



# SoCal SETAC NEWS



Society of Environmental Toxicology and Chemistry  
Southern California Chapter

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1. Yes, buying books (personally, I think this aspect of our business has been adding expenses at a faster rate than we have been able to generate in book sales, and we are trying to address that now).
2. Getting new members.
3. Attend annual meeting.
4. Volunteer!

As always, I welcome your ideas and suggestions and look forward to your participation at the upcoming SETAC events.



## ***President's Corner....***

**LAN WIBORG**

**SoCAL SETAC PRESIDENT**

Every volunteer organization obtains its strength from its members. Thanks to you (and our hardworking directors), So Cal SETAC is one of the most successful regional chapters in the SETAC NA family, with a diverse membership and sound finances. As you can see throughout this newsletter, our members have made tremendous contributions toward advances in environmental toxicology and chemistry, both at the regional and national levels, and we have continued to enlarge our network of environmental professionals. The 2005 annual meeting will be our first attempt to host a joint meeting with the Southern California Academy of Science (SCAS), and we hope this will be the first of many successful collaborative ventures.

Many of us are now looking for ways to share our success with the parent organization, which has endured some set-backs in recent months. Below are ideas for helping SETAC North America

## **Did you know?**

According to the American Red Cross, more than one million Americans volunteer their time for one or more causes.



**Lan Wiborg and Jeff Armstrong man the booth at Portland.**

## Notorious SoCal SETAC Horde Invades Local Pub

PORTLAND, OREGON - On Tuesday, November 15<sup>th</sup>, the Portland Police were put on high alert after an anonymous tip informed them that the SoCal Chapter of SETAC was planning a “happy hour” gathering in downtown Portland. A few dozen suspects from Southern California Chapter of SETAC were observed entering Henry’s Tavern, well known for the over 200 beers on tap, shortly after 7 pm PST. Witnesses reported that the mob quickly took over the upstairs poolroom amid calls for various ales, stouts, IPAs, hefeweizens, assorted cocktails, and plates of food. Patrons ran for cover as pool cues were brandished and cue balls began flying. Several stunned onlookers claim to have even seen one rather burly member of the gang hit an 8-ball so hard, it flew from one end of the table and landed cleanly in a side pocket. “It was terribly frightening and beautiful at the same time!” said one eyewitness speaking on the condition of anonymity. The hooligans closed down the pub and despite the communities concerns, there were no reports of violence, property damage, or malicious mischief. They even paid their bar and pool tabs. It appears this potentially volatile and often unsocial group was just looking for a good time and seemed to find it at Henry’s Tavern. Taking no chances however, Baltimore Police and the Office of Homeland Security have been made aware of this group’s intended movement into their jurisdiction in November of 2005. Consider yourself warned!



Scott Steinert eyes his next shot at Henry’s.

## 2004 SETAC National Meeting: A Review

**Contributed By  
Jeff Armstrong, Historian**

The 25<sup>th</sup> Annual SETAC North America Meeting was held in Portland, Oregon, from November 14-18, 2004 at the Oregon Convention Center. SETAC NA once again provided a high quality meeting. There were 21 short courses on topics ranging from statistics and modeling to ecological risk assessment to advanced mass spectrometric analysis for endocrine disruptors in the environment, and, of course, the ever popular sediment toxicity and TIE/TRE courses. The technical program included approximately 100 platform sessions, 111 interactive platform sessions, and over 300 posters daily. No SETAC NA meeting would be complete without a great social program, which this year boasted 13 events, including canoeing on the Willamette River, a Mount Saint Helens volcano tour, the SETAC Awards and 25<sup>th</sup> Anniversary Dinner Dance, and the perennial Sunday Evening Vendor’s Reception.

As usual, SoCal SETAC was well represented in both attendance and participation. Doris Vidal (SCCWRP) was on the 2004 Scientific Program Committee and, along with fellow SCCWRP and SoCal SETACers Diana Young and Ken Schiff, helped staff the registration booth. Two chapter members were platform session chairs: Chris Stransky (Nautilus Environmental LLC) co-chaired the Environmental Toxicology/Environmental Assessment session, while Doris Vidal co-chaired a session on Ecotoxicology of Tropical Aquatic Environments. Dan Schlenk (UC Riverside) participated in the abstract review process.

In the exhibiter’s hall there were backboards for regional chapters to display a poster highlighting chapter accomplishments and benefits for new member recruitment purposes and to see what other chapters are doing. Ken Schiff from SCCWRP took responsibility for providing the poster, which looked great! We send a special thanks to Valerie Raco-Rands at SCCWRP for her work producing such a great advertisement of our organization. Phil Markle (Los Angeles County Sanitation Districts), current chapter Past President, and Dan Schlenk, Vice President (University of California, Riverside) contributed to the next generation of environmental professionals as student mentors.

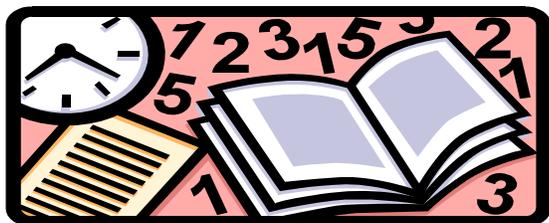


On Tuesday, Lan Wiborg (City of San Diego) and Jeff Armstrong (Orange County Sanitation District) represented SoCal SETAC in the Regional Chapter Booth. This presented the opportunity to discuss our chapter with potential members and to compare our activities with other chapters whose members stopped by to say hello.

On Wednesday, a one-hour SoCal SETAC chapter meeting was held at noon for the purpose of updating members and to inform potential members of chapter activities and upcoming events. Among the topics discussed were the February 2005 dinner meeting, chapter involvement with high school science fairs around southern California, and the 2005 SoCal SETAC Annual Meeting, which will be held in conjunction with the Southern California Academy of Sciences Annual Meeting at Loyola Marymount University in May, 2005. During the meeting it was also announced that Chapter President Lan Wiborg is the new Education Committee Chair for SETAC NA for 2005. Congratulations Lan! The meeting was attended by about 20 folks.

Chapter activity wasn't confined to the convention center. The City's light rail system (MAX) made the city and its restaurants, microbreweries and clubs very accessible. Tuesday night SoCal SETAC organized a Happy Hour at Henry's Tavern, which was well attended. The venue offered myriad local brews, a friendly atmosphere, and pool tables for a bit of sport. The highlight of the evening was a legendary shot made by Joe Gully of the Los Angeles County Sanitation Districts. Rumor has it that "LA Fats" is now planning for a second career after he retires from the Districts.

The 26<sup>th</sup> Annual SETAC NA Meeting will be in Baltimore, Maryland, from November 13-17, 2005. This was the location for the 2001 meeting and proved to be a very good venue, with excellent facilities and accommodations, and plenty of after-hours fun. See you in November in Baltimore!



***Let's Congratulate our presenters from SoCal!!!***

## **SOUTHERN CALIFORNIA REGIONAL CHAPTER**

### **2004 WORLD CONGRESS PRESENTATIONS DIRECTORY**

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#### **PLATFORM PRESENTATIONS**

**Monday, 15 November 2004**

**Session: MA1 Large-Scale Investigations of Contaminated Sediments**

*Presentation No. 7*  
Effect of spatial scale on relationships between sediment quality guidelines and toxicity.  
 Bay, S., Vidal, D., Field, L., and Myre, P.

**Session : MA6 Environmental Chemistry and Toxicology of Chiral Pollutants**

*Presentation No. 56*  
Enantioselectivity in Aquatic Toxicity and Biodegradation for Current Chiral Insecticides.  
 Gan, J.

**Session: MP2 Toxicity of Mixtures**

*Presentation No. 122*  
Selenium and mercury mixtures: toxicological and developmental effects on two insects at the bottom of the food web  
 Jensen, P. and Trumble, J.

*Presentation No. 125*

Evaluation of causes of acute toxicity in Greater Vancouver (British Columbia) wastewater treatment plants. (BAI-1085-790658)

Bailey, H.C., Elphick, J., Bertold, S., and van Roodselaar, A.

**Session: MP3 Chronic and Sublethal Sediment Toxicity**

*Presentation No. 127*

Comparison of acute and chronic toxicity methods for evaluating bay and estuarine sediments in California.

Bay, S., Greenstein, D., Anderson, B., Phillips, B., Chandler, G., Farrar, D., Ringwood, A., and Keppler, C

**PLATFORM PRESENTATIONS  
(Continued)**

**Thursday, 18 November 2004**

**Session: HA2 Urban Stormwater Impacts on Estuaries**

*Presentation No. 675*

The effect of BMP technology and public education on the water quality of dry weather runoff.

Schiff K. and Tiefenthaler, L.

**Session: HA5 Bioaccumulation and Biomagnifications**

*Presentation No. HA701*

Bioaccumulation of Cu and Pb in the white clam, *Chione californiensis*, from Bahia Magdalena BCS, Mexico

Hotz, A. and Boudrias, M.

**Session: HA10 Environmental Toxicology, Environmental Assessment**

*Presentation No. 751*

Preliminary results of a copper Water-Effect Ratio (WER) using *Mytilus galloprovincialis* in Shelter Island Yacht Basin, San Diego Bay

Stransky, C., Rudolph, J., Bailey, H., Boothe, P., and Moore, T.

**Session: HP5 Biomarkers**

*Presentation No. 805*

Genotoxicity of wildfire ash in marine mussels.  
Steinert, S.

**Session: HP7 Persistent Organic Pollutants (POPs)**

*Presentation No. 819*

Polychlorinated biphenyls (PCBs) in fish tissues from the Dniester River, Moldova.

Sapozhnikova, Y., Zubcov, E., Zubcov, N., and Schlenk, D.

**POSTER PRESENTATIONS**

**Monday, 15 November 2004**

**Session: PM08 Sediment Quality Assessment**

*Presentation No. PM078*

Watershed-based sources of polycyclic aromatic hydrocarbons (PAHs) to the greater Los Angeles coastal region

Tiefenthaler, L., and Stein, E.D.

*Presentation No. PM111*

Comparison of amphipod test species sensitivity and response to contaminant mixtures in sediment.

Gries, T., Bay, S., Field, L., Moore, D., Phillips, B., and Redmond, M..

**Session: PM15 Biomarkers**

*Presentation No. PM226*

Fecal steroid ratios as chemical markers for fecal indicator bacteria.

Young, D.L., Noblet, J.A., Zeng, E.Y., and Ensari, S.

**Session: PM16 Molecular Indicators for Ecological Exposure**

*Presentation No. PM270*

Effects of alkylphenol surfactants on the estrogenic activity of selected aquatic pesticides

Irwin, M., Xie, L., Siemering, G., Schlenk, D.

**Tuesday, 16 November 2004**

**Session: PT04 Endocrine-Disrupting Chemicals in Wastewater Treatment Effluents**

*Presentation No. PT062A*

Endocrine physiology of Southern California flatfish collected near wastewater treatment plant (WWTP) outflow - apparent stress and growth endocrine disruptions.

Reyes, J., Sak, K., Galima, M., Armstrong, J., Hagstrom, R., Vidal, D., Bay, S., and Kelley, K.

**POSTER PRESENTATIONS  
(Continued)**

**Tuesday, 16 November 2004**

**Session: PT07 Chemical and Biological Analysis of Endocrine Disrupting Compounds**

*Presentation No. PT111*

Development and implementation of an enzyme-linked immunosorbent assay for the measurement of vitellogenin in flatfish from the Pacific Ocean

Irwin, M., Sakamoto K., Armstrong, J., and Schlenk, D.

*Presentation No. PT127*

Endocrine disruption in southern coastal California flatfish.

Vidal, D.E., Armstrong, J., Baker, M., Gully, J., Irwin, M., Kelley, K.M., Montagne, D., Reyes, J., Schlenk, D., Bay, S.M.

**Session: PT08 Chronic and Sublethal Sediment Toxicity**

*Presentation No. PT132*

Comparison of methods for evaluating chronic toxicity in marine sediments.

Greenstein, D., Bay, S., Anderson, B., Phillips, B., Chandler, G., Farrar, J., Ringwood, A., and Keppler, C.

**Session: PT16 Biological Testing Data in Sediment Management Decisions**

*Presentation No. PT259*

Southern California contaminated sediment database with supporting analysis Features, metadata, and website.

Myre, P., Vidal, D., and Bay, S.

**Wednesday, 17 November 2004**

**Session: PW02 Atmospheric Chemistry**

*Presentation No. PW022*

Dry atmospheric deposition of trace metals in the Los Angeles region

Schiff, K., Sabin, L., Stolzenbach K., and Lim, J.H.

**Session: PW07 Effects of Multiple Stressors on Marine Resources**

*Presentation No. PW098*

The effect of pollution on intertidal meiofaunal communities in Baha Magdalena, Mexico

Douglass, S. and Boudrias, M.

**POSTER PRESENTATIONS  
(Continued)**

**Wednesday, 17 November 2004**

**Session: PW08 Aquatic Ecotoxicology II**

*Presentation No. PW110*

Validation of alternative procedure for conducting the giant kelp (*Macrocystis pyrifera*) 48-hour germination and growth bioassay

Wiborg, L.C., Bailey, H.C., Guttoff, D.I., O'Dohonue, D., Baugh, O.C., and Kelly, M.J.

**Session: PW10 Bioaccumulation and Biomagnification**

*Presentation No. PW184*

Organochlorine accumulation in odontocete melon tissue.

Gardner, S.C., Pier, M.D., Ylitalo, G., and Varanasi, U.

**Thursday, 18 November 2004**

**Session: PH04 Advances in Analysis and Measurements**

*Presentation No. PH004*

Assessment of in-situ copper emissions from recreational vessel antifouling paints

Schiff, K., Diehl, D., and Valkirs, A.

**Session: PH06 Agrochemicals, Pesticides, Pharmaceuticals**

*Presentation No. PH043*

Bioavailability of Permethrin in surface water

Yang, W.C., Gan, J., Liu, W.P.

*Presentation No. PH063*

Enantiomeric sulfoxidation of the organophosphate pesticide fenthion in fish.

Bawardi, O., Furnes, B., and Schlenk, D.

*Presentation No. PH064*

Enhanced degradation of chloroacetanilide herbicides by polysulfide salts

Bondarenko, S. and Gan, J.

**Session: PH 07 Environmental Chemistry and Toxicology of Chiral Pollutants**

*Presentation No. PH071*

Separation and isolation of enantiomers of current chiral insecticides by HPLC.

Liu, W., Qin, S., and Gan, J.

**POSTER PRESENTATIONS  
(Continued)**

**Thursday, 18 November 2004**

**Session: PH16 Ecological Risk Assessment and Landscape Ecological Modeling**

*Presentation No. PH193*

Southern California Bight 03 stormwater toxicity study in the San Diego Region: preliminary data and challenges faced.

Rudolph, J., Stransky, B., Bailey, H., Wiborg, L., Bay, S., and Greenstein, D.

## SHORT COURSES

**Course Title: Field-Based Exposure and Effects Measurements**

**Instructors: Michael H. Salazar, Sandra M. Salazar, and Paul Krause**

Objectives: The objectives of this course are to provide the following information regarding in-situ field bioassays: (1) scientific background, rationale, and experimental design of the approach; (2) practical aspects of counting, sorting, weighing, measuring, caging, and deploying test animals using some of the current methodologies; and (3) ecological risk assessment applications for characterizing exposure and effects under environmentally realistic conditions.

## Meet the Board

*Erika de Hollan*

*Graduate Student*  
**Environmental Science and Civil Engineering**  
**Loyola Marymount University**



Growing up in New Hampshire, one gets accustomed to the lush environment of a moist and fluctuating climate. In contrast, deserts seem like just perpetual sand and sky. For eighteen years, my idea of a desert used to be that of desolation and barrenness—a place frozen in time and devoid of most flora and fauna. I learned differently when I moved to Southern California for college. When my friends and I went on camping trips to the surrounding desert areas, I came to view the desert as a bustling hubbub of activity—a place full of life and progress.

The desert environment has taught me much about evolution, animal behavior, and how form and function of organisms are interrelated. Now, I see the plants in the desert as magnificent manifestations of Darwinian concepts. When I see sagebrush, I reflect on how that type of plant endures the hot and dry weather by having small leaves rather than broad ones that would let out more moisture. After a rain in the desert, the blooming wildflowers remind me that their seeds have been adapted to bloom by using water as a growth trigger. Brambles are designed by nature to have little hooks that latch onto passing animals as a means of dispersing seeds. And then there are the animals that are

able to drink water from plant roots. There is just so much happening here!

Besides the biological aspect of the Southern Californian deserts, I am also amazed by the geological landscape. I see the pointy rock formations that were carved by glaciers, air, and water. I marvel at how water has created furrows on the hills. Standing on a dry lakebed, I like to imagine myself in an underwater world. It's not too difficult, considering the place was actually underwater millions, or perhaps a billion, of years ago. The desert landscape has many stories to tell, albeit recounted surprisingly by inanimate objects such as craggy rocks.

In conjunction with experiencing the desert first hand, I attribute my desert fascination to my science education at Scripps College. Biology classes informed me about life cycles, anatomy, physiology, cellular functions, and other aspects of life. An animal behavior class taught me how and why animals operate to adapt to their environment. Other Darwinian concepts, such as the survival of the fittest furthered my appreciation of desert life. Additionally, I can comprehend the desert at the chemical level from chemistry courses. During the course of earning my Bachelors degree in Biology, I came to recognize the value of science and consequently became fond of it. Science remains at the heart of my educational and career-oriented pursuits.

An attraction to science is especially fitting because I am a curious person. Science helps to gratify my inquisitiveness as well as fuel it further. To continually learn and to keep my brain intellectually active is my *raison d'être*. Quenching my thirst for knowledge is a large reason I have recently embarked upon attaining graduate degrees in environmental science and civil engineering at Loyola Marymount University. Although, I previously considered neuroscience and forensics as career options for similar reasons. Basically, as I mentioned before, I love all aspects of science.

After college, I dabbled in a few other aspects of science. In Carlsbad of North San Diego County, I worked at a biotech company that manufactured diagnostic tests for Lyme's disease, the Epstein Barr virus, hepatitis, and other diseases. Afterward, I moved to the Los Angeles area and worked in the cellular research aspect of an enzyme therapy used to ameliorate the conditions brought about by a congenital disease that affects the cells' vacuoles.

Like my narrow view of the desert, all that I knew about water in Southern California came from “Chinatown,” where politicians and mobsters performed nefarious acts to keep their cities flowing with “stolen” water. And I knew absolutely nothing about reclaimed water. I thought it was done only occasionally and solely in prosperous cities. That is, until I came to work at the Los Angeles County Sanitation Districts. For the past three years, I have been working in a water quality lab for the water treatment plants. I can confidently say that I have learned more here than at all my previous jobs. There are more factors than I could have imagined that go into running a reclamation plant. Business at the treatment plants incorporate so many aspects, such as applied and research science, politics, government regulations, financial planning, human relations, et cetera, as does any other corporation. And that is just wastewater management. At this moment, I can barely envision the business of drinking water (hopefully that will change due to future educational courses).

Besides being educational, work in the water toxicology lab can be gratifying. Alongside the required tests, there are opportunities for research and innovation, in which I am partial to participating. Research is an ongoing and ever evolving quest that allows me to constantly learn and gain invaluable insight. I particularly enjoy working on toxicity identification evaluations. For me, they are like solving logic puzzles, a fine exercise for the mind. Logic and crossword puzzles are one of my favorite pastimes. I have been known to help some friends out of a few puzzle ruts here and there.

As much as I adore the sciences, I appreciate the arts. Although I did not fully complete my fine arts minor (as I did in psychology), I can still enjoy going to a museum, like the nearby Museum of Contemporary Art, or trying my hand at charcoal and pastels. Like many people, I am amused by motion pictures. Every other week, I meet with a club where we watch and discuss a movie of choice. I mostly like comedies, dramas, and science fiction, while I loathe romantic comedies (“The Princess Bride” and “When Harry Met Sally” are the rare exceptions). Some favorite movies that come to mind include “Network,” “Raising Arizona,” “Amadeus,” “Momento,” “Finding Nemo,” and “The Lord of the Rings” trilogy. In the realm of television, my favorite shows that being with “S” include, “Seinfeld,” “Scubs,” “The Sopranos,” and most importantly, “The Simpsons.” I find that most circumstances in life can be related to some Simpson situation. “America’s Next Top Model and “American

Idol” rank high on my guilty pleasure list. I would also say that I am a music lover, but it is too personal to mention. Suffice it to say that I bought a forty gigabyte MP3 player and filled it within one month.



Another spare time distraction is reading. My favorite authors include Tom Robbins and Kurt Vonnegut. Perhaps it is the environmental and societal issues or the zany humor, Vonnegut can consistently make me cry and laugh in the same sitting, like in “Cat’s Cradle.” Robbins writes on similar themes, with even more eccentric situations. He is an exceptionally erudite author with an amazing comprehension of the English language that I do not mind having to rummage through the dictionary from time to time. “Fierce Invalids Home from Hot Climates” nicely manifests his offbeat and inventive style.

I also try to keep up with several athletic activities. I enjoy running, especially along the beach, where the ocean air has a way of rejuvenating. Because of five years of running on a fairly consistent basis, I have decided to participate in a marathon. The aim is for the Los Angeles event, time and scheduling permitting. Last year, I biked the route with a few friends before the main event, so I will know the course (I hope that helps). I also enjoy hiking, softball, and basketball. A few months ago, I added long board surfing to my sporting repertoire and this winter I was able to practice along the northern and western shores of Oahu, Hawaii.

If you ask me if I miss New Hampshire, my answer would be an easy “no.” It seemed that despite its blooming ecology and longer history, I felt it was barren in the opportunities and diversity that Southern California has offered. Sure the foliage and mountains are beautiful, but I prefer a desert locale and a nearby ocean backdrop. Although, I did see a water reclamation plant in Hawaii that may need an engineer... In any case, I will still abide by the motto, “Live free or die!” and rejoice that being a faithful Red Sox fan has finally paid off.



## Meet the Board-Du

*Howard Bailey*

Senior Scientist  
Nautilus Environmental

Let's see.... Somewhere here I should demonstrate that I am indeed qualified to represent your interests as a member of the SoCal SETAC Board. So, my bona fides include three degrees: a B.S. in Wildlife and Fisheries from Davis, a M.S. in Population Biology from Stanford, and a Ph.D. from Davis in Ecology. My Master's Thesis focused on relative efficiencies of niche utilization of closely related fish occupying the same habitat, and my Dissertation was related to population dynamics and contaminants in striped bass.

In various professional capacities, I have served as the Director of the Aquatic Toxicology Program at SRI International, Study Director at Aqua-Science, Director of the Aquatic Toxicology Laboratory at UC Davis, Laboratory Manager and Senior Scientist at EVS Environment Consultants, and Senior Scientist at AMEC and, most recently, with Nautilus Environmental. I was also an assistant professor in the School of Veterinary Medicine at UC Davis. My primary research interests lie in the area of establishing linkages between ecological effects and contaminants, along with determining the causes of toxicity in effluents and environmental samples. In addition, I have been fortunate enough to publish 30-odd papers in the peer-reviewed literature, and serve as a referee for a number of journals. With a little luck, I hope to get at least a few more manuscripts completed before winding down my career.

Outside of work, my main interests include volleyball and fishing. After playing volleyball for close to 30 years, I have come to the realization that we all get old, as my "jump" has steadily diminished over the past few years. With respect to fishing, I moved to British Columbia in 1995, primarily because California's steelhead runs were not showing any signs of recovery (if anyone is interested in an example of our collective inability to manage our environment on a sustainable basis, just take a look at the decline of our anadromous fish populations over the past century).

For the next 8+ years, I fished extensively over southern British Columbia, Vancouver Island and the Canadian

Rockies. Encounters with bears and eagles were fairly common occurrences, and I got to see a lot of pretty country. And, yes, they have their own environmental problems, but the population pressures are not nearly as extreme as those found in the sunshine state. In 2003, I returned to California for personal reasons, but still plan vacations around major fish runs in British Columbia. Air travel is an amazing thing...



For anyone who wants to discuss technical issues, possible collaborative efforts, or how SETAC may better serve them, I am more than willing to lend an ear, so to speak. And if you want to know when the best time is to be standing on a beach on the east coast of Vancouver Island with the intent of catching a salmon on a fly rod, or possibly visiting the Elk River in search of cutthroat, bull trout and whitefish, I may be able to help out there, too. Be forewarned, however, that I suffer from acute memory loss when asked about the best locations for steelhead.....



## A Brief History of SoCal SETAC

*Contributed by Jeff Armstrong...sort of*

Okay, so Stephen Hawking I'm not and it's not my job to document the origins of the universe. But as SoCal SETAC historian, it is my responsibility to document the activities and history of the chapter. Our current activities and efforts are largely focused on moving the chapter forward in the areas of public outreach, education, and scientific advancement, while always seeking to boost membership and member involvement. Someone once said that in order to know where to go, you must first understand where you have been. It is with that in mind that I offer this two-part history of SoCal SETAC. This first installment covers the early years, 1990-1996, and documents the efforts of the

founding members in getting the chapter going and the early accomplishments of SoCal SETAC.

An initial attempt was made to form a Southern California SETAC chapter in about 1990, when a small group of dedicated southern California national SETAC members met at California State University, Long Beach. The early initiators in Los Angeles County included Brenda Sanders, Ken Jenkins, Don Reish, Louis Levy, Barry Snyder and people at SCCWRP, especially Steve Bay. For some reason, perhaps because SETAC itself was a relatively new organization, the time was not yet right for building this new chapter. What we shall refer to here as a “pre-chapter” remained in an embryonic state for several years.

In the spring of 1992, Barry Snyder and Ann de Peyster decided to see whether the time had finally arrived to establish an officially recognized Southern California SETAC chapter. Despite busy schedules and commitments to other professional organizations with complementary interests, potential members reacted favorably to the idea of a Southern California chapter. Over the next 18 months, a potential membership list was assembled and discussions proceeded with national SETAC officials, who were equally enthusiastic about the idea and provided detailed “How to” instructions for becoming a recognized chapter.

Momentum and determination spurred a new growth phase in 1993. Some of the chapter organizers in San Diego reasoned that one way to demonstrate that a local SETAC chapter could now be viable and offer valuable experiences and contacts for the membership was to offer a conference for potential members. If the conference was a success, then a healthy chapter was likely to follow. “Ecological Risk Assessment: A Meeting of Science and Policy” was held October 8-9, 1993 at the Hyatt Islandia Hotel on Mission Bay, San Diego. Months of careful planning, support from the national SETAC Foundation, the Navy (NRaD), San Diego State University, and Ogden Environmental, and help from chapter co-organizers Bill Wild, Marie Vicario, Marilyn Schwartz, Michael White and Nancy Kramer, contributed to making the conference a rousing success. This was a good omen for the future of the new chapter. As an additional demonstration of support, the SETAC Special Publications Committee approved the idea to prepare proceedings of the Risk Assessment conference for publication as a SETAC Special Publication in 1996.

1994 proved to be another meaningful year in the early life of the chapter. It was a year of firsts. The first SoCal SETAC newsletter was issued in June; elections of the first chapter officers and board members were held in October, the first annual meeting occurred in November at Waters Restaurant in Irvine; and the new Southern California Regional Chapter participated with other chapters in its first Regional SETAC Chapters meeting, represented in a conference call by newly elected Chapter President Mollie Bigger and Secretary Marilyn Schwartz. Participation in chapter activities was also growing noticeably. Members and guests were packed like sardines in the banquet room of Waters Restaurant to hear Jo Ellen Hose describe her work on assessing marine pollution using fish eggs and larvae at the annual meeting. A proposed Constitution and By-laws were presented to the national SETAC Board for consideration at the 1994 annual meeting in Denver, and these documents were ultimately approved in early 1995, making the Southern California Chapter official.

Newly elected officers and board members met jointly for the first time in Long Beach on February 1, 1995 to begin setting a course for the Chapter. Led by Board Member Jack Anderson, chapter members mobilized on short notice to co-sponsor a very successful symposium on Environmental Toxicology and Chemistry at the Southern California Academy of Sciences annual meeting at Cal State Fullerton in May 1995. Another successful dinner/research symposium on “Biomarkers of Pollution in San Diego Bay” was held in Carlsbad in June 1995, featuring researchers Brenda Sanders and Scott Steinert.

In May 1996, So Cal SETAC again sponsored an Environmental Toxicology and Chemistry Symposium at the Southern California Academy of Sciences annual meeting at Loyola Marymount University. Chris Stransky, former Board Member and Webmaster of SoCal SETAC, was awarded the Margaret Barber Best Paper Award at this symposium.

SoCal SETAC was well on its way as a recognized regional chapter with a growing membership and dedicated board driving the organization forward. There is no doubt that we would not have the solid and successful regional chapter we have today were it not for the persistence and dedication of the founding members and early board members in getting us off to the right start. Your hard work and dedication is still appreciated today.

I would like to thank founding member Barry Snyder for this detailed chronology of the early years of the chapter. He told me that a lot of this information came from an article in a SoCal SETAC newsletter from around 1994, but that the author was not named. It was not our intent to plagiarize the work and if the author of that article is reading this, please contact me and I will acknowledge you accordingly. If I am not contacted, I might just claim it as my own; this is good stuff!

In the next installment, we'll cover the years 1997 through 2004. As a call to the general membership, if you have any SoCal SETAC stories or memories you'd like to share, from any year or activity, please contact me so I can include them in future articles.



## CALENDAR OF EVENTS

Contributed by Daniel Schlenk

### March

**SOT 44th Annual Meeting.** 6-10 March 2005, New Orleans, Louisiana, USA. Sponsored by the Society of Toxicology (SOT).  
[www.toxicology.org/MemberServices/Meetings/am2005/index.html](http://www.toxicology.org/MemberServices/Meetings/am2005/index.html) for additional information.

**2005 MRS Spring Meeting.** 28 March - 1 April 2005 (Exhibit: 29-31 March 2005), Moscone West, San Francisco CA, USA, [www.mrs.org/meetings/spring2005/](http://www.mrs.org/meetings/spring2005/)

### April

**International Conference on Life Cycle Assessment 2005 (ICLCA 2005).** 25-28 April 2005, Hotel Herradura in San Jose, Costa Rica. To submit abstracts and for more information on registration and the meeting visit <http://196.40.86.134/> or <http://www.ecoglobaladvisors.com> (go to presentation and then invitation) or submit your abstract directly to [aquiros@ecoglobaladvisors.com](mailto:aquiros@ecoglobaladvisors.com) or [guido.sonnemann@unep.fr](mailto:guido.sonnemann@unep.fr). Abstracts should be limited to 300 words for platform and poster presentations and must be submitted before 15 February at the website.

### May

#### SETAC Europe 15th Annual Meeting

*The Reason d'être of Environmental Toxicology and Chemistry: From Obvious to Tedious Effects in a Changing World.*  
22 - 26 May 2005. Lille, France.

**1st International Conference on Engineering for Waste Treatment: Beneficial Use of Waste and by-Products.** 17-19 May 2005, Albi, France.  
[www.enstimac.fr/heberges/wasteeng2005/](http://www.enstimac.fr/heberges/wasteeng2005/)

### June

**13<sup>th</sup> International Symposium on Pollutants in Marine Organisms.** June 19-20. Alessandria, Italy.  
Abstracts due 28 Feb.  
[www.disav.unipmn.it/Initiative/Primo13/index.htm](http://www.disav.unipmn.it/Initiative/Primo13/index.htm)

**4th International Conference on Hormesis: implications for toxicology, medicine and risk assessment**  
June 6-8, 2005  
University of Massachusetts at Amherst  
[www.belleonline.com](http://www.belleonline.com)

### September

**Symposium on Environmental and Social / Economic Aspects of the Non-Agricultural uses of pesticides** *A joint SETAC Europe / CEA meeting.*  
5 - 7 September 2005. Cambridge, UK

**The 15th International Society of Developmental Biologists Congress 2005** will be held at the Sydney Convention & Exhibition Centre in Sydney, Australia from 3-7 September 2005. The Congress theme is "From Egg to Adult: Constructing the Complexity of Life". For further information, including registration and call for abstracts, please visit [www.isdb2005.com](http://www.isdb2005.com)

**42nd congress of European Societies of Toxicology, EUROTOX 2005.** 11-14 September 2005, Krakow, Poland; For more information, please contact Prof. Konrad J. Rydzynski, Nofer Inst. of Occupat. Health; P.O. Box 199;, PL-90950 Łódź, Poland; tel +48 42 314 625/626; fax +48 42 656 8331; email [konrad@imp.lodz.pl](mailto:konrad@imp.lodz.pl); [www.eurotox2005.org](http://www.eurotox2005.org)

**VII Congress SETAC - Latin America*****Environmental Toxicology and Chemistry in Latin America: Challenges, Perspectives and New Approaches***

16 - 20 October 2005. Campus Casona de las Condes. Universidad Andrés Bello Fernández Concha 700, Las Condes. Santiago, Chile.

**November****2005 MRS Fall Meeting.** 28 November - 2 December

2005 (Exhibit: 29 November - 1 December 2005),

Boston, MA, USA; Contacts: Yang-Tse Cheng,

[yang.t.cheng@gm.com](mailto:yang.t.cheng@gm.com); David S. Ginley,

[david\\_ginley@nrel.gov](mailto:david_ginley@nrel.gov); Kathryn E. Uhrich,

[uhrich@rutchem.rutgers.edu](mailto:uhrich@rutchem.rutgers.edu); Ralf B. Wehrspohn,

[wehrspohn@physik.uni-paderborn.de](mailto:wehrspohn@physik.uni-paderborn.de);

**SETAC North America 26th Annual Meeting**

*Environmental Science in a Global Society: SETAC's Role in the Next 25 Years*

13 - 17 November 2005. Baltimore, Maryland, USA.

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# PROGRAM SUMMARY



## Southern California Society of Environmental Toxicology and Chemistry 2005 Annual Meeting



**20-21 May 2005      Loyola Marymount University      Los Angeles, CA**

### Meeting Highlights:

This will be a joint meeting with the Southern California Academy of Sciences (SCAS) and the Southern California Society of Environmental Toxicology and Chemistry (SoCal SETAC) and attendees are invited to participate and attend all meeting events regardless of affiliation. This meeting will feature three plenary sessions, two days of platform sessions, and a Friday evening poster session. Please see attached itinerary for plenary details.

Abstracts of all poster and platform presentations will be published in the SCAS journal, *Bulletin on Southern California Science*. All presenters and SCAS members will receive a free copy of this journal.

### Tentative Schedule of Events

#### Friday, May 20, 2005:

7:00 am – 5:00 pm	Registration
8:00 am – 11:00 am	SCAS Platform Presentations
11:00 am – Noon	SCAS Plenary
1:00 pm – 5:00 pm	SCAS Platform Presentations
2:00 pm – 3:00 pm	SCAS and SoCal SETAC Poster Set-up
5:00 pm – 7:00 pm	SCAS and SoCal SETAC Poster Sessions
	Wine and Cheese Poster Social and Student Poster Award Announcements

#### Saturday, May 21, 2005

7:00 am – 9:00 am	Registration
8:00 am – 11:00 am	SCAS Platform Presentations
8:30 am – 9:00 am	SoCal SETAC Welcome
9:00 am – 11:00 pm	SoCal SETAC Plenary
11:00 am – Noon	SCAS Plenary
1:00 pm – 5:00 pm	SoCal SETAC and SCAS Platform Presentations
5:00 pm – 7:00 pm	Wine and Cheese Social and Student Platform Award Announcements



## PLENARY SUMMARY



# Southern California Society of Environmental Toxicology and Chemistry 2005 Annual Meeting

20-21 May 2005 Loyola Marymount University Los Angeles, CA

### Friday, May 20, 2005

11:00 am Plenary:

Brian Fagan, "Fish on Fridays: How the Catholic Doctrine of Eating Fish on Friday Changed History"

### Saturday, May 21, 2005

9:00 am Plenary: "New Frontiers in Environmental Chemistry"

"Tools for Tracking the Fate of Wastewater Derived Contaminants in Effluent Dominated Waters", David Sedlak, UC Berkeley.

"Contaminant Fate and Source Tracking Using Chiral and Stable Isotopic Signatures", Keith Maruya, SCCWRP.

"Chemical Methods for Measuring Bioavailability", Jay Gan, UC Riverside

11:00 am Plenary:

Jim Powell, "Night Comes to the Cretaceous"



# FIRST CALL FOR PAPERS



**ABSTRACT DEADLINE: 20 APRIL 2005**

## Southern California Society of Environmental Toxicology and Chemistry 2005 Annual Meeting

**20-21 May 2005 Loyola Marymount University Los Angeles, CA**

The Southern California Society of Environmental Toxicology and Chemistry (SoCal SETAC) in conjunction with the Southern California Academy of Sciences (SCAS), announces the first call for papers to be presented at the 2005 Annual Meeting. The Board of Directors is busy putting together a strong technical program including plenary presentations, and various platform and poster sessions related to environmental toxicology and chemistry. Keep in mind that all presented abstracts will be published in an upcoming issue of the SCAS journal, *Bulletin on Southern California Science*. More details on these events will be made available soon, but we need your help to ensure the success of the meeting.

We are requesting abstracts for platform or poster presentations at the conference. Any primary research, case study, monitoring program data, or policy-based papers related to environmental toxicology and chemistry are acceptable. We also encourage presentation of student proposals and research at the meeting by offering a Best Student Poster and Platform Award. **Every student presenter will receive a free 2005 SoCal SETAC membership and the best student poster and platform presentations will be awarded \$100.** This meeting is also a great opportunity to present information from the SETAC Annual Meeting to those who could not attend or prepare for next years meeting.

The abstract deadline is April 20, 2005, and the format for submission is as follows. The abstract, including the authors and title, are not to be longer than 300 words. Longer abstracts may be edited. At the top of the file, provide the name, address, phone, FAX, and e-mail information of the presenting author. Then skip a line and list your preference for a platform or poster presentation and whether this paper is to be judged for the Best Student Paper Award. Skip a line and type the title of the abstract in bold using title case. Then list the authors, last name first, then the first and middle initial, and place an asterisk (\*) after the name of the presenting author. Include the name, city, and state of the institution for each author but not the department or street address. Without skipping a line, begin the text of the abstract. An example of the correct submission format can be found on the next page. Abstracts should be submitted as e-mail attachments or on disk as a Windows-based WordPerfect (\*.wpd) or Microsoft Word (\*.doc) file.

### **Please note: new submission contact!**

Send the files to ~~LA County~~ Sanitation Districts by e-mail to [pmarkle@lacsdsd.org](mailto:pmarkle@lacsdsd.org). The presenting author will be notified of acceptance status within two weeks of receipt.

Needless to say, the SoCal SETAC 2005 Annual Meeting promises to be an exceptional educational and social experience for everyone in attendance. We look forward to and thank you in advance for your contribution.



# FIRST CALL FOR PAPERS

## Southern California Society of Environmental Toxicology and Chemistry 2005 Annual Meeting

**20-21 May 2005 Loyola Marymount University Los Angeles, CA**

Example of correct abstract format

Philip J. Markle  
County Sanitation Districts of Los Angeles  
San Jose Creek Water Quality Laboratory  
1965 Workman Mill Road  
Whittier, CA 90601  
T: 562-699-0405, ext. 3055  
F: 562-695-7267  
E: pmarkle@lacsdsd.org

My preference is a PLATFORM presentation.  
I do not wish to be judged for the Best Student Paper Award.

### **Application of the Pearson Product-Moment Correlation for Evaluating Whole Effluent Toxicity Test Concentration Response Relationships.**

**Phil Markle\*, Joseph Gully, and Carlita Barton. County Sanitation Districts of Los Angeles, Whittier, CA.**

The dose response relationship has been characterized as the most fundamental and pervasive concept of toxicology. This concept assumes a causal relationship between the dose or concentration of a substance and the measured response. This has been recognized in the latest USEPA chronic bioassay testing protocols through the requirement to evaluate the concentration-response relationships of all NPDES multi-concentration tests. Although the protocols provide complicated and subjective guidance on evaluating dose response relationships, the SETAC NA Expert Advisory Panel for Performance Evaluation and Data Interpretation has recommended the use of the Pearson product-moment correlation statistic in their Wild, Wild, WET short course. The Pearson product-moment correlation is a relatively simple and objective analysis that establishes whether a significant relationship exists between concentration and response. The two methods were compared by evaluating the dose responses from 149 NPDES reported chronic toxicity tests using both the EPA protocol recommended guidance and the Pearson product moment correlation. The USEPA and Pearson product-moment correlation typically agreed in terms of establishing an appropriate concentration response relationship prior to identifying a sample as being toxic. Results indicate that the two methods were in agreement in 93% of the tests. However, in 3% of the tests, the USEPA guidance identified the sample as "toxic" while the Pearson product-moment correlation did not identify a significant concentration response. Conversely, 4 % of the tests identified a significant concentration response curve but would have been considered "non-toxic" according to USEPA guidance.

# ABSTRACT DEADLINE: 20 APRIL 2005

## MEETING REGISTRATION FORM



### Southern California Society of Environmental Toxicology and Chemistry 2005 Annual Meeting

May 20-21, 2005 – Loyola Marymount University

Campus Hilton Business Center, Los Angeles, CA

	Meeting Registration:(circle one)		Subtotal
	Pre-registration (Before 04/20/05)	On-site (After 04/20/05)	
Active/Regional Member	\$40	\$50	
Student Member	\$25	\$30	
Non-Member	\$50	\$60	

#### REGISTRATION NOTES

- 1) Cancellations must be received in writing by May 1, 2005 in order to receive a refund (minus a 15\$ cancellation fee). No refunds will be given after May 1, 2005.
- 2) Cash, checks, and money orders will be accepted for pre-registration and during on-site registration. Sorry, we cannot accept PO's or credit cards.

#### PAYMENT:

Mail the Meeting Registration Form and Membership Application to Brian Hester, SoCal SETAC Secretary, P.O. Box 655, Riverside, CA 95202 (check or money order ONLY!). Please make checks payable to SoCal SETAC.

#### DIRECTIONS:

The Loyola Marymount University campus is located in Westchester at One LMU Drive, approximately four miles north of LAX.

**From LAX:** Travel north on Sepulveda Blvd. Remain in either of the left two lanes and merge onto Lincoln Blvd. Follow Lincoln Blvd north past Manchester Blvd. Turn right onto LMU Drive. You can get a parking pass from the guard at the front gate.

**From the South:** Travel on 405 North, exit on Jefferson Blvd., and turn left. Head west and make a left onto Lincoln Blvd. Head south and turn left into the campus on LMU Drive. You can get a parking pass from the guard at the front gate.

**From the North:** Travel on 405 South, exit on Jefferson Blvd., and turn right. Head west and make a left onto Lincoln Blvd. Head south and turn left into the campus on LMU Drive. You can get a parking pass from the guard at the front gate.

**From the East (using the 105 Freeway):** Travel on 105 West, exit on Sepulveda Blvd., and go north. Remain in either of the left two lanes and merge onto Lincoln Blvd. Follow Lincoln Blvd north past Manchester Blvd. Turn right onto LMU Drive. You can get a parking pass from the guard at the front gate.

**From the East (using the 10 Freeway):** Travel on 10 West to 405 South, exit on Jefferson Blvd., and turn right. Head west and make a left onto Lincoln Blvd. Head south and turn left into the campus on LMU Drive. You can get a parking pass from the guard at the front gate.

#### LODGING:

A partial list of available lodging will be provided in a later announcement.

## Pre-registration Deadline: April 20, 2005



# MEETING APPLICATION FORM

## Southern California Society of Environmental Toxicology and Chemistry 2005 Annual Meeting

May 20-21, 2005 – Loyola Marymount University

Campus Hilton Business Center, Los Angeles, CA

### MEMBERSHIP APPLICATION FORM

PLEASE COMPLETE AND RETURN WITH REGISTRATION FORM

Please print

<b>Name:</b>		<b>Affiliation:</b>	
<b>Address:</b>		<b>City:</b>	
<b>State:</b>	<b>ZIP:</b>	<b>Phone:</b>	
<b>FAX:</b>		<b>E-Mail:</b>	

Check if new contact information

Membership Renewal (will be applied to 2006 membership)

New Member (through 12/31/04)

#### Category of Employer:(circle one)

- Government  
 Consultant  
 Student

- Academic  
 Industry/Business  
 Other \_\_\_\_\_

#### Technical Background:(circle as many as apply)

- Atmospheric Science  
 Biology  
 Chemistry  
 Earth Science

- Engineering  
 Health Science  
 Toxicology  
 Ecology

Other \_\_\_\_\_

#### Degree(s) earned:

B.A./B.S.

M.A./M.S.

Ph.D.  P. E.

Other \_\_\_\_\_

#### Class of Membership:(check one)\*

Active Member

Regional Member

\$20.00 per year

Student Member

\$10.00 per year

\* **Active Members** and **Regional Members** are qualified professionals who share the stated purpose of the Chapter and who have education, training, research or applied experience in environmental toxicology and/or chemistry. **Active Members** must also be members of SETAC NA (National). **Student Members** are individuals who share the stated purpose of the Chapter and are students showing promise of becoming qualified for Regional or Active status at a later date.

Unfortunately, SoCal SETAC does not have the clerical staff to send reminder notices or pro-rate dues for partial year membership. New member dues paid before September 1<sup>st</sup> of the current year will apply only to the current membership cycle.

**Pre-registration Deadline: April 20, 2005**

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 Brian Hester - Brian.Hester@westonsolutions.com

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**FREE Generic Job Announcements and INEXPENSIVE Commercial Advertisements/ Announcements are being accepted for future issues of SoCal SETAC News**

Free job postings are limited to 5 lines at publication width (3.25 in., 10 point, Times New Roman font) and are subject to edit as needed to format the newsletter. Job announcements beyond the 5-line limit described or including logos can be purchased at the commercial rates. Per issue ad rates are:

**Full Page: \$100**

**Half Page: \$75**

**Quarter Page: \$50**

**Eighth Page: \$35**

Please send camera-ready advertisements or job listings to Dan Schlenk ([Daniel.Schlenk@ucr.edu](mailto:Daniel.Schlenk@ucr.edu)) for inclusion in the next issue of SoCal SETAC News.



## SoCal SETAC Officers – Fiscal Year 2004-2005

POSITION	NAME & AFFILIATION	RESPONSIBILITIES
<b>Past President</b>	<b>Philip Markle</b> L.A. County Sanitation Districts <a href="mailto:pmarkle@lacsdsd.org">pmarkle@lacsdsd.org</a>	Advisor/Stand-in for President and Vice-President Program Committee Chair for SoCal SETAC Annual Meeting
<b>President</b>	<b>Lan Wiborg</b> City of San Diego <a href="mailto:LWiborg@sandiego.gov">LWiborg@sandiego.gov</a>	National SETAC Liaison Board Agenda & Action Items
<b>Vice-President</b>	<b>Daniel Schlenk</b> UC Riverside <a href="mailto:daniel.schlenk@ucr.edu">daniel.schlenk@ucr.edu</a>	Newsletter Editor
<b>Treasurer</b>	<b>Carlita Barton</b> L.A. County Sanitation Districts <a href="mailto:cbarton@lacsdsd.org">cbarton@lacsdsd.org</a>	Maintain Chapter Finances/Non-profit status Meeting Finances & Contracts
<b>Secretary</b>	<b>Brian Hester</b> MEC Analytical <a href="mailto:hester@mecanalytical.com">hester@mecanalytical.com</a>	Membership Maintenance Recording board meeting minutes Election Coordinator
<b>Webmasters</b>	<b>Jon Ball</b> City of Los Angeles <a href="mailto:jball@san.lacity.org">jball@san.lacity.org</a>	Maintains and updates SoCal SETAC web site
<b>Historian</b>	<b>Jeff Armstrong</b> Orange County Sanitation District <a href="mailto:jarmstrong@ocsd.com">jarmstrong@ocsd.com</a>	Maintains So Cal SETAC archives

## SoCal SETAC Board of Directors

<b>Board Member (2003-2005)</b>	<b>Jan Gan</b> UC Riverside <a href="mailto:jgan@mail.ucr.edu">jgan@mail.ucr.edu</a>	<b>Board Member (2004-2006)</b>	<b>Mary Ann Irwin</b> UC Riverside <a href="mailto:mirwi002@student.ucr.edu">mirwi002@student.ucr.edu</a>
<b>Board Member (2004-2006)</b>	<b>Howard Bailey</b> AMEC Earth and Environmental <a href="mailto:howard.bailey@amec.com">howard.bailey@amec.com</a>	<b>Board Member (2004-2006)</b>	<b>Chris Marwood</b> UC Santa Barbara <a href="mailto:marwood@bren.ucsb.edu">marwood@bren.ucsb.edu</a>
<b>Board Member (2004-2006)</b>	<b>Scott Johnson</b> Aquatic Bioassay and Consulting Labs., Inc. <a href="mailto:scj_aqua@pacbell.net">scj_aqua@pacbell.net</a>	<b>Board Member (2004-2006)</b>	<b>Ken Schiff</b> SCCWRP <a href="mailto:kens@sccwrp.org">kens@sccwrp.org</a>
<b>Board Member (2004-2006)</b>	<b>Erika DeHollan</b> Loyola Marymount University <a href="mailto:edehollan@lacsdsd.org">edehollan@lacsdsd.org</a>	<b>Board Member (2004-2006)</b>	<b>Vacant</b>