



# SoCal SETAC NEWS



Society of Environmental Toxicology and Chemistry  
Southern California Chapter

Volume 10, Issue 4

[www.socalsetac.org](http://www.socalsetac.org)

December 2003

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



**PHILIP MARKLE**

### **SOCAL SETAC PRESIDENT**

The end of the 2003 year is approaching fast and soon we will all be busy with holiday planning, finals, and end of the year reports. The November SETAC North America annual conference always seems like the “unofficial” end of the year kick off for me. As I discussed in the last newsletter, the state of the chapter is very strong with membership and finances at an all time high. This has allowed our chapter to provide cash awards at area science fairs and provide some limited funding for scientists and students from the Centro de Investigaciones Biológicas del Noroeste, S.C. (CIBNOR), La Paz, Mexico to attend and present at the 2003 annual meeting in Santa Barbara. We are also committed to continuing to provide high level meeting presentations while keeping registration and short course fees down, particularly as it pertains to students. SoCal SETAC activities planned for the 2004 year include continued participation in countywide high school science fairs, two dinner meetings, and of course our annual meeting complete with short courses, a plenary and a day of concurrent poster and platform presentations. Discussions regarding the annual 2004 SoCal SETAC meeting were conducted at the October 14th Board meeting and finalized through e-mails and at the November 12th Board meeting in Austin TX. The date and location for our 2004 annual meeting has been finalized for May 20-21, 2004 at Point Loma Nazarene University, 3900 Lomaland Drive, San Diego,

CA 92106-2899. We hope to be able to provide short courses on bioassessment and the use of biotic ligand models. Individual Board members are working on specific details regarding these short course offerings as well as plenary speakers and a social program. Updated information will be provided when finalized and forwarded to members and posted on our website ([www.socalsetac.org](http://www.socalsetac.org)).

In 2003 SoCal SETAC contributed to many countywide science fairs by providing cash awards and participating as judges. We hope to expand our involvement in 2004 to also include Riverside and San Bernardino County fairs as well as the L.A., Orange, San Diego, Santa Barbara, and Ventura County fairs. We will be seeking volunteer judges from members once we get closer to the fair dates (they are typically scheduled for early spring). Any member with information regarding the Riverside/San Bernardino County science fairs or any other area county science fair is encouraged to please contact me so we can organize SoCal SETAC participation.

The periodic dinner meetings along with our annual chapter meeting have always been well-attended events that provide an important opportunity for the Board and members to interact and discuss chapter issues and direction as a group. We are planning for at least two dinner meetings in 2004. The first of which will be on Tuesday, January 13, 2004 and will feature a presentation by Dr. Ashok Mulchandani (UC Riverside) examining the development of micro-analyzers and their application with the Department of Homeland Defense. This meeting will be held at Marie Callender's at 15363 Culver Drive, Irvine with a social hour from 4:30 to 5:30 followed by dinner and Dr. Mulchandani's presentation. The early registration deadline is the first week of January and this would also be an opportune time to renew your SoCal SETAC membership if you haven't already. An announcement, reservation form, and membership renewal form is included in this newsletter and posted on the website.

2004 promises to be another eventful year for SoCal SETAC and I hope to see many of you at our January Dinner Meeting. The entire membership is also invited to the Board meeting prior to the January Dinner Meeting taking place from noon until 4:30 on January 13, 2004 at the same Marie Callender's Restaurant. I wish everyone joyous holidays and a happy New Year!



## SETAC North America Annual Meeting Summary

Contributed by Philip Markle

The 24th Annual SETAC North America Meeting was held on November 9 through 13, 2003 at the Austin Convention Center in Austin, Texas. As in years past, this meeting once again provided a wide range of short courses (15 in all!) ranging from aquatic toxicity testing for the educator and layperson to analysis of fluorine-containing compounds. In addition to the short courses,



www.teachingtools.com

the meeting also offered over 150 concurrent platform presentations and over 200 poster presentations daily Monday through Thursday. The meeting also provided forums for the SoCal SETAC Board and Chapter members to meet with and interact with representatives from other regional chapters throughout

North America and beyond and SETAC NA representatives. SoCal SETAC Vice President Lan Wiborg and I attended several SETAC NA committee meetings held in conjunction with the conference. Several items discussed at the Regional Chapters Committee meeting had a direct impact on our Chapter. First, any changes to chapter constitution or by-law will need to be approved by SETAC NA.

Another topic discussed included requirements that the chapter president and vice president be SETAC NA members. As many of you may be aware, membership in SETAC NA is not a requirement to be a member of SoCal SETAC. However, the chapter president and vice president are required to serve on the SETAC NA Regional Chapters Committee. Service on any SETAC NA committee requires membership in SETAC NA. For this reason, we will need to change our by-laws to specifically require SETAC NA membership for individuals holding the SoCal SETAC President and Vice President positions (and then submit these changes to SETAC NA for approval). This requirement will not be extended to any other SoCal SETAC Board or Officer positions.

**SoCal SETAC Dinner Meeting**  
January 14, 2004, Irvine, CA

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



Photo courtesy of Joe Gully

### At the regional chapter booth

(clockwise from top left: Jay Bottomly, Lan Wiborg, John Rudolf, Howard Bailey, Joe Gully, Philip Markle, Marilyn Schwartz)

SETAC NA will once again provide limited funding for chapter sponsored short courses. The deadline to request



www.animalcontrolproducts.com

this funding will be February 2, 2004. The SoCal SETAC Board will make every attempt to submit a request for funding proposal for our 2004 short courses. SETAC NA has also expressed a desire to assist in the formation of regional

groups/panels to address specific and unique concerns relevant on a regional level (similar to a "mini-Pellston"). SETAC NA representatives including Rod Parrish explained that this would be a chapter activity and that they were not entirely sure what form SETAC NA "assistance" would take. Several potential regionally relevant panel topics come to my mind including workshops regarding revisions to the State Implementation Plan (SIP) and Bight '03.

Lan Wiborg and I also attended the SETAC NA Education Committee meeting. A desire from the committee was the possible offering a version of the "Aquatic Toxicity Testing for the Educator and Layperson" course at our annual meeting. This course has benefited both K-12 educators as well as various volunteer groups. SoCal SETAC members participated in a similar course at the 2003 Southern California Academy of Sciences Meeting. With the expertise available within our membership, Lan and I believe that a similar course could be offered as part of our education

outreach program with very little expense from the Chapter. We should get more information at an upcoming conference call.



Photo courtesy of Joe Gully

### Dick Dale: Guitar Legend

A brief chapter meeting was also held on November 11 and was attended by at least six current board/officer members as well as several past board members and members at large including Dr. Susan Gardener of the Centro de Investigaciones Biológicas del Noroeste, S.C. (CIBNOR), La Paz, Mexico expressing interest among researchers and students at the CIBNOR in continuing to present at our annual meeting. Details regarding the location and time for the 2004 annual meeting were finalized.



Photo courtesy of Joe Gully

### Texas Capitol

*The Governor's mansion has been home to Texas governors since 1856. The capitol was constructed from 1885 to 1888.*

Various individuals are working on development of the plenary as well as several short courses. It was also decided that SoCal SETAC will try to host or co-host both part 1 and 2 of the Professional Level California State Bioassessment Procedure course through the

Sustainable Land Stewardship Institute (SLSI). Part 1 will most likely be prior to the annual meeting with part 2 being offered near or after the annual meeting. The bioassessment methods taught as part of this training are just now being incorporated into permits in the southern California area and will include sampling, habitat assessments, and taxonomy.



Photo courtesy of Joe Gully

### Bats in Austin?

*One of the most amazing sights in Austin takes place every evening from March to early November, when 1.5 million Mexican free-tailed bats emerge from their roosts under the Congress Avenue Bridge.*

## Membership Reminder

The membership term for SoCal SETAC 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 will expire 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 Chronicle

*...will return in the next issue*

### Meet the Board

*Jay Gan*

*UC Riverside*

*Department of Environmental Science*



Well, to start with, unlike many other board members, I cannot claim myself as a California native. When I saw a beach for the first time, eh, I was about twenty. The beach I saw is on the other side of the Pacific Ocean. I grew up near Shanghai, China. My friends and colleagues call me “Jay”, but my real first name

“Jianying” is a mouthful. Whenever someone asks for “Jianying” on the phone, I know right away that it is telemarketer! That works as a caller ID for my family.

Looking back, I feel that I was fortunate to be born at the right time. As you may be aware, universities in China were closed for many years and only until 1977 were they reopened. Afraid of being left out, I got into college in a hurry, and did so at the age of 15, a year before finishing high school. If I were born a couple of years sooner, I would have surely missed college. What a scary thought! I majored in Agronomy for my undergraduate study, and went on to study Environmental Chemistry for my Masters and Ph.D. My Ph.D. dissertation was on fate and bioaccumulation of carbamate insecticides in rice paddy – fish microcosms.

At the beginning of 1990, I received a one-year fellowship through a United Nations program and went to Vienna, Austria. That marked the beginning of my world-hopping adventure that eventually landed me in southern California. I thought I was well prepared for Austria, as I had one year worth of German classes under my belt. Well, it turned out that Austrians speak a different German dialect, so I pretty much kept my German at where it should be - under the belt. I got by using English at work. I loved Vienna, especially its museums, gardens and of course, beers. I also liked my work. Every morning I rode a bus filled with people from twenty other countries through beautiful little villages to Seibersdorf -

where the International Atomic Energy Agency’s (IAEA) laboratory is. Well, what does IAEA, the UN’s nuclear weapons agency, have anything to do with my research? Well, IAEA promotes peaceful use of nuclear techniques, and in my research I use 14C-labelled compounds! I continued my research on bioaccumulation of pesticides by plants and aquatic organisms, by using 14C-labelled compounds, of course.

After realizing that I could not get beyond “Ich bin...”, I jumped on an offer from University of Minnesota to be a postdoctoral researcher. I joined U of M’s Department of Soil, Water, and Climate in St. Paul, Minnesota, in the late summer of 1991. My supervisor was Dr. William Koskinen, a USDA scientist well known for studying pesticide partition between soil and water. Not long after my arrival, I was greeted with a record-shattering snowstorm that happened over the Halloween night. About sixty inches of snow fell in one day. Cars were buried, schools were closed, all noises disappeared, the world seemed to come to a stand-still ..., but, man, it was beautiful! It was also quite entertaining to watch my neighbors trying to dig out their cars. That was also the year when Minnesota Twins won the World Championship. A couple of guys in my group were eager to convert me into a Twins fan. Although knowing nothing about baseball, it didn’t take me long at all to become a Twins follower. The loyalty has continued till today. I was put to a test when the Twins were matched up against the Angels in last year’s playoffs. Sorry, guys, you must say that the Angels got lucky that one time.... One thing that is great about this country is everyone speaks a second language, and that language is sports. It also happens to be a language that takes no brain to master. So, like millions of others, my hobby is being an arm-chair athlete, often having to fight for my TV rights at home with my two little kids.

They say that Minnesotans have two seasons: winter and waiting for winter. While the fresh snow looks absolutely heavenly in November and December, driving or walking through the brownish and darkish slush in February and March can become very depressing. When I moved to Riverside to take another postdoctoral position in early 1993, I was truly overjoyed. In Riverside, I worked at the U.S. Salinity Laboratory, first as a postdoc and then as a Research Professor, while unwaveringly pursuing my research zest in pesticides. After eight long years, I made yet another career move by joining UC Riverside as a faculty, and the move was literally across the street! Currently I am an Associate Professor and a Water Quality Specialist at UCR, running a program with emphasis on water quality issues related to pesticide contamination. With all these moves, you may say that I am a true believer of an old Chinese saying, which goes “trees die with move, but people always prosper with move” (or something like that). I always feel that my interactions with different groups of people have given me a broader view about many things, and that is partly why you see this chemist at SETAC meetings.

I have always been going to American Chemical Society (ACS) and American Society of Agronomy (ASA) meetings. When SoCal SETAC held its 2001 meeting in Riverside, I was attracted to the meeting because of the short course on TIE. In the same year I attended the national SETAC meeting. In Salt Lake City I went to numerous talks and at the end I still felt that I had missed some important ones. It was probably the best professional meeting I have ever attended. I was in Austin again, and have also submitted abstracts for the SETAC Europe meeting next year. I am hooked! To be honest, as a chemist I still feel like a fish out of water at SETAC meetings, but I have sensed that the Society can use some more chemistry and I can surely use some ecotoxicology. I am very proud to be part of SoCal SETAC, and will look forward to working with you for a more visible and productive SETAC chapter.

## Joining SoCal SETAC Through National SETAC?

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

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

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

## CALENDAR OF EVENTS

*Contributed by Lan Wiborg*

### December 2003 Meetings

**Joint SETAC Europe and ISIE meeting. 11th LCA Case Studies Symposium. 2003 European Meeting of the International Society for Industrial Ecology. 21st Swiss LCA Discussion Forum.** 3-4 December 2003, Lausanne, Switzerland "Environmental Assessment in the Information Society"

### January 2004 Meetings

**AAPS39th Annual Pharmaceutical Technologies Conference**, 25-30 January 2004, Harriman, New York "Quality by Design in Pharmaceutical Development and Manufacturing: Principles, Applications and Scientific Risk-Based Regulatory Decisions". For more information Contact: Jim Greif; Tel: (703) 248-4744 or Email: [greifj@aaps.org](mailto:greifj@aaps.org)

### February 2004 Meetings

**CBDA Science Program Contaminants Workshop** February 4-5, 2004, Sacramento, CA

**4th International Early Toxicity Screening Conference**, February 23-25, 2004, San Diego Marriott Mission Valley, San Diego, CA, USA. Contact: Nola Mahaney; Phone: (410) 869-9560; Web site: [www.isciencex.com](http://www.isciencex.com).

### March 2004 Meetings

**Society of Toxicology 43<sup>rd</sup> Annual Meeting** 21-25 March 2004, Baltimore, MD "Environmental Science Solutions: A Pan-European Perspective"

### April 2004 Meetings

**29th Annual Meeting of The National Association of Environmental Professionals (NAEP).** 25 - 28 April 2004, Portland, Oregon. "Building Bridges in a Changing World".

### 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

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*"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

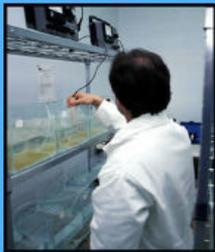
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**FREE** Generic Job Announcements and **INEXPENSIVE** Commercial Advertisements/ Announcements are being accepted for future issues of SoCal SETAC News

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>Chris Stransky</b> AMEC Earth and Environmental <a href="mailto:chris.stransky@amec.com">chris.stransky@amec.com</a>  <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

Board Member (2003-2005)	<b>Brian Hester</b> MEC Analytical <a href="mailto:hester@mecanalytical.com">hester@mecanalytical.com</a>	Board Member (2002-2004)	<b>Daniel Schlenk</b> UC Riverside <a href="mailto:daniel.schlenk@ucr.edu">daniel.schlenk@ucr.edu</a>
Board Member (2003-2005)	<b>Jan Gan</b> UC Riverside <a href="mailto:jgan@mail.ucr.edu">jgan@mail.ucr.edu</a>	Board Member (2002-2004)	<b>Carlita Barton</b> University of San Francisco <a href="mailto:cmatias@lacsdsd.org">cmatias@lacsdsd.org</a>
Board Member (2002-2004)	<b>Paul Krause</b> BBL Sciences <a href="mailto:pkrause@bbl-inc.com">pkrause@bbl-inc.com</a>	Board Member (2001-2004)	<b>Shelly Magier</b> UC Santa Barbara <a href="mailto:smagier@bren.ucsb.edu">smagier@bren.ucsb.edu</a>
Board Member (2003-2005)	<b>Cherulyn Seruto</b> UC Riverside <a href="mailto:cseru001@student.ucr.edu">cseru001@student.ucr.edu</a>	Board Member (2002-2004)	<b>Jon Ball</b> City Of Los Angeles <a href="mailto:jball@san.lacity.org">jball@san.lacity.org</a>



**SOCIETY OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY  
Southern California Regional Chapter  
2003-2004 APPLICATION FOR MEMBERSHIP**



Please send application and payment (checks payable to Southern California SETAC) to SoCal SETAC, c/o Karen Riveles, P.O. Box 655, Riverside, CA. 92502. Please do not send cash.

Name \_\_\_\_\_ Affiliation \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Phone No.: \_\_\_\_\_ FAX No.: \_\_\_\_\_ E-Mail\* \_\_\_\_\_

\*E-Mail address required to receive newsletter.

**Category of Employer: (Please check one that applies)**

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 Student \_\_\_\_\_ Consultant \_\_\_\_\_ Other \_\_\_\_\_

**Technical Background: (Please check one that applies)**

Atmospheric Science \_\_\_\_\_ Engineering \_\_\_\_\_  
 Biology \_\_\_\_\_ Health Science \_\_\_\_\_  
 Chemistry \_\_\_\_\_ Toxicology \_\_\_\_\_  
 Earth Science \_\_\_\_\_  
 Ecology \_\_\_\_\_ Other \_\_\_\_\_

**Degree(s) earned:** \_\_\_ B.A./B.S. \_\_\_ M.A./M.S. \_\_\_ Ph.D. \_\_\_ P.E. \_\_\_ Other \_\_\_\_\_

**Class of Membership for which you are applying: (Please check only one)\***

Annual membership covers January 1<sup>st</sup> - December 31<sup>st</sup>. Dues paid prior to September 1<sup>st</sup> will apply only to the current membership cycle.

_____	Active Member	\$20.00 per year
_____	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 National SETAC. **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.

Please check here if you would prefer not to be included in the membership directory \_\_\_\_\_



# Southern California SETAC

Invites You to Attend

A Dinner/Speaker Meeting Entitled

## “Lab on a Chip”

Development of Micro Analyzers for the  
Department of Homeland Security



Presented by

### Ashok Mulchandani, PhD

Professor and Chair of the Department of  
Chemical and Environmental Engineering,  
U.C., Riverside and Editor-in-Chief of “Applied Biochemistry  
and Biotechnology”

January 13, 2004 - 5:00 pm

Marie Callender’s Restaurant,

15363 Culver Drive

Irvine, CA 92604

### Registration Form (Detach and Include with Payment)

Southern California SETAC Dinner Meeting – Jan 13, 2004 – 5:00 pm

“Lab on a Chip” Presented by Ashok Mulchandani

<i>Name:</i>		<b>Registration Information (Circle One)</b>		
<i>Company/ Institution:</i>		<i>Membership Status</i>	<i>Received before 01/05</i>	<i>On Site</i>
<i>Address:</i>		<i>SoCal SETAC Member</i>	\$ 25	\$ 30
<i>Phone/ Fax:</i>		<i>Non-Member (Includes membership)</i>	\$ 45	\$ 50
<i>E-Mail:</i>		<i>SoCal SETAC Student Member</i>	\$ 15	\$20
		<i>Non-Member - Student (Includes student membership)</i>	\$ 25	\$30
<b>Meal Selection (Circle One)</b> All meals include salad, bread, dessert and soft drinks, tea, and coffee		Send Check or Money Order Made Out to <b>SoCal SETAC</b> to:		
Pasta Sampler (vegetarian)		<i>Karen Riveles</i>		
Artichoke Mushroom Chicken		SoCal SETAC Secretary		
Teriyaki Mushroom Top Sirloin		<b>PO Box 655</b> <b>Riverside, CA 92502</b>		



## 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



Mark your calendar to participate in SoCal SETAC's 2004 Annual Meeting. The 2004 meeting will be held on May 21-22 (Fri. & Sat.) at a spectacular location, Pt. 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.

### Program Highlights

#### Short Courses:

- (1) Theory and application of the Biotic Ligand Model for trace metal toxicity
- (2) Introduction to stream bioassessment

#### Plenary: 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.

#### Poster Social (includes lunch)

#### Platform sessions on a variety of environmental issues including:

- Coastal Pollution Management
- Aquatic Toxicology
- Environmental Chemistry

**Registration and Abstract submission information will be available in early 2004**