



**PACIFIC
SECTION**

SPRING 2018
Pacific Sedimentologist

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

Volume 90, issue No. 1

April, 2018

2018 PSAAPG-PSSEPM-PCSSEG Annual Meeting
Marriott Hotel, Bakersfield, CA
April 22-25, 2018

Registration is now OPEN!

SUBMISSION DEADLINE:
MARCH 1st, 2018

For additional information contact:
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PSAAPG Technical Program Chair
(661) 665-5459
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ABSTRACTS ARE BEING ACCEPTED

General Themes:

- ✓ California Geological Breakthroughs: Past, Present, and Future
- ✓ Pacific Exploration: Mature Basins and Prolific Reservoirs
- ✓ PS-SEPM Sedimentology and Stratigraphy: From Lacustrine to Deep-water Reservoirs
- ✓ Structure and Tectonics: Micro-fractures to Plate Boundary Faults
- ✓ PCS-SEG Petrophysics and Geophysics: From Borehole to Basin
- ✓ Geology and Data: Leveraging old data, new data, smart data, and big data
- ✓ Geologic Insights Learned from Regulatory Project Collaborations
- ✓ Geologic Applications in a Changing Regulatory Environment
- ✓ DEG – Oil and the Environment: Environmental and Regulatory Topics Associated with Oil and Gas Production

Additional Themes will be considered based on submissions! (250-word abstract limit)





PACIFIC SECTION, SEPM

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See also: Our PS-SEPM web site: www.pacificsectionsepm.org



PACIFIC
SECTION

PS-SEPM President's Message - Spring 2018



Greetings To The PS-SEPM Family

All of us living within the Pacific Section region endured a very hot and dry summer in 2017, only to come out of it to face relentless wildfires, storms and mudflows which affected us personally, or people we know. Thankfully, we have many professional distractions to focus our attention on such as PS-SEPM, and the many activities that are in full swing. So I had better get to it!

First off, we held our annual 2017 Fall Field Trip in the **Paria Wilderness area near Kanab, Utah**, and it was a resounding success! **Mario Caputo (SDSU) and Tom Anderson (CSU-Sonoma, UNR)** led a fascinating, well-organized field trip to examine the wind-blown environments and deformation of the Jurassic Page Sandstone and the Navajo Formation. Exceptional exposures, excellent information, and invigorating discussions were had by everyone, all supported by a beautifully made guidebook currently available for purchase!

Our society's annual awards were also presented during the field trip. First and foremost, two very deserving PS-SEPM members were honored with the **A.E. Fritsche Lifetime Achievement Award: Tom Anderson (CSU-Sonoma, UNR) and Ray Ingersoll (UCLA)**. Both were on hand to receive their awards presented eloquently by their citation writers: Russell Shapiro, played by Todd Greene (CSU-Chico) for Tom, and Eric Hendrix (Earth Consultants International) for Ray. Congratulations to you both! We also acknowledged the achievements of three highly dedicated officers by conferring **lifetime Honorary Memberships** to **Wayne Henderson (CSUF), Adam Woods (CSUF), and Eric Hendrix (Earth Consultants)**. Along with **Mario Caputo (SDSU)**, these folks are truly the backbone of PS-SEPM!

As part of a new tradition of officially honoring our hard-working annual fall field trip leaders/coordinators, the Society also presented special awards to the leaders of this years' field trip (**Mario**

Caputo and **Tom Anderson**), as well as to the leaders of our 2016 fall field trip to the Valley of Fire State Park, Nevada (**Steve Rowland**, UNLV, and **Mario Caputo**, once again!).

Not to be outdone by the Paria Wilderness trip, the May, 2017, **PS-AAPG /SEPM** annual meeting in **Anchorage, Alaska**, was also a success. PS-SEPM members represented our society well during the field trips, workshops, and poster sessions. The winner of the **PS-SEPM Patrick L. Abbott Award** for the best graduate student poster was **Deirdre LaBounty**, titled, "*Microfacies and trace element variation across the Frasnian Punctata Event within the Bear Biltmore drill core, (Alberta, Canada)*". Congratulations and well done!

In addition, the **2017 PS-SEPM best theses and dissertations awards** have been awarded. More details appear below in this newsletter, but allow me to specifically congratulate the winners of **the Raymond Ingersoll Award for best undergraduate theses awards**: 1st place: **Ryan Mitchum, Fresno State (Advisor: Mara Brady)**, 2nd place: **Nathan Kemnitz, USC (Advisor: Douglas E. Hammond)**. Also, congratulations to the John Crowell best thesis/dissertation awardees, MS level: 1st place: **David Oliver, Fresno State (Advisor: Mara Brady)**; for PhD level, 1st place: **Elisabeth Steel, UC Santa Barbara (Advisor: Alex Simms)**, 2nd place: **Mathieu Lapotre, California Institute of Technology (Advisor: Michael Lamb)**, and 3rd place: **Dolores van der Kolk, University of Texas, T Austin (Nominator: Stephen T. Hasiotis)**. Fantastic job to everyone! Thanks to **Dan Sturmer, Bill Bilodeau**, and **Tom Anderson** for taking the lead on reviewing.

Looking to the future, PS-SEPM will play a strong roll during the **2018 PS-AAPG meeting in Bakersfield** April 22 – 25. Planning for sessions, workshops, and field trips is currently underway so please plan to join us to help make this meeting as successful as previous Bakersfield meetings.

Also, the 2018 Fall Field Trip will be held in Chico, CA, led by myself and **Russell Shapiro (CSU-Chico)**. The trip will address the topic of "*Aquifer Stratigraphy of the Sacramento Valley*", with focus upon the greater Chico area in the Sacramento Groundwater Basin. The trip is scheduled for September 28 – 30. More details will be forthcoming shortly.

Lastly, with the recently -received blessing of the Executive Committee, I am continuing on as interim President of PS-SEPM. This will (probably) be my last year as President, so I want to offer my sincerest gratitude and praise to the extremely dedicated folks that make up the PS-SEPM Executive Committee: **Mario Caputo** (SDSU, Managing Editor), **Wayne Henderson** (CSUF, Membership Manager), **Adam Woods** (CSUF, Treasurer), **Eric Hendrix** (Earth Consultants International, Newsletter Editor), **Tony Corrasco** (SDSU, Webmaster), **Dan Sturmer** (Awards Manager), **Ganqing Jiang** (UNLV, Secretary), **Russell Shapiro** (CSU-Chico, Vice President), **Ray Ingersoll** (UCLA, Senior Advisor), as well as long-standing advocates **Rick Behl** (CSULB), **Tom Anderson** (CSU-Sonoma, UNR), and **Mara Brady** (CSU-Fresno). **Thank you to you all!**

Todd Greene

PS-SEPM President 2014 – 2018

Professor, Department of Geological and Environmental Sciences

California State University – Chico



Garrison Monterey Research Conference

May 8, 2018 Santa Cruz, CA

2018 Robert Garrison Monterey Research Conference

Four decades of research on the Monterey Formation and Neogene marine units

Registration NOW OPEN!

2018 marks 35 years since publication of the keystone Pacific Section SEPM Special Volume *"The Monterey Formation and related siliceous rocks of California, Volume 15, Society of Economic Paleontologists and Mineralogists, Pacific Section, Special Publication."* Robert Garrison was one of the editors and main authors. The volume included ground-breaking papers written by some of the most influential geologists of the time like Bob, Jim Ingle and Steve Graham at Stanford, and others. Their work is the basis for a modern 'paleoceanographic' approach to understanding the Monterey Formation and similar biosiliceous deposits, Miocene climate, and the significance of biosiliceous upwelling-nutrient-related sediments, and associated phosphorites.

We also want to honor Bob Garrison because his life and career are a tremendous example for the science community of a combination of science at its highest-quality, altruism, and humanity. Bob has nurtured the careers of many US and European scientists as well as young scientists across the globe.

Sessions include:

Neogene Paleoceanography: the Monterey event; Miocene to recent evolution of global climate, oceans, and of upwelling regions

Biogeochemistry, fluid flow and hydrocarbons: microbial activity, diagenetic processes and evolution of rock properties in organic-rich sedimentary basins, modes and pathways of migration of hydrocarbon-rich fluids and their record in mineral precipitates and sediment alteration.

Upwelling margin evolution and tectonics; evolution of the California Margin and other active/transform upwelling basins.

Stratigraphy-sedimentology: sedimentation, authigenesis, and sediment transport in hemipelagic settings; Monterey Formation: modern and past analogues.

Technical Program Committee Leaders

Ivano Aiello, Moss Landing Marine Laboratories; **Christina Ravelo**, UC Santa Cruz

Sponsorship is still available for this conference, please contact the **conveners** or **SEPM** for details.

Or Contact:

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SUMMARY: 2017 FALL FIELD TRIP

October 7 – 8, 2017

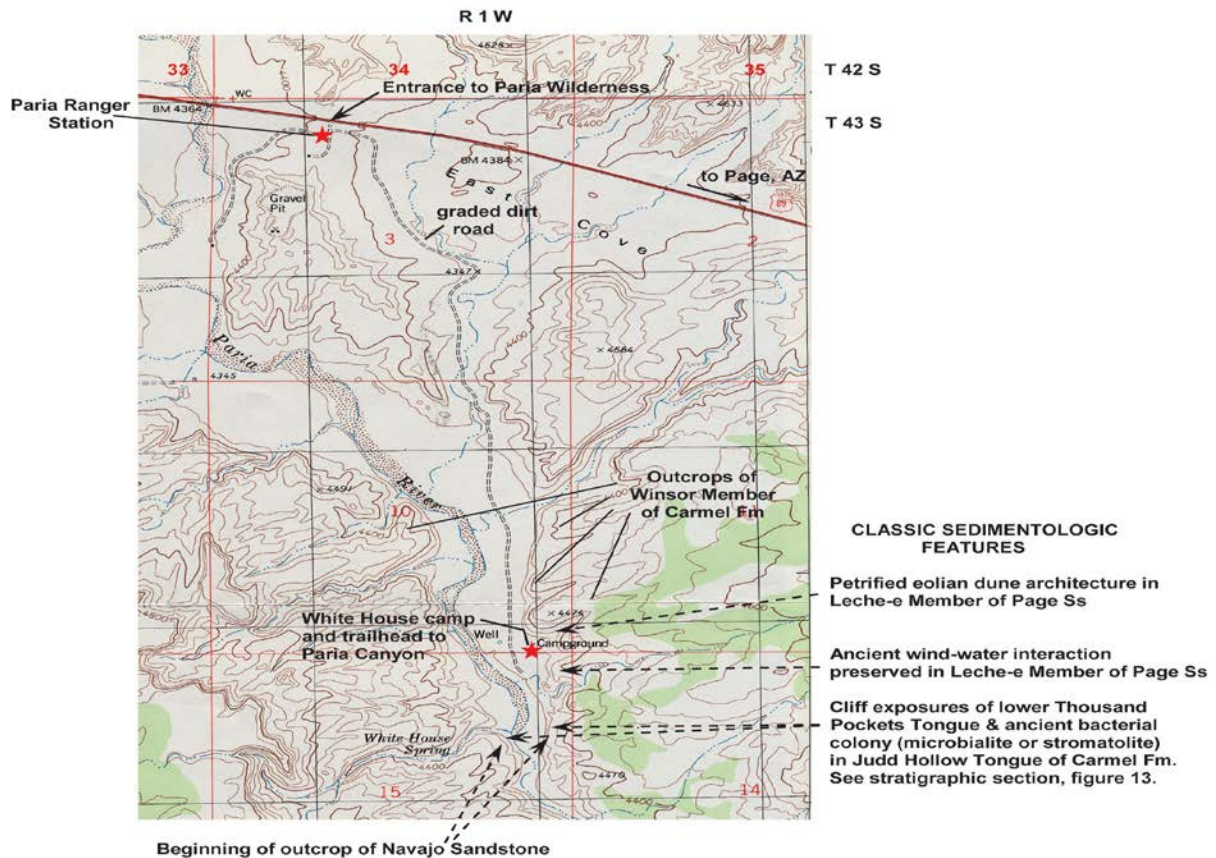
Jurassic World - Architecture of Ephemeral Streams, Eolian Dunes, and Marine Shoreline: Page Sandstone, Carmel Formation, and Navajo Sandstone, Southwest Utah

**Grand Staircase-Escalante National Monument & Paria Wilderness,
Kane County, Utah**

Field Trip Leaders

Thomas B. Anderson
University of Nevada, Reno

Mario V. Caputo
San Diego State University



SOURCE: Caputo, M.V., 2010, Geology and Sedimentary Highlights of the Paria Canyon-Vermilion Cliffs Wilderness, Utah and Arizona; Geology of Utah's Parks and Monuments 2010 Utah Geological Association Publication 28.



GROUP PHOTO Along Wire Pass/ Coyote Wash Trail, near Paria Canyon; participants gathered on large-scale Navajo Sandstone cross strata foresets, exhibiting (probable) seismic deformation (Photo courtesy of Todd Greene)

Trip Highlights: The theme of the 2017 PS-SEPM fall field trip was “*back-to-basics in sedimentology*,” and will focus on eolian sedimentary architecture of three lithostratigraphic units: the Middle Jurassic *Page Sandstone* and interfingering *Carmel Formation* at White House camp in the Grand Staircase-Escalante National Monument, and the Lower Jurassic *Navajo Sandstone* along Wire Pass/Coyote Wash trail in the Paria Canyon Wilderness. Two selected outcrop sites were visited east of Kanab in Kane County, southwest Utah; one site for a full day on Saturday, and the second site for a half day on Sunday.

The Field-Trip Guidebook (Book 120, Publication list at end of this newsletter) calls viewers attention to structural, geomorphic, and stratigraphic features observed along the paved route between Kanab, Utah and the two sites visited during the trip: White House camp and Wire Pass/Coyote Wash trail, and provides further details on the nature and origin of primarily eolian sedimentary characteristics preserved in the Jurassic Page and Navajo Sandstones at the two field trip sites.

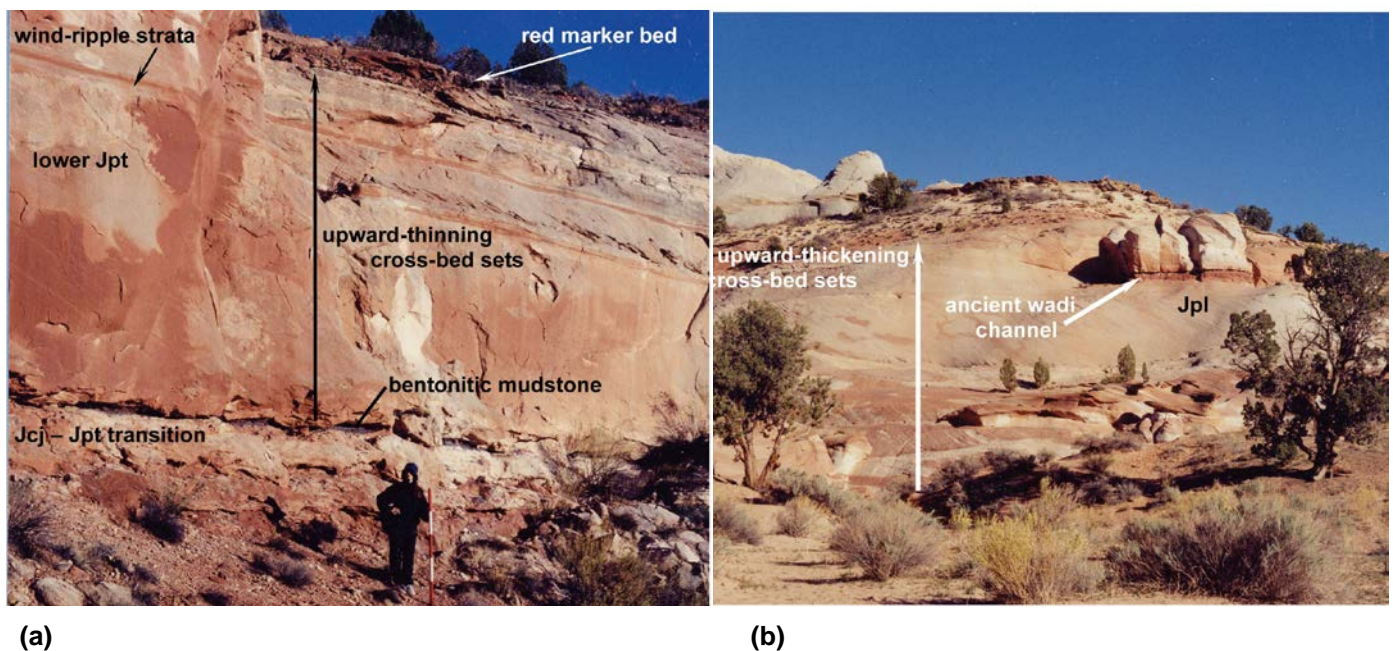
On Saturday started in the parking area at White House camp, located ~ 46 mi (~ 74 km) east of Kanab along federal route 89 and 2 mi (3.2 km) south of route 89 on a graded road. Views on short, easy hikes into shallow gullies and on rounded slickrock cliffs are of the best developed and exposed eolian stratification in the Page Sandstone in the Colorado Plateau Province. Depositional associations observed

included wadi (restricted sense: an ephemeral stream coursing through an eolian sand sea) facies in the Page Sandstone, and a possible microbialite facies in the Middle Jurassic Carmel Formation.

On Saturday evening, participants gathered at the nearby overnight accommodations of Copper Cloud Ranch for a cowboy-stew dinner, and the presentation of the Society's annual awards. These included A.E. Fritsche Lifetime Achievement Awards to **Ray Ingersoll** and **Tom Anderson**, Honorary Membership Awards to **Adam Woods**, **Wayne Henderson** and **Eric Hendrix**, and Annual Field Trip Leader Awards to **Steve Rowland** and **Mario Caputo** (2016) and **Mario Caputo** and **Tom Anderson** (2017).

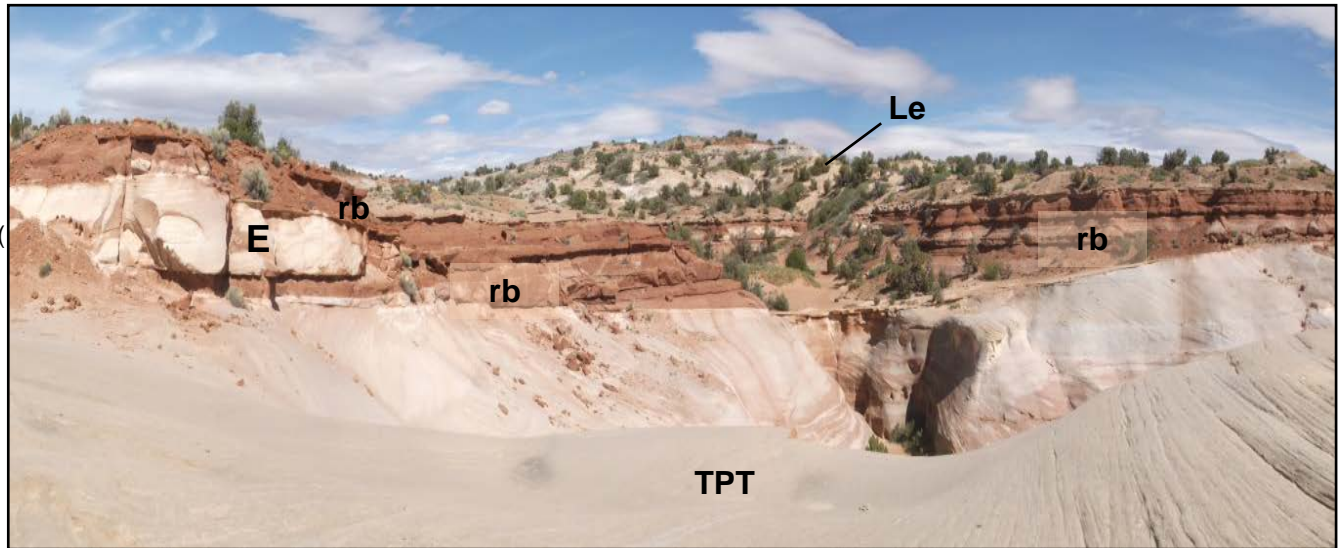
On Sunday, participants assembled within the parking area across from the head of Wire Pass/Coyote Wash trail; ~ 42 mi (~ 67 km) east of Kanab on route 89 and ~ 8 mi (~ 13 km) south of route 89 on the unpaved House Rock Valley Road for a ~ 1.5 mi (~ 2.0 km) walk along the trail, to view a spectacular exposure of the Navajo Sandstone displaying brittle and plastic deformation of probable seismic origin in eolian dune strata.

Many thanks to Mario and Tom for presenting such an enjoyable and educational trip!



Some physical features of the **Page Sandstone** in the **Paria Canyon Wilderness** ((a) Cliff exposure (0.5 mile or 0.8 km south of White House camp) of upward-thinning cross-bed sets in lower **Thousand Pockets Tongue (Jpt)** above gradational contact with underlying **Judd Hollow Tongue of the Carmel Formation (Jcj)**. Red-white staff held by Janna Caputo is 5 feet (1.5 m) long; (b) Upward-thickening cross-bed sets in the rounded cliff exposures of **Leche-e Member of the Page Sandstone (Jpl)** at White House Camp.

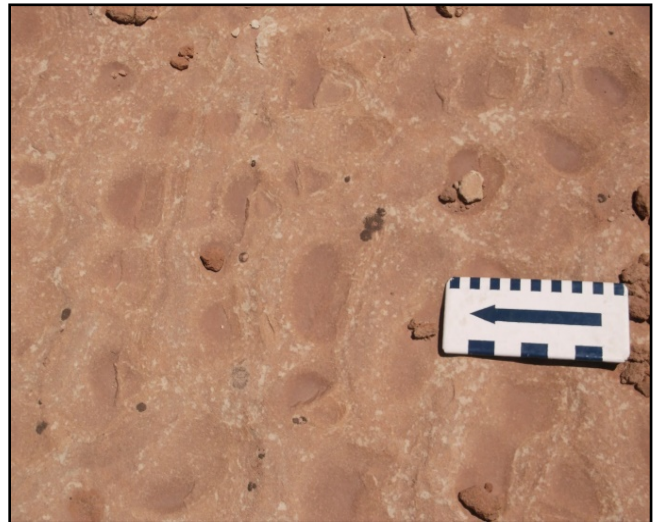
SOURCE: Caputo, M.V., 2010, in; Utah Geological Association Publication 28



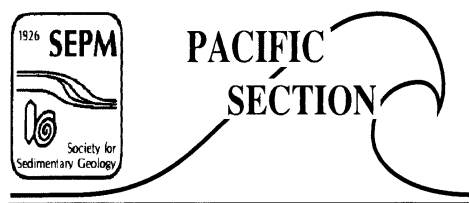
Page Sandstone exposed along Paria River: Eolian sediments (Le, E and TPT) interfingering with redbed sediments (rb) of wadi (fluvial) origin.



Subaqueous (fluvial) rippled sandstone within Wadi facies of the Page Sandstone (PHOTO courtesy of Mario Caputo).



Mud-draped ripple structure, Wadi facies, Page Sandstone (PHOTO: courtesy of Mario Caputo)



Raymond V. Ingersoll
2017 Pacific Section SEPM

A. Eugene Fritsche Lifetime Achievement Award



I am both honored and privileged to serve as citationist, and present the A.E Fritsche Lifetime Achievement Award to, my academic mentor and dear friend Ray Ingersoll. I am also certain that this Award's namesake, the late Gene Fritsche, would be very pleased to know that Ray is one of the very few geoscientists accomplished enough to be a recipient of our Society's highest honor.

Ray has a long and distinguished history of service to Pacific Section SEPM. He currently serves as our society's Senior Advisor and Past-President Emeritus, a position he has graciously filled since 2014. He is only the second person in our history to serve in this capacity, following the loss of our beloved Gene Fritsche in 2013. Ray has also served two terms as PS-SEPM President, first in 1987 and then again in 2009, and provided his valuable wisdom and counsel as our President-Elect and Past-President during years prior and following those two terms. He has been a regular fixture at our fall field trips and annual joint conferences with Pacific Section AAPG and SEG since as far back as the mid-1970's, when he was a graduate student at Stanford University, working with Bill Dickinson. This participatory tradition has continued throughout his entire professional career as Professor of Geology at UCLA, and the University of New Mexico prior to that.

Ray's tireless participation and service to our society has also included a lengthy history of serving as an editor, contributing author, field trip leader and/or coordinator for many research symposia sponsored by PS-SEPM, and their resultant publications, including our Society's Books No. 8 (1978), 18 (1981), 23 (1982), No. 34 (1983), No. 60 (1988), No. 65 (1990), No. 75 (1995) and No. 108 in 2010. (For those interested in the varied topics of these volumes, please refer to our Publications List at the rear of this Newsletter.). Previous to the receipt of this Lifetime Achievement Award, he has also been honored by PS-SEPM through the receipt of an Honorary Lifetime Membership Award, and the creation of the *Raymond V. Ingersoll Award for Outstanding Undergraduate Senior Thesis in Sedimentary Geology*.

Complementing his impressive service to the PS-SEPM as a provincial geoscience society, Ray is also, quite simply, a giant in the field of sedimentary geology, whose work is known and respected throughout the US and internationally. Commencing with his undergraduate work at Harvard, and his MS and PhD research at Stanford in the 1970's regarding the Cretaceous Great Valley forearc basin in California, his primary academic focus has always been the application of sedimentology, stratigraphy and provenance studies as powerful tools to understand the actualistic plate-tectonic evolution of continents and ocean basins. As only two of many examples of his career success in this endeavor, he was distinguished as the 2009 recipient of the prestigious *Laurence L. Sloss Award* by the Sedimentary Geology Division of the Geological Society of America, and a Member of the National Academy of Sciences' *Joint USA-USSR Baikal Rift - Rio Grande Rift Cooperative Research Project* from 1987 to 1993. This mastery of both convergent and extensional tectonics and basin-development processes led to Ray's invited authorship of the key topical review paper for tectonics and sedimentation as part of the centennial *GSA Bulletin* series in 1988, and subsequently co-editing with Cathy Busby and co-authoring chapters in the important textbook on the subject in 1995, *Tectonics of Sedimentary Basins*. The breadth of his research interests, of course, expanded to include the evolution of basins and their offsets along the San Andreas transform system, as exemplified by the papers he edited and co-authored within the seminal 1987 Rubey Colloquium Volume VI, regarding *Cenozoic Basin Development in Coastal California*. These research interests continue to the present, through his use of U-Pb age dating of detrital zircon and their applications to Los Angeles basin and greater southern California geologic evolution. His participation and contributions to our science also include memberships on the editorial boards of journals such as *GSA Bulletin*, *International Geology Review*, *Journal of Sedimentary Petrology* and *Journal of Sedimentary Research*, among others, as well as the Nominating Committees for the national SEPM Twenhofel and Pettijohn Awards, and GSA Sloss Award.

Ray is a prolific scientist, with over 135 peer-reviewed technical publications, many with his over 40 graduate and post-doctoral students as co-authors. Among these are dozens of publications as an invited speaker, keynote speaker, and/or co-convener of national and international conferences addressing plate tectonics and sedimentation. As another former Ingersoll graduate student and PS-SEPM Past President, Kathie Marsaglia, said, "*similar to all outstanding educators, Ray gives his students the lessons and tools that they need for success, then the freedom and encouragement to develop into independent professionals*".

I couldn't agree more. There have been countless times during my own career when I have benefitted from lessons learned from Ray, to come up with creative solutions to technical challenges.

In closing, also on a personal note, it was Ray's now-classic and intuitive 1982 paper published in the journal *Geology*, regarding the instability of triple junctions and its ramifications for the Cenozoic extensional evolution of western North America, which led me to originally decide to study with him. Essentially a highly creative plate-tectonics paper....not bad for a sed/strat and provenance guy!

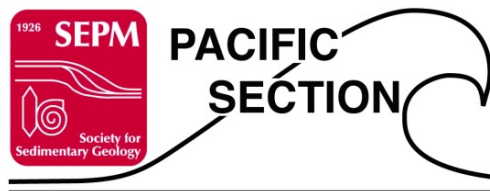
Congratulations, Ray, on this well deserved award, and thank you from all of us, for your many contributions to our society, science and profession!

Eric D. Hendrix
Member, PS-SEPM Executive Committee
Principal, Earth Consultants International Inc.

Response

Thank you, Eric, for your flattering citation. Working with you, as one of my former students, a stalwart PSSEPM member and a deeply knowledgeable scientist, has been a wonderful recurring theme of my UCLA career. Your service to the Society exemplifies the devoted members of the Executive Committee, who keep the ship on course, through smooth and rough seas. It has been an honor and a privilege to be both a passenger and commander of this ship that continues to encourage and develop sedimentary geology, in broadest terms, in all the lands colonized by the PSSEPM. It is a small ship, but a proud and powerful one, capable of crossing both modern and ancient seas, and even sailing in sand seas, as demonstrated by this year's eolian field trip. I hope that we all can sail far and wide for many years to come. Thanks for honoring me with the A. Eugene Fritsche Lifetime Achievement Award.

Ray Ingersoll
Professor Emeritus, UCLA
Pacific Section SEPM Senior Advisor and Past President



*Thomas Anderson
2017 Pacific Section SEPM*

A. Eugene Fritsche Lifetime Achievement Award



This summer, I read “Bone Hunter” by Sarah Andrews, a fun novel about paleontologists in Utah. In the author’s note, Ms. Andrews writes that it was meeting Tom Anderson, then Chair at Sonoma State, that was the impetus to write the book. That is how I want to honor my friend and mentor, to recognize how much he has influenced others during his storied career, and why he is so deserving of this prestigious award from Pac Section SEPM.

I first met Tom at a regional meeting in Long Beach. I sought him out as we both shared an interest in the Cambrian. Like many other students, I was immediately captivated by Tom’s enthusiasm and breadth of knowledge. At his retirement party from Sonoma State, I recall how much the conversation switched on his greatest strength based on whom you talked to. Tom was praised for his focus in the classroom and many previous students told me what an influence he was on their careers. Others wanted to talk about his field trips. The faculty were glowing in their memories of Tom as an amazing colleague.

Receiving a “Lifetime Achievement Award” carries a unique distinction over other awards. To be honored by the society means that the members recognize that you have dedicated your life to the study of sedimentary geology. The society is quite diverse and draws from industry as well as both teaching and research academics. In this regard, the recognition is quite unique. In Tom’s long career,

he has played roles in all the various aspects of our science—including a stint as geological consultant on Christo's Running Fence in 1977.

However, I think it is safe to say that Tom's lifetime achievement is as a mentor to many students over his four decades at Sonoma State, and then as an adjunct at the University of Nevada, Reno. I will also count his role at Chico State, as our students know him as a regular fixture on our field trips over the years. Tom is indefatigable in the field, driven by his enthusiasm. I have watched him interacting with students on many field trips, and I think that is the key to his drive. He is always thinking of the students and how to make the experiences best for them.

Tom's role as a mentor to students extends to his passion for research. Over the years, it has become pretty standard to see Tom's name affixed to a talk at GSA, associated with a student project. And I'm not counting that 'other Tom Anderson.' The students later expanded some of these research projects into graduate theses and Tom has always been very proud of the student successes he has nourished.

Most of us in PS-SEPM know Tom from the field trips and meetings. Over the years, Tom has had an amazing diversity of field trips, ranging through out the geological time scale and across the western United States and the infamous Burgess Shale in Canada. Tom has also brought his international experience to the classroom and lectures to many different groups ranging from high schools, colleges, and senior groups. But the field trips are clearly his passion and this is where Tom has served the society, leading trips to the Gualala Block (1998) and northeastern Nevada (2011) as well as many trips for other groups—including GSA with Melissa Hicks and me!

To receive a Lifetime Achievement Award, one should show continuing activity in the society. How fitting it is that this award will be given on the third field trip that Tom has led for the society! The fact that the Jurassic sandstone of the Paria wilderness area is so different from the Cambrian microbialites of Death Valley, or the tectonic basins of the coastal borderlands, is testament to the diversity of Tom's hunger for knowledge. And I bet he will have his field book and hand lens out on that Paria field trip as well, hoping to learn from his friend Mario Caputo, as well as the host of trip attendees.

It is an honor and a privilege to write this citation for a colleague and a friend who truly served as my mentor for how to promote the passion of sedimentary geology for generations of students. Congratulations, Tom, on receiving the Pacific Section SEPM A. Eugene Fritsche Lifetime Achievement Award!

Russell Shapiro

*Professor and Chair, Department of Geological and Environmental Sciences
California State University - Chico*

Response

First and most importantly in my response, I thank Russell Shapiro for his kind words, and the Pacific Section SEPM (PS-SEPM) for recognizing me as Lifetime Achievement Award material. I thank you all very much. And, I recently looked at the list of past Lifetime Achievement Award recipients, and

realized just how distinguished the award is. I am very honored and humbled to receive this award, apparently just for doing things that I thought were the right things to do. And, I am very proud to be receiving the award with Ray Ingersoll, a friend that I met through PS-SEPM activities.

It's hard to imagine that I started teaching at Sonoma State University 49 years ago, have been retired for 10 years, and have been an Adjunct Professor at the University of Nevada, Reno for 9 years. My career has been very rewarding, devoted to teaching sedimentary petrology, field geology, and hydrology, and researching Cambrian rocks, primarily microbialites in the Carrara Formation in the Death Valley region, and turbidites in the Gualala Basin of northern California. I have also had several more eclectic jobs, including being a geological consultant on Christo's Running Fence, a fabric curtain from Cotati to the Pacific Ocean in 1976, and defined the southern boundary of the Alexander Valley wine-growing region. Finally, I have been an instructor in the University of Nevada Summer Field Geology class since 2008, and am presently the longest continuously-serving instructor in the class. So much for retirement!

My activities with PS-SEPM started in the late 1990s when I served as Vice-President, was co-leader of the 1998 Fall Field trip to the Gualala Block, and helped to coordinate the two subsequent trips to the Mecca Hills and the Santa Maria basin. In more recent years, I served as President from 2012 to 2014 and I helped to lead the 2011 Fall trip to northeastern Nevada. However, my fondest memories of PS-SEPM are my participation in many Fall field trips with my Sonoma State University students who were my greatest inspiration and support. It was always one of the highlights of the Fall Semester when my students and I got to join the Fall field trip in various places in California from the northern Sierras, various localities to study the Great Valley Series, the Sespe Creek area, and most recently to the San Clemente area in 2005. I was always disappointed when scheduling didn't allow us to go along on one of those trips. It was during these trips that I met and got to be good friends with the likes of Gene Fritsche, John Cooper, Pat Abbott and Mario Caputo, and my students got to interact with folks from other schools as well as professional geologists. I hope that other faculty members realize the value of these trips and encourage their students to participate in them.

In conclusion, I thank the Executive Committee of PS-SEPM for selecting me to receive the Lifetime Achievement Award; my good friend and colleague, Russell Shapiro, for the generous citation; my colleagues at Sonoma State University; and all my students and friends in the geological profession who have meant so much to me during my career. Most importantly, I would like to thank my wife, Judy, and our family for their understanding and support.

Tom Anderson

University Of Nevada – Reno

Pacific Section SEPM Past President

Adam Woods
2017 Pacific Section SEPM
Honorary Membership Award



Adam Woods (R) With Citationist Pedro Monarrez

I've had the privilege of knowing Adam Woods for 10 years, starting back when I took his Sed/Strat course as an undergrad at Cal State Fullerton; eventually I became his Master's student. Adam's lasting impression on me was his dedication to his students, his passion and enthusiasm for teaching, research, and our field of science, and most of all, for making a point of having fun while doing so. Adam is a prolific researcher and field worker who regularly incorporates his students into his research, and has made many of his students' research experiences that much richer for it.

Adam took me on as his Master's student despite my focus on quantitative community paleoecology, which deviates a bit from his research, which focuses primarily on the sedimentologic expression of mass extinction recovery. His research has been primarily in eastern California, but has also taken him to various localities around the world, from Oman, to China, and to Canada to study the nature of the biotic recovery of the end-Permian mass extinction. He has focused on the occurrence of unusual sedimentologic structures and features that characterize the Early Triassic, such as "anachronistic" carbonate facies, seafloor aragonite fan precipitates, and fringing stromatolite bioherms. He has combined these sedimentary features from Early Triassic strata with paleontological data, in order to reconstruct past environments and assess their impact on biota. He has also integrated

chemostratigraphic analyses to his research, focusing on offshore siliciclastic and carbonate facies to document productivity patterns during times of environmental perturbation. His most recent research interests have involved the Late Ordovician glaciation event, where he has focused on both geochemical and sedimentologic signatures to reconstruct oceanographic conditions during this important climatic event in Earth's history.

In addition to his full-time teaching and research duties, Adam has dedicated considerable time and service as the treasurer for PSSEPM for more than a decade now. His contributions to our field make him more than deserving of this recognition.

*Pedro M. Monarrez
Department of Geology
University of Georgia*

RESPONSE

I wish to thank the society for this honor that they have bestowed upon me. I have thoroughly enjoyed being a part of such an outstanding organization that values both education and professional development, and look forward to being involved for many more years.

*Adam Woods
Professor, Department of Geological Sciences
California State University, Fullerton*



Adam Woods: Still Life With Jacob Staff

Wayne Henderson
2017 Pacific Section SEPM
Honorary Membership Award



It is my honor to write this citation for Wayne Henderson, as I really owe my professional life path to Wayne. I first met Wayne 16 years ago when I was a senior Business Administration major, and I enrolled in the first class that Wayne taught at Cal State Fullerton. Wayne's enthusiasm and sense of humor about things geology- (and non-geology)-related really got me intrigued and excited about the geosciences. Toward the end of the semester, I approached Wayne and asked him about completing a second degree in geology. The next semester, I was in historical geology, which was the second class that Wayne taught at Fullerton. Since then Wayne and I have kept in touch, and Wayne has encouraged me to become involved in PS-SEPM and to return to academia from industry. If not for Wayne, I am not sure where I would be today. Wayne has introduced thousands of students to geology, and I know that many of them have been changed forever and for the better. Wayne has been very involved in PS-SEPM, serving as both Vice President (2007-2008) and Membership Manager (2008-present). In these roles he

has always focused on student introduction and involvement with PS-SEPM, helping to grow membership and ensuring a healthy and active society for years to come. In addition to teaching and service to PS-SEPM for 10 years, Wayne has been active in research, focusing on paleontology, paleoclimatology, geoscience education, sedimentology, and stratigraphy.

In summary, Wayne's deserves recognition as an Honorary Member of PS-SEPM for his dedication to students and the longevity of PS-SEPM.

Daniel M. Sturmer

Paul E. Potter Assistant Professor in Basin Dynamics

Department of Geology, University of Cincinnati

RESPONSE

I would like to thank PS SEPM for awarding me an honorary membership. I would like to thank the current and past officers of PSSEPM of which I have had the distinction to work with over the past decade. I would also like to thank all the assistance I have had from my many students, in particular, Daniel Sturmer for his kind words. I hope to see all our members at the next fall field trip!

Wayne Henderson

Department Of Geological Sciences

California State University, Fullerton



Wayne Henderson: Still Life With Alaskan Glacier

Eric D. Hendrix
2017 Pacific Section SEPM
Honorary Membership Award



Eric Hendrix (L) With Citationist Ray Ingersoll

Eric D. Hendrix is a worthy recipient of PS-SEPM Honorary Membership, based on years of devoted service as Newsletter Editor and Executive Committee Member of the Society, as well as extensive contributions to both academic and applied research. Eric received his B.Sc. in Geological Sciences from CSU, Long Beach in 1983 and M.Sc. in Geology from UCLA in 1986. His Masters thesis on the Vasquez Formation of the Soledad basin remains the definitive work on the subject. He is a Certified Professional Geologist, a Certified Hydrogeologist and a Certified Engineering Geologist in California, and a Certified Professional Geologist in Arizona. He presently serves as Principal Hydrogeologist and Partner with Earth Consultants International. He has been the recipient of a map dedicated to him by the Dibblee Geologic Foundation.

In addition to all of Eric's experience and credentials, he is imbued with an intense intellectual drive to understand geologic and hydrologic problems, whether they be purely academic efforts to attempt to reconstruct complex stratigraphic, paleogeographic and paleotectonic relations, or evaluation of neotectonic hazards or assessment of practical hydrologic and environmental problems. Since graduate school, he has published peer-reviewed literature on each of these topics. It has been a distinct pleasure for me to supervise Eric's M.Sc. thesis research, to be a co-author with him, and explore efforts to expand that research in new directions and develop new hypotheses concerning southern California paleotectonics. Engaging Eric in intense intellectual discussion about how to reconstruct

southern California back to the Cretaceous is wonderfully rewarding. It is a great pleasure to honor Eric with this well-deserved recognition of his contributions to the Society and the profession.

Raymond V. Ingersoll
Professor Emeritus, UCLA
Department Of Earth, Planetary and Space Sciences

RESPONSE

Thank you Ray for such a gracious citation. And thank you to the Society for this Award....it is a real honor to have had the opportunity to provide service to the PS-SEPM for the past ten years. I have learned a great deal, and have made some terrific friends along the way.

Eric Hendrix
Earth Consultants International, Inc.

*Pacific Section AAPG-SEPM-SEG
Joint Conference In Anchorage, Alaska
May, 2017*



*Pacific Section SEPM Executive Committee Members On Conference Field Trip To
Explore Alaskan Geology North of the Arctic Circle (Along Dalton Highway)
(left to right: Todd Greene, Wayne Henderson and Russell Shapiro)*

From May 21 through 24, 2017, the Pacific Section SEPM co-sponsored our regular Spring Conference, together with the Pacific Section of American Association of Petroleum Geologists (AAPG) and the Society of Exploration Geophysicists (SEG), this year in Anchorage, Alaska. The venue was the Sheraton Anchorage Hotel & Spa.

We co-sponsored the following four successful technical theme sessions:

- Stratigraphy and Sedimentology: Fluvial to Deep-Water Reservoirs
- Sequence Stratigraphy and Seismic Geomorphology: How high resolution seismic is redefining our paradigms
- Biostratigraphy and Paleoclimate: New insights on Geologic Evolution and Climate Cyclicality

- Geochemistry & Basin Modeling: Geohistory, Backstripping, and Source Rock Investigations
Members of our Executive Committee judged all eligible student research posters regarding basin analysis, sedimentology and stratigraphy which were presented at the conference. Our judges awarded our **annual Patrick L. Abbott Award** for the best graduate student poster to **Ms. Deirdre LaBounty from the University of Alaska** for her presentation:

"Microfacies and trace element variation across the Frasnian punctata Event within the Bear Biltmore drill core, (Alberta, Canada)"

As part of her Award, Ms. LaBounty received a check for \$500, and one-year student membership to PS-SEPM. Congratulations!

Our next Annual Joint Conference is scheduled for Bakersfield, California in April 2018. More details will be forthcoming later this fall, and are currently in the planning stages between PS-SEPM, PS-AAPG and the SEG.



ATTENTION PROFESSORS!

PS-SEPM ANNUAL STUDENT AWARDS

LUCRATIVE CASH AWARDS FOR WINNERS

- **JOHN D. COOPER MEMORIAL AWARD**

*Best Undergraduate Poster
Presentation @ Annual Conference*

- **JOHN C. CROWELL MEMORIAL AWARD**

Best Graduate Thesis and Dissertation (MS or PhD)

- **RAYMOND V. INGERSOLL AWARD**

Best Undergraduate (Senior) Thesis

- **PATRICK L. ABBOTT AWARD**

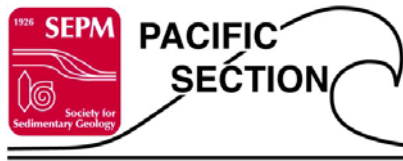
*Best Graduate Student Poster Presentation
@ Annual Conference (MS or PhD)*

**PLEASE SUBMIT NOMINATIONS FOR THE
CROWELL AND INGERSOLL AWARDS DIRECTLY
TO PS-SEPM AWARDS MANAGER DANIEL STURMER
(Daniel.Sturmer@uc.edu)**



PACIFIC
SECTION





OTHER NEWS

Annual PS-SEPM 2017 Student Presentation Awards

During our Fall 2016 Joint Conference in Las Vegas, we presented two of our annual awards for outstanding student poster session presentations.

The first was the **John D. Cooper Memorial Award for Outstanding Undergraduate Poster**, presented to **Evelyn Gutierrez** (CSU-Fullerton), who worked with Professor **Vali Memeti**. Her research topic was the Minarets Caldera in the central Sierra Nevada.

The second student award was the **Patrick L. Abbott Award for Outstanding Graduate Student Poster**, presented to **Ryan Weller** (CSU- Long Beach), who research focused on the Monterey Formation with Professor **Rick Behl**.

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.

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 photos.

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 available for sale via the AAPG web site: 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*.**

Thus far, participation in the Data Pages Project has proven to be an enormous success for the Society, both because of making heretofore unavailable out-of-print publications once more available once again, and also financially as a fringe benefit.

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 our Senior Advisor **Ray Ingersoll (ringer@epss.ucla.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 2018

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, 2018

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	

Regular Memberships (check ✓ one)	1-year professional	\$ 7.50	
	3-year professional	\$20.00	
	3-year student	\$ 5.00	
Lifetime Memberships (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

Pacific Section SEPM (Society for Sedimentary Geology)

PUBLICATIONS LIST (arranged in order by year of publication)

book #	TITLE	AVAILABILITY
	Whittier Hills and the Type Locality of the Sycamore Canyon Formation, California; Guidebook for Pacific Sections AAPG & SEPM: Lee, A. T., and Ten Eyck, R. E., leaders, 1944, 2p of maps	AAPG Datapages
	San Emigdio Creek, Kern County, California; Field Trip Guidebook for Pacific Section SEPM: Kelly, R. B., and Anderson, J. Q., leaders, 1948, 2p, plus 2 oversize maps	AAPG Datapages
	Hollister Ranch, El Bulito Canyon, and Vicinity of Refugian Type Section, Santa Barbara County, California; Field Trip Guidebook for Pacific Section SEPM: Dibblee, Tom, Jr., Simonson, R. R., and Hollister, Joe, leaders, 1949, 9p, plus 1 oversize map and 1 oversize column	AAPG Datapages
	North Mt. Diablo Monocline; Field Trip Guidebook for Pacific Sections AAPG & SEPM: Church, C. C., Solari, Al, Cross, C. M., and Dillon, W. E., authors, 1950, 16p	AAPG Datapages
	Death Valley to San Fernando; Field Trip Guidebook for Pacific Section SEPM: Clements, Thomas, leader, 1951, 3p, plus 1 oversize map and oversize column	AAPG Datapages
	Santa Ana Mountains, California; Field Trip Guidebook for Pacific Section SEPM: Schoellhamer, J. E., and Yerkes, R. F., leaders, 1953, 6p, plus 1 oversize map	AAPG Datapages
	Devils Den – McLure Valley Area; Field Trip Guidebook for Pacific Sections SEPM & AAPG: Brooks, T. J., Steinmeyer, E. H., and Billman, H. G., authors, 1955, 4p, plus 4 oversize maps	AAPG Datapages
	Tejon Formation in Liveoak Canyon; Field Trip Guidebook for Pacific Section SEPM: Carlson, Stanley, and Bigelow, James, 1956, 3p	AAPG Datapages
	Huasna Basin, San Luis Obispo County, California; Field Trip Guidebook for Pacific Section SEPM: Rutherford, V. E., leader, 1956, 11p, plus 1 oversize map and 2 oversize cross sections	AAPG Datapages
	Imperial Valley; Field Trip Guidebook for Pacific Sections SEPM & AAPG: Crowell, J. C., Susuki, Takeo, and Popenoe, P. W., 1958, 13p	AAPG Datapages
	Big Basin Area, Santa Cruz Mountains, California; Spring Field Trip Guidebook: Brabb, E., leader, 1959, 17p	AAPG Datapages
	Type Panoche, Panoche Hills Area, Fresno County, California; Spring Field Trip Guidebook: Payne, M. B., leader, 1960, 14p	AAPG Datapages
	Geology & Paleontology of the Southern Border of the San Joaquin Valley, Kern County, California; Guidebook for Pacific Sections SEPM, SEG, & AAPG & SJGS Spring Field Trip: Dibblee, T. W., leader, 1961, 43p plus map	AAPG Datapages
	Geology of Carrizo Plains and San Andreas Fault; Field Trip Guidebook for SJGS & Pacific Sections AAPG & SEPM: Hackel, Otto, Fletcher, G. L., Cross, R. K., and Dibblee, T. W., leaders, 1962, 52p, plus 1 oversize map	AAPG Datapages
	Geology of Salinas Valley and the San Andreas Fault; Field Trip Guidebook for Pacific Sections AAPG & SEPM: Gribi, E. A., Jr., and Thorup, R. R., leaders, 1963, 168p, plus 10 unnumbered foldout plates and 1 oversize map in pocket	AAPG Datapages
	Geology of Salinas Valley and the San Andreas Fault; Field Trip Guidebook for Pacific Sections AAPG & SEPM: Gribi, E. A., Jr., and Thorup, R. R., leaders, 1963, 168p, plus 10 unnumbered foldout plates and 1 oversize map in pocket	AAPG Datapages
	The San Andreas Fault Zone from the Temblor Mountains to Antelope Valley, Southern California; Guidebook for Pacific Sections AAPG & SEPM, & SJGS: Crowell, J. C., leader, 1964, 51p	AAPG Datapages

book #	TITLE	AVAILABILITY
	Geology of Southeastern San Joaquin Valley, California: Kern River to Grapevine Canyon; Field Trip Guidebook for Pacific Sections AAPG, SEPM, & SEG: Addicott, W. O., Bruer, W. G., Dibblee, T. W., Jr., Hackel, Otto, Rudell, C. H., and Warne, A. H., leaders, 1965, 40 p., plus 2 oversized maps	AAPG Datapages
	Western Santa Ynez Mountains, Santa Barbara County, California; Field Trip Guidebook for Pacific Section SEPM & CGS: Weaver, D. W., & Dibblee, T. W., Jr., leaders, 1965, 52p, plus 1 oversize map and 3 oversized columns	AAPG Datapages
	A Tour of the Coastal Oil Fields of the Los Basin in and Adjacent to San Pedro Bay, California; Guidebook for Pacific Sections AAPG SEG SEPM: Bauer, W. E., et al., 1966, 9p with map and chart	AAPG Datapages
	Central Santa Monica Mountains Stratigraphy and Structure; Guidebook No. 7 for Pacific Sections AAPG & SEPM: Sullwold, H. H., Campbell, R. H., and Yerkes, R. F., leaders, 1967, 13p	AAPG Datapages
	Structural Complexities, Eastern Ventura Basin; Guidebook No. 8 for Pacific Sections AAPG & SEPM: Corey, W. H., leader, 1967, 17p, plus 3 oversize maps	AAPG Datapages
	Field Trip Guide to Baldwin Hills & Palos Verdes Hills, Los Angeles, pre-convention field trip no. 6, Annual Mtg AAPG SEPM: Pipkin, B. W., Nash, K. W., leaders, 1967, 22p	AAPG Datapages
	Field Trip Guide to Baldwin Hills & Palos Verdes Hills, Los Angeles, pre-convention field trip no. 6, Annual Mtg AAPG SEPM: Pipkin, B. W., Nash, K. W., leaders, 1967, 22p	AAPG Datapages
	Gabilan Range & Adjacent San Andreas Fault; Field Trip Guidebook for Pacific Section AAPG & SEPM: Durham, D L., Forrest, L. C., Pierce, R L., Polugar, M., eds., 1967, 110p, 6 plates, 1 geologic map, 1 correlation chart	AAPG Datapages
	Geology and Oilfields, West Side Southern San Joaquin Valley; Field Trip Guidebook for Pacific Sections AAPG, SEPM, & SEG: Karp, S. E., editor, 1968, 144p, plus 1 oversize map	AAPG Datapages
	Geology & Oilfields of Coastal Areas, Ventura & Los Angeles Basins, California; Guidebook for Annual Meeting Pacific Sections AAPG, SEG, SEPM: 1969, 61p, with foldouts & geologic map	AAPG Datapages
	Geologic Setting of Upper Miocene Gypsum & Phosphorite Deposits, Upper Sespe Creek & Pine Mountain, Ventura County, California: Dickinson, W. R., ed., 1969, 97p	AAPG Datapages
	Southeastern Rim of the Los Angeles Basin, Orange County, California; Newport Lagoon-San Joaquin Hills, Santa Ana Mountains: Vernon, J. W., Warren A. D., leaders, 1970, 61p	AAPG Datapages
1	Pacific Slope Geology of Northern Baja California and Adjacent Alta California (Guidebook): Allison, E. C., and others, eds., 1970, 160p	AAPG Datapages
	Geologic Guide Book Newport Lagoon to San Clemente, California – Coastal Exposures of Miocene & Early Pliocene Rocks: Bergen, F. W., et al., 1971, 88p	AAPG Datapages
	Central Santa Ynez Mountains, Santa Barbara County, California (Spring Field Trip Guidebook): Weaver, D. W., leader, 1972, 84p, with geologic map and 2 charts	AAPG Datapages
	Cretaceous of the Coalinga Area (Fall Field Trip Guidebook): Steinert, R. E., ed., 1972, 66p with 2 geologic maps and cross sections	AAPG Datapages
	Guidebook – Geology and Oil Fields, West Side Central San Joaquin Valley: Pacific Sections AAPG-SEG-SEPM 47th Annual Meeting, 1972, 104 p. plus geologic map.	AAPG Datapages
2	Turbidites and Deep-Water Sedimentation (Short Course Notes): Middleton, G V., Bouma, A. H., eds., 1973 157p. ISBN: 1-878861-60-3	AAPG Datapages
	Miocene Sedimentary Environments and Biofacies, Southeastern Los Angeles Basin, SEPM Field Trip 1, Guidebook prepared for 1973 Annual Meeting of Pacific Sections AAPG, SEPM, & SEG: Ingle, J. C., Wornardt, W. W., Yeats, R. S., Stuart, C. J., Warren, A. D., Normark, W. R., and Bartow, J. A., leaders, 1973, 75p	AAPG Datapages

book #	TITLE	AVAILABILITY
	Sedimentary Facies Changes in Tertiary Rocks – Southern California Transverse and Southern Coast Ranges, SEPM Field Trip 2, Guidebook prepared for 1973 Annual Meeting of Pacific Sections AAPG, SEPM, & SEG, 1973, 60 p.	AAPG Datapages
	A Guidebook to The Geology of Peninsular California: Pacific Sections AAPG-SEPM-SEG, 49th Annual Meeting, 1974, 138 p.	AAPG Datapages
	The Paleogene of Panoche Creek-Cantua Creek Area, California: Payne, M., FT chair, 1974, 152 p plus 9 plates	AAPG Datapages
	Eastern Santa Maria Basin; Geologic Field Guide for Pacific Section SEPM: Redwine, Lowell, leader, 1975, 26p	AAPG Datapages
	The Neogene Symposium: Fritsche, A. E., Ter Best, H., Wornardt, W. W., eds., 1976, 160p	AAPG Datapages
11	Pacific Coast Paleogeography Field Guide #1: Depositional Environments of Lower Paleozoic Rocks in the White-Inyo Mountains, Inyo County, California: Moore, J. N., Fritsche, A. E., eds., 1976, 69p	AAPG Datapages
7	Pacific Coast Paleogeography Symposium I – Paleozoic Paleogeography of the Western United States: Stewart, J H., Stevens, C. H., Fritsche, A. E., eds., 1977, 502p. ISBN: 1-878861-59-X	AAPG Datapages
	Late Miocene Geology and New Oil Fields of the Southern San Joaquin Valley; Field Trip Guidebook for Pacific Sections AAPG, SEPM, & SEG: Bazeley, Bill, ed., 1977, 88p, plus 1 oversize map	AAPG Datapages
12	PACIFIC COAST PALEOGEOGRAPHY FIELD GUIDE #2: Cretaceous Geology of the California Coast Ranges, West of the San Andreas Fault: Howell, D. G., Vedder, J. G., McDougall, K., eds., 1977, 109p.	AAPG Datapages
8	Pacific Coast Paleogeography Symposium 2 – Mesozoic Paleogeography of the Western United States: Howell, D. G., McDougall, K., eds., 1978, 573p. ISBN: 1-878861-58-1	AAPG Datapages
3	Symposium in Geochemistry: Low Temperature Metamorphism of Kerogen & Clay Minerals: Oltz, D. F., ed., 1978, 101p.	AAPG Datapages
13	Pacific Coast Paleogeography Field Guide #3: Depositional Environments of Tertiary Rocks Along Sespe Creek, Ventura County, California: Fritsche, A. E., ed., 1978, 81p.	AAPG Datapages
9	PACIFIC COAST PALEOGEOGRAPHY SYMPOSIUM 3: Cenozoic Paleogeography of the Western United States: Armentrout, J. M., Cole M. R., TerBest, H., eds., 1979, 335p.	AAPG Datapages
14	PACIFIC COAST PALEOGEOGRAPHY FIELD GUIDE #4: Tertiary & Quaternary Geology of Salinas Valley & Santa Lucia Range, Monterey County, California: Graham, S. A., ed., 1979, 148p. ISBN: 1-878861-55-7	AAPG Datapages
4	Eocene Depositional Systems, San Diego: Abbott, P. L., ed., 1979, 126p. ISBN: 1-878861-61-1	AAPG Datapages
5	A Guidebook to Miocene Lithofacies & Depositional Environments, Coastal Southern California & Northwestern Baja California: Stuart, C. J., ed. 1979, 138p.	AAPG Datapages
10	PACIFIC COAST PALEOGEOGRAPHY SYMPOSIUM 4: Quaternary Depositional Environments of the Pacific Coast: Field, M. E., Bouma, A. H., Colburn, I. P., Douglas, R. G., Ingles, J. C., eds., 1980, 355 p.	AAPG Datapages
6	Neogene Biostratigraphy of the Northern La Panza Range, San Luis Obispo County, California (Field Trip Guidebook): Blake, G. H., ed., 1980, 44p.	AAPG Datapages
15	Monterey Symposium: Monterey Formation and Related Siliceous Rocks of California: Garrison, R. E., Douglas, R. G., eds., 1981, 327p. ISBN: 1-878861-54-9	AAPG Datapages
16	Depositional Systems of Active Continental Margin Basins (Short Course Notes): Douglas, R. G., Colburn, I. P., Gorsline, D. S., eds., 1981, 165p.	AAPG Datapages

book #	TITLE	AVAILABILITY		
17	Modern and Ancient Biogenic Structures, Bodega Bay, California (Field Trip Guidebook): Frizzell, V., ed., 1981, 31p.	nonmember price 4.00	member price 2.00	indicate quantity
18	Upper Mesozoic Franciscan Rocks and Great Valley Sequence, Central Coast Ranges, California (Field Trip Guidebook): Frizzell, V., ed., 1981, 43p.	AAPG Datapages		
19	Geology of the Central and Northern Diablo Range, California (Field Trip Guidebook): Nilsen, T. H., ed., 1981, 112p.	AAPG Datapages		
20	Upper Cretaceous and Paleocene Turbidites, Central California Coast (Field Trip Guidebook): Frizzell, V., ed., 1981, 117p. ISBN: 1-878861-52-2	AAPG Datapages		
21	Simi Hills Cretaceous Turbidites, Southern California (volume with guidebook): Link, M. H., Squires, R. L., Colburn, I. P., eds., 1981, 134p.	AAPG Datapages		
22	Geologic History of Ridge Basin, Southern California: Crowell, J. C., and Link, M. H., eds., 1982, 304 p plus maps	AAPG Datapages		
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