



# SoCal SETAC NEWS



Society of Environmental Toxicology and Chemistry  
Southern California Chapter

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

**KEN SCHIFF**

**SO CAL SETAC PRESIDENT**

Greetings All!

The southern California Chapter has been keeping busy. We held our fall Dinner meeting Oct 3rd. See Kat Prickett's column for more details, but it was definitely worth the price of admission. Don't underestimate what a strong draw our membership is for scientists and managers alike. In this case, our dinner speaker was Peter Kozelka, the TMDL Division Head from US EPA Region IX, who flew in from San Francisco for our Chapter meeting. I was proud of our membership turnout and the quality of the interactions. PK thanked me later for the opportunity to address the group.

SETAC North America is coming November 11-15. SoCal SETAC is always well represented at the Annual Meeting and I'm looking forward to seeing many of you

in Milwaukee. We have a Chapter meeting on Monday, November 12th. Please see the column on the SETAC North America Meeting to find out about all of the Chapter activities.

The SoCal SETAC Board is busy planning future activities. Here's a list of things we're working on.

- A 10-year Anniversary party! Yes, our chapter has been around a decade and we thought it would be a good time to celebrate. Look for more information after the New Year, but from what I hear so far – its gonna be a blast!
- A grant program for students in the fields of chemistry or toxicology. We are looking for ways to get more students interested in the field of chemistry and/or toxicology and a sustaining grant seemed like the perfect answer. Expect something on this by spring.
- Our Regional Chapter Annual Meeting. We are looking at an early May timeframe with an ocean view. With Jeff in charge, you know it's gonna be a rager.

Finally, I'd like to thank Pavlova Vitale, who has volunteered to be our Chapter Webmaster and photographer. We appreciate all of the effort that she, Jon Ball (our previous webmaster), and all the other volunteers bring to the organization. We couldn't do it without each and every one of you.

See you in Milwaukee!



## **Meet the Board**

**Chris Osuch**

Hello, my name is Chris Osuch. I am a middle child with an older brother and younger sister. I grew up in Pacific Beach, San Diego. Most of my free time revolved around the water, whether it was my parent's pool or the ocean. My brother, who is two years older

than me loved to fish. He got me hooked at a young age and today it is still one of my favorite past times. I attended college at UCSB, where I majored in Environmental Studies. I enjoyed the classes, especially the field trips to the Channel Islands. While living in Santa Barbara, I learned to SCUBA dive.

About the same time I started college, I went to Baja for the first time. My brother, cousin and I took a fishing trip to the Sea of Cortez. We spent about a week camping on the beach, fishing, and snorkeling. It soon became a yearly tradition. We traveled to new spots including destinations on the Pacific side. We brought bigger and better toys down there including: kayaks, a three wheeler, various small boats, spear guns, and SCUBA gear. Going to Baja is always an adventure and you never know what it will bring. I have been caught in storms, tried to save a sinking boat, been robbed, and lost several tires on washboard roads. On the upside, I've caught amazing fish including yellowtail, dorado, striped marlin, sailfish, sierra, corvina, grouper, and cabrilla. I have caught Humboldt squid off of a kayak in the middle of the night. I have also seen cave paintings in the middle of the desert. Baja still remains one of my favorite places on earth. There is nothing like it.

In my final year of college I went to Thailand for a three month program that focused on the management of national parks and the diverse ecosystems of Thailand. I traveled throughout the entire country, never staying more than two weeks at one destination. The wildlife was amazing. I saw gibbons, monkeys, giant hornbills, various reptiles, etc. The SCUBA diving was great. The food was great. The beaches were great. Thailand is an amazing place! I did a lot of camping, a trek through northern Thailand, and conducted an independent study on sea turtles, which brought me to Malaysia for a couple weeks.

After college, I moved back to San Diego where I briefly worked at Hubbs-Sea World Research Institute sampling for white seabass to help evaluate the population stability in the San Diego area and the success of white seabass hatchery. After a summer at Hubbs, I got a job with Weston Solutions.

I have been working in the Applied Environmental Science Services Division at Weston Solutions for the last 8 years. I have worked on a variety of projects including dredged material evaluations, toxicity identification evaluations, and NPDES testing. I have

participated with the field collection of marine sediments both locally and in Pearl Harbor, New Orleans, Guam, and New Jersey. I am a scientific diver and have participated on numerous scientific dive surveys including *Caulerpa taxifolia*, Essential Fish Habitat, kelp stand, and eel grass mapping.

Since I started working at Weston Solutions, there have been some major changes in my life. At 26 years old I married my high school sweetheart. We bought a house in the San Diego area that was built in 1959 and from the original owner. We spent several weekends fixing it up. After about six months it was finally ready for us to move in. We had our first child, Aidan, who will be two years old in December. Being a Dad was a new and welcomed experience. It completely changed my life. Six weeks ago, we had our second child, Jonah. I have to admit that I don't get much sleep and I have no free time, but I love it! I don't know what the future holds, but I hope it involves traveling to Baja with my family and teaching my boys to fish.



*Sushi tonight!*



## Student's Corner

**By Christine Lee and Kristy Richardson**

Hi everyone! Are you guys excited about the upcoming SETAC conference in Milwaukee? We certainly are - not only is it a great opportunity to showcase your hard work and projects, but it's also a time to network with other great minds in your field. In addition to the obvious benefits to your professional or academic career, the SETAC conference has a lot of student-oriented activities where you can meet (and perhaps work with!) some fellow peers.

Check out the list of the SETAC events, all created with the student researcher in mind, whether you're planning on pursuing an industry, government or academic career.

We hope to see you there and that you have a valuable and fun experience!

### Sunday

- Student Activities Committee Meeting (9-11am) Room103B
- Student Advisory Council Meeting (5-6pm) Location TBA
- Opening Session & Reception (6:30-11pm) Great Hall

### Monday

- New Members Breakfast (7-8am)
- Noontime Seminar "Considerations and Strategies of Job Hunting: What's the Outlook in 2007 and Beyond?" (11:50am-12:55pm) Ballroom A
- SoCal SETAC Regional Chapter Meeting (12-1pm) 103D
- Student Career-Mentor Event/Dinner (6:30-9:30pm) Location TBA
- Program Committee's Unofficial Pub-Crawl (9pm-1am) \*\*\*open to all, not just students

### Wednesday

- Noontime Seminar "Networking by Expertise" (11:50am-12:55pm) Ballroom A
- Informal Student Mixer (7:30-10pm) meet @ Student Council Booth in Great Hall, Plus ...
- Student Lounge (11-6 daily) Room 201c
- Silent Auction (Sunday-Tuesday) - proceeds benefit Student Activities/Student Members
- More info will be available at the Student Council Booth

We hope all our (student) members have a great time in Milwaukee!



## Regulator's Corner

By Dave Gibson

Here are a few noteworthy items from some regulatory agencies that might be of interest to SETAC members:

### Upcoming State Board and Regional Board Actions

The State Water Resources Control Board (State Water Board) intends to develop and adopt Sediment Quality Objectives (SQOs) for enclosed bays and estuaries. It will be conducting a public hearing on November 19, 2007 regarding "Sediment Quality Objectives for Enclosed Bays and Estuaries of California." This process will require approximately four years to complete. Public Comments for this Hearing are due by noon November 16, 2007. More information can be found in the Notice at:

[http://www.waterboards.ca.gov/bptcp/docs/sediment/notice\\_enclosedbays.pdf](http://www.waterboards.ca.gov/bptcp/docs/sediment/notice_enclosedbays.pdf)

and the State Water Board website at:

<http://www.waterboards.ca.gov/bptcp/sediment.html>

The Los Angeles Regional Board will consider the following items at its November 1, 2007 meeting at the City of Simi Valley:

- Consideration of a proposed Basin Plan amendment to incorporate a Total Maximum Daily Load to address elevated levels of indicator bacteria at the Harbor Beaches of Ventura County (Hobie Beach, Kiddie Beach). (Comment submittal deadline was September 26, 2007) [Man Voong, (213) 576-6808]
- Consideration of a proposed Basin Plan Amendment to subdivide Reach 4 of the Santa Clara River into two reaches. (Comment submittal deadline was October 11, 2007) [Yanjie Chu, (213) 576-6681]
- Update on the Design Storm Project: Phase I results and Next Steps [Renee Purdy DeShazo, (213) 576-6783]

- Update on beach water quality activities, with focus on the status of Compliance with the Summer Dry Weather Provisions of the Santa Monica Bay and Marina del Rey Harbor Bacteria TMDLs. [Renee DeShazo, (213) 576-6783]

The San Diego Regional Board will conduct its regularly scheduled Board Meeting on November 14, 2007 at the Regional Board Office. The agenda for that meeting will be posted at:

<http://www.waterboards.ca.gov/sandiego/rb9board/meetings.html>.

The Santa Ana Regional Board will meet on November 30, 2007, at the Irvine Ranch Water District. The Agenda will be posted approximately ten days before the meeting at:

<http://www.waterboards.ca.gov/santaana/html/2007agenda.html>.

## Grants

### 319(h) Nonpoint Source (NPS) Grant Program

The State Water Board will be accepting Concept Applications for the 319(h) NPS Grant Program beginning on September 14, 2007. The first of several applicant workshops was held on September 27, 2007 in Sacramento.

The purpose of the 319(h) NPS Grant Program is to provide funds to projects that restore and protect the beneficial uses of water throughout the State by the controlling NPS pollution consistent with completed Total Maximum Daily Loads (TMDLs) or TMDLs under development. The 319(h) NPS Grant Program seeks to fund projects that will serve as effective models for water quality improvement. Proposals most likely to receive funding must successfully demonstrate the following:

- Well planned and designed implementation activities that have a high likelihood of contributing to the desired water quality improvements based on data and information contained in TMDLs and watershed management plans;
- Significant pollutant load reductions that contribute to the restoration of a non-point source impaired 303(d) listed water body. Restoration refers to the attainment of water quality objectives

and beneficial uses, ultimately resulting in delisting;

- Achievement of water quality objectives and beneficial uses within a specified time-period. Projects demonstrating short-term results (e.g., 5 years) will be preferred, but longer-term results may also be funded.

Approximately \$5.65 Million will be available for this solicitation with a minimum grant amount of \$250,000 and a maximum grant amount of \$1,000,000 per project. A minimum funding match of 25% is required. Eligible applicants include local public agencies, public agencies, public colleges, 501(c)(3) nonprofit organizations, Indian tribes, federal and state agencies. Projects including activities required under a National Pollutant Discharge Elimination System (NPDES) permit, however, are not eligible for this funding.

The 319(h) NPS Grant Program Solicitation is a two-step process. In the first step, applicants submit brief Concept Proposals (CPs) using the State Water Board's on-line Financial Assistance Application Submittal Tool (FAAST). Applicants with the highest-ranking CPs are invited to submit a Full Proposal. After a thorough review of all full proposals, a recommended funding list is developed and presented at a State Water Board meeting for public comment and adoption.

All applicants requesting funds from the 319(h) NPS Grant Program must submit a complete electronic CP by 5:00 pm on Thursday, November 1, 2007

## Monitoring

### Bight 2008 Kickoff

Planning for the 2008 regional monitoring survey of the Southern California Bight (BIGHT '08) began on September 19, 2007 with a kickoff meeting at the Southern California Coastal Water Research Project (SCCWRP) office in Costa Mesa, CA. The purpose of the meeting was to work with the multiple stakeholders to develop a coordinated regional monitoring effort to be conducted in 2008, which will be funded through partnerships with the various organizations. SCCWRP has successfully completed three previous BIGHT surveys from 1994, 1998 and 2003. Past Bight surveys have extended from Point Conception, CA to Mexico.

Approximately 130 representatives from stakeholder agencies and organizations attended the meeting. The agencies included the U.S. EPA, Region IX, NOAA, the USFWS, the State Water Board, Regional Water Boards 4, 8, and 9, the Counties of Los Angeles, Orange, and San Diego, several city governments, Publicly Owned Treatment Works (POTWs), universities, and environmental organizations.

SCCWRP's Executive Director, Steve Weisberg, gave an overview of the results from Bight 2003. John Robertus, of the San Diego RWQCB, gave a presentation on a regulator's perspective regarding the BIGHT '08 regional monitoring effort; whereas, Joe Gully, of the Los Angeles County Sanitation District, presented a Permittee's perspective. Mr. Robertus and Mr. Gully are both very supportive of the Bight program.

The following areas/habitats are being considered for monitoring in Bight '08: Coastal Ecology (includes sediment quality, and coastal biota), Offshore Water Quality (includes water column quality), Areas of Special Biological Significance, Beach Water Quality (includes bacteria), Rocky Habitat Quality, and Wetland Quality. The following new areas of concern that will be addressed in 2008 are: Areas of Special Biological Significance, harmful algal blooms, rocky habitats, and wetlands (and possibly watersheds). Meeting participants provided questions of concern to produce an initial list of monitoring priorities. The next planning meeting is scheduled for December 5, 2007. Monitoring for Bight '08 is scheduled to begin in June of 2008. (Source: Cynthia Ghoram-Test and Lillian Busse)

### **SWAMP**

The State and Regional Boards' Surface Water Ambient Monitoring Program (SWAMP) Roundtable met on October 10th and 11th at the San Diego Regional Board offices. Among the issues they discussed included the finalization of the bioassessment data modules for the SWAMP database. Dr. Pete Ode (DFG), Moss Landing Marine Laboratories, Department of Water Resources, and SCCWRP are working on these modules, which will place bioassessment data on the permanent side of the database and make them accessible to the public. This module should be completed by mid-2008. A Physical Habitat Assessment module will be also developed later in 2008 or early 2009.

### **Legislation**

Some recent actions by Governor Schwarzenegger on legislation of note:

#### **AB 258, Chaptered**

The bill would require the State Water Resources Control Board (State Water Board) and Regional Water Quality Control Boards (Regional Water Boards) by January 1, 2009, to implement a program, primarily under a general industrial permit for storm water discharges, to control preproduction plastic discharges from point and non point sources. The state and regional boards would be required to specify best management practices for the control of preproduction plastic discharges and develop criteria for submittal of a no exposure certification. Fees sufficient to support the permitting program would be assessed and collected pursuant to existing law.

#### **AB 1056, Chaptered**

This bill would require the Ocean Protection Council (OPC) to establish a science advisory team and would require the OPC to contract with the California Ocean Science Trust. The bill would also (1) revise legislative findings to expand the purpose of the OPC to include identifying scientific research and planning that is useful for protecting and conserving coastal waters and ocean ecosystems, and to coordinate and assist state agencies in addressing those needs, and (2) require that the chair of the council be elected by and from the voting members, rather than specifying the Secretary of the Resources Agency as the chair. The bill would also specify that expenditures approved by the OPC, except for block grants, do not require the subsequent approval of the State Coastal Conservancy.

#### **SB 1001, Vetoed**

This bill would (1) reduce from nine to seven the number of board members that serve on each Regional Water Quality Control Board (Regional Water Board) and significantly change the eligibility criteria for serving on a Regional Water Board, (2) increase the compensation for Regional Board members, (3) establish a process for the State Water Resources Control Board (State Water Board) to withdraw a Regional Water Board's authority to administer any program that is not being properly administered, and (4) substantially narrow a provision of existing law that prohibits persons from serving as Regional Water Board members if they have received a significant portion of their income from

entities subject to certain federal water quality regulatory requirements.



## SoCal SETAC Dinner Meeting with Peter Kozelka

By Kat Prickett

SoCal SETAC was lucky enough to have Dr. Peter Kozelka from US EPA Region IX (EPA) speak at our dinner meeting on October 3<sup>rd</sup>, in Fullerton CA. The presentation on “TMDL Technical Challenges and Beyond” attracted a diverse crowd of student, industry, and government chapter members and new-comers.

Dr. Kozelka discussed a number of challenges that can be encountered during Total Maximum Daily Load (TMDL) development and implementation and provided several case studies to highlight these challenges. For example, site-specific objectives (SSOs) have been developed for TMDLs in San Francisco Bay, Shelter Bay, and Newport Bay. In these cases, the numerical objective for copper was multiplied by a water effects ratio (WER) determined in a site-specific study to calculate the SSO. While this approach may be appropriate for a receiving water body such as a harbor, it is EPA’s view that it may not be appropriate farther up in the watershed for an area surrounding a point discharge. Additionally, upstream loads also need to be considered and possibly reduced in upstream areas currently meeting criteria if they flow into reaches exceeding criteria.

Another challenge is translating a narrative standard to a numerical value for the TMDL. As an example of how this is done, Dr. Kozelka discussed the TMDL developed for macrophytes in Big Bear Lake. In this case, the descriptive target of reducing macrophyte coverage was translated into numerical limits for total phosphorus and nitrogen concentrations. Dr. Kozelka also discussed how the amount and quality of available data can complicate TMDL development. For instance, estimating historical and current loads of DDT coming into Cabrillo Beach/L.A. Harbor from the Dominguez Channel is complicated by the differing detection limits in DDT quantification.

Meeting attendees learned about some of the challenges in determining allocations once the TMDL has been developed, in both what should be the standard to apply (concentration, mass input, toxicity, or percent reduction) and how input should be allocated through the watershed (land use correlation, equity among stakeholders, feasibility of technical approach). The regulator must ensure that the measure makes sense for the particular listing and water body.

We all knew that the audience was listening closely by the questions that came at the end of the talk. Dr. Kozelka was asked to provide input on the differences between EPA’s and the State’s delisting policies (they are very different!), the potential use of the biotic ligand model (models can be good tools, but need time, money and site specific data to create), and ways to improve the TMDL process (stakeholders, provide your input early and often). Thanks once again to Dr. Kozelka for sharing his experience with us, and to all of you that were there to listen and provide lively discussion before, during and after the presentation.



## Green Corner

By Christine Lee

Do you have pipette boxes piling up in that corner or shelf? Do you hate throwing so much plastic away but abhor reloading those 100uL tips?

### In the Lab:

One way to reduce having to throw away these perfectly sturdy boxes is reusing them in the lab to house other things. Some (and not all, I concede) have removable trays. Once you take those out, you can use the boxes to store stuff.

I often work with small amounts of chemicals, and these boxes are perfect for helping me organize these chemicals. You can write all over the lid (this box has my array of antibodies; this box holds my tiny jars of powdered enzyme; etc.). We also use them to autoclave and store microcentrifuge tubes.

### Out of Science:

I’ve been able to use these boxes for “eco-art” projects, once sterilized. Kids love being able to have special containers to put random stuff in (think toy cars, candy,

scrunchies, for example). One favorite in our group of kiddos was using it as a jewelry box, one that they could have full power of decoration over.



## Calendar of Events

By Ken Schiff

### NOVEMBER 2007

- **Estuarine Research Federation Annual Meeting**  
4-8 November 2007 at the Rhode Island Convention Center, Providence, RI
- **SETAC North America 46<sup>th</sup> Annual Meeting**  
11-17 November 2007 at Midwest Airline Center, Milwaukee, WI
- **SoCal SETAC Board Meeting**, 12 November 2007, Milwaukee, WI. Major Goolsby's. All welcome. *Please see following announcement.*
- **American Water Resources Association, 2007 Annual Conference**  
12-15 November 2007 at Embassy Suites Hotel, Albuquerque, NM.
- **California Aquatic Bioassessment Workgroup, 14<sup>th</sup> Annual Meeting**  
28-29 November 2007 at UC Davis ARC Ballroom, Davis, CA

### DECEMBER 2007

- **American Geophysical Union Fall 2007 Meeting**  
10-14 December 2007 at the Moscone Center, San Francisco, CA

### JANUARY 2008

- **National Council for Science and the Environment Annual Meeting**  
16-18 January 2008 at the Ronald Reagan Center, Washington, DC

## Look for your fellow SoCal SETACers in Milwaukee!

Authors	Title	Information
<b>Platform</b>		
<u>Christine Broussard</u> , University of LaVerne.	Effects Of Methoxychlor Exposure on the Development of CD4 T-Cells in C57BL/6 Mice.	No. 735 Th Nov 15 - 2:10 PM
B. Chadwick, P. Wang, C. Katz, <u>K. Schiff</u> <sup>1</sup> , S. Carter, <u>C. Gorham-Test</u> <sup>2</sup> . 1. Southern California Coastal Water Research Project; 2. SD RWQCB.	Integrated Model Linkage Analysis for Contaminated Sediment TMDLs in San Diego Bay.	No. 689 Th Nov. 15 - 4:30 PM
<u>Jason Conder</u> <sup>1</sup> , J. Wells, M. Sorensen. 1. Environ.	Ecological Screening Levels for Volatile Organic Compounds in Soil Gas.	No. 66 Mon Nov 12 - 9:00 AM
<u>Jason Conder</u> <sup>1</sup> , R.A. Hoke, W. de Wolf, M. H. Russell, R. C. Buck. 1. Environ.	The Bioaccumulation Potential Of PFCAs and Comparison With Persistent Lipophilic Compounds.	No. 341 Tue Nov 13 - 1:50 PM
<u>Jason Conder</u> <sup>1</sup> , G. Klepper, L. Martello, P. Fuchsman, M. McCulloch, R. J. Wenning. 1. Environ.	Use Impairment Decision-making Approach for Assessment of Sediments.	No. 270 Tue, Nov 13 - 8:20 AM
<u>Keith Maruya</u> , Southern California Coastal Water Research Project.	A SPME-based Passive Sampler for Dissolved Organic Contaminants in Sediment Porewater.	No. 117 Mon Nov. 12 - 2:30 PM
<u>Keith Maruya</u> , Southern California Coastal Water Research Project.	Chiral and Isomer-specific Chlordane Signatures in Stormwater Runoff from Different Urban Landscapes.	No. 394 Wed Nov. 14 - 8:00 AM
<u>K. Maruya</u> <sup>1</sup> , W. Lao, <u>K. Schiff</u> <sup>1</sup> , J. Gan. 1. Southern California Coastal Water Research Project.	Chiral and isomer-specific chlordane signatures in stormwater runoff from different urban landscapes.	No. 394 Wed Nov. 14 - 8:00 AM
<u>K. Schiff</u> <sup>1</sup> , L. Sabin. 1. Southern California Coastal Water Research Project.	Trace Metal Dry Deposition Rates Along an Urban Coastal Transect in Southern California.	No. 94 Mon Nov. 12 - 10:00 AM
<b>Poster</b>		
<u>Steven Bay</u> <sup>1</sup> , Art Barnett, Kerry Ritter, Shelly Moore. 1. Southern California Coastal Water Research Project.	Application of a New Assessment Framework to Evaluate Sediment Quality in California Bays and Estuaries.	No. RP140 Th Nov 14 - All day
<u>Jason Conder</u> <sup>1</sup> , M. Sorensen. 1. Environ.	Ecological Screening Levels for Total Petroleum Hydrocarbons in Soil.	No. MP204 Mon Nov 12 - All day
<u>Darrin J. Greenstein</u> <sup>1</sup> , Nan Singhasemanon, <u>Diana Young</u> <sup>1</sup> , <u>Ken Schiff</u> <sup>1</sup> . 1. Southern California Coastal Water Research Project.	Water Column Toxicity within Recreational Boat Harbors in California, USA.	No. RP1-26 Th Nov 14 - All day
<u>R. Lavado</u> <sup>1</sup> , J. E. Loyo-Rosales <sup>2</sup> , E. P. Kolodziej <sup>2</sup> , D. L. Sedlak <sup>2</sup> , <u>D. Schlenk</u> <sup>1</sup> . 1. UC Riverside; 2. UC Berkeley.	Evaluation of steroid estrogen and estrogenic activity in surface waters from Central California.	No. WP 120 Wed Nov 14 - All day
<u>Christine Lee</u> , UC Los Angeles.	Near real-time detection of pathogen indicators in coastal waters.	No. RP33 Th Nov 14 - All day
<u>Kathryn Mika</u> , UC Los Angeles.	Comparison of IDEXX and membrane filtration for tracking concentration of fecal indicator bacteria (FIB) at an enclosed beach in Southern California.	RP32 Th Nov 14 - All day
J. Peng, W. Lao, <u>K. Schiff</u> <sup>1</sup> , <u>K. Maruya</u> <sup>1</sup> , J. Gan. 1. Southern California Coastal Water Research Project.	Concentrations of trace organic contaminants in urban stormwater runoff; contributions by land use category.	No. MP166 Mon Nov. 12 - All day
<u>Kristine L. Richardson</u> <sup>1</sup> , Natalia Zubcov <sup>2</sup> , Hector DeHaro <sup>1</sup> , Elena Zubcov <sup>2</sup> , <u>Daniel Schlenk</u> <sup>1</sup> . 1 UC Riverside; 2 Academy of Sciences of Moldova, Chisinau, Moldova.	Evaluation of Polychlorinated Biphenyl and Metal Contamination in Fish from Two Waterways in the Eastern European Country of Moldova.	TP205 Tu Nov 12 - All day
<u>Chris Stransky</u> , Nautilus Environmental.	Toxicity of runoff from two urban highways in Los Angeles	No. MP92 Mon Nov 12 - All day
L. L. Tiefenthaler, E. D. Stein, <u>K. C. Schiff</u> <sup>1</sup> . 1. Southern California Coastal Water Research Project.	Understanding watershed and land use-based sources of fecal indicator bacteria in urban stormwater.	No. RP31 Th Nov. 15 - All day

**Underlined Authors are SoCal SETAC Members**

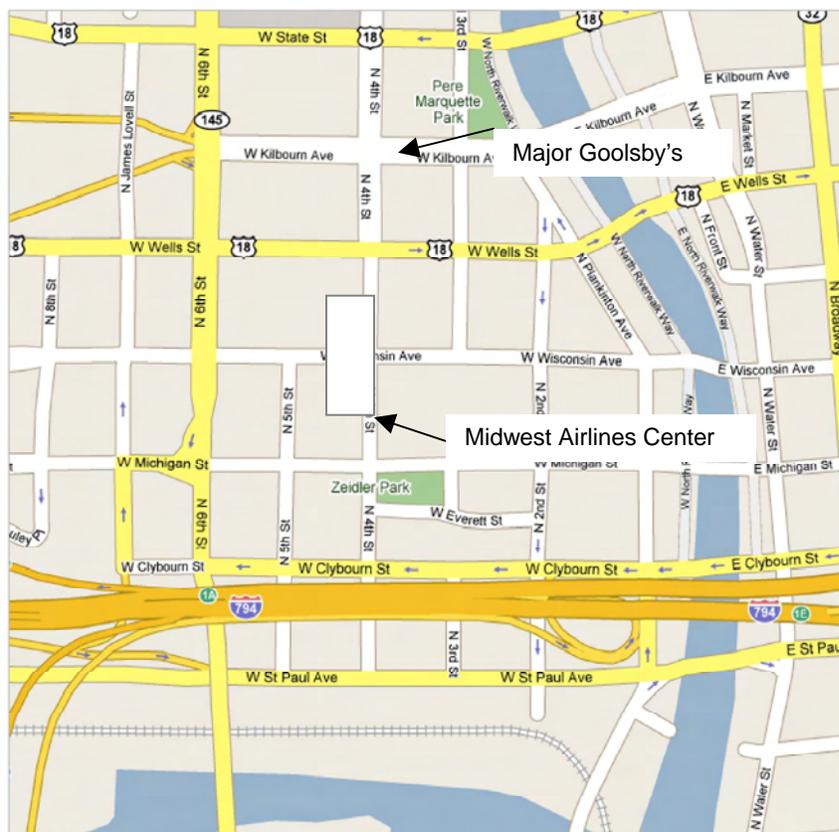
## SoCal SETAC Activities at the National SETAC Meeting in Milwaukee, WI

Don't miss this opportunity - Please join us 12:00 to 1:00 Monday, Nov. 12<sup>th</sup> for a Board Meeting, lunch, and socializing at Major Goolsby's Inc. Sports Bar and Grill, located at 340 W Kilbourn Ave. one block north of the Midwest Airlines Center and...

Pub Crawl Monday night - Place and time TDB

Also, importantly, please remember to stop by and visit the local **SoCal SETAC Chapter Booth** at the conference on Tuesday 1:30 - 3:00.

See you in Milwaukee!



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**So Cal SETAC  
Corporate Advertising rates, Sustaining Membership, and  
Annual Meeting sponsorship**

PROGRAM	COST	SERVICE
Newsletter Advertisement (per issue) <ul style="list-style-type: none"> <li>Full page</li> <li>Half page</li> <li>Quarter page</li> <li>Eighth page</li> </ul>	<ul style="list-style-type: none"> <li>\$100</li> <li>\$75</li> <li>\$50</li> <li>\$35</li> </ul>	<ul style="list-style-type: none"> <li>• Advertisement</li> </ul>
Corporate Sustaining Membership (per year)	\$300	<ul style="list-style-type: none"> <li>• Half page advertisement in Newsletter for the year</li> <li>• One Professional membership</li> <li>• Special recognition by the Chapter</li> </ul>
Corporate Annual Meeting Sponsorship (per year)	\$250	<ul style="list-style-type: none"> <li>• Full page advertisement in Annual Meeting Program</li> <li>• Single membership</li> <li>• Special recognition in the Meeting Program</li> </ul>



Pacific EcoRisk is an environmental consulting firm conducting research and testing in the fields of environmental toxicology, aquatic biology, and environmental chemistry. Our scientists are skilled in integrating their expertise in these areas to produce high-quality, cost-effective, and often innovative solutions to complex environmental problems. Our primary objective is to provide the best information available for our clients, which include POTWs, industry and agriculture, ports/marinas, US military, local, state, and federal regulatory agencies, as well as support for environmental or engineering firms.

#### CONSULTING SERVICES

- Petroleum impacts on aquatic systems
- Pesticide impacts on aquatic systems
- Mining/Metals impacts on aquatic systems
- Areas of Special Biological Significance (ASBS) Monitoring & testing
- Site-specific Water Quality Criteria Studies
- Agricultural Runoff (Ag Waiver) Monitoring
- Support for Ecological Risk Assessments
- Support for TMDL Development
- Expert witness testimony

#### AQUATIC TESTING SERVICES

- NPDES compliance testing
- Effluents/Ambient Waters/Chemical Products
- Acute and chronic toxicity testing
- Freshwater, estuarine and marine tests
- Static, static-renewal and flow-through
- *In situ* monitoring & testing
- Title 22 hazardous waste testing
- Water Effects Ratio (WER) studies

#### SEDIMENT TESTING SERVICES

- Testing with freshwater, estuarine and marine species
- Bioaccumulation studies with freshwater, estuarine, and marine species
- Whole sediment, sediment elutriate, sediment porewater testing
- Sediment-Water Interface Core testing
- Static, static-renewal and flow-through
- *In situ* monitoring & testing

#### DREDGE MATERIALS EVALUATIONS

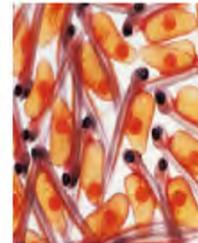
- Preparation of Sampling & Analysis Plans (SAPs)
- Client representation with regulators
- Chemical and biological evaluation of proposed dredge material
- Preparation of reports and facilitation of permits
- Tier I, Tier II, Tier III, and Tier IV evaluations

#### TOXICITY IDENTIFICATION/REDUCTION EVALUATIONS (TIEs, TREs)

- Phase I, Phase II, & Phase III
- Industrial and Municipal Effluents
- Ambient surface waters
- Stormwater runoff
- Whole sediment, sediment elutriate, and sediment porewater matrices
- Preparation of TRE workplans

#### FIELD SERVICES

- Ambient water quality monitoring
- Surface water and sediment collection
- "Clean technique" sampling
- Benthic invertebrate collection
- "Rapid" Bioassessment
- Pesticide application monitoring
- Physical/Habitat characterization



*Formed in 1994, Pacific EcoRisk has rapidly established a reputation as being one of the best aquatic and sediment testing labs in the western United States. We are committed to performing only the highest quality work, and it is this philosophy that has led to our success.*

*For more information or to discuss your project or testing needs please call: (925) 313-8080 or visit: [www.pacificcorisk.com](http://www.pacificcorisk.com)*

#### LOCATIONS

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2792 W. Loker Avenue, Ste. 100  
Carlsbad, CA 92010  
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**Nautilus Environmental**  
 Providing environmental toxicology services within  
 a framework of integrity and good science

**Expertise** Qualified and experienced staff with a comprehensive understanding of environmental toxicology and chemistry

**Quality** A focus on quality assurance/quality control practices to ensure provision of reliable data

**Innovation** A demonstrated ability to develop methodology to meet site-specific needs

**Integrity** A science-based approach which ensures uncompromising data quality and sound conclusions

**Service** Meeting the needs of clients with innovative, cost-effective science

**California**  
 5550 Warehouse Drive  
 Suite 150  
 San Diego, California 92121  
 858.587.7333 (REEF)  
 fax 858.587.3961

**Washington**  
 5009 Pacific Highway East  
 Suite 2  
 Tacoma, Washington 98424  
 253.922.4296  
 fax 253.922.5814

**British Columbia (Associate)**  
 3954 Hidden Oaks Place  
 Victoria, British Columbia  
 V8N 6M1  
 250.480.3941  
 fax 250.480.3945

• a woman-owned small business

We're proud to announce the  
 formation of Nautilus Environmental,  
 formerly the toxicology division of  
 AMEC Earth & Environmental



**CONSIDINE & CONSIDINE**  
 CERTIFIED PUBLIC ACCOUNTANTS

**BACKGROUND**

Considine & Considine was founded in 1946, and is proud to be San Diego's largest local accounting firm.

**MISSION STATEMENT**

As a full-service accounting, tax, and consulting organization, Considine & Considine strive to provide personal, quality service to businesses, individuals, and professional practices in a manner that is responsive, solution driven, and yet cost effective.

**CORE COMPETENCIES**

- ◆ Traditional Monthly, Quarterly, and Annual Financial Statements
- ◆ Tax Planning
- ◆ Tax Returns
  - Corporations
  - Individuals
  - Partnerships
  - Sole Proprietorships
  - LLC's
  - Non-Profits
- ◆ Management Consulting Services
- ◆ Reviews and Audits
- ◆ Personal Financial Planning
- ◆ Retirement Plan Administration
- ◆ Estate and Trust Planning and Administration
- ◆ IRS Representation

**CLIENTELE**

- ◆ Entrepreneurial Businesses
- ◆ Restaurants/Hotels
- ◆ Real Estate
- ◆ Construction
- ◆ Physicians
- ◆ Attorneys

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Position	Name & Affiliation	Responsibilities
<b>Past President</b>	<b>Jeff Armstrong</b> Orange County Sanitation District <a href="mailto:jarmstrong@ocsd.com">jarmstrong@ocsd.com</a>	Advisor/Stand-in for President and Vice-President Program Committee Chair for SoCal SETAC Annual Meeting
<b>President</b>	<b>Ken Schiff</b> Southern California Coastal Water Research <a href="mailto:kens@sccwrp.org">kens@sccwrp.org</a>	SETAC North America Liaison Board Agenda & Action Items
<b>Vice-President</b>	<b>Chris Stransky</b> Nautilus Environmental <a href="mailto:chris@nautilusenvironmental.com">chris@nautilusenvironmental.com</a>	Newsletter Editor
<b>Treasurer</b>	<b>Carlita Barton</b> L.A. County Sanitation Districts <a href="mailto:cbarton@lacsds.org">cbarton@lacsds.org</a>	Maintain Chapter Finances/Non-profit status Meeting Finances & Contracts
<b>Secretary</b>	<b>Kat Prickett</b> Port of Los Angeles <a href="mailto:kprickett@portla.org">kprickett@portla.org</a>	Membership Maintenance Recording board meeting minutes Election Coordinator
<b>Webmaster</b>	<b>Pavlova Vitale</b> RWQCB, Santa Ana Region 8 <a href="mailto:pvitale@waterboards.ca.gov">pvitale@waterboards.ca.gov</a>	Maintains and updates SoCal SETAC web site
<b>Outreach Coordinator</b>	<b>Phil Markle</b> L.A. County Sanitation Districts <a href="mailto:pmarkle@lacsds.org">pmarkle@lacsds.org</a>	Coordinates outreach efforts with SETAC NA

### SoCal SETAC Board of Directors

<b>Board Member (2006-2008)</b>	<b>Kevin Kelley</b> Calif. State University Long Beach <a href="mailto:kmkelley@csulb.edu">kmkelley@csulb.edu</a>	<b>Board Member (2007-2009)</b>	<b>Dave Gibson</b> San Diego RWQCB <a href="mailto:DGibson@waterboards.ca.gov">DGibson@waterboards.ca.gov</a>
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