



# SoCal SETAC NEWS



Society of Environmental Toxicology and Chemistry  
Southern California Chapter

Volume 11, Issue 1

www.socalsetac.org

March 2004

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directors met quarterly. The chapter organized and sponsored a well-attended and very entertaining general membership dinner meeting featuring a presentation by Charles Moore of the Marine Research Foundation examining the fate and transport of plastic wastes in the North Pacific Gyre. And finally, SoCal SETAC organized and sponsored a successful 2-day annual meeting on the U.C. Santa Barbara campus which included two short courses, a plenary, concurrent platform sessions and a poster session with over 80 people attending this meeting. In short, 2003 was a great year for the chapter with finances and membership at an all time high. This is now allowing the chapter to participate in more philanthropic activities as evident in our 2003 highlights and also enables the chapter to keep meeting registration and short course fees low. It is only through the hard work and diligent efforts of many past and present SoCal SETAC members that has allowed our chapter to develop and grow over the years and it will be up to many current and future SoCal SETAC members to see to it that the chapter continues to grow.

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



**PHILIP MARKLE**

### **SOCAL SETAC PRESIDENT**

**B**efore discussing the Chapter's upcoming events, I would like to take this opportunity to briefly highlight some of the Chapter's 2003 activities and accomplishments. Our final 2003 membership was right at 100 members with an over-all mailing list which was significantly larger. Our webpage ([www.socalsetac.org](http://www.socalsetac.org)) has continued to be updated and kept current thanks mainly to the efforts of Chris Stransky (AMEC) and now being taken over by Jon Ball (City of L.A.). In 2003 the Chapter provided over \$1,100.00 in student travel and poster awards and high school science fair awards. The Chapter also continued its annual \$200.00 contribution to the Uplift/Kids at Heart charity. SoCal SETAC also participated in a "Toxicity for Educators" short course development and presentation as part of the 2003 Southern California Academy of Science meeting. Quarterly publication of the SoCal SETAC Newsletter continued through 2003 and the SoCal SETAC board of

Now for our plans for 2004! The 2004 SoCal SETAC annual meeting will be held on May 21st and May 22nd at the Point Loma Nazarene University in San Diego. The first day of the meeting will consist of two concurrent short courses, with the plenary and platform and poster sessions being held on the second day. Announcements have been made and the first official "call for papers" is included in this newsletter. The SoCal SETAC Board of Directors has approved a Sustainable Graduate Student Travel Award of \$500.00 to provide travel money to students submitting abstracts for the annual meeting. SoCal SETAC is also seeking corporate sponsors willing to provide additional assistance to student members wishing to attend our annual meeting. In addition, the Water Environment

**2004 SoCal SETAC Annual Meeting**  
May 21-22, San Diego, CA

**Forth SETAC World Congress**  
November 14-18, 2004, Portland, OR

Research Federation (WERF) has agreed to help sponsor one of our short courses (\$1000.00) which will be used to defray meeting expenses resulting reduced fees for all members. SoCal SETAC will continue to participate and provide awards in area-county science fairs in 2004 and the chapter has already organized and sponsored a general membership dinner meeting featuring a presentation by Dr. Ashok Mulchandani of UC Riverside examining the development of micro-analyzers and their application with the Department of Homeland Defense. We will continue distributing the newsletter quarterly and the Chapter web page will continue to be updated regularly in 2004.

Officer nominations and selections for the 2004/2005 terms were made at our last Board meeting (1/13/04). Dr. Arturo Keller (U.C. Santa Barbara) has been the Chapter treasurer for over 3 years now. He will be leaving on sabbatical in 2004 and in order to effect a smooth transition, his replacement, Carlita Barton (L.A. County Sanitation) will takeover the responsibilities immediately and continue as Treasurer through 2005/2006. Thank you Dr. Keller for all your hard work over the years and best wishes to Carlita in your new role as Treasurer. Karen Riveles will also be stepping down as Chapter Secretary. Karen has been the Chapter Secretary for many, many years (terms) and she has worked tirelessly to keep the membership records up to date as well as all the accounting for meeting registrations. She will be graduating in the spring and we will miss her on the board. Taking her place beginning on July 1, 2004 will be Cherulyn Seruto (U.C. Riverside). Thank you Cherulyn for volunteering. Steve Bay (SCCWRP) will be rotating off the Board in July 2004. Steve has served as Board member followed by the three-year term as Vice President, President, and currently Past President. As this year's Past President, he is primarily responsible for our organizing the 2004 annual meeting. Thank you for your work in the Chapter over the years and most recently for your work in putting together what promises to be a great 2004 annual meeting. Dr. Dan Schlenk (U.C. Riverside) has graciously volunteered to take on the three-year term of Vice President/President/and Past President beginning with Vice President on July 1, 2004. Lan Wiborg (City of San Diego) will be rotating to Chapter President and I will rotate to Past President. Jon Ball and Jeff Armstrong will continue on as Chapter web master and historian respectively.

There will be several Chapter Board Member positions vacated in 2004. These positions will be filled through nominations solicited from and eventually elected by the entire membership. The upcoming vacancies will include two student positions, two government/public positions, and one academic position. Anyone interested in serving should contact the Karen Riveles. A formal call for nominees is included in this newsletter.

In conclusion, several revisions were made to the SoCal SETAC Chapter Constitution and By-laws. These changes were made to conform to recently adopted SETAC NA requirements and have been submitted to SETAC NA for approval. Once approved by SETAC NA, the new Chapter Constitution and By-laws will be circulated to the entire membership for ratification. You should be receiving notification in the upcoming months. Thanks again to everyone for what was a great 2003 and what promises to be an even better 2004 and I hope to see everyone at the annual meeting in May.

## Membership Reminder

The membership term for SoCalSETAC is Jan. 1 through Dec. 31. Current member renewals made at the 2003 annual meeting have been applied to 2004 membership. Membership for new members who signed up at the 2003 annual meeting expired on Dec. 31, 2003. Please fill out a membership form (found both in this newsletter and on the website) so we can update your contact information. Send the form and your check (payable to SoCal SETAC) to:

Karen Riveles  
SoCal SETAC Secretary  
P.O. Box 655  
Riverside, CA. 92502

If you have any questions regarding your membership status, please email Karen at:

[karenriv@aol.com](mailto:karenriv@aol.com)

**SoCal SETAC**  
**January 2004 Dinner Meeting**

**“Lab on a Chip”**

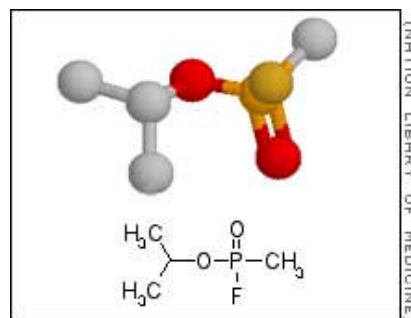
**Contributed by Jay Gan**

We would like to thank all of you who attended the SoCal SETAC Dinner Meeting on January 13, 2004 at the Marie Callender's restaurant in Tustin, CA. We had a good turnout of about 20 people.



*Dr. Ashok  
 Mulchandani,  
 Professor and  
 Chair, Department  
 of Chemical and  
 Environmental  
 Engineering,  
 University of  
 California Riverside*

The talk presented a summary of the up-to-date progress that Dr. Mulchandani and colleagues have made through a \$2.7 million research project supported by the Memorial Institute for Prevention of Terrorism. The objective of the project is to develop a portable detection device for quick detection of chemicals used by terrorists in explosives and chemical warfare agents. The approach being explored by Dr. Mulchandani and colleagues is based on the concept to miniaturize electrolysis separation and electrochemical detection into an “all-in-one” system that is no bigger than a shoe box. The electrolysis is carried out on a slide, and the detection is performed by micro-electrodes with or without sample preparation. Analysis may be completed within seconds after sample introduction. The prototype detector was tested for analysis of chemical ingredients found in common explosives as well as organophosphorus compounds found in toxins such as nerve gases. The three-year project runs through 2005, and is expected to produce a series of quick-response detectors that may find use in a wide range of anti-terrorism scenarios.



**Agent:** Sarin  
**Type:** Nerve agent

**Symptoms:**  
 Shortness of breath,  
 muscle spasm,  
 unconsciousness.

**Outcome:**  
 Death possible.

Source: International Institute for Strategic Studies

Dr. Mulchandani's presentation was well received and brought up a lot of very interesting questions from the audience. It made us all aware of the need for real-time detection and confirmation of toxic chemicals that may be potentially used in terrorism, and why thinking “small” can be big. For more details, please visit Dr. Mulchandani's website at [www.engr.ucr.edu/~adani/](http://www.engr.ucr.edu/~adani/).

## Joining SoCal SETAC Through SETAC North America?

*Some problems have come to our attention as a  
 result of joining or renewing SoCal SETAC  
 membership through SETA CNA.*

*If you joined or renewed your SoCal SETAC  
 membership through SETAC NA, please contact*

Karen Riveles  
 SoCal SETAC Secretary

[karenriv@aol.com](mailto:karenriv@aol.com)

## Meet the Board

*Brian Hester*

*MEC Analytical*



**H**owdy! My name is Brian Hester. I have been a member of SoCal SETAC for about three years and was elected as a private industry board member last year. I have also been involved with National SETAC for about four years.

I am a native southern Californian who grew up in the beautifully sunny and smoggy town of Riverside (no offense to those of you living there by choice). I grew up always having an interest in science. Like many other children, I wanted to be Jacques Cousteau when I grew up and swim with dolphins everyday. While some college grads still think they can make a career out of this “hobby”, I realized this was not a feasible option. This was mainly due to my tendency toward seasickness on open water.

My life, however, has always been tied to water. My older siblings were involved in water sports. My sister was a synchronized swimmer and my brother played water polo and swam competitively. It was in my blood to swim and play water polo once I got to high school. I continued to play water polo into my college career, however my studies soon became to overwhelming and I had to concentrate on my coursework. I must say, I was in the best physical shape of my life when I was swimming.

My college career took me far, far, away to the University of California.....Riverside! This included a two year stint at Chaffey Community College in Rancho Cucamonga. My studies focused on Environmental Science and Biology. I obtained my Bachelors of Science in Environmental Science in 1998. This was the “Natural Science” option that focused more on the sciences than the policy side of environmental studies. The environmental science department at UCR has grown a lot since I left. I wish Dr. Schlenk and others had been around in my day! I would have been convinced to continue my education there.

After graduation, I jumped right into my field by grabbing a job at Big 5 Sporting Goods. There I helped save the environment by stocking merchandise and selling shoes. After about a year, I figured I should try to move up in the world. I obtained my current job through a very convoluted process. My sister worked briefly at the Marine Pollution Studies Laboratory in Monterey conducting aquatic toxicity test when she was working on her graduate degree at Moss Landing Marine Labs. I actually visited her there when I was younger (13 or 14). Little did I know that I would actually end up in the toxicology field. Through a friend of a friend of a friend of my sister’s, I was put into contact with a gentleman who worked at MEC Analytical Systems, Inc in Carlsbad (northern San Diego County). The rest, as they say, is history.

I am currently the bioassay laboratory manager at MEC. Here I conduct and manage aquatic toxicity testing on both water and sediments. I started with MEC about five years ago as a lab tech and experiences as well as opportunities to take on more responsibility have led me to this point. The highlight of my career was conducting sediment core sampling in Pearl Harbor Hawaii.

My hobbies are long walks in the park, watching sunsets, and swimming with dolphins (just kidding). In my rare free time, I enjoy fishing. My favorite spots are the local lagoons and have recently started to enjoy surf fishing. I’ve started to dabble in cultivating bonsai plants. These two hobbies would indicate that I am a calm and patient person, but nothing is further from the truth. I’d like to say that I play guitar, however it is more like I have two guitars taking up space in my closet. Computer gaming takes up a lot of my free time, also. (Yes, I’m a nerd). Reading is also a favorite past-time of mine. I enjoy sci-fi, fantasy, and mystery novels the most, as well as anything relating to the science.

I have enjoyed my short appointment with SoCal SETAC and am looking forward to continued involvement. I’d like to thank Karen Riveles for her gentle nudge to become involved in SoCal SETAC as well as everyone else. I’m still working on meeting all those campaign promises I made, so be patient.



## CALENDAR OF EVENTS

Contributed by Daniel Schlenk

### March 2004 Meetings

**Society of Toxicology 43<sup>rd</sup> Annual Meeting** 21-25 March 2004, the Baltimore Convention Center, Baltimore Maryland, USA For further information, contact sothq@toxicology.org or call +1-703-438-3115.

**First Annual Meeting of the Asociación Mesoamericana de Ecotoxicología y Química Ambiental, A. C.** 22 - 26 March 2004, Jiutepec, Morelos, Mexico. For additional information, please contact Patricia Ramírez Romero, Asociación Mesoamericana de Ecotoxicología y Química Ambiental, A.C. Dinteles # 88, Col. Jardines del Sur. México, D.F. 16058. Tel. 5804-6493 Fax 5804-4738. email: patt@xanum.uam.mx

### April 2004 Meetings

**International Eco-Efficiency Conference, Eco-Efficiency for Sustainability: Quantified methods for decision-making.** 1-3 April 2004, Leiden, the Netherlands. Contact: Dr. Gjalp Huppel, Department Head, Industrial Ecology, CML-IE, Leiden University, PO Box 9518, NL-2300RA, Leiden, Netherlands (T +31 71 5277477; F +31 71 5277434). See also conference website: <http://www.eco-efficiency-conf.org/>.

**The role of high mountains in the global transport of POPs:** 5 - 7 April 2004 Milano University of Milano Bicocca

**One Environment - One Conference.** 19 - 22 April 2004, Wyndham Baltimore Inner Harbor Hotel, Baltimore, Maryland. Hosted by the The EPA National Compliance Assistance Providers Forum and the 19th Annual National Pollution Prevention Roundtable. The National Environmental Assistance Summit: An Alliance to Prevent Pollution, Achieve Compliance, and Innovate for Environmental Results. **IMPORTANT DATED INFORMATION:** February 14, 2004 - Early Registration Closes. Registration fees will increase from \$295 to \$375 after February 14, 2004. For complete information, please go to <http://www.p2.org/summit2004/>.

**29th Annual Meeting of The National Association of Environmental Professionals (NAEP).** 25 - 28 April 2004. Portland, Oregon. The theme is "Building Bridges in a Changing World". for more information check out our web site at [www.naep.org](http://www.naep.org) or contact Donna carter at [conference@naep.org](mailto:conference@naep.org).

### May 2004 Meetings

**So Cal SETAC Annual Meeting** 21 - 22 May 2004, Point Loma Nazarene University, San Diego, CA

**NorCal SETAC 14<sup>th</sup> Annual Meeting** May 11-12, 2004, University of California, Davis, CA

### June 2004 Meetings

**The Second Annual Meeting of the International Society for Stem Cell Research,** 10-13 June 2004, Boston Seaport Hotel, Boston Massachusetts. For more information visit [www.isscr.org/meetings/index.html](http://www.isscr.org/meetings/index.html)

### July 2004 Meetings

**10th International Congress of Toxicology** 11-15 July, 2004; Tampere, Finland

### August 2004 Meetings

**6th International Symposium on Sediment Quality Assessment (SQA6) "Watershed - sediment management, from source to sink"** Antwerp, Belgium, 17-20 August 2004. Any further information can be obtained from the conference secretariat: Magda Stalmans, University of Antwerp, Department of Biology, Research group Ecosystem management Universiteitsplein 1 B-2610 Antwerp-Wilrijk - Belgium. Tel. +32 (0)3 820 22 64 Fax. +32 (0)3 820 22 71. E-mail: [magda.stalmans@ua.ac.be](mailto:magda.stalmans@ua.ac.be). Website: <http://www.ua.ac.be/ecobe/>

**INTERNAL EXPOSURE - Linking Bioavailability to Effects Workshop.** Monte Verità, Switzerland, 22-27 August 2004. Organized by Beate Escher, EAWAG, Jopp Hermens, IRAS, and René Schwarzenbach, ETH/EAWAG. Deadline for preregistration: February 1, 2004. For more information, <http://www.eawag.ch/internal-exposure/>. Please send inquiries related to the conference to [internal-exposure@eawag.ch](mailto:internal-exposure@eawag.ch)

...continued on next page

**The 9th DCE/FECS Conference on Chemistry and the Environment (DCE9) "Behaviour of Chemicals in the Environment"**, Bordeaux, France, 29 August - 1 September. This meeting will be held in association with the 2nd SFC Meeting on Environmental Chemistry. Information about abstract submission, registration, booth reservation and more updated information at <http://www.lptc.u-bordeaux.fr/DCE9>



### San Diego County Science Fair

Balboa Park Activity Center  
2145 Park Blvd.  
San Diego 92101

Judging: Wed., 24 March 2004

Award Ceremony: Thurs., 25 March 2004

SoCal SETAC Contact: Brian Hester  
[hester@mecanalytical.com](mailto:hester@mecanalytical.com)

### Santa Barbara County Science Fair

S.B. County Education Office Auditorium  
4400 Cathedral Oaks Road, Santa Barbara

Judging: Sun., 2 April 2004, 2-4 PM, or  
(with student interviews), Mon. 5 April, 2004, 8-11 AM

Award Ceremony: Tue., 6 April 2004, 7-8 PM

SoCal SETAC Contact: Shelly Magier  
[shelly.magier@amec.com](mailto:shelly.magier@amec.com)

### Los Angeles County Science Fair

L.A. Convention Center

Fair Dates: April 13-15, 2004

SoCal SETAC Contact: Carlita Barton  
[cbarton@lacsds.org](mailto:cbarton@lacsds.org)



### Orange County Science Fair

Judging: Wed., 28 April 2004, 9 AM to 3PM

Award Ceremony: Sunday, 2 May 2004

SoCal SETAC Contact: Jeff Armstrong -  
[jarmstrong@ocsd.com](mailto:jarmstrong@ocsd.com)

### Riverside/San Bernardino County Science Fair

To be announced

SoCal SETAC Contact: Phil Markle  
[pmarkle@lacsds.org](mailto:pmarkle@lacsds.org)

### SPECIAL ANNOUNCEMENT:

Dr. Donald J. Reish, a long-time member of SoCal SETAC, will be honored at the Southern California Academy of Sciences meetings, May 14-15, 2004 at California State University at Long Beach. At the symposium on May 14<sup>th</sup>, Dr. Reish will be the plenary speaker and receive the first annual Wheeler North Memorial Award. Presentations at the symposium, *Ecology and Taxonomy of Marine Invertebrates: Honoring the Legacy of Donald J. Reish* will vary in content to reflect the broad range of research interests of Dr. Reish. Members of SoCal SETAC are encouraged to present and attend.

For information about registration please visit the SCAS website <http://scas.jsd.claremont.edu> and contact the one of the organizers, Rick Rowe, at [richard\\_rowe@msn.com](mailto:richard_rowe@msn.com) to get on the mailing list or for answers to your questions.



## SCIENCE FAIR UPDATE

Contributed by Phil Markle

SoCal SETAC will once again participate in area-county science fairs for 2004. In 2003 the chapter provided awards at the Los Angeles, San Diego, Santa Barbara, and Orange County science fairs as well as the Riverside District fair. In 2004 we hope to participate in at least as many fairs. The SoCal SETAC Special Award is presented to the best project dealing with or incorporating elements of environmental toxicology and/or environmental chemistry. The award will consist of \$50.00, one-year student membership in the chapter, and an invitation to the student, student's family and teacher to attend and be recognized at our annual meeting. SoCal SETAC will be providing our own judges for the award and many of our judges also help out with other judging. If possible, we would like a SoCal SETAC representative to present the award at the fair's award ceremony. Some fairs do not allow individual presentation and in other cases it will not be possible for a SoCal SETAC representative to be present. In these instances, the award can be given to fair organizers after judging to be distributed to the recipient.

We invite any and all members to help out with judging at these fairs. Below is a list of the fairs, dates, locations, and a SoCal SETAC contact of the fairs we currently have information on. Anyone with information on other fairs should please contact me ([pmarkle@lacsds.org](mailto:pmarkle@lacsds.org)). Anyone wishing to help out the below listed fairs should contact the SoCal SETAC representative listed so our efforts can be coordinated.

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- Method development research and application
- Product evaluation studies and registration support
- Stormwater monitoring and BMP evaluation
- Marine and freshwater sediment testing
- Risk assessment support
- Sediment collection, characterization, and permitting



*"Thank you for all of the cooperation and efforts you and your firm have extended to the department . . . it is a pleasure working with true professionals such as yourselves."*

John A. Perry, P.E.  
Director, Water Reclamation  
City of San Bernardino Municipal Water Department

**AMEC Northwest Bioassay Laboratory**  
5009 Pacific Highway East, Suite 2-0 • Fife, Washington 98424  
253 922 4296 • Fax 253 922 4296

**AMEC San Diego Bioassay Laboratory**  
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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 Lan Wiborg at [lwiborg@sandiego.gov](mailto:lwiborg@sandiego.gov) for inclusion in the next issue of SoCal SETAC News.

## SoCal SETAC Officers – Fiscal Year 2003-2004



POSITION	NAME & AFFILIATION	RESPONSIBILITIES
Past President	<b>Steve Bay</b> SCCWRP <a href="mailto:steveb@sccwrp.org">steveb@sccwrp.org</a>	Advisor/Stand-in for President and Vice-President Program Committee Chair for SoCal SETAC Annual Meeting
President	<b>Philip Markle</b> L.A. County Sanitation Districts <a href="mailto:pmarkle@lacsdsd.org">pmarkle@lacsdsd.org</a>	National SETAC Liaison Board Agenda & Action Items
Vice-President	<b>Lan Wiborg</b> City of San Diego <a href="mailto:LWiborg@sandiego.gov">LWiborg@sandiego.gov</a>	Newsletter Editor
Treasurer	<b>Arturo Keller</b> UC Santa Barbara <a href="mailto:Keller@bren.ucsb.edu">Keller@bren.ucsb.edu</a>	Maintain Chapter Finances/Non-profit status Meeting Finances & Contracts
Secretary	<b>Karen Riveles</b> UC Riverside <a href="mailto:karenriv@aol.com">karenriv@aol.com</a>	Membership Maintenance Recording board meeting minutes Election Coordinator
Webmasters	<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
Historian	<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</b> (2003-2005)	<b>Brian Hester</b> MEC Analytical <a href="mailto:hester@mecanalytical.com">hester@mecanalytical.com</a>	<b>Board Member</b> (2002-2004)	<b>Daniel Schlenk</b> UC Riverside <a href="mailto:daniel.schlenk@ucr.edu">daniel.schlenk@ucr.edu</a>
<b>Board Member</b> (2003-2005)	<b>Jan Gan</b> UC Riverside <a href="mailto:jgan@mail.ucr.edu">jgan@mail.ucr.edu</a>	<b>Board Member</b> (2002-2004)	<b>Carlita Barton</b> L.A. County Sanitation Districts <a href="mailto:cbarton@lacsdsd.org">cbarton@lacsdsd.org</a>
<b>Board Member</b> (2002-2004)	<b>Paul Krause</b> BBL Sciences <a href="mailto:pkrause@bbl-inc.com">pkrause@bbl-inc.com</a>	<b>Board Member</b> (2001-2004)	<b>Shelly Magier</b> AMEC Earth and Environmental <a href="mailto:shelly.magier@amec.com">shelly.magier@amec.com</a>
<b>Board Member</b> (2003-2005)	<b>Cherilyn Seruto</b> UC Riverside <a href="mailto:cseru001@student.ucr.edu">cseru001@student.ucr.edu</a>	<b>Board Member</b> (2002-2004)	<b>Jon Ball</b> City Of Los Angeles <a href="mailto:jball@san.lacity.org">jball@san.lacity.org</a>





## Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry



### Board of Directors Nomination Form

**SoCal SETAC is currently accepting nominations for positions on the Board of Directors from society members.**

Five Board of Director positions are open for the 2004 – 2006 term:

2	Student
2	Government/Public
1	Academic

**Please provide the following information:**

**NOMINEE** (Please Print):

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

**CATEGORY** (Check one):

- Academia (Professional)
- Private
- Public
- Student (Graduate/Undergraduate)

**NOMINATOR** (Please Print):

Name: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Please send nominations by post or email by **March 19th** to:

Karen Riveles  
 SoCal SETAC Secretary  
 P.O. Box 655  
 Riverside, CA 92502  
[Karenriv@aol.com](mailto:Karenriv@aol.com)



## Making Water Quality Objectives Work: Developing Site-Specific Objectives to Meet Local Needs



### Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

21-22 May 2004

Point Loma Nazarene University

San Diego, CA



SoCal SETAC's 2004 meeting will be held on May 21-22 (Fri. & Sat.) at a spectacular location, Point Loma Nazarene University. On San Diego's Point Loma Peninsula, Point Loma Nazarene University's 90-acre main campus overlooks the Pacific Ocean. The theme of this year's meeting is the development and application of site-specific objectives for protecting environmental quality. As TMDLs and other management actions are implemented to address water quality impairments in Southern California, the selection of objectives that are scientifically defensible and appropriate for local conditions becomes critical. The plenary session, platform session, and short courses will address various aspects of this issue.

Pre-registration for the meeting and short courses is April 9, 2004. Early registration for the short courses is advised due the high level of interest we have already received in response to the meeting program.

### Program Highlights

#### Short Courses (Friday May 21):

- (1) **An Introduction to the Biotic Ligand Model for Predicting Metal Toxicity**
- (2) **The Southern California Coastal Index of Biotic Integrity: A Tool for the Protection of Aquatic Life Beneficial Uses.**

#### Plenary (Saturday May 22): **Site-Specific Objectives: Science and Policy Considerations**

The plenary session will examine the rationale for developing site-specific objectives, describe approaches for developing the objectives, and discuss recent examples of the process.

*Please see the following pages of this announcement for information on the meeting schedule, short courses and instructions for registrations and submission of abstracts. Cash awards will be presented to the best student poster and platform presentation.*

**Pre-Registration and Abstract submission deadline is April 9, 2004**



## Program Summary



### Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

21-22 May 2004

Point Loma Nazarene University

San Diego, CA

#### Program Highlights

- Short Courses: (1) *“Predicting the Toxicity of Metals to Aquatic Organisms: An Introduction to the Biotic Ligand Model”*
- (2) *“The Southern California Coastal Index of Biotic Integrity: A Tool for the Protection of Aquatic Life Beneficial Uses”*

Plenary: **Site-Specific Water Quality Objectives: Science and Policy Considerations**

The plenary session will explore the need for and potential benefits of developing site-specific water quality objectives in southern California. Speakers will provide a local and national perspective on the process of developing water quality objectives, describe approaches for developing site-specific objectives for nutrients and toxics, and provide an update on recent projects to develop site-specific objectives in California.

#### Tentative Schedule of Events

Friday, May 21

0730-0900	Registration
0800-1700	Short Course – Biotic Ligand Model for Metal Toxicity Short Course – Southern California Coastal Index of Biotic Integrity
1800 -??	Evening social event (off-campus; details TBA)

Saturday, May 22

0800 - 1400	Registration
0900 – 0930	Welcome, Awards, and Board Presentations
0940 – 1200	Plenary Session
1200 – 1400	Poster Session Including: Lunch (no cost to meeting participants) Author Attended Poster Session Silent book auction
1400 – 1700	Platform Sessions Coastal Pollution Management and Toxicology Mechanisms of Toxicity Aquatic Toxicology Environmental Chemistry

**Pre-Registration and Abstract submission deadline is April 9, 2004**



## Short Courses



### Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

21-22 May 2004

Point Loma Nazarene University

San Diego, CA

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#### **Predicting the Toxicity of Metals to Aquatic Organisms: An Introduction to the Biotic Ligand Model**

Friday, May 21: 8:00 a.m. to 5:00 p.m.

Water quality criteria (WQC) for metals have been developed to protect the integrity of aquatic systems. However, tests used to develop WQC were performed in laboratory waters that often are not representative of natural waters. Water effect ratio (WER) tests account for the effects of substances that alter the toxicity of metals in natural waters, but this process can be costly and time-consuming. The biotic ligand model (BLM) is a computationally efficient alternative to conducting WER tests. The BLM may assist in developing technically defensible site-specific criteria, waste load allocations, and ecological risk assessments. The BLM is under review by regulatory agencies and is being considered for use in refining water quality criteria in the United States.

This course provides an introduction, background and rationale for the BLM, a description of its applications and case examples. The course will cover special considerations, data needs and data quality objectives, and model demonstrations. Demonstrations will be brief scenarios using hypothetical data sets and will cover model navigation, data input, and model outputs. Each attendee will receive a BLM report, a BLM model on CD, and a course notebook.

Instructors: **Paul Paquin**, HydroQual, Inc, Mahwah, NJ

**Bob Santore**, HydroQual, Inc, Mahwah, NJ

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#### **The Southern California Coastal Index of Biotic Integrity: A Tool for the Protection of Aquatic Life Beneficial Uses**

Friday, May 21: 8:00 a.m. to 5:00 p.m.

Analysis of the condition of the biological community in a waterbody provides a measure of the impacts of pollution and is increasingly becoming a requirement for NPDES monitoring programs. This short course will examine the development and use of biological assessment techniques and biological criteria using benthic macroinvertebrates to evaluate and protect the health of rivers and streams of southern California. The Southern California Coastal Index of Biotic Integrity (SCCIBI) is a powerful diagnostic tool for assessing aquatic ecological health. The development of biological criteria has been identified as a high priority by the San Diego Regional Water Quality Control Board for the next triennial review. The course will describe the development and structure of the SCCIBI and how regulatory agencies, municipalities, and citizen groups in southern California are using the index and preparing for the planned development and adoption of narrative biological criteria.

Instructor: **Dave Gibson**, San Diego Regional Water Quality Control Board, San Diego, CA

**Cost and location:** *The pre-registration fee for either course is \$50 for SoCal SETAC members, \$70 for nonmembers, and \$25 for student SETAC members. On site registration fees will be higher. The registration fee includes lunch. Each course will be held on the Pt. Loma Nazarene University campus. Directions to the classroom will be provided upon receipt of the registration fee.*

**To register:** *Complete the meeting/short course registration form included with this announcement and return it with the appropriate fee to SoCal SETAC at P.O. Box 655, Riverside, CA 92502. Late registration will be permitted on the day of the short course, space permitting.*





## Instructions for Abstract Submission



### Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

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San Diego, CA

### Example of correct abstract format

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

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

**Effects Based Evaluation of Toxicity Test Data Using Probability Distributions.**

Joe Gully, Rodger. Baird, Phil Markle\*, and Jay. Bottomley, County Sanitation Districts of Los Angeles County, Whittier, CA. A methodology is proposed which incorporates the intra- and inter-test variability and the biological effect of toxicity test data in evaluating the ...

The abstract deadline is April 9th, 2004, 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. Use 10 pt. Times Roman font for all text. At the top of the file, provide the name, address, phone, FAX, and email 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 (first name first, then the last name) 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 is shown above. Abstracts must be submitted as e-mail attachments as a Windows-based WordPerfect (\*.wpd) or Microsoft Word (\*.doc) file.

Send abstracts to Carlita Barton at: [cbarton@lacsds.org](mailto:cbarton@lacsds.org)

The presenting author will be notified of acceptance status within two weeks of receipt.

**Pre-Registration and Abstract submission deadline is April 9, 2004**



## Meeting Registration



### Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

21-22 May 2004

Point Loma Nazarene University

San Diego, CA

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>Email:</b>	

#### Application for Membership

 Membership Renewal                       Already paid 2004 membership (skip to registration section)

 New member                                       Non-member (skip to registration section)

#### Category of Employer (check one)

 Government                       Industry/Business                       Academic  
 Student                                       Consultant                                       Other \_\_\_\_\_

**Membership Category** (Annual membership covers January 1<sup>st</sup> – December 31. Dues paid prior to September 1 will apply only to the current membership cycle)

 Active\* (\$20/yr)                       Regional (\$20/yr)                       Student (\$10/yr)                      **Membership Dues** \$ \_\_\_\_\_

\*Active members must also be members of National SETAC (requires separate dues payment)

#### Short Course and Meeting Registration

Short Courses		Active/Regular Member	Student Member <sup>1</sup>	Non-member <sup>2</sup>	
<b>Friday, 21 May 2004</b>	Predicting the Toxicity of Metals to Aquatic Organisms (8:00 a.m.-5:00 p.m.)	Pre-reg by 4/9/04	\$50	\$25	\$70
		Onsite after 4/9/04	\$70	\$35	\$90 \$ _____
<b>Annual Meeting</b>	<b>Saturday, 22 May 2004</b>	Active/Regular Member	Student Member <sup>1</sup>	Non-member <sup>2</sup>	
		Pre-registration by 4/9/04	Onsite registration after 4/9/04		
		\$40	\$20	\$60	
		\$60	\$30	\$80	\$ _____

All registration fees include lunch

**PAYMENT TOTAL** \$ \_\_\_\_\_

- Students that pre-register for the meeting will receive a free 1-year membership in SoCal SETAC thanks to our corporate sponsors. Members of the Water Environment Research Federation may also register at the student rate thanks to the support of WERF.
- You may register as a member if payment of 2004 membership dues are included with this form.

Mail this form and payment to:  
(Check or money order only)

Karen Riveles, SoCal SETAC Secretary, P.O. Box 655, Riverside, CA 92502.  
(Payable to "SoCal SETAC")

Cash, checks, and money orders will be accepted during onsite registration (no Purchase Orders or credit cards).

**Requests for refunds (minus \$25 processing fee) must be submitted in writing before April 21.**



# Graduate Student Travel Award



## Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

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Point Loma Nazarene University

San Diego, CA

ONE COPY OF YOUR SOCAL SETAC ABSTRACT FOR YOUR PLATFORM OR POSTER PRESENTATION MUST BE RECEIVED WITH THE COMPLETED APPLICATION. YOU MUST BE FIRST AUTHOR AND THE PRESENTER OF THE PLATFORM OR POSTER PRESENTATION.

COMPLETE AND RETURN THIS FORM, ONE COPY OF YOUR ABSTRACT, AND A LETTER OF RECOMMENDATION FROM YOUR FACULTY ADVISOR BY **APRIL 9, 2004** TO:

KAREN Riv@AOL.COM

OR

KAREN RIVELES, SOCAL SETAC SECRETARY, P.O. BOX 655, RIVERSIDE, CA 92502

NAME OF STUDENT: \_\_\_\_\_

CURRENT MAILING ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE NUMBER: (     ) \_\_\_\_\_ - \_\_\_\_\_

\*EMAIL ADDRESS: (**REQUIRED**): \_\_\_\_\_

WHAT YEAR DID YOU BECOME A STUDENT MEMBER OF SOCAL SETAC? \_\_\_\_\_

IF NOT A STUDENT MEMBER, HAVE YOU APPLIED FOR MEMBERSHIP? \_\_\_\_\_

(IF YOU ARE NOT A MEMBER OR HAVE NOT APPLIED FOR MEMBERSHIP BY APPLICATION DEADLINE, YOU ARE NOT ELIGIBLE FOR AN AWARD.)

UNIVERSITY / DEPARTMENT: \_\_\_\_\_

DEGREE IN PROGRESS: \_\_\_\_\_

NAME OF FACULTY ADVISOR: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

### PLEASE ESTIMATE YOUR EXPENSES.

ACCOMMODATION: \_\_\_\_\_

REGISTRATION: \_\_\_\_\_

TRAVEL: \_\_\_\_\_

TOTAL:



## Accommodation



### Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry 2004 Annual Meeting

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FOR YOUR CONVENIENCE, SOCAL SETAC HAS PREPARED A LIST OF HOTELS/MOTELS WITHIN EASY DRIVING DISTANCE OF POINT LOMA NAZARENE UNIVERSITY. SOCAL SETAC DOES NOT ENDORSE ANY OF THE ESTABLISHMENTS AND DOES NOT ASSUME ANY RESPONSIBILITY FOR LODGING ARRANGEMENT.

WE RECOMMEND MAKING ALL RESERVATIONS NO LATER THAN 31 MARCH 2004, SINCE THE POINT LOMA AREA IS VERY POPULAR WITH VISITORS YEAR-ROUND.

(IN ALPHABETICAL ORDER)

#### **BEST WESTERN AT THE YACHT HARBOR**

5005 N HARBOR DR  
SAN DIEGO, CA 92106  
(619) 224-3254

#### **CABRILLO MOTOR LODGE**

1150 ROSECRANS ST  
SAN DIEGO, CA 92106  
(619) 223-5544

#### **COMFORT INN**

5102 N. HARBOR DRIVE  
SAN DIEGO, CA 92106  
(619) 223-8171

[WWW.COMFORTINNATTHEHARBOR.COM](http://WWW.COMFORTINNATTHEHARBOR.COM)

#### **DAYS INN SUITES - SAN DIEGO**

3350 ROSECRANS ST.  
SAN DIEGO, CA 92110  
(619) 224-9800

[WWW.PACIFICAHOST.COM](http://WWW.PACIFICAHOST.COM)

#### **HOLIDAY INN – SAN DIEGO BAYSIDE**

4875 N. HARBOR DRIVE  
SAN DIEGO, CA 92106-2394  
(619) 224-3621

[WWW.HOLINNBAYSIDE.COM](http://WWW.HOLINNBAYSIDE.COM)

#### **HUMPHREY'S HALF MOON INN & SUITES**

2303 SHELTER ISLAND DR  
SAN DIEGO, CA 92106  
(619) 224-3411

#### **POINT LOMA INN**

2933 FENELON ST  
SAN DIEGO, CA 92106  
(619)222-4704

#### **QUALITY INN AIRPORT SEA WORLD AREA**

2901 NIMITZ BLVD  
SAN DIEGO, CA 92106  
(619) 224-3655

#### **RAMADA LIMITED**

1403 ROSECRANS STREET  
SAN DIEGO, CA 92106  
(619) 225-9461

[WWW.THE.RAMADA.COM/SANDIEGO](http://WWW.THE.RAMADA.COM/SANDIEGO)

#### **VAGABOND INN**

1325 SCOTT STREET  
SAN DIEGO, CA 92106  
(619) 223-0646

[WWW.VAGABONDINN.COM](http://WWW.VAGABONDINN.COM)