited in continental slope environments. Middle Eocene strata in the Ardath and Scripps Formations near La Jolla, California were deposited in an upper slope environment within a relatively larger submarine canyon. In contrast, Miocene strata in the Capistrano Formation at San Clemente, California were deposited near the distal edge of a lower slope environment within a complex of relatively smaller channels. Channel sedimentation in both deep-water systems display a well-developed hierarchy of architectural units consisting of channel stories, channels, channel complexes, and channel complex sets. Lithofacies within these slope systems range from gravelly coarse-grained turbidites to muddy, low-concentration turbidites.

Field trip information on next page. Registration Form at end of newsletter.

Pacific Section SEPM Annual Fall Field Trip

Day 1 – Saturday October 29, 2005, San Clemente State Beach

Where to meet: San Clemente State Beach campground at day-use parking area located at west (oceanward) end of campground near trail head to beach at **9:00 a.m.**

How to get there I-5 to San Clemente; take Califia exit. Heading down hill on Califia, look for entrance to San Clemente State Beach (SCSB) campground (up on the terrace) on the left. Do not park at the Califia Beach Park at beach level (metered lot; charges a quarter for every 15 minutes!). An entrance fee of \$10.00 per vehicle per day is required for the State Beach day-use parking lot, so it behooves you to carpool!!

Camping at SCSB: For those wishing to camp, there are three (3) campsites reserved for Friday night (sites 127, 128, 129) and six (6) reserved for Saturday night (sites 127, 128, 129, 130, 132, 133,) at the San Clemente Beach campground. Each campsite can accommodate up to eight (8) people and three (3) vehicles, hence you are strongly urged to carpool. These reserved sites will be filled in the order of request on registration form – so if you plan to camp here, register early and indicate how many nights. If these sites fill up quickly we will try to reserve additional ones. Instructors bringing groups of students should register as early as possible. You will be emailed camping confirmation as soon as you register. Campsites are being paid for by Chevron Energy Technology Company; however, there will be a \$7.50 charge for each vehicle in camping site (maximum of three for each site)

Other lodging: San Onofre State Beach, approximately 3.5 miles south of San Clemente, has two campgrounds: The Bluffs and San Mateo. If you wish to camp here, make your own arrangements on line by Googling San Onofre State Beach and following the procedure. The San Clemente State Beach website also has a list of motels in the San Clemente area. Whatever you plan to do for accommodations, do it quickly – this is a popular area and campsites/rooms will go fast.

Day 2 – Sunday, October 30, La Jolla/Torrey Pines State Beach

Where to meet: Torrey Pines Beach, at first lifeguard station from parking lot at **9:00 a.m.**

How to get there: From I-5 take the Carmel Valley Road exit to the coast (North Torrey Pines Road, State Route 21). Go left (south on North Torrey Pines Rd/21). Parking lot entrance at South Beach and Reserve. Fee: \$5.00 per vehicle. Parking is free along North Torrey Pines Road if you can find space.

Your Needs: You are responsible for your own food, snacks, refreshments, and water. Guidebook and handouts are covered in registration fee. Students will be given complimentary guidebooks from ExxonMobil Upstream Research Company.

Logistical Questions: contact John Cooper (714-278-2662; jcooper@fullerton.edu)

A message from PS-SEPM President, Morgan Sullivan

So You Did Know the Way to San Jose!

Based on the huge success of the joint meeting of the Pacific Section of AAPG and SEPM and the Cordilleran Section of GSA in San Jose this past April, many of you did know the way to San Jose! Hats off to the Department of Geology at San Jose State University for hosting the meeting and especially the students from San Jose State who did a superb job registering participants and making everything run smoothly. A special thanks goes to Nancy Carlson at GSA for handling pre-registration. As a member of the technical committee, I could not believe how easy it was to organize sessions with Nancy always available to help. More than 1000 people attended, a number that exceeded expectations. Most technical sessions filled to near capacity; some with standing room only. Scheduling the meeting during a weekend was a good planning tactic because it allowed more students to attend. Before this one, I had not ever seen so many students at a professional meeting! The poster session that showcased undergraduate research was particularly noteworthy because the participating students really enjoyed displaying and explaining their projects. There was strong participation in the Mentorship Programs in geoscience and hydrogeology; the feedback I received on these was extremely positive. Thank you, mentors. Sustaining the geoscience profession relies on many things, and the mentoring programs at this meeting certainly contributed to that goal by nurturing student interest in geology.

The Pacific Section SEPM sponsored 6 technical sessions, a record high at a regional meeting, and all the session chairs and presenters put together strong, excellent programs. The Society also co-sponsored a short course on the application of sequence stratigraphy to aquifers

(see Kenn Ehman's summary in this newsletter), and published four fieldtrip guidebooks (PS-SEPM Books 96, 97, 98, and 99) that contained 9 of the 13 trips that were run during the meeting. Honorary Memberships in the Pacific Section of SEPM were presented to Bill Bilodeau (California Lutheran University) and to Stan Finney (California State University, Long Beach) for their significant contributions to the Society over the course of their careers.

Remember the Pacific Section SEPM fall, 2005 field trip to be held Saturday, October 29 and Sunday, October 30. For the last two years, the fall trip has been in the northern California area, however, this year the field trip staging area will return to southern California. We are especially fortunate this year to have Kirt Campion of ExxonMobil Upstream Research Company as a field trip co-leader. The trip will visit the superb outcrops of deep water strata in the Eocene Ardath and Scripps Formations along coastal San Diego County and strata of similar origin in the Miocene Capistrano Formation at San Clemente. On Saturday night, we will be camping overlooking San Clemente beach. The trip promises to be most enjoyable and educational for both professionals and students. Kirt has led this trip many times for the ExxonMobil Deepwater Field School and a large turn out is expected. Details are posted in this issue of the Society newsletter, *Pacific Sedimentologist*, and on the Pacific Section SEPM web site (<http://www.sci.sdsu.edu/pacsepm>).

I hope to see y'all at the fall field trip in October!

Morgan D. Sullivan, President, PS-SEPM
Chevron Energy Technology Co.

***HIGHLIGHTS FROM THE JOINT MEETING: PACIFIC SECTION AAPG, PACIFIC SECTION SEPM, and CORDILLERAN SECTION GSA
San Jose, California, April 29 – May 1, 2005***

Sequence Stratigraphy Short Course at Joint Meeting in San Jose a Success!

A short course on sequence stratigraphy and its application to aquifer architecture was a success! Offered at the joint meeting of Pacific Section AAPG, Pacific Section SEPM, and Cordilleran Section GSA in San Jose last spring and co-sponsored by Pacific Section SEPM, U. S. Geological Survey, and California State University at Chico, the two-day workshop was held at the U. S. Geological Survey facility at Menlo Park. It introduced the concepts of sequence stratigraphic analysis to an audience that included college students and representatives from consulting firms and local and state water agencies. The workshop consisted of a combination of lectures and exercises that provided hands-on experience in learning the concepts of sequence stratigraphy. Exercises included classic case studies from which many of the original concepts in sequence stratigraphy were derived. One of the workshop exercises involved a case study from the Los Angeles Basin. It illustrated how sequence stratigraphy can be used to solve problems with intrusion of seawater into freshwater aquifers in the Long Beach area of the southern Los Angeles Basin. To help delineate the pathways of seawater

intrusion, workshop participants utilized in this exercise new reflection data from hi-resolution seismic surveys and integrated borehole data from U. S. Geological Survey research.

Two of the three instructors, Kenn Ehman and Morgan Sullivan, received their training in principles of sequence stratigraphy from Exxon Production Research Company in Houston, Texas in the 1980s and 1990s. Ehman is now the principal of Skyline Ridge, Inc., a firm that specializes in the application of stratigraphy to problems in groundwater resources. Sullivan, former faculty at California State University, Chico now at Chevron Energy Technology Company in Houston Texas, applies sequence stratigraphy in the search for oil and gas. The third instructor, Brian Edwards, is a marine research geologist with the U. S. Geological Survey in Menlo Park. The three instructors thank the Marine and Coastal Processes Team of the U. S. Geological Survey for supporting the short course.

***Kenn D. Ehman, Vice President, PS-SEPM
Skyline Ridge, Inc.***

***Pacific Section Confers Honorary Lifetime Membership at Joint Meeting to
Stanley C. Finney and William L. Bilodeau***

The Pacific Section SEPM has upheld a tradition of awarding Honorary Lifetime Membership to those active members who have demonstrated loyalty and commitment to the Society and a record of service and achievement in the Society by holding office, leading field trips, offering short courses, planning conferences, editing guidebooks, and publishing papers. The Executive Committee elected Stan Finney (California State University, Long Beach) and Bill Bilodeau (Cal Lutheran University) as the recipients of this award for 2005. The conferring of the honor took place at the joint

meeting of AAPG-SEPM-SEG-GSA in San Jose, during a special recognition ceremony that immediately followed SEPM technical session (T22), "Beds to Basins in Turbidite Systems," on Friday, April 29 in the Crystal Room of the Fairmont Hotel, the official site of the joint meeting. Morgan Sullivan opened the ceremony; John Cooper served as citationist for both candidates. The Pacific Section proudly congratulates Stan and Bill for their contributions. A transcript from that ceremony has been reproduced on the next page.

Transcript of Citation Given to Stanley C. Finney and William L. Bilodeau
by John Cooper

Periodically through the years, PS-SEPM gives special recognition to a few select active members for their sustained track record of contributions to the Society, as well as achievements in teaching and/or research and/or professional service. This recognition takes the form of Lifetime Honorary membership in the Society. Through its more than 75-year history, PS-SEPM has awarded 24 individuals with honorary membership, from among more than 5,000 members. Today I take great personal satisfaction in presenting honorary membership to Stan Finney, California State University, Long Beach, and Bill Bilodeau, California Lutheran University – two long-time valued friends.

Stanley C. Finney

Stan Finney received his Ph.D. in Geology from The Ohio State University and had post-doctoral stints at the Field Museum in Chicago and Memorial University, Newfoundland. In the Spring of 2002, he was a Fullbright distinguished Chair in Natural Sciences at Salzburg University, Austria. Stan has been a professor at Cal State University, Long Beach in 1986, and chair of the Department of Geological Sciences since 1988. Prior to coming to Long Beach, Stan taught at Northern Arizona University and Oklahoma State University.

In 1993, Stan proposed that PS-SEPM publish the Proceedings and fieldtrip volumes for the 7th International Symposium on the Ordovician System to be held in Las Vegas, June 1995. With enthusiastic approval of the Society's executive committee, Stan carried this to and received approval from the Symposium planning committee. This led to PS-SEPM Books 77 (*Ordovician Odyssey*) and Book 78 (*Ordovician of the Great Basin fieldtrip guidebook*). The two volumes, thanks to Stan's foresight, definitely increased the international visibility of the Pacific Section. Stan, in addition to serving as Chairman of the Symposium, co-edited *Ordovician Odyssey*, was co-author on four papers in the volume, and co-led two of the fieldtrips.

In addition to being a fine teacher, Stan has carved out a productive research career in the rocks of the Ordovician System, focusing principally on graptolite systematics, biostratigraphy, and paleoecology, and more recently on detrital zircon studies. His more than 60 publications on various aspects of the Ordovician stem from research in central Nevada, Texas and Oklahoma, and the southern Appalachians. His work abroad has led him to eastern Canada, Europe, and, most recently to Argentina and its exotic Precordilleran terrane.

Stan has been very active in professional leadership roles in the IUGS, including the International Committee on Stratigraphy and as subcommittee chair on Ordovician Stratigraphy. He has also served as chair of the Graptolite working group of the International Paleontological Association. Stan has also been a very active, contributive member

of PS-SEPM and served as its Treasurer from 1993 – 1995 and President in 2000-2001, sandwiched between President-elect and Past President. I am indeed proud to present this award to Stan Finney. He couldn't be here in person because he is on his way to Argentina; so accepting for him is CSULB colleague, Gregory Holk.

William L. Bilodeau

Our next recipient is Bill Bilodeau, from California Lutheran University. Bill received his Ph.D. in Geology from Stanford University where his supervisor was fellow honorary PS-SEPM member, Bill Dickinson. Stanford was where he also met his wonderful wife, Sally, who is present here today. From 1979 to 1987, Bill taught geology at the University of Colorado, Denver. In 1988 he received the Best Paper Award from the Association of Engineering Geologists for his co-authored paper, "Geology of Boulder, Colorado," published in the Association's bulletin. In 1989, he was a field geologist with the Denver Water Department and worked on a mapping project in western Colorado for water reservoir and tunneling sites. Bill has been at Cal Lutheran University since 1990; teaching a great variety of classes in sedimentology and stratigraphy, field geology, tectonics and sedimentation, structural geology, geophysics, and basin analysis. His research has focused on tectonics and sedimentation and basin analysis of Mesozoic rocks in the SW Cordillera.

Back in 1987, Bill was an instructor in the Semester at Sea Program, operated by the University of Pittsburgh, where he taught oceanography and plate tectonics on the ship *S. S. Universe*, while sailing around the world with 500 college students. This experience infused in him the desire to take himself and students to foreign lands. Since his arrival at Cal Lutheran, every other year he and Sally have led student trips to places

such as Italy and Sicily, Costa Rica, Peru, Turkey and Greece, Egypt, and most recently to Ecuador and the Galapagos Islands. The next trip with students is planned for Belize and Yucatan. These trips have provided terrific geological and cultural experiences for these fortunate students. In addition to these trips, Bill is recognized as an outstanding and inspirational teacher, and has consistently brought students to professional meetings and Society field trips, introducing them to valuable professional experiences and interactions.

Bill has served PS-SEPM in many ways, including involvement in numerous annual Pacific section AAPG and Pacific Section SEPM meetings as session planner, chair, program organization, as well as presentations. Bill served as Treasurer of the Society from 1995 to 1997 and as President in 2002-2003, sandwiched in between stints as President-Elect and Past President. Please join me in congratulating Bill Bilodeau on this well-deserved award. Bill, please come forward to receive your plaque.

**PACIFIC SECTION-SEPM
MEMBERSHIP INFORMATION, 2005**

The Pacific Section SEPM has grown to become an international society with more than 600 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.

The year printed to the right of your name on the address label of the newsletter indicates the year up to which you have paid membership dues. If the year is 2005 or older, please renew your membership and remit dues in the category of your choice, either a 1 year membership for students or a 1- or 3-year membership for professionals. A **Lifetime Membership** is now available for a one-time dues payment. See schedule below for age and payment categories. Honorary and Lifetime Members (indicated by the abbreviations, Hon and Life, respectively, on mailing labels) are permanent members of the Society; they are exempt, of course, from further dues payments. Please send your membership application or renewal to:

**John D. Cooper
Department of Geological Sciences
California State University, Fullerton
Fullerton CA 92834-6850**

PLEASE UPDATE YOUR EMAIL ADDRESS WHEN YOU RENEW.

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 1-year student membership

NEW!

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



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 and stratigraphic 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:

<http://www.sci.sdsu.edu/pacsepm>

BOOKMARK THE ABOVE WEB ADDRESS FOR QUICK AND READY REFERENCE

- **Society Newsletter, *Pacific Sedimentologist***, distributed quarterly to members by email and surface mail. It features news and events such as field trips and conferences that are planned throughout the calendar year. Please share any information pertinent to the Society by sending it to **Mario V. Caputo, Newsletter Editor** at mvcaputo@earthlink.net.

**Pacific Section – SEPM (Society for Sedimentary Geology)
Membership Form, 2005**

Renew

New Member

Last Name	First Name	Middle Name or Initial
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Preferred Mailing Address: <i>Business or Home - SELECT ONE</i>			
Business	Company or Teaching Institution		
	Street or P. O. Box #		
	City	State	Postal Code
Home	Street or P. O. Box #		
	City	State	Postal Code

Telephone	
Business	
Home	
FAX	

Email Address

Employment	
Employer Name	
Job Title	

Education	
Highest Degree Earned	
Year Earned	
Institution	
Specialization	

State Certifications/Registrations

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



Make check payable to "Pacific Section, SEPM," and send to:

John D. Cooper
PS-SEPM Treasurer
Department of Geological Sciences
CSU Fullerton
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<p>PLEASE HELP INCREASE MEMBERSHIP IN THE PACIFIC SECTION – SEPM. COPY THIS FORM AND GIVE IT TO STUDENTS AND COLLEAGUES WHO SHARE AN INTEREST IN SEDIMENTOLOGY.</p>
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REGISTRATION FORM

Pacific Section SEPM Fall Field Trip 2005 October 29 - 30, San Clemente and La Jolla, California

Please fill out one form *per person*. *Required registration fee* pays for field trip guidebook and the basic field trip fee for either *professionals* or *students* (field guide for students is free, compliments of ExxonMobil Upstream Research Company). Vehicle parking fees for San Clemente State Park (\$10.00/day) and at Torrey Pines State Park (\$5.00/day) are **NOT included** in field trip fees.

Name: _____

Address: _____

Telephone: _____ Email: _____

Please circle the days that you will be attending:

Saturday

Sunday

Both

Required Registration Fee:

PS-SEPM Member fee (professional): \$25.00 _____

Non-Member Fee (professional): \$30.00 _____

Non-Member Fee (professional): \$25.00 _____
(with application for new membership)

Student Fee: \$ 5.00 _____

Department:

College/University:

Optional: Camping at San Clemente State Beach: Three (3) campsites (**maximum 8 people each**) have been reserved for Friday night; six (6) campsites have been reserved for Saturday night. These spaces will be filled on a first register-first serve basis. These campsites are being paid for by Chevron Energy Technology Company.

Indicate the number of nights camping: _____

Total: Make check (no cash or credit cards) *payable to PS-SEPM*: \$ _____

Mail this form with check made out to PS-SEPM by **no later than October 21** to:

**John Cooper,
Department of Geological Sciences,
California State University, Fullerton,
Fullerton, CA 92834-6850**

For questions, contact John Cooper; phone (714-278-2662) or email jcooper@fullerton.edu

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