I recently got a call from Mark Wolf-Armstrong reminding that it was time…a bit past the time…for me to write another President’s Greetings letter for the CERF Newsletter. These items always seem to arise quite suddenly but this one became a special case when I realized it is the last of my letters to the membership of the Federation. It seems like I was drafting my first letter a few days ago but in reality almost two years have gone by and my term as president is close to being over. It has been a busy and very worthwhile two year effort! And I, like so many others in CERF, am a volunteer and so I wanted to highlight this aspect of CERF in my final letter.

ELECTION RESULTS: Once again CERF has been fortunate to have a wonderful group of members agree to run for office and the results are now final. The membership elected Robert Twilley as President-elect, Enrique Reyes as Secretary, Liz Canuel and Sharon Herzka as Members-at-Large and Leanna Heffner as CERF’s first Student Member-at-Large. Our thanks also go out to those who agreed to run for office and did not get elected…the same spirit of volunteerism characterized their decisions as it did for those elected and we thank all of you. In addition, Jim Hagy has stepped up and agreed to become CERF Treasurer continuing the outstanding work done by Chris Tanner during the last four years. Ken Heck, the new CERF President, is fortunate to have such a strong team of volunteers to work with for the next two years.

CERF 2013 AND BEYOND: The second item concerning volunteers has to do with our rapidly approaching biennial conference in San Diego on 3-7 November 2013. And here we have a huge group of CERF volunteers who have been working on this conference for the past two years…we simply could not have this great event without such folks doing so much work! Steve Weisberg, Conference Chair and Jan Newton, Conference Vice-Chair, along with John Largier and Skyli McAfee, co-chairs of the science program committee and many other committee volunteers have put together a wonderful program featuring classic CERF themes and adding new events as well. I trust you have CERF 2013 on your radar for early November. It is a major event on my science calendar. In addition, the volunteer search has begun for CERF 2015 in Portland, Oregon, so if my praise for the volunteer-

CERF 2013 Scientific Program Shaping Up to Be the Largest Ever

John Largier & Skyli McAfee
CERF 2013 Scientific Program Committee Co-Chairs

With 1200 abstracts submitted, the CERF Scientific Program Committee had their hands full at July’s abstract sorting “party” in San Diego. Working in the California Sea Grant offices at the Scripps Institution of Oceanography, a team of dedicated professionals swapped abstracts and negotiated exchanges that resulted in a robust and diverse program for CERF 2013.

“The quality of the abstracts is exceptional,” said John Largier, Scientific Program Committee Co-Chair, “We did our best to provide as many people as possible with their first choice. In the end, we’re all very proud of how this conference is shaping up.”

continued on page 10
The Coastal & Estuarine Research Federation® (CERF) is a non-profit organization dedicated to advancing the understanding and wise stewardship of estuarine and coastal ecosystems worldwide. The CERF Newsletter is published in association with the following regional societies: Mid-Atlantic (AERS), California (CAERS), Gulf (GERS), Canadian Atlantic (ACCESS), New England (NEERS), Pacific (PERS) and Southeastern (SEERS). Inquiries should be directed to info@erf.org.

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nsteinberg@charter.net

**Coordinator**  
Chastity Miller  
cmiller@boaenviro.com
2013 ELECTION RESULTS ARE IN

The 2013 election results are in and CERF is pleased to welcome the following new members to the Governing Board. The new board members will take office following the CERF 2013 conference on November 8, 2013 and serve as part of Ken Heck’s administration. We sincerely thank all of the highly qualified candidates and voting members who participated in the election.

2013-2015 President-Elect

ROBERT TWILLEY
Executive Director,
Louisiana Sea Grant
College Program
Professor, Department of Oceanography and Coastal Sciences
Louisiana State University
Baton Rouge, Louisiana

EXCERPT FROM CANDIDATE’S STATEMENT: “The Coastal and Estuarine Research Federation has always been my professional base, and I thoroughly enjoyed participating in the biennial meetings, including serving as Program Chair for the ERF 1999 meeting in New Orleans. CERF brings the balance of science and management to one of the most dynamic and human-impacted regions of the biosphere - estuaries.”

2013-2015 Secretary

ENRIQUE REYES
Professor, Department of Biology
Institute for Coastal Science and Policy
East Carolina University
Greenville, North Carolina

EXCERPT FROM CANDIDATE’S STATEMENT: “I have been a member of the Federation since 1989 and I have attended all but one of the biennial conferences and witnessed how ERF became the premier conference in coastal and estuarine science. I have chaired special sessions and presented in general sessions, but it was not until I started collaborating with 2 exemplary individuals, Bob Christian and Linda Blum, that the commitment and passion to serve to the CERF membership became evident to me. I take particular inspiration from both of them, and recognize the need to participate and collaborate on the service to our Federation.”

2013-2017 Members-at-Large

ELIZABETH CANUEL
Professor of Marine Science
Virginia Institute of Marine Science
Gloucester Point, Virginia

EXCERPT FROM CANDIDATE’S STATEMENT: “I work in estuaries and the coastal ocean because they are vital to society - providing food, energy, livelihoods, and a range of ecosystem services. However, coastal regions are also heavily degraded by excess nutrients, poor water management, overfishing, and development. Solutions to environmental problems require interdisciplinary approaches both across natural sciences as well as bridging the natural and social sciences.”

SHARON HERZKA
Research Professor,
Department of Biological Oceanography
Center for Scientific Research and Higher Education of Ensenada (CICESE)
Baja California, Mexico

EXCERPT FROM CANDIDATE’S STATEMENT: “My vision for CERF’s future emphasizes four aspects: (1) building and strengthening the invaluable services the federation provides for students and young scientists at all stages of their careers, (2) capitalizing on our knowledge-base to serve society’s increasingly complex needs, (3) broadening the international scope and outreach of the federation, and (4) continuing to strengthen the relationship with the Affiliate Societies.”

LEANNA HEFFNER
Ph.D. Candidate,
Graduate School of Oceanography
University of Rhode Island • Kingston, RI

EXCERPT FROM CANDIDATE’S STATEMENT: “As a professional organization, CERF stands out in many ways. The CERF community is welcoming, collegial, energetic, adaptive, and I have always been impressed with the Federation’s support for students...CERF has played a central role in my scientific career and I have been fortunate to serve the Federation in several capacities over the years.”
CERF’s Up!
EARLY REGISTRATION DEADLINE
3 OCTOBER 2013

CERF 2013
SAN DIEGO, CALIFORNIA
Toward Resilient Coasts and Estuaries, Science for Sustainable Solutions
3-7 NOVEMBER 2013

REGISTER AND RESERVE YOUR SPOT TODAY!
Join the premier scientific gathering for coastal & estuarine researchers, managers and students.

CERF 2013 promises a robust and relevant program including:
- four “internal symposia” on cross-cutting issues;
- over seventy diverse sessions;
- distinguished line-up of speakers;
- engaging schedule of workshops, field trips and special events;
- and targeted activities for students and recent graduates!

Visit www.sgmeet.com/cerf2013 for more information or to register and reserve accommodations. Early registration deadline is 3 October 2013.

CONFERENCE CHAIR
Steve Weisberg
Southern California Coastal Water Research Project

CONFERENCE VICE CHAIR
Jan Newton
University of Washington

SCIENTIFIC PROGRAM CO-CHAIRS
John Largier
University of California, Davis
Skyli McAfee
California Ocean Science Trust

QUESTIONS?
Contact info@erf.org

SEE YOU IN SAN DIEGO!

For CERF 2013 Updates:
Like us on Facebook at CERF and CERF Students.
Follow us on Twitter @CERFScience.
### Conference Chairs

<table>
<thead>
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<th>Role</th>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Steve Weisberg</td>
<td>Southern California Coastal Water Research Project</td>
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<tr>
<td>Vice-Chair</td>
<td>Jan Newton</td>
<td>University of Washington</td>
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### Scientific Program Committee

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<tr>
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<tr>
<td>Co-Chair</td>
<td>John Largier</td>
<td>BML/University of California, Davis</td>
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<tr>
<td>Co-Chair</td>
<td>Skyli McAfee</td>
<td>California Ocean Science Trust</td>
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<tr>
<td>Oral Sessions Coordinator</td>
<td>John Callaway</td>
<td>University of San Francisco</td>
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<tr>
<td>Education Coordinator</td>
<td>Janet Nestlerode</td>
<td>EPA Gulf Breeze</td>
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<tr>
<td>Posters Coordinator</td>
<td>Jim Eckman</td>
<td>California Sea Grant</td>
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<tr>
<td>Workshops Coordinator</td>
<td>Karen McLaughlin</td>
<td>Southern California Coastal Water Research Project</td>
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<tr>
<td>Intern’l Issues Coordinator</td>
<td>Sharon Herzka</td>
<td>CICESE, Mexico</td>
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### Symposium Coordinators

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<thead>
<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>Acidification</td>
<td>Jan Newton</td>
<td>University of Washington</td>
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<tr>
<td></td>
<td>Libby Jewett</td>
<td>NOAA National Ocean Service</td>
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<td></td>
<td>Skyli McAfee</td>
<td>Coastal Ocean Science Trust</td>
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<td>Invasives</td>
<td>Jim Eckman/Jeff Crooks</td>
<td>California Sea Grant/Tijuana National Estuarine Research Reserve</td>
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<tr>
<td>Nutrients</td>
<td>Martha Sutula</td>
<td>Southern California Coastal Water Research Project</td>
</tr>
<tr>
<td></td>
<td>Jim Hagy</td>
<td>US EPA, NHEERL / Gulf Ecology Division</td>
</tr>
<tr>
<td></td>
<td>Suzanne Bricker</td>
<td>NOAA National Ocean Service</td>
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<tr>
<td>Sea-Level Rise</td>
<td>Gary Griggs</td>
<td>University of California Santa Cruz</td>
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### Field Trips

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<th>Field Trips</th>
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<tbody>
<tr>
<td></td>
<td>Jeff Crooks</td>
<td>Tijuana National Estuarine Research Reserve</td>
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### International Subcommittee

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<thead>
<tr>
<th>Role</th>
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<tbody>
<tr>
<td>Sharon Herzka</td>
<td></td>
<td>CICESE, Mexico</td>
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<tr>
<td>Angel Borja</td>
<td></td>
<td>AZTI Tecnalia, Spain</td>
</tr>
<tr>
<td>Gary Williams</td>
<td></td>
<td>G.L. Williams and Associates, Ltd., Canada</td>
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### Social Events Chair

<table>
<thead>
<tr>
<th>Social Events Chair</th>
<th>Name</th>
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<tbody>
<tr>
<td>Theresa Talley</td>
<td></td>
<td>Scripps Institution of Oceanography</td>
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### Student Activities

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<tbody>
<tr>
<td>Co-Chair</td>
<td>Drew Talley</td>
<td>University of San Diego</td>
</tr>
<tr>
<td>Co-Chair</td>
<td>Leanna Heffner</td>
<td>University of Rhode Island</td>
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### Student Travel Awards

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<tr>
<th>Student Travel Awards</th>
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<tbody>
<tr>
<td></td>
<td>Paul Carlson</td>
<td>Florida Marine Research Institute</td>
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### Conference Logistics

<table>
<thead>
<tr>
<th>Conference Logistics</th>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>CERF HQ Coordinator</td>
<td>Sarah Rudback, CERF HQ</td>
<td></td>
</tr>
<tr>
<td>Social Media Coordinator</td>
<td>Leanna Heffner</td>
<td>University of Rhode Island</td>
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<tr>
<td>Abstract Database Manager</td>
<td>Karen Setty, Southern California Coastal Water Research Project</td>
<td></td>
</tr>
<tr>
<td>Coordination with Other Societies</td>
<td>Steve Rumrill, University of Oregon</td>
<td></td>
</tr>
<tr>
<td>Webmaster</td>
<td>Chris Schneider, The Schneider Group</td>
<td></td>
</tr>
<tr>
<td>Registration and Administration</td>
<td>Helen Schneider-Lemay, The Schneider Group</td>
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</table>
Jerry Zucker to Deliver Keynote Address

Iconic Hollywood writer, director and producer, Jerry Zucker, will be delivering the keynote address “Portraying Scientists as Geeks and Madmen: Can Hollywood Reverse the Trend It Started?” on the opening night of CERF 2013.

Mr. Zucker is regarded as one of the most influential figures in the history of cinematic comedy and his repertoire includes such notable films as Airplane!, Naked Gun, Ruthless People and Ghost. In addition to his contributions to the entertainment industry, Jerry and his wife Janet have also been strong supporters of science and research. Jerry’s keynote address will introduce The Science and Information Exchange, which he and Janet launched in 2008 in cooperation with the National Academy of Sciences.

The Exchange uses the vehicle of popular entertainment media to deliver powerful messages about science by connecting entertainment industry professionals with top scientists and engineers, and enhancing the synergy between accurate science and engaging storylines. This connection offers scientists the opportunity to expand the reach of their work by moving their research out of the lab and into the public eye, potentially improving attitudes toward science and galvanizing interest in further discovery.

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Letter from the Conference Chair

Come Early, Stay Late: Make the Most of CERF 2013

Steve Weisberg
CERF 2013 Conference Chair

I have attended CERF meetings for more than 35 years and I am embarrassed to confess I have never made it to any of the Sunday events. It wasn’t until I got involved in planning CERF 2013 that I realized what I have been missing. In addition to an engaging scientific program, CERF conferences include a number of worthwhile field trips, workshops, speakers and social events you won’t want to miss.

First, there are field trips, which present interesting opportunities even for people like me who have lived and worked in southern California for almost 20 years. The Tijuana River Estuary trip will take you places along the international border that you wouldn’t normally go without a local expert tour guide. The trip to the Ocean Discovery Institute will provide a first-hand look into an award-winning collaborative program serving youth from underserved communities. And for those who like the outdoors or an opportunity to see the sites, there are organized trips to the Scripps Institution of Oceanography in La Jolla, the Cabrillo National Monument on the Point Loma peninsula, and the San Diego Embarcadero. With an average price tag of $32 per person, including lunch and transportation, the field trips are a great value and a wonderful opportunity to network outside of the traditional conference atmosphere.

There are also workshops on a wide array of topics. For instance, the two editors of Estuaries and Coasts, Iris Anderson and Wayne Gardner, will be joined by former editor, Jim Cloern, to provide you with writing tips that improve your chances for journal acceptance. For you hands-on people, the Alliance for Coastal Technologies will have tanks set up and manufacturer’s reps on site to demonstrate best practices for use of the latest coastal acidification measurement equipment. Best of all, each of the Sunday workshops are free!

Lastly, there is the Sunday night opening speaker, who is reason enough to come to the President’s reception. This year’s speaker is Jerry Zucker, who is best known for such hit movies as Airplane!, Naked

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**CONFERENCE SCHEDULE-AT-A-GLANCE**

### SUNDAY, 3 NOVEMBER

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>Various</td>
<td>Field Trips</td>
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<tr>
<td>11:00 am - 12:30 pm</td>
<td>Student Worker Training</td>
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<tr>
<td>1:00 - 6:00 pm</td>
<td>Registration Open</td>
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<tr>
<td>1:30 - 3:00 pm</td>
<td>Workshops</td>
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<tr>
<td>3:30 - 5:00 pm</td>
<td>Workshops</td>
</tr>
<tr>
<td>4:00 - 5:30 pm</td>
<td>Awardee &amp; Sustaining Members Reception*</td>
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<tr>
<td>6:00 - 7:30 pm</td>
<td>Keynote Address and Scientific Awards</td>
</tr>
<tr>
<td>8:00 - 10:00 pm</td>
<td>President’s Welcome Reception</td>
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### MONDAY, 4 NOVEMBER

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>6:45 - 8:00 am</td>
<td>CESN Breakfast</td>
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<tr>
<td>8:00 - 10:00 am</td>
<td>Morning Sessions</td>
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<tr>
<td>10:00 - 10:30 am</td>
<td>Break/Orientation for Students, Recent Graduates &amp; First-Time CERF Conference Attendees</td>
</tr>
<tr>
<td>10:30 am - 12:00 pm</td>
<td>Plenary Session - Managing Nutrients in a Changing World</td>
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<tr>
<td>12:00 - 1:30 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:15 - 1:25 pm</td>
<td>Ignite Session - What Doesn’t Kill You Makes You Stronger (Or At Least A Better Scientist)</td>
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<tr>
<td>1:30 - 3:00 pm</td>
<td>Early Afternoon Sessions</td>
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<tr>
<td>3:00 - 3:30 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:30 - 5:00 pm</td>
<td>Late Afternoon Sessions</td>
</tr>
<tr>
<td>5:00 - 7:00 pm</td>
<td>Poster Sessions/Happy Hour</td>
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<tr>
<td>6:30 - 7:30 pm</td>
<td>Affiliate Society Meetings</td>
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<tr>
<td>7:30 - 9:30 pm</td>
<td>Student &amp; Recent Graduate Career Networking Dinner</td>
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<tr>
<td>8:30 - Close</td>
<td>Student Pub Night</td>
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### TUESDAY, 5 NOVEMBER

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>8:00 - 10:00 am</td>
<td>Morning Sessions</td>
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<tr>
<td>10:00 - 10:30 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:30 am - 12:00 pm</td>
<td>Plenary Session - Responding to Sea Level Rise</td>
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<tr>
<td>12:00 - 1:30 pm</td>
<td>Lunch</td>
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<tr>
<td>12:00 - 1:30 pm</td>
<td>Women in Science Networking Lunch **</td>
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### WEDNESDAY, 6 NOVEMBER

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>6:45 - 8:00 am</td>
<td>President’s Breakfast*</td>
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<tr>
<td>7:00 am</td>
<td>CERF the Turf 5K Fun Run/Walk</td>
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<tr>
<td>8:00 - 10:00 am</td>
<td>Morning Sessions</td>
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<tr>
<td>10:00 - 10:30 am</td>
<td>Break</td>
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<tr>
<td>10:30 am - 12:00 pm</td>
<td>Plenary Session - Acidification Impacts on Estuaries</td>
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<tr>
<td>12:00 - 1:30 pm</td>
<td>Lunch</td>
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<tr>
<td>12:00 - 1:30 pm</td>
<td>Editorial Board Lunch*</td>
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<tr>
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<td>Early Afternoon Sessions</td>
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<td>3:00 - 3:30 pm</td>
<td>Break</td>
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<tr>
<td>3:30 - 5:00 pm</td>
<td>Late Afternoon Sessions</td>
</tr>
<tr>
<td>6:30 - 7:30 pm</td>
<td>Annual CERF Business Meeting</td>
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<td>7:30 - 10:00 pm</td>
<td>CERF Bowl</td>
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### THURSDAY, 7 NOVEMBER

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<td>10:00 - 10:30 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:30 am - 12:00 pm</td>
<td>Plenary Session - Anthropogenic Facilitation of Species Invasions</td>
</tr>
<tr>
<td>12:00 - 1:30 pm</td>
<td>Lunch</td>
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<tr>
<td>1:30 - 3:00 pm</td>
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</tr>
<tr>
<td>3:00 - 3:30 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:30 - 5:00 pm</td>
<td>Late Afternoon Sessions</td>
</tr>
<tr>
<td>5:30 - 8:30 pm</td>
<td>Close-Out Party and Student Awards Presentation</td>
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### FRIDAY, 8 NOVEMBER

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 - 11:30 am</td>
<td>CERF Governing Board Meeting*</td>
</tr>
</tbody>
</table>

**PLEASE NOTE: ALL TIMES ARE PRELIMINARY**

*By Invitation Only

**Ticketed Event
CERF is pleased to announce the following recipients of the 2013 Scientific Awards. The awards will be presented at the CERF 2013 conference following the Keynote Address on Sunday, November 3. More information on the awards and the 2013 recipients can be found on the CERF website at www.erf.org.

**Odum Award for Lifetime Achievement**

**IVAN VALIELA**
Senior Research Scientist, The Ecosystems Center
Emeritus Professor, Boston University Marine Program
Marine Biological Laboratory, Woods Hole, Massachusetts USA

**Cronin Award for Early Career Achievement**

**ROBINSON “WALLY” FULWEILER**
Assistant Professor, Department of Biology and Department of Earth & Environment
Boston University, Boston, Massachusetts USA

**William A. Niering Award for Outstanding Educator**

**PAUL A. MONTAGNA**
Endowed Chair for Ecosystems and Modeling, Harte Research Institute Gulf of Mexico Studies Administrator for the Coastal & Marine System Science Doctoral Program Texas A & M University, Corpus Christ, Texas USA

**Donald W. Pritchard Award for Estuaries and Coasts Geophysics Paper**

**NEIL K. GANJU**
Research Oceanographer
USGS Woods Hole Science Center, Woods Hole, Massachusetts USA

**ACCEPTING FOR THE PAPER**

“Tidal and groundwater fluxes to a shallow, microtidal estuary: constraining inputs through field observations and hydrodynamic modeling”

by Neil K. Ganju, Melanie Hayn, Shih-Nan Chen, Robert W. Howarth, Patrick J. Dickhudt, Alfredo L. Aretxabaleta, and Roxanne Marino

**NOTICE OF ANNUAL BUSINESS MEETING**

The Coastal & Estuarine Research Federation (CERF) will hold its Annual Membership & Business Meeting on Wednesday, 6 November 2013 from 6:30 – 7:30 pm in the California Room at the Town & Country Resort and Convention Center, 500 Hotel Circle North, San Diego, California USA

**SHOW YOUR SUPPORT!**

Check out the CERF Shop for branded Federation and CERF 2013 conference gear at www.cafepress.com/CERF
Thank you to the CERF 2013 sponsors

The Coastal and Estuarine Research Federation is grateful to the following sponsors and contributors who have stepped forward to support the CERF 2013 biennial conference:

**IN-KIND SPONSORS & CONTRIBUTORS:**
- Southern California Coastal Water Research Project
- University of Washington
- University of California, Davis
- California Ocean Science Trust
- University of San Francisco
- EPA Gulf Breeze
- California Sea Grant
- San Diego State University
- CICESE
- G.L. Williams and Associates, Ltd
- Tijuana National Estuarine Research Reserve
- AZTI Tecnalia
- The Scripps Research Institute
- University of Rhode Island

**THE WATER INSTITUTE OF THE GULF**
This “action shot” from the CERF 2013 abstract sorting party shows, from left to right, Sharon Herzka, Jim Hagy, John Largier, Jim Eckman, and Skyli McAfee hard at work.

“We exceeded our goals for the number of international abstracts we wanted. This diversity will further strengthen the overall program.”

—SKYLI MCAFEE, SCIENTIFIC PROGRAM COMMITTEE CO-CHAIR

In fact, the volume of high-quality oral submissions motivated the committee to increase the number of concurrent sessions beyond what was originally planned. All sessions were thoughtfully organized to minimize conflicts and maximize opportunities for presenters to showcase their work. The result is a program that now promises to be one of the largest in CERF history.

Presenters will hail from 30 different countries and attendees will likely represent even more. “We exceeded our goals for the number of international abstracts we wanted,” said Skyli McAfee, Scientific Program Committee Co-Chair. “This diversity will further strengthen the overall program.”

The program committee broke the mold by organizing this year’s conference around four themes: Managing Nutrients in a Changing World, Responding to Sea Level Rise, Acidification Impacts on Estuaries, and Anthropogenic Facilitation of Species Invasions. At the heart of each is a plenary presentation structured to bring topical and novel perspectives to complex issues with the help of presenters who are recognized experts in their field.

Each theme attracted outstanding oral and poster sessions thus fulfilling the ‘meeting within a meeting’ architecture that the program committee originally envisioned. The CERF 2013 program also includes an excellent line-up of educational, topical and general sessions on a broad array of topics that characterize the vitality of CERF.

An overview of the scientific program and a list of confirmed plenary speakers follows, along with an introduction to the workshops, field trips, special events and student programming which make CERF 2013 so unique. The Scientific Program Committee invites and encourages you to visit the conference website at www.sgmeet.com/cerf2013, so you can secure your spot, begin planning your itinerary and make the most of this landmark conference.

See you in San Diego!
President’s Greetings

continued from page 1

ism of CERF members strikes a positive note with you, call Mark Wolf-Armstrong and get involved with this next CERF adventure.

ESTUARIES AND COASTS: The news here also focuses on the volunteer spirit and professionalism of CERF members. We have been very fortunate to have outstanding leadership (and I should add a lot of hard work) from our Co Editors-in-Chief Iris Anderson and Wayne Gardner. They have moved the Journal forward with new review procedures, maintained a strong relationship with our publisher and strengthened and renewed our group of Associate Editors. As we all know the review process is a key element of our scientific tradition and these volunteers have done a superb job of maintaining that important tradition. And, the results have been solid...the impact factor of Estuaries and Coasts has been rising rapidly and we were recently informed that it now stands at 2.56. This is simply super good news!

So, when it comes to CERF volunteers I am a huge fan. Several years ago our new President-Elect Robert Twilley got me reading the James Lee Burke series of novels mainly sited in Louisiana and featuring two interesting (and somewhat flawed) characters. Fairly frequently one of them says to the other...”that guy’s OK...a stand-up dude”. I think the same of CERF volunteers...they are stand-up dudes of the first order. If the spirit moves you, get involved with the CERF volunteers and become a more central part of this wonderful Federation. Hope to see you in San Diego.

Volunteer Mentors Needed for CERF 2013!

Make a lasting impact at CERF 2013 by volunteering to be a mentor. We are looking for a diverse group of volunteers who are willing to help usher in the next generation of coastal and estuarine scientists, managers and educators. Professionals from all stages of traditional or non-traditional career paths are encouraged to sign up for the following mentoring opportunities:

CERF 2013 Student & Recent Graduate Career Networking Dinner
Join us for a free informal pizza dinner on Monday, November 4 from 7:30 to 9:30 pm to share your experiences, and help advise students on career opportunities.

CERF 2013 Mentoring Program
This program is for “novice” meeting attendees, whether they are students, recent graduates, or just attendees who are new to CERF. We hope to match these attendees one-on-one with a “seasoned” professional who can help them make the most of their first CERF conference. Mentors should be available to (1) connect with their mentee at least one week before the conference, (2) discuss the objectives and purpose of the conference with their mentee, (3) meet in person with their mentee at one of the scheduled social events, and (4) meet again later in the week to discuss any questions and reflect on the conference experience. Mentors should also plan to introduce their mentee to at least five colleagues during the meeting.

Whether it is just for an evening function or for the duration of the conference, we encourage you to adopt the CERF tradition of volunteerism and commitment to education. Who knows, you may end up meeting a future collaborator in the process!

Please contact info@erf.org if you are interested in participating in either of the mentoring opportunities.

Come Early, Stay Late

continued from page 6

Gun and Ghost. What you might not know, though, is that Jerry is a closet scientist responsible for the formation of The Science and Entertainment Exchange. His talk is titled “Portraying Scientists as Geeks and Madmen: Can Hollywood Reverse the Trend They Started?” Come prepared to hear fun stories about how Hollywood views and portrays scientists, what Jerry is doing to improve that image, and how he hopes to help Hollywood get the science right.

That covers Sunday, but I hope you will also stay through the closeout party on Thursday. We saved some of the best talks for last and Thursday evening is when we herald in the next generation of coastal and estuarine scientists with the Student Presentation Awards.

Now that I understand what I have been missing I will be sure to make the most of my CERF 2013 registration and stay for the whole event. I will be there for the entire week this time and I hope to see you there too.
CERF is pleased to announce the following list of confirmed plenary speakers for the upcoming CERF 2013 conference symposia. These speakers are all recognized authorities in their respective fields and represent a broad base of expertise on coastal and estuarine research and management. More information about each speaker can be found on the CERF 2013 conference website at www.sgmeet.com/cerf2013.

<table>
<thead>
<tr>
<th>Managing Nutrients in a Changing World</th>
<th>Responding to Sea Level Rise</th>
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<tbody>
<tr>
<td><strong>Monday, 4 November</strong></td>
<td><strong>Tuesday, 5 November</strong></td>
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<tr>
<td><strong>DANIEL CONLEY</strong></td>
<td><strong>GARY GRIGGS</strong></td>
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<tr>
<td>Professor</td>
<td>Distinguished Professor</td>
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<tr>
<td>GeoBiosphere Science Centre</td>
<td>of Earth &amp; Planetary Sciences</td>
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<tr>
<td>Department of Geology</td>
<td>Director, Institute</td>
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<tr>
<td>Lund University, Sweden</td>
<td>of Marine Sciences</td>
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<td></td>
<td>University of California, Santa Cruz</td>
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**Managing Nutrients in a Changing World**

- **DANIEL CONLEY**
  - Professor
  - GeoBiosphere Science Centre
  - Department of Geology
  - Lund University, Sweden

- **EPHRAIM S. KING**
  - Director of the Office of Science & Technology (Retired)
  - U.S. EPA

**Responding to Sea Level Rise**

- **GARY GRIGGS**
  - Distinguished Professor of Earth & Planetary Sciences
  - Director, Institute of Marine Sciences
  - University of California, Santa Cruz

- **RANDY OLSON**
  - Writer, Director & Producer
  - Prairie Starfish Productions

- **MIKE ORBACH**
  - Professor of the Practice of Marine Affairs and Policy
  - Nicholas School of the Environment
  - Duke University
Acidification Impacts on Estuaries

Wednesday, 6 November

RICHARD A. FEELY
Senior Fellow
NOAA Pacific Marine Environmental Laboratory

SAM DUPONT
Researcher and Coordinator
Sven Lovén Ocean Acidification Facilities
Department of Biological & Environmental Sciences
University of Gothenburg, Sweden

ALAN BARTON
Production Manager
Whiskey Creek Shellfish Hatchery & Project Coordinator
Pacific Coast Shellfish Growers Association Monitoring Program

JAY MANNING
Partner
Cascadia Law Group

Anthropogenic Facilitation of Species Invasions

Thursday, 7 November

GREGORY M. RUÍZ
Senior Scientist
Marine Invasions Research Lab
Smithsonian Environmental Research Center

STEVEN S. RUMRILL
Shellfish Program Leader
Oregon Department of Fish & Wildlife

RICHARD A. EVERETT
Environmental Protection Specialist
United States Coast Guard

The plenary speakers will be joining two other distinguished presenters you won’t want to miss. Iconic Hollywood director and producer Jerry Zucker, will be delivering the keynote address on Sunday, 3 November and discussing his efforts to use popular entertainment to deliver accurate and meaningful messages about science. Margaret Spring, Vice President of the Conservation and Science Division at Monterey Bay Aquarium, will be the featured speaker at the Women in Science Networking Lunch on Tuesday, 5 November.
Escape the traditional conference atmosphere and explore the San Diego area by joining one of the six field trips offered at CERF 2013. All field trips will be held on Sunday, November 3, and include lunch and transportation. **Space is limited, so be sure to register early and indicate which trips you are interested in on your registration form.** Detailed descriptions of each field trip can be found on the CERF 2013 conference website at [www.sgmeet.com/cerf2013/fieldtrips.asp](http://www.sgmeet.com/cerf2013/fieldtrips.asp).

**Tijuana River National Estuarine Research Reserve and U.S./Mexico Border**
- Duration: 9:00 am – 2:00 pm
- Cost: $25
- 7 people minimum, 20 people maximum

**The San Diego Embarcadero - The Maritime Museum of San Diego, USS Midway Museum, and Historic Tuna Harbor**
- Duration: 9:30 am - 3:30 pm
- Cost: $50
- 10 people minimum, 25 people maximum

**Scripps Institution of Oceanography, the Birch Aquarium, and Tidepooling in La Jolla**
- Duration: 10:00 am - 4:30 pm
- Cost: $35
- 14 people minimum, 28 people maximum
*Attire: Please be prepared for tidepooling (e.g., shoes you don’t mind getting wet).*

**Ocean Discovery Institute**
- Duration: 10:00 am – 2:30 pm
- Cost: $30
- 20 people minimum, 25 people maximum

**Natural and Human History at the Cabrillo National Monument and Tidepools**
- Duration: 11:00 am – 5:00 pm
- Cost: $30
- 14 people minimum, 28 people maximum
*Attire: Please be prepared for tidepooling (e.g., shoes you don’t mind getting wet).*

**The San Dieguito Wetlands Restoration Project**
- Duration: 10:00 am – 3:00 pm
- Cost: $25
- 14 people minimum, 26 people maximum

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**Introducing the CERF Bowl**

CERF 2013 will feature a new event – the CERF Bowl! The CERF Bowl is a team-based trivia competition that will show off the extensive estuarine and coastal knowledge of society members. Modeled after NOAA’s National Ocean Science Bowl, this event promises to be a fun and entertaining venue for members to compete against one another, earn prizes, cheer on colleagues, and meet new people. To make this event possible, we need your help!

- **We need five contestants from each regionally based Affiliate Society:** these contestants should represent 2 PIs, 1 post-doc, and 2 graduate students. We will encourage you to locate contestants from diverse institutions and locations within the affiliate membership. These teams will be mixed by event organizers into eight, five-person teams for the actual competition. Thus, no affiliate society will stick together and membership numbers should not matter.

- **Most importantly, we need your attendance and enthusiasm!!!!** If you opt not to participate, come out during the meeting and cheer on your friends and colleagues. Affiliate societies will earn points for how many people from their chapter attend the CERF Bowl.

Please email Christine Whitcraft at Christine.whitcraft@csulb.edu if you wish to participate as a contestant, as a question writer, or as a volunteer. This fun event can not happen without YOU!
Calibrates in minutes

Collects data for 90 days unattended

Deploys to 250-meter depths in lake, estuarine & coastal waters

Flexible sensor options:
Conductivity, Temp, Depth/Level, DO, Turbidity, Total Algae, fDOM, Ammonium, Chloride, Nitrate and more
CERF 2013 offers a diverse and exciting line-up of workshops. All workshops will be held on **SUNDAY, NOVEMBER 3**, including two workshops that start at 8:00 am. Please indicate which workshops you are interested in attending on your registration form and plan to arrive early to make the most of this year’s unique offerings.

Detailed descriptions about each workshop, including contact information for each convener, can be found on the CERF 2013 conference website at [www.sgmeet.com/cerf2013/workshops.asp](http://www.sgmeet.com/cerf2013/workshops.asp)

### 1:30 pm – 3:00 pm

**Data Infrastructures for Estuarine and Coastal Ecological Synthesis**

**Creating Mutually Beneficial Links Between Citizen Science and Ocean and Coastal Resource Management**

**Linking Knowledge with Action: Empirical Evidence of What Works and What Doesn’t**

**Graduate Student Mentoring of Undergraduates**

### 3:30 – 5:00 pm

**Real Time Data Retrieval and Storage Methods in Coastal Datalogging Applications**

**Integrated Ecosystem Assessment: From Concept to Practice**

**Advancing Expert Judgment of Ecosystem Health for Science-Informed Ocean Management Decisions**

### All Day 8:00 am – 5:00 pm

**Ocean Acidification Monitoring Instruments**

**SCOR Working Group 137, Global Patterns of Phytoplankton Dynamics in Estuarine and Coastal Ecosystems**

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**highlighted workshop**

**Ocean Acidification Monitoring Instruments**
The need to incorporate ocean acidification parameters into new and existing coastal monitoring programs is becoming increasingly apparent. This full day workshop from 8:00 am to 5:00 pm on Sunday, November 3 will build off of the information and experience gained through the Alliance for Coastal Technologies (ACT) technology workshops and evaluations. Presenters will include Dr. Mario Tamburri from the University of Maryland Center for Environmental Science and ACT, Dr. Tom Johengen, University of Michigan and ACT, Dr. Steve Weisberg, Southern California Coastal Water Research Project and California Current Acidification Network, and Dr. Andrew Dickson from Scripps Institution of Oceanography.

The workshop will begin with introductions and a review of the impacts of ocean acidification, and approaches to in situ measurements of pH and pCO₂. The bulk of the training will involve demonstrations of, and hands-on interactions with, several commercially available in situ pH sensors and pCO₂ analyzers. In 90-minute sessions, participants will rotate from station to station where sensor manufacturer representatives will demonstrate the steps required for the proper use of pH and pCO₂ instruments - from set up and calibration, to maintenance and data management.

The goals of the workshop are to meet experts in the ocean acidification field, and gain experience with existing and emerging technologies that will lead to better monitoring, assessment, and understanding of carbon chemistry in coastal waters. More information on ACT can be found at www.act-us.info.
A variety of special events are planned throughout the course of the CERF 2013 conference. A sampling of some of the events that are planned is included below. Space is limited, so be sure to secure your spot early. Tickets or pre-registration are required for some events. Additional information about each event can be found on the CERF 2013 conference website at https://www.sgmeet.com/cerf2013/special_events.asp.

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**Women in Science Networking Lunch with Margaret Spring**
*(Tickets Required)*

*Date:* Tuesday, November 5  
*Time:* 12:00 pm – 1:30 pm  
*Cost:* $30.00 regular/$20.00 students

The Women in Science Networking Lunch provides a compelling program and an excellent opportunity to network with colleagues and friends. The featured speaker this year is **Margaret Spring**, Vice President of the Conservation and Science Division at the Monterey Bay Aquarium.

Ms. Spring has had a distinguished career in ocean policy and legislation. She recently served as Principal Deputy Under-Secretary for Oceans and Atmosphere and Chief of Staff at NOAA, working closely with NOAA administrator Jane Lubchenco. Prior to this, she was with The Nature Conservancy’s California chapter as Director of its Coastal and Marine Program, and Senior Counsel, then General Counsel, to the Senate Committee on Commerce, Science, and Transportation.

This is a popular event and space is limited. Interested attendees are encouraged to register and purchase their tickets early.

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**Cruising San Diego**
*(Tickets Required)*

*Date:* Tuesday, November 5  
*Time:* 6:00 pm – 10:00 pm  
*Cost:* $75.00 adult/$45.00 children ages 4-12/free for children 3 & under

Join us Tuesday evening for a private, two-hour cruise around San Diego Bay with Hornblower Cruises & Events on the *Inspiration Hornblower* charter yacht. This family-friendly cruise has it all: dinner, drinks, dancing, a DJ and a view of the beautiful San Diego skyline at night.

See and hear about San Diego Bay now—with its working waterfronts and natural resources—and into the future through discussion of the San Diego’s climate adaptation plans and commercial fisheries revitalization plan.

The cruise terminal is walking distance from the San Diego trolley line and the tickets are a great deal compared to a comparable public rate of $120. Included in the ticket price are dinner, music, the tour, discussions – and an unforgettable evening. The yacht has 28,000 ft of event space, with two enclosed interior decks and an open-air sky deck rising 30 ft off the water. It should be a fantastic evening and a highlight for many conference attendees!
CERF the Turf 5k Fun Run/Walk

Date: Wednesday, November 6  
Time: meet at 6:30 am, starts at 7:00 am  
Cost: $20.00, pre-registration required

CERF will once again host a 5K (3.1 mile) fun run/walk as a part of the 2013 biennial conference. This year’s run will follow a stretch of the San Diego River offering beautiful riparian views, fun and fresh air. All paid participants will get a keepsake after the race, and prizes will be awarded to the top male and female finishers.

Pre-registration is required before November 6. Interested participants can sign up when they register online or when they arrive at the conference. Runners/walkers are asked to assemble at the southwest corner of the Town & Country Resort and Convention Center property at 6:30 am the morning of the event. For further information, or to volunteer to help, contact Theresa S. Talley at tstalley@ucsd.edu or (858) 200-6975.

IGNITE SESSIONS

CERF 2013 will host two Ignite Sessions - each scheduled during the lunch period on Monday and Wednesday. These 90-minute sessions will be comprised of eight to ten talks grouped around a common theme. Each talk is five minutes, featuring 20 slides that advance automatically every 15 seconds … when your slides are done, so are you! There are no questions during the talks, but there will be time for discussion afterwards. Ignite Sessions provide a unique way to share ideas and experiences in a fun, animated and fast-paced forum. Visit igniteshow.com to see how it works.

WHAT DOESN’T KILL YOU MAKES YOU STRONGER (OR AT LEAST A BETTER SCIENTIST)

Monday, November 4  
12:15 – 1:25 pm

As scientists we have all faced obstacles: a failed experiment, manuscripts that never get published, unlucky job searches, conflicts with collaborators, mentees, or mentors. Yet, it is often in these times that we find new inspiration, a discovery that leads us down another path, a change in approach to the question, or a new source of support. In this Ignite Session, scientists will share the stories behind those obstacles and how they ultimately made them a better scientist.

THE POWER OF OBSERVATIONS

Wednesday, November 6  
12:15 – 1:25 pm on

This Ignite Session will focus on the power we gain from having coastal observational data. Speakers will share diverse stories of where a commitment to sustained observations has shown clear value to society through improved response to events, deeper insight on system functioning that leads to improved management, detection of change, or increased awareness of the marine environment.

Close-out Party & Student Presentation Awards

Date: Thursday, November 7  
Time: 5:30 pm – 8:30 pm  
Cost: free, but pre-registration is required

Volunteer judges will be evaluating student oral and poster presentations throughout the conference. Tonight, the highest-ranking students will receive monetary awards and recognition for their exceptional work. Come support the students and celebrate another successful conference. Light hors d’oeuvres and refreshments will be available. The event is free, but registration is required.

The proposed route for the CERF the Turf Fun Run/Walk on Wednesday, November 6.
## CERF 2013 PROGRAM & SCHEDULE

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<th>GOLDEN WEST</th>
<th>CALIFORNIA</th>
<th>ROYAL PALMS (ROOMS 1–3)</th>
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### TUESDAY, 5 NOVEMBER 2013

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5–7 PM: POSTER SESSION AND HAPPY HOUR, GRAND HALL
### WEDNESDAY, 6 NOVEMBER 2013

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SEE POSTER SESSIONS LISTED ON PAGE 17.

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<tr>
<td>Synthesis Research: In Honor of Scott W. Nixon</td>
<td>Sentinel Sites for Sea Level Impacts</td>
<td>Education: Mentoring Strategies</td>
<td>Invasive Species Dynamics/ Impacts/Control</td>
<td>San Francisco Bay Ecosystem Evolution</td>
<td>Nearshore Ocean Community Processes</td>
<td>Carbon Cycling</td>
<td>Estuarine Shallows: Biophysical Interactions</td>
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<td>Ecological Tracers for Sustainability</td>
<td>Invasive Species Dynamics/ Impacts/Control</td>
<td>ICOL, TOCE, etc.: Nutrients &amp; Phytoplankton Ecology</td>
<td>San Francisco Bay Ecosystem Evolution</td>
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<tr>
<td>Microbial Ecology</td>
<td>Storm Effects on Estuaries</td>
<td>Ecological Tracers for Sustainability</td>
<td>Controlling Invasive Wetland Plants</td>
<td>ICOL, TOCE, etc.: Comparative Insights</td>
<td>General Ecology</td>
<td>San Francisco Bay Upper Estuary</td>
<td>Estuarine Shallows: Monitor/Model/ Manage</td>
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SEE POSTER SESSIONS LISTED ON PAGE 17.
Have you ever wanted to ride a wave? Explore mysterious sea caves in La Jolla? Well now is your chance! At the CERF Silent Auction, you can bid to win a surf lesson for two on the beautiful shores of La Jolla, CA furnished by Menehune Surf. If you prefer kayaking, place a bid for a kayaking trip courtesy of Hike Bike Kayak Sports. If coastal-themed art is more your style, the CERF Silent Auction will not disappoint! A unique collection of objects donated from local artists and creative CERFers will be up for bid.

Your prized CERF 2013 memento could include whimsical hand-knit sea creatures from CERF Secretary Linda Blum, algae pressings and prints from Beth Shady’s Seaweed Art, wildlife photographs from CERF 2011 co-chair Holly Greening, a limited-edition print of the Tijuana River National Estuarine Research Reserve landscape by Teri McFarland, or a unique silver cocktail ring featuring a tiny scuba diver poised to jump into an azure resin abyss from Kate Mansfield.

Feeling guilty for leaving your four-legged furry friends at home while CERFing it up in San Diego? Then bid on a beautiful gift basket of assorted dog treats from MarshDog.com, made with nutria (yes, nutria!), the invasive species responsible for destroying thousands of acres of Louisiana marshland.

We urge all conference participants to join in on the fun during the first-ever CERF Silent Auction! The auction committee will continue to seek out other unique experiences, items, art, CERF memorabilia, books, and luxury indulgences to be unveiled at the conference. All funds raised will support CERF Student Activities and travel to our conferences. Bidding will begin on Sunday evening, November 3 and end promptly at 6:00 pm Tuesday, November 5, so plan your CERF week accordingly!

The silent auction committee will accept donation items up until October 15, 2013. Donations are tax-deductible and will be acknowledged on the conference webpage, and in our promotional materials. To donate, please contact the Silent Auction Co-chairs, Leila Hamdan at lhamdan1@gmu.edu and Janet Nestlerode at nestlerode@epa.gov.

Hang ten! Bid on a voucher for a 1.5 hr surf lesson for two on the beautiful shores of La Jolla, California. Enjoy the surf, sunshine, and a great day with the awesome staff at Menehune Surf.
Explore mysterious sea caves in La Jolla with a two-person tandem kayak tour, courtesy of Hike Bike Kayak Sports in La Jolla, California. You’ll experience the local marine ecosystem and meet its diverse inhabitants, from curious sea lions to charismatic garibaldi.

Algae pressings and prints by Beth Shady’s Seaweed Art are perfect for hanging around the house or sending to friends. This unique collection highlights the delicate nature and beauty of local algal species on the pacific coast.

This informed and inspired photograph is being generously donated to the CERF Silent Auction by CERF’s own talented photographer Holly Greening. It is part of a stunning collection created by Holly and Gerald Morrison and will beautifully adorn any office or home.

This OSHA-approved original workman’s model Utilikilt (discontinued zipper design) was worn by CERFer Joe Germano for every Sediment Profile Imagery (SPI) survey he’s done between 2001 and 2013, when it was finally retired. Like Joe, it has been around the world a few times and has a lot of miles on it! For serious coastal collectors, this is a piece of history from one of the original developers of SPI technology and can be yours if you have the winning bid at the CERF Silent Auction!

Photo courtesy of Joe Germano.
CERF 2013 includes diverse programming aimed at addressing the unique needs of students and recent graduates. In addition to professional development and networking opportunities, students and recent graduates are encouraged to take advantage of:

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**Roommate Finder Service**
Save money on a room AND get to know a fellow conference attendee! Just check the option to sign up for the Roommate Finder service when you register and you will be contacted with more information.

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**Student & Recent Graduate Mentoring Program**
Interested in connecting with a professional in your field during the conference? Then sign up for the Student & Recent Graduate Mentoring Program when you register. Receive valuable one-on-one time with an established professional who can provide advice and answer questions regarding future career options as well as how to make the most of your conference experience. Mentors can also introduce you to colleagues and fellow students in their network, so you can expand your network and build your career! For more information about the program or to sign up, contact Drew Talley at dtalley@sandiego.edu.

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**Student Presentation Judging & Awards**
Students can opt to have their oral or poster presentation judged for the Student Presentation Awards. Judges will be CERF 2013 attendees who have volunteered to assess student presentations within their field of expertise. Prizes will be awarded for the following categories:
- Best Undergraduate Poster Presentation
- Best Undergraduate Oral Presentation
- Best Graduate Poster Presentation
- Best Graduate Oral Presentation

Judging criteria can be found on the conference website at www.sgmeet.com/cerf2013 or by contacting info@erf.org. The awards ceremony will be held at the Close-Out Party on Thursday, November 7 from 5:30 to 8:30 pm. Judging forms with written feedback will be mailed to presenters after the conference.

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**Workshops Geared Toward Students & Recent Graduates**

**Graduate Student Mentoring of Undergraduates**

*Sunday, November 3 from 1:30 to 3:00 pm*

Research is an important component of the undergraduate experience in the sciences. This 90-minute workshop will focus on what works in mentoring undergraduate researchers. This workshop will include a panel of experienced graduate student mentors who will talk about their mentoring styles and give examples of approaches to specific problems.

**A Short Tutorial on Scientific Writing: How to Optimize Chances for Success in Publishing Paper in Estuaries and Coasts**

*Sunday, November 3 from 1:30 to 5:00 pm*

Scientific publication is the cornerstone of research. This is an encore presentation of a popular workshop from two previous CERF conferences on scien-
Recent Graduates

Scientific writing and publishing. The goal of this workshop is to familiarize participants with the process of scientific publication with a special focus on the CERF association journal Estuaries and Coasts.

Orientation for Students, Recent Graduates & First-time Conference Attendees

Get oriented to CERF 2013 and get tips and advice on how to navigate the conference, network, and make the most of your conference experience. The orientation is scheduled for Monday, November 4 from 10:00 to 10:30 am and is open to students, recent graduates and anyone new to CERF conferences.

Student & Recent Graduate Career Networking Dinner

Join us Monday, November 4 from 7:30 to 9:30 pm for this popular networking event. Rub elbows with faculty, professionals and other students while enjoying complimentary pizza and beverages! Get valuable information on various career options, including alternatives to academia, and make connections that may come in handy down the road. Formatted in a “speed-dating” style, participants will be able to sit down and chat with a number of coastal and estuarine science and management professionals.

Student & Recent Graduate Pub Night

Join fellow CERF students and recent graduates for a fun night out! Grab drinks, chow down on snacks, listen to some tunes, and best of all get to know other students and professionals in your field in a relaxed and casual atmosphere. The event will be held on Monday, November 4 from 8:30 pm to close at The Waterfront Bar and Grill located at 2044 Kettner Blvd - a few blocks away from the Little Italy Station on the San Diego Trolley Green Line. Please note this event is for participants age 21 and up only.

Looking for an Excuse to Stay in California a Little Longer?

Southern California is a hotbed for scientific conferences this fall. Here are three options you might want to consider as you begin planning your travel for CERF 2013.

The North American Lake Management Society (NALMS) is holding their 33rd international symposium “Lake Management in an Era of Uncertainty” from October 30 - November 1 at the Town & Country Resort and Conference Center in San Diego - the same location as CERF 2013. The NALMS conference brings together lake managers, regulators, educators, researchers, students and corporate partners from around the world to share knowledge and exchange ideas about advancements in related research, technology and management. More information about NALMS and their upcoming symposia can be found at www.nalms.org.

Immediately following CERF 2013, the Western Society of Naturalists (WSN) will be holding their annual meeting from November 7-10 in the Oxnard/Ventura area approximately three hours up the coast from San Diego. WSN is still accepting abstracts for presentations through October 1. More information about WSN and their upcoming meeting can be found at www.westsocnat.com.

Can’t arrive early? Don’t feel like staying longer and traveling north? The Maritime Alliance (TMA) will be hosting its 5th Annual Blue Tech & Blue Economy Summit in San Diego on November 7-8. TMA promotes Blue Tech & Blue Jobs, reaching out to maritime tech clusters nationally and internationally and “fostering innovation through collaboration.”® Their conference is titled “Marine Spatial Planning (MSP) & Promoting Sustainable Development in the Oceans” and features an outstanding roster of speakers, including senior NOAA officials and European leaders. More information about TMA and their upcoming summit can be found at www.themaritimealliance.org.

More information about each of these exciting opportunities can be found on the CERF 2013 website at www.sgmeet.com/ cerf2013 or by contacting info@erf.org.

SEE YOU IN SAN DIEGO!
In the estuaries of the Pacific Northwest, PERSians have enjoyed a beautiful, hot and dry summer. In fact, new records were set in July for the amount of sunshine and lack of precipitation in Vancouver, B.C. and the Fraser River estuary. As the daily low tides get higher and higher, intertidal field programs are nearing completion and soon estuarine scientists’ thoughts will switch to data analysis and writing up publications.

This year brings the 22nd biennial CERF Conference from November 3-7 to beautiful San Diego, California, and PERSians are looking forward to presenting posters and papers and networking with estuarine scientists from North America and around the world. The early registration ends October 3, so make sure you have registered. With over 1200 abstracts submitted from 30 countries, great field trips, an evening cruise of San Diego Bay, and lots of opportunities for social interactions, it is a great venue for getting inspired professionally and personally. PERS sends well-deserved kudos to Steve Weisberg, Chair, Jan Newton, Vice-Chair, and their dedicated team for putting together a great conference.

The San Diego meeting will also herald the end of the Boynton Administration of the CERF Governing Board and beginning of the Heck Administration. The new CERF Board will be led by Ken Heck and Tony D’Andrea will take my place as PERS President. I will continue as PERS President at the local level until our 2014 Annual Meeting to be held in Oregon. It has been a very interesting and enjoyable experience representing PERS under President Walter Boynton. I am sure that Tony will find it a positive experience as well.

**Washington State and B.C. Estuarine Scientists Initiate a Joint Spartina Herbicide Program in the Fraser Estuary**

Since 2003, when I “discovered” English cordgrass (*Spartina anglica*) on Roberts Bank during saltmarsh surveys conducted for the Port of Metro Vancouver, controlling *Spartina* has been a major management focus in B.C. The initial removal efforts on Roberts Bank were funded by the Port Metro Vancouver, but further inventory and mapping in the Fraser River estuary and Vancouver Island led to the formation of the B.C. *Spartina* Working Group (BCSWG) led by Dan Buffett, Ducks Unlimited Canada. The BCSWG is comprised of federal, provincial, regional, municipal, and non-government organizations that coordinate inventory and mapping, manual and mechanical removal, and outreach. The effort has received limited funding over the years and conducted most of its field activities using volunteers from BCSWG member agencies as well as numerous other groups and local citizens. To date, two other invasive *Spartina* species, seacoast cordgrass (*S. patens*) and densely-flowered cordgrass (*S. densiflora*), have been recorded in B.C. (See [http://spartina.ca](http://spartina.ca) for more information).

Eradication of invasive *Spartina* was elevated to international stature with the governors of Washington, Oregon, California and B.C. signing the Pacific Coast Collaborative in 2010. The *Spartina* Progress Report for Pacific Coast Collaborative Leaders (2010) commits to eradication of non-native *Spartina* by 2018. To guide management, the BC *Spartina* Response Plan was prepared in 2010. In 2011, the three *Spartina* species, as well as smooth cordgrass (*S. alterniflora*) were listed as noxious weeds in Schedule A of the Weed Control Regulation of the B.C. Weed Control Act.

In August, 2013, the *Spartina* eradication program commenced a new chapter with the herbicide application of Habitat (active ingredient imazapyr) on English cordgrass plants on Roberts Bank and Boundary Bay in the Fraser River estuary. The field effort was coordinated by the B.C. Ministry of Environment (MOE) and the Ministry of Forests, Lands and Natural Resource Operations (MFLNRO), and involved the valuable support of scientists and two airboats from the Washington State Departments of Agriculture and Fish and Wildlife. Washington State has conducted a *Spartina* control program over the last decade with annual funding of approximately $1 million that has reduced the invasive plant from over 10,000 acres to less than 10 acres. Herbicide applications are considered a major part of WA’s success. The BCSWG has been working cooperatively with Washington State specialists over the years and the provision of airboats greatly facilitated access to *Spartina*...
sites, often occurring in soft mud or hard to access sites on the edge of the salt marsh.

This is the first time that registered herbicides have been used to control cordgrass in Canada. The process began in 2010 with the BCSWG reviewing herbicide options with Washington State specialists prior to formal application. To obtain approval for herbicide use to treat Spartina, MOE applied to the Federal Pest Management Regulatory Agency (PMRA) to obtain Emergency and/or Full Registration for the aquatic use of the herbicide products Rodeo (active ingredient glyphosate) and Habitat (active ingredient imazapyr) to complement manual and mechanical removal methods to control infestations of Spartina on cobble beach, salt marsh, and intertidal mudflats located in Boundary Bay, Roberts Bank and Burrard Inlet. Once federal registration was obtained, provincial approval was required for use. An application was submitted for a Pesticide Use Permit under provisions of the BC Integrated Pest Management Act, and final approval was obtained this summer.

The proposed application plan includes the herbicides Habitat and Rodeo and the surfactant Ag-Surf II, which will be applied by handheld, backpack and/or hand pump sprayers at low tide. Each site will receive one treatment within a seven-day period (weather permitting), and spraying will be restricted to infestations on cobble beaches, salt marshes and intertidal mudflats. Follow-up applications are planned for September. Eight to 12 people will be involved in the treatment process, including staff from the MOE and MFLNRO, experienced herbicide treatment contractors and representatives from the Stó:lō and Tsawwassen First Nations. Washington State officials will also be on-site to provide technical advice and the use of their airboats to enable better access to the treatment sites. The first application was conducted with the WA airboats in August with three days of application on Roberts Bank and one day at Mud Bay in Boundary Bay. All targeted cordgrass plants will be located using GPS and flagged. Monitoring plots will be established prior to treatment.

The joint collaboration of British Columbia – Washington scientists towards a common goal to control and eradicate Spartina, which has involved scientific consultations as well as in-field sharing of equipment and expertise, has been invaluable in guiding and implementing the B.C. program. It further illustrates the importance of scientific research and dissemination of results to foster effective management of estuarine and coastal areas. In the Pacific Northwest, PERS and CERF, have, and will continue to have, important roles in promoting a better understanding and management of our Pacific Northwest estuaries.

“When the tide is out, the table is set”: Fostering Improved Dialogue between PERS, CERF and the First Nations

One observation during my term on the CERF Governing Board is the unique relationship between estuarine and coastal scientists and the First Nations that exists within the Pacific Northwest. Within PERS, the Tribes (e.g. WA and OR) and First Nations (e.g. B.C.) have had a strong connection with estuaries and coastal areas that is currently recognized legally and reflected in the management of land and resources. Within PERS, estuarine restoration is often jointly conducted and there is ample evidence of First Nation habitation and resource harvesting of fish, shellfish, medicinal plants, and other species, in the archaeological, written, and oral record. PERSians have personal and professional connection to our estuaries and coasts as well, and instituting a more professional dialogue to improve our mutual understanding of estuarine processes will enhance our scientific and management efforts. Perhaps this is something PERS can investigate and incorporate into CERF’s agenda, possibly as a sessional focus for CERF 2015 in Portland.

Applicators spray herbicide at low tide on invasive Spartina anglica clone on Roberts Bank, Fraser River estuary. (Photo courtesy of Rob Knight, Community Mapping Network)

Washington State Departments of Agriculture and Fish and Wildlife bring their airboats to assist B.C. Ministries of Environment and Forest, Lands, and Natural Resource Operations herbicide treatment of Spartina anglica on Roberts Bank, Fraser River estuary. (Photo courtesy of Dan Buffett, Ducks Unlimited Canada)
Since there hasn’t been a NEERS meeting since the last Newsletter, and this is a CERF conference year, there is relatively little news to report. One special event occurred recently to honor the memory of Scott Nixon, who’s passing last year continues to affect many of us. The event called The SWN Symposium: Science Worth Noticing was organized by one of Scott’s former students and former NEERS president Veronica Berounsky.

The symposium was held at the Narragansett Bay Campus of the University of Rhode Island in the very same building as the Nixon Lab. The event attracted scientists and friends from across the country and provided everyone a special reunion. In attendance were several CERF/ERF Presidents - Perry Jefferies, Bob Howarth, Walter Boynton, Candace Oviatt, and incoming President Robert Twilley. Also seen were CERF Student Representative Leanna Heffner, longtime CERF Assistant, Janet Barnes, and AERS President Mark Brush. The symposium presentations were top notch and paralleled many of Scott’s interests and many of the general themes of his lifelong work. A link to the program, including abstracts, can be found at www.gso.uri.edu/swn-symposium.

More photographs from the symposium will be posted in the near future.
GERS News

Ruth H. Carmichael, GERS President
rcarmichael@disl.org

GERS: What’s new?
Congratulations to our incoming officers!

PRESIDENT-ELECT:
Dr. Michael Murrell

SECRETARY-TREASURER
Dr. Tina Miller-Way

MEMBER-AT-LARGE
Dr. Robert McAdory

MEMBER-AT-LARGE
Dr. Janet Nestlerode,

STUDENT REPRESENTATIVE
Allen Aven.

And of course,

PRESIDENT
Dr. Ken Dunton

PAST-PRESIDENT
Dr. Ruth H. Carmichael

Thank you to everyone who voted on our excellent slate of candidates for the GERS 2013-2015 Board. And a very, very big thank you to our outgoing board member, Past President Dr. Ed Buskey and all of the current board members who generously gave their time during the past two years to keep GERS a strong affiliate society. Please join us at CERF 2013 in San Diego for our first business meeting with the new officers. The meeting is scheduled for 6:30 pm on Monday, November 4 right before the Student & Recent Graduate Career Networking Dinner!

Student Travel Awards Update
GERS received eleven complete applications for student travel awards to attend CERF 2013 in San Diego. GERS is pleased to offer five awards of $300 each. Students must attend the GERS business meeting at CERF 2013 to complete their eligibility and accept their award.

Member Update:
The Power of Networking!
Two student members of GERS, Cyndhia Ramatchandirane and Ciara Chambers, visited GERS member Robert McAdory at the Corps of Engineers Coastal and Hydraulics Laboratory in Vicksburg, MS, and gave presentations based on their Masters work at Tulane University. Cyndhia presented a talk titled “New Land Formation in the Chenier Plain, Southwest Louisiana, Over the last Few Decades,” and Ciara’s talk was titled “Sediment Respiration and Nutrient Fluxes in a Developing Deltaic System: The Wax Lake Delta and Atchafalaya River Delta Estuary.” Robert met Cyndhia and Ciara at the GERS meeting last fall at the Dauphin Island Sea Laboratory and invited them to present their work. Cyndhia and Ciara also brought their professor, Dr. Alex Kolker of the Louisiana Universities Marine Consortium, who presented on “Surface and Subsurface Controls on the Hydrology and Geology of the Mississippi River Delta.”

Contact Us
You can follow GERS and northern Gulf of Mexico current events on our website at www.gers.us and Facebook at www.facebook.com/pages/Gulf-Estuarine-Research-Society/243019765739149. 📞

See you in San Diego!

The new GERS President-Elect, Dr. Mike Murrell of the US EPA Gulf Breeze, Florida.
As I sit down to write the latest installment of the AERS News for the upcoming CERF newsletter, I find myself at a pivotal point in my summer that I imagine is fairly typical across the AERS family. Reflecting back on the last three months since spring semester classes ended, my lab group and I have had an intensive and highly rewarding field season (yes even modelers go in the field sometimes!) that has included research by my graduate students, an REU student, and a local high school student. We managed to complete an intensive set of measurements in the York River and surrounding marshes inspired by my late advisor Scott Nixon – a project I have wanted to do for years. And now to the pivotal point – with the work in the rearview mirror, tomorrow I leave with my family on our next trek cross-country to the Black Hills, Yellowstone, Grand Tetons, Craters of the Moon (Idaho), and Great Salt Lake. I can’t wait.

It all ends back east in Rhode Island for a symposium in honor of Scott on what would have been his 70th birthday.

I’m approaching this article differently from past installments, partly because the deadline is fast approaching and my whirlwind summer has left me with little time left to put this together (the deadline will come while I am away), and partly because I covered our most recent meeting – Spring 2013 in Williamsburg, VA – and other recent news in my last article. To be sure my enthusiasm for our society – my AERSadrenaline – remains high as ever after that meeting and with all the exciting preparations for CERF 2013 (including many sessions chaired by AERSians) and our Spring 2014 meeting. So I thought I would offer some announcements in the space below and then leave room for others to contribute.

- As noted above, our Spring 2013 meeting was a huge success. We had 97 attendees, 44 presentations, and seven terrific keynote talks focused on the theme of “Revolutionary Thinking: Historical Reconstructions in Coastal Systems”.

- The Spring 2013 meeting featured a number of firsts, including an amazing combination raffle – silent auction – live auction to support student travel. Thanks to the wonderful generosity of our members, I am pleased to report that we raised $3,574!!! Thanks to Chris Heyer, Jeremy Testa, and Sam Lake for organizing this effort.

- We next meet in San Diego as part of CERF 2013 – please be sure to attend the meeting and keep AERS business flowing smoothly. I promise there will be beverages flowing smoothly…

- Speaking of CERF 2013, AERS needs to field its team for the inaugural CERF Bowl … I am currently seeking nominations (self or otherwise).

- AERS loves to support students! As usual, we will be providing a number of travel awards to help student members attend CERF 2013.

- AERS wants to offer a special congratulations to two of its (formerly) student members who do lots of heavy lifting for the society: Jeremy Testa (Student Rep, Program Committee, Auction) and Sam Lake (Program Committee, Auction) successfully defended their dissertations this past spring. Congrats Dr. Testa and Dr. Lake!!!

- And finally plans are well underway for the Spring 2014 meeting. Read Judith Stribling’s accompanying article for more information.

Spring 2014 Meeting

Judith Stribling, Honorary Membership Committee Chair & Spring 2013 Meeting Chair

“Back to the Future: Ecological Synthesis and Data Integration to Address Current and Emerging Issues in Coastal Science.”

We will meet at the Carousel Hotel in Ocean City, MD, from March 6-8.

The meeting organizing committee consists of Judith Stribling (local host), Frank Reilly, Danielle Kreeger, Ben Fertig (Program Chair), and Dave Wilson and Carol Cain of the Maryland Coastal Bays Program.

Our thematic focus is to transition from the historical perspective of the spring 2013 meeting to a future-oriented synoptic approach, emphasizing estuarine data infrastructures and integration.

AERS needs to field a team for the inaugural CERF Bowl! Contact AERS President Mark Brush at brush@vims.edu for more information.
Silent Auction Results:
A Day in the Field

Lora Harris, AERS Member-at-Large

AERS President, Dr. Mark Brush, offered one day of his service at the spring AERS silent auction to raise money for the graduate student travel fund. The laboratory of Dr. Lora Harris was the delighted winning bidder and put Mark to work on the Chesapeake Bay collecting field data in support of a modeling effort. A costume was supplied (with collaboration from CERF President Walter Boynton’s lab), complete with YSI sonde-saber and secchi disk shield. We call this his “Princess Leia Anemone” look and believe this affirms his career choice in modeling. Both photos were taken by my student, Jessica Foley. It was a great day!

Get Social with CERF and AERS

Ben Fertig, AERS Program Chair & CERF Social Media Volunteer

The online presence for CERF and AERS is taking shape and you are invited to join in the conversation! With over 700 likes for the main CERF page and 160 likes for the CERF Students page, social media is enhancing the online presence of our society. So keep in touch, be in the know, and join the CERF, CERF Students, and AERS social media networks and encourage your colleagues to do the same. Help us spread the word, share news and post photos, and build community with hashtags such as #CERF2013, #CERFstudents, #AERS, etc., or by mentioning (@) us with @CERFScience.

Like us on Facebook!

CERF
(www.facebook.com/CERF.Estuaries.Coasts)
CERF Students
(www.facebook.com/CERFstudents)
AERS
(www.facebook.com/groups/78046897225/)

Follow us on Twitter @CERFScience.

Save the date! SEERS will be holding its next spring meeting February 13 - 15, 2014 in beautiful and charming downtown Savannah. See the SEERS website, www.SEERS.org for coming updates. And don’t forget — annual SEERS membership fees are due by the spring meeting each year.

SEERS will not be hosting a fall meeting, so our members can attend the CERF conference in San Diego. We hope for a great turnout of SEERS members at CERF 2013.

SEERS is pleased to offer $500 travel awards to four SEERS students who will be presenting at the CERF conference: Megan Riley (University of South Carolina), Michelle Reed (College of Charleston), Nathan Gavin, (University of North Carolina, Wilmington), and Wet “Sam” Yuan (University of Central Florida). Keep an eye on these up-and-comers.

Upcoming Affiliate Society Meetings

Affiliate Society meetings will be held concurrently on Monday, November 4 from 6:30 – 7:30 pm at the CERF 2013 conference in San Diego, California. Details regarding individual meetings will be published in the conference program book and posted to the conference website at www.sgmeet.com/cerf2013.

Links to individual Affiliate Society websites can also be found on the CERF website at www.erf.org.

See you in San Diego!
2013 ACCESS MEETING

We held the 2013 ACCESS Meeting 9-11 May at the Centre of Geographic Sciences (COGS), Nova Scotia Community College, Lawrencetown, Nova Scotia. The welcoming social held on Thursday gave attendees a chance to start viewing the 22 poster presentations. In the following two days we packed in 34 talks and a field trip!

Oral presentations began on Friday with a Special Symposium on “Advances in Mapping Techniques for the Coastal Zone” organized by Tim Webster and colleagues at COGS. The symposium opened with a keynote talk by Dr. John Brock of the US Geological Survey’s Coastal and Marine Geology Program, on “Establishing the USA Coastal National Elevation Dataset for Science and Resource Management.” Other talks in the symposium presented by Craig Brown (McGregor GeoScience Ltd.), Chelsea Smith and Gavin Manson (Geological Survey of Canada), David Cairns (Department of Fisheries and Oceans Canada), David MacLean, Candace MacDonald, Nathan Crowell, Tim Webster (COGS), and Jeffrey Barrell (Dalhousie University) covered mapping of rockweeds, eelgrass salt marshes and an atlas of marine waters of the east coast of North America.

On Saturday we had another special session on “Invasive Green Crabs in Coastal Ecosystems” chaired by Myriam Barbeau and Fonya Irvine. Chris McCarthy (Parks Canada) got the session going with his talk titled “Schooner Crabber Meets the Terminator: Advances in Coastal Restoration at Kejimkujik National Park Seaside.” At the Park people are busy harvesting this invasive to use for bait! Other talks covered impacts of green crabs on eelgrass habitat on the coast of Newfoundland (Kyle Matheson), their predation on lobster postlarvae (Gudjon Sigurdsson) and new approaches to modeling the spread of this invasive (Ali Gharouni).

Student Presentations and Prizes

Student participation grew this year with 18 oral presentations (15 graduate and 3 undergraduate) and 10 poster presentations (7 graduate and 3 undergraduate) by students. As in past years, Hoskins Scientific continued its outstanding support of the ACCESS meeting by providing prizes for the best student presentations. Thank you, Jennie Gouthro and Hoskins Scientific!

The student prize winners were:

- **Best Oral Presentation, Graduate Student, First Place**
  Kristin M Dinning, University of New Brunswick, Saint John (with co-author RR Rochette)
  “Settlement Delay and Growth of Postlarval American Lobsters on Different Substrates, and Juvenile Use of Mud Seafloor”

- **Best Oral Presentation, Graduate Student, Honorable Mention**
  Andrea M Price, McGill University (with coauthor GL Chmura)
  “Can Dinoflagellate cysts be Used to Monitor Eutrophication in Prince Edward Island Estuaries?”

- **Best Oral Presentation, Undergraduate Student, First Place**
  Feng Tang, University of New Brunswick, Saint John (with co-authors RR Rochette, C Martyniuk, K Dinning)
  “Body Condition of Juvenile American Lobsters (Homarus americanus) Living on Cobble and Mud Bottom in Maces Bay, Bay of Fundy”

- **Best Oral Presentation, Undergraduate Student, Honorable Mention**
  Freya Keyser, Acadia University (with co-authors A Redden and J Broome)
  “Riding the Tide is No Bore: Temporal and Spatial Movement Patterns of Striped Bass in the Minas Passage, Bay of Fundy”

- **Best Poster Presentation, Graduate Student, First Place**
  Brady K Quinn, University of New Brunswick, Saint John (with co-author RR Rochette)
  “Potential Effect of Variable Temperatures on Development Time of American Lobster Larvae”

- **Best Poster Presentation, Graduate Student, Honorable Mention**
  Karen Filibe-Dexter, Dalhousie University (with co-author RE Scheibling)
  “Spatial Subsidy Along the Nova Scotia Coast: Use of Drift Kelp by Sea Urchins in the Deep Subtidal Zone”

- **Best Poster Presentation, Undergraduate Student, First Place**
  Amy M McGuire, McGill University (with co-author GL Chmura)
  “Accretion, Sediment, and Pollen Accumulation in Salt Marshes of Douchieboquac National Park and Covehead Bay, PEI”

- **Best Poster Presentation, Undergraduate Student, Honorable Mention**
  Aleatha Lee, University of New Brunswick, Fredericton (with co-authors LK Bursley, MA Barbeau, DW Schneider, N McLeLlan)
  “Patterns in Plant and Invertebrate Densities in a Salt Marsh Restoration Project in Aulac, New Brunswick”
Banquet Presentation & Field Trip
During the dessert at Friday’s banquet our Dr. Raul Ugarte of Acadian Sea Plants spoke on “Sustainable Marine Resource Harvesting” giving us interesting insights into the company’s field and lab operations around the Canadian Maritimes. The next evening, Alan Critchley and colleagues at the Acadian Sea Plants worked overtime to show us around their experimental facility down the road in Cornwallis, Nova Scotia – never knew a single species of fucoid algae could be coaxed to be so colorful (really, yellow, pink,…..). Because Acadian Sea Plants is a world leader in developing new ways to use and grow “seaweeds” we were not allowed to take photos, so you will have to take my word for it.

Thanks to All Who Made the 2013 Meeting a Success
We are grateful for the contributions by the many ACCESS members which helped assure this meeting was a great success. As Program Chair, ACCESS President Melissa Wong (Fisheries and Oceans Canada) organized a great set of sessions. Our meeting host, Tim Webster took his job literally and hosted the keynote speaker at his home! Mike Dowd (Dalhousie University) got the poster session organized as well as the poster quiz to keep everyone on their toes. Dawn Sephton (Fisheries and Oceans Canada) repeated her efforts to build the ACCESS coffers by organizing a silent auction and a raffle. A big thank you to her and all those who contributed items!

Thanks to Candace MacDonald (COGS) for helping with meeting logistics and leading us on the field trip to Acadian Sea Plants – and to the staff there who gave us the fascinating tour.

We appreciate the efforts of Monica Bravo (Fisheries and Oceans Canada) and Alicia Daniel (COGS) who held down the fort at the registration table for us. Our great student participation put student judges in high demand and we all owe gratitude to those who took the time to serve including Myriam Barbeau (University of New Brunswick-Fredericton), Jeffrey Barrell, Mike Dowd, Jon Grant (Dalhousie University), Sean Brillant (Canadian Wildlife Federation), Mark Hanson, Marc Ouellette, Dawn Sephton, Melissa Wong (Fisheries and Oceans Canada), Bruce Hatcher (Cape Breton University), Heather Hunt (University of New Brunswick-Saint John), Arun Jayawardane (Maliseet Nation Conservation Council), Gavin Manson (Geological Survey of Canada), Jeff Ollerhead (Mount Allison University), and Tim Webster (COGS).

CERF News
Sharon Herzka, CAERS President

CERF has an outstanding record of providing career development opportunities for students and early career scientists. In particular, the Federation’s biennial conference provides an excellent forum for students to present and discuss their research, a platform for networking, and the opportunity to participate in workshops and various social activities. The exceptional scientific quality of the conference provides an ideal environment for a young researcher to be immersed in the field of estuarine and coastal science. One of our main goals as an affiliate society is to provide our student members with career development opportunities. The biennial meeting in San Diego takes place in our own backyard, and CAERS will be covering the registration fee for ten of our student members who will be giving oral or poster presentations. A brief description of four of the students presentations is included below. The remaining six student presentations that CAERS is supporting at CERF 2013 will be included in the winter newsletter. I look forward to seeing our members (past, present and future) at the CAERS business meeting that will be held during the CERF conference. Martha Sutula (Southern California Coastal Water Research Project, or SCCWRP, Southern California Coastal Water Research Project) will take office as the President of CAERS for 2014-2015 and she will be holding elections for other positions as CAERS officers. We are looking for volunteers, including student representatives!

continued on page 34

“CERF has an outstanding record of providing career development opportunities for students and early career scientists.”

—Sharon Herzka, CAERS President
CAERS News

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“Validating a method of otolith microchemistry to identify water-mass associations of larval fish in an upwelling region”

Presented by: Sarah Wheeler
(oral presentation)

I am a student of Dr. Todd Anderson’s in the Joint Doctoral Program in Ecology with San Diego State University and the University of California, Davis. My research interests include larval ecology, oceanography and marine chemistry. As part of my dissertation, I am exploring how biological and oceanographic factors, such as food availability and upwelling-relaxation cycles, influence the condition, settlement and survival of juvenile rockfishes (Sebastes spp). To achieve this goal, I am validating a method of otolith microchemistry analysis to evaluate larval movement among upwelling and relaxation water masses during the process of settlement.

“Biological and physiological condition of juvenile California halibut (Paralichthys californicus) exposed to a contamination gradient in Mission Bay, CA.”

Presented by: Kevin Stolzenbach
(oral presentation)

I am in the M.S. Program in Marine Science, University of San Diego working under Ron Kaufmann. My work focuses on sublethal effects of environmental contamination on juvenile California halibut. I’m studying this relationship across a gradient of sediment contamination in Mission Bay, San Diego, CA, an important nursery area for this species. Elevated concentrations of metals, PAHs, and pesticides have been measured in the back bay, which receives input from three creeks that drain urban watersheds. Integrating the sediment chemistry with the physiological responses of fish caught at six different sites over a full year will provide insight into how the metabolism of the fish is affected by exposure to a contamination gradient over a complete annual cycle. This work aims to create a baseline for further monitoring efforts utilizing biomarkers on this commercially important species.

“Nitrogen and chlorophyll a flux between a restored tidal wetland and an adjacent bay in Suisun Marsh”

Presented by: Shannon Strong
(post presentation)

Graduate Program in Marine Biology at San Francisco State University, Co-Advisors: Alexander Parker and Frances Wilkerson. Over 100,000 acres of tidal wetlands once surrounded the San Francisco Estuary (SFE). About 5% of these marshes remain today. A suite of ecological services, including improved water quality, was likely lost, as wetlands were lost. In June 2013, we began a study at a restored wetland in the Northern SFE to test the hypothesis that wetlands act as sinks for dissolved inorganic nutrients and are organic matter sources (i.e. chlorophyll-a) for higher trophic levels. Preliminary time series results at the entrance to the wetland, showed elevated nutrient concentrations during flood compared to ebb tides. This suggests that processes within the marsh act to decrease nutrients. Results from this study should assist decisions in future wetland restoration projects.
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Many thanks to the members who joined or renewed at the Sustaining Member level. Your extra efforts on behalf of CERF will ensure the future of the Federation.

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“Thank you so much for this honor. *Estuaries and Coasts* is a wonderful journal, and I love doing my part to ensure that wording and procedures are clear. Also, I have had the pleasure of reviewing several really good submissions, which speaks to your efforts in making the journal a top-rated target for research publication.”

—DR. KEN KRAUSS

**DR. KEN KRAUSS**
Research Ecologist
National Wetlands Ecosystem Center
U.S. Geological Survey
Lafayette, LA

The Coastal and Estuarine Research Federation publishes the scholarly journal *Estuaries and Coasts*, six times per year. The following table of contents is for the fifth issue for 2013. It is reprinted here as a service to Newsletter readers and is also online at [www.springer.com/CERF](http://www.springer.com/CERF).

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**Volume 36**, September 2013, Number 5

A Modeling and Field Approach to Identify Essential Fish Habitat for Juvenile Bay Whiff (*Citharichthys spiloterus*) and Southern Flounder (*Paralichthys lethostigma*) Within the Aransas Bay Complex, TX. Bridgette F. Froeschke, Gregory W. Stunz, Megan M. Reese Robillard, Jason Williams, John T. Froeschke; 881-892.

**Nursery Function Drives Temporal Patterns in Fish Assemblage Structure in Four Tropical Estuaries.** Marcus Sheaves, Ross Johnston, Ashlee Johnson, Ronald Baker, Rod M. Connolly; 893-905.

**A Comparison of Otolith Geochemistry and Stable Isotope Markers to Track Fish Movement: Describing Estuarine Ingress by Larval and Post-larval Halibut.** F. Joel Fodrie, Sharon Z. Herzka; 906-917.


**Influence of Intra- and Interspecific Interactions on Short-term Movement of the Amphipod Corophium volutator in Varying Environmental Conditions.** David Drolet, Michael R. S. Coffin, Myriam A. Barbeau, Diana J. Hamilton; 940-950.

**Variation in Estuarine Consumer Communities Along An Assessed Eutrophication Gradient: Implications for Trophic Instability.** Scott E. Burghart, David L. Jones, Ernst B. Peebles; 951-965.

**Anthropogenic Nutrient Sources Supplied to a Chesapeake Bay Tributary Support Algal Growth: A Bioassay and High-Resolution Mass Spectrometry Approach.** Lynn Killberg-Thorsson, Rachel E. Sipler, Deborah A. Bronk; 966-980.

**Factors Controlling Phytoplankton Biomass in a Subtropical Coastal Lagoon: Relative Scales of Influence.** Nicole Dix, Edward Philips, Peter Suscy; 981-996.

**The Influence of Hydromorphological Stressors on Estuarine Vegetation Indicators.** María Recio, Bárbara Ondiviela, Araceli Puente, Cristina Galván; 997-1005.

**Relative Impacts of Natural Stressors on Life History Traits Underlying Resilience of Intertidal Eelgrass (Zostera marina L.).** Sylvia Yang, Elizabeth E. Wheat, Micah J. Horwith, Jennifer L. Ruesink; 1006-1013.

Using Long-Term Census Data to Inform Restoration Methods for Coastal Dune Vegetation. Eloise S. Gornish, Thomas E. Miller; 1014-1023.

**Biofilms and Size Sorting of Fine Sediment During Erosion in Intertidal Sands.** Jessica C. Garwood, Paul S. Hill, Brent A. Law; 1024-1036.

**Influence of Two Tropical Storms on the Residual Flow in a Subtropical Tidal Inlet.** Amy F. Waterhouse, Bilge Tutak, Arnoldo Valle-Levinson, Y. Peter Sheng; 1037-1053.

**Spatial and Temporal Variability of the CO2 Fluxes in a Tropical, Highly Urbanized Estuary.** Carlos E. D. Noriega, Moacyr Araujo, Nathalie Lefèvre; 1054-1072.

**Dark Carbon Fixation in the Columbia River’s Estuarine Turbidity Maxima: Molecular Characterization of Red-Type cbbL Genes and Measurement of DIC Uptake Rates in Response to Added Electron Donors.** S. L. Bräuer, K. Krantzler, N. Goodson, D. Murphy; 1073-1083.


**Nutrients and Abiotic Stress Interact to Control Ergot Plant Disease in a SW Atlantic Salt Marsh.** Pedro Daleo, Juan Alberti, Jesus Pascual, Oscar Irizarbe; 1093-1097.
**CERF Membership Form 2014**

Membership forms received before September 1 are for the current year; those received on or after September 1 will be applied to the following year unless otherwise requested. Please note that the first issue of the journal is available in January.

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- ☐ Biogeochemistry
- ☐ Biology (Invertebrates)
- ☐ Biology (Microrganisms)
- ☐ Biology (Plants)
- ☐ Biology (Vertebrates)
- ☐ Chemistry
- ☐ Climate Change
- ☐ Ecology
- ☐ Education & Outreach
- ☐ Engineering
- ☐ Environmental Economics
- ☐ Environmental Policy/ Resource Mgt.
- ☐ Fisheries
- ☐ Geochemistry
- ☐ Geology
- ☐ GIS & Remote Sensing
- ☐ Harmful Algal Blooms
- ☐ Invasive Species
- ☐ Marine Policy
- ☐ Modeling
- ☐ Nutrient Cycling
- ☐ Oceanography (Biological)
- ☐ Oceanography (Chemical)
- ☐ Oceanography (Geological)
- ☐ Oceanography (Physical)
- ☐ Physics
- ☐ Pollution
- ☐ Restoration
- ☐ Toxicology
- ☐ Watersheds
- ☐ Wetlands
- ☐ I am willing to become involved in advising policy makers.

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### Employment

- ☐ Educational Institution
- ☐ Regional/Local Govt.
- ☐ Non-Profit/NGO
- ☐ Consulting/Business
- ☐ Other

### Duties

- ☐ Mainly research
- ☐ Research & teaching
- ☐ Management
- ☐ Mainly teaching

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CERF 2013
San Diego, California
3-7 November 2013

Toward Resilient Coasts and Estuaries, Science for Sustainable Solutions

Early Registration Deadline: 3 October 2013

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