



# Waterways

Coasts, Oceans, Ports, and Rivers Institute of the American Society of Civil Engineers

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Spring 2008

## PRESIDENT'S COLUMN

### COPRI Members Rise Above; Institute Aims to Serve



Many of the northern states have experienced one of the worst winters in years. Recent rain and the melt from heavy snow earlier this season have caused serious flooding on some of the rivers. Extreme weather events are expected to increase as the world's atmosphere warms. Sea level rise and more intense storms due to global

warming are expected to increasingly impact our coastal regions. COPRI recognizes these challenges and provides a place for engineers and other professionals to better understand and create solutions to these problems.

In just a few weeks, COPRI will hold the third Solutions to Coastal Disasters Conference in Hawaii to exchange the latest information for understanding and responding to these threats. I urge you to attend this timely and important program. See the related article for more information about the program, registration and sponsorship opportunities. Also in this newsletter is an interview with COPRI Governing Board member Lesley Ewing about the implications of sea level rise to coastal engineering and coastal management. I want to

*continued on page 7*

### Sea Level Rise: Implications to Coastal Engineering and Coastal Management

*An interview with Lesley Ewing, P.E., M.ASCE*

**WATERWAYS:** The earth has gone through various periods of sea level rise and decline. What is unique about current trends in sea level rise?

**LESLEY EWING:** It's true that global sea level has been mostly rising since the end of the last ice age about 18,000 years ago. The rate of rise has varied and for short periods of time, such as the Little Ice Age, sea level has even dropped. What is of concern now is the acceleration in sea level rise that started around 1850 with the dawn of the industrial revolution and its steadily increasing emission of greenhouse gasses. The Intergovernmental Panel on Climate Change (IPCC) documents in its Fourth Assessment Report (2007) that the rate of sea level rise for the 3000 years before the industrial revolution averaged only between 0.1 and 0.2 mm/yr, while the rate has increased to 1.8 ± 0.5 mm/yr when averaged over the more recent period from 1961 to 2003.

**WW:** Can you tell us more about future trends in sea level?

**L.E.:** Over the past century, global temperature has increased about 0.6°C and mean sea level has risen by 15 to 18 cm globally. State-of-the-art climate models predict that global temperature may rise by 1°C to 5°C over the next 100 years. There is a large uncertainty in these estimates and even greater

*continued on page 2*

## COPRI Governing Board

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## Highlights

Member Spotlight: Thomas Borrowman.....	2
Documentary Examines Port of L.A. ....	3
Committee Updates.....	4
Solutions to Coastal Disasters Nears .....	6

★ MEMBER SPOTLIGHT

## ASCE, Engineers Week Honor Thomas Borrowman as New Face



Each year as part of National Engineers Week, the American Society of Civil Engineers highlights the professional contributions of civil engineers, recognizing in a special way the efforts of young engineers. This year, the Society selected 10 individuals, including Thomas Borrowman, a member of ASCE's Coasts, Oceans, Ports and Rivers Institute.

Borrowman also was recognized by his employer, the U.S. Army Corps of Engineers, as an honoree during National Engineers Week February 17-23. The national New Faces Program highlights the interesting and unique work of young engineers and the resulting impact on society. Engineers two to five years out of school are nominated for the recognition by Engineers Week sponsoring societies.

Borrowman said Engineers Week and the accompanying recognition programs are important because the engineering profession is one of internship and apprenticeship and that means that young engineers are dependent on those who are more experienced and advanced to guide them. Recognizing young engineers reinforces that relationship, Borrowman said, and makes it visible.

"Young engineers are essential to the profession since there has to be a constant stream of engineers at all career levels to maintain the body of knowledge of the profession...being recognized by ASCE and E-Week as a New Face of Engineering is therefore a humbling and exciting honor," he said.

Borrowman has been a member of ASCE for 12 years, since he joined as a freshman at the University of Utah, and a COPRI member since his first project at the Army Engineer Research and Development Center (ERDC). His first COPRI-related engineering project dealt with dredged material management and cohesive sediment erosion in ports and coastal areas. Borrowman said he has always been involved in ASCE and joining COPRI seemed to be the next logical step professionally.

"I'm a firm believer in professional societies and networking with colleagues," he said. "Through ASCE, I've gained a voice in the profession that I feel very strongly about as a member and a Branch president."

Being a part of ASCE also has allowed Borrowman exposure to some very talented and inspiring engineers of all career levels.

Borrowman's work with USACE involves coastal sediment erodibility in estuarine environments and resuspension as a

*continued on page 7*

## Interview: Lesley Ewing *continued from page 1*

uncertainty about the sea level response; however, there is strong certainty that a future rise in global temperature will be accompanied by a rise in sea level. Future changes in global sea level will depend, among other factors, upon: future global temperature; lag between atmospheric changes and oceanic reactions; thermal expansion of water; and, effects of atmospheric temperature on changes in Antarctica, Greenland and other glaciers. The IPCC projects that mean sea levels will rise by between 0.2 and 0.6 meters during this century.

**WW:** What are the consequences of sea-level rise?

**L.E.:** The most obvious consequence of a large rise in sea level will be changes in areas that are submerged. Lands that now are only wet at high tide could be wet most of the day. Structures that are built above the water, like docks and piers, will be closer to the water, or eventually submerged. A second consequence will be an increase in wave energy since wave energy is a function of the square of wave height and wave height is strongly influenced by water depth.

**WW:** How should we respond to sea level rises?

**L.E.:** The responses to a rise in sea level will vary. It is likely that rises will necessitate both hard-engineering and soft-engineering solutions. Hard-engineering solutions such as seawalls, revetments, breakwaters and levees would likely be applied to individual properties. Soft-engineering solutions such as beach nourishment, vegetated buffers, accommodation and adaptation strategies and retreat are likely to be used on larger, multi-lot scale.

**WW:** How, specifically, are states addressing sea-level rise?

**L.E.:** Few states have passed special regulations to address sea level rise. Instead, most states have coastal programs that address sea level rise as an ongoing coastal condition and they modify or adapt current regulatory mechanisms to cover the effects of sea level rise. Texas has a rolling easement program that relocates the public land boundary to the current line of vegetation. States like South and North Carolina and Massachusetts have prohibited the construction of any hard shoreline armoring. This limits the responses that can be used to address sea level rise to soft engineering, accommodation and retreat. Maine has regulations that prohibit rebuilding structures that have been damaged by storms if the new structure could reasonably be expected to be damaged within the next 100 years. This regulation covers damage from sea level rise or other hazards.

**WW:** What role do you see for coastal engineers and planners in addressing sea-level rise?

**L.E.:** Sustainability and integrated coastal management are part

*continued on page 7*

## National Geographic to Take Viewers Inside Port Operations

On April 6 at 10 p.m. EDT, the National Geographic Channel will air a new eight-part series taking viewers inside operations at the Port of Los Angeles. The Port encompasses 7500 acres, 43 miles of waterfront and features 27 cargo terminals, including dry and liquid bulk, container, breakbulk, automobile and omni facilities.

Under the guidance of Executive Director Geraldine Knatz, PhD, the Port of Los Angeles is the nation's largest port. Operations account for 1.1 million jobs in California and 3.3 million jobs in the United States. As many as 918,000 Southern California jobs—or one in every eight jobs—are connected directly or indirectly to Port of Los Angeles operations, cargo trade, or business and workforce spending. In trade value, the Port accounts for \$89.2 billion in California and \$223 billion in the U.S. In 2007, the Port of LA led the nation's ports in container volume with a rate of 8.4 million TEUs (twenty-foot equivalent units).

The show, produced by Original Productions Executive Director Thom Beers for the National Geographic Channel, will take viewers inside the port's high-tech control rooms, onboard a ship with port pilot Michael Rubino and even into the hull of a ship with U.S. Customs Port Director Todd Hoffman. Knatz, the Port's first female director in its 100-year history, figures prominently into the docudrama.

After its Sunday evening premier, America's Port will air the next seven consecutive Mondays at 10 p.m. EDT on the National Geographic Channel. ■

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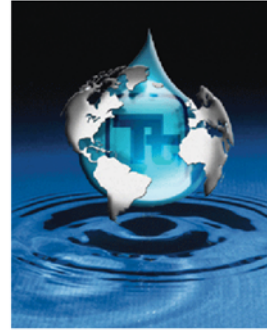
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## KNOW SOMEONE not receiving *Waterways*?

Do you know someone who is not receiving their quarterly issue of *Waterways*? If so, please send an email to [copri@asce.org](mailto:copri@asce.org) with the member's mailing and email address. Feel free to invite them to visit [www.asce.org/myprofile](http://www.asce.org/myprofile) (or call 800-548-2723) to verify and/or update their contact information today! Past versions of *Waterways* are available online in the COPRI news section at

<http://www.coprinstitute.org/news/newsarchives.cfm>.

Please help us help you to receive all your membership benefits by keeping your contact information current.

## Committees Sail into Spring with Flurry of Activity



**PUBLICATIONS:** Under the guidance of Vijay Panchang, the *Journal of Waterway, Port, Coastal and Ocean Engineering* has had a phenomenal year. Panchang, a member of the editorial committee for more than a decade and executive editor since 2005, received the 2007 Richard R. Torrens Award in February. Panchang has served as head of the Department of

Marine Engineering Technology at Texas A&M University at Galveston since 2002.

"I am honored and thrilled that my efforts on behalf of this prestigious journal and this hard-working and highly-regarded community have been regarded as notable," Panchang said. "This is indeed a complex job, and I hope I have not offended anyone in the sometimes adverse and difficult decisions I've had to take. I am truly grateful to my colleagues on the editorial board for their cooperation without whose help my task would be impossible. I've got to give credit where it is due—a lot of the glory goes to them."

The Richard R. Torrens Award was created to honor the memory of Richard Torrens, who served the Publications Department for 17 years and was Manager of Professional and Technical Publications. The award is made in recognition of Torrens' distinguished service and honors volunteer journal editors who have made outstanding contributions to the ASCE journals' program.

Guillaume Defoortrie, Marc Vantoree, Ellada Verzhbitskaya, Kristien Seynaeve are the recipients of this year's Arthur M. Wellington Prize for their contribution to the Journal. This year's winning paper, "Evaluation of Safety of Navigation in Muddy Areas through Real-Time Maneuvering Simulation," was published in the March/April 2007 issue of the Journal.

**PORTS AND HARBORS:** On April 24 and 25, the Ports and Harbors Committee will gather at the Port of Oakland for its semi-annual meeting, which will include three continuing education sessions. Members will hear a presentation by Glenn J. Rix about Georgia Tech's research on seismic effects on docks and container cranes, a presentation by Dakota Chamberlain on the Port of Seattle's experience with facility audits and a special presentation by the Port of Oakland.

In Chairman Stan White's experience, the committee's willingness to work together for the betterment of COPRI have been amazing. "This has provided a forum whereby the work product of the task committees is excellent and extremely relevant to our industry," he said.

**ENGINEER DIVER STANDARDS COMMITTEE:** The committee will soon begin the second ballot on its draft of a new Engineer-Diver Standard. If the ballot passes, the draft standard will be released to ASCE's Codes and Standards Committee for formal review and public comment. Although the standard was approved during an initial ballot process, the Committee decided to continue revising the draft standard to further address the suggestions and negative comments received during the ballot process.

Goals of the new standard are: to provide minimum training criteria that commercial dive schools can use to develop a specialized certification program; to improve the level of safety for individuals engaged in underwater investigations as defined by SPM No. 101 by standardizing the minimum acceptable levels of diver training across the industry; to recognize the importance and need for apprenticeship and/or "on-the-job" training to develop specialized skills required for engineers and scientists to perform underwater investigations safely and effectively.

**COASTAL STRUCTURES:** The Chairmanship of the Coastal Structures Committee has passed from Orville Magoon to Nobu Kobayashi. Orville has made a significant contribution through the former Rubble Mound Structures Committee over past decades, says Kobayashi. Last year the Coastal Structures Committee co-sponsored Coastal Structures 2007 in collaboration with IAHR-Maritime Section. Coastal Structures 2011 will be held in Japan and organized by the Coastal and Ocean Engineering Committees of the Japan Society of Civil Engineers. The Coastal Structures Committee is planning to form task committees to work on timely topics such as resilient coastal structure design and asset management of coastal structures. Please contact Nobu Kobayashi (nk@coastal.udel.edu) to volunteer. ■

### NEW COPRI Merchandise Available!

COPRI is pleased to announce the arrival of new shirts, travel mugs, task lists, and more. Get these items while they're hot. There's nothing better than a new COPRI travel mug with a hot beverage on a cold, winter's day.

Visit the COPRI web site for more information on these products. Items also can be purchased by contacting COPRI directly at (703) 295-6370 or by e-mail at [copri@asce.org](mailto:copri@asce.org).

## Inductees selected for 2008 Hall of Fame

*Nineteen authors of nine influential papers to be honored*

For the third year, the Coasts, Oceans, Ports and Rivers Institute (COPRI) of the American Society of Civil Engineers (ASCE) will honor the Offshore Technology Conference (OTC) papers that set the standard for current practices worldwide and have become an integral part of the offshore design process as well as lending themselves to other civil engineering disciplines.

Since its inception nearly 40 years ago, the OTC has provided the industry with outstanding papers that have shaped our world. Many of these papers offer innovation, vision, direction and lasting impact on design, construction or installation within the offshore industry. Since 2006, COPRI and ASCE have honored those papers at the Hall of Fame Gala Dinner. This year's celebration will be Tuesday May 6 at the Petroleum Club in Houston.

This year, nine papers will be inducted into the ASCE OTC Hall of Fame. The authors, whose papers address wave forces and characteristics, ice forces on inlet structures, measurement of ocean sediment strength, oscillations of a moored object, welded joints, tubular joints and soil mechanics and driven piles, will be recognized at the Gala. A commemorative edition featuring the 2008 honored papers will be published by ASCE.

**To order tickets for this prestigious event, contact COPRI at 703-295-6370 or [jmoulton@asce.org](mailto:jmoulton@asce.org).**

Information can also be found on the COPRI website at [www.coprinstitute.org](http://www.coprinstitute.org). Sponsorship opportunities are still available. Contact us now for more information and make plans to be at the Petroleum Club at 7 p.m. May 6.

THIS YEAR'S HONORED PAPERS ARE:

**OTC Paper 1190 – C. Petrauskas and P. M. Aagaard**  
*Extrapolation of Historical Storm Data for Estimating Design Wave Heights*

**OTC Paper 1261– K. A. Blenkarn**  
*Measurement and Analysis of Ice Forces on Cook Inlet Structures*

**OTC Paper 1327– E. H. Doyle, B. McClelland, and G. H. Ferguson**  
*Wire-Line Vane Probe for Deep Penetration Measurements of Ocean Sediment Strength*

**OTC Paper 1500 – G.F.M. Remery and A.J. Hermans**  
*The Slow Drift Oscillations of a Moored Object in Random Seas*

**OTC Paper 2942 – R.C. Kirby and C.P. Wroth**  
*Application of Critical State Soil Mechanics to the Prediction of Axial Capacity for Driven Piles in Clay*

**OTC Paper 3229 – E.G. Ward, L.E. Borgman, V.J. Cardone**  
*Statistics of Hurricane Waves in the Gulf of Mexico*

**OTC Paper 3380 – P.H. Wirsching**  
*Fatigue Reliability in Welded Joints of Offshore Structures*

**OTC Paper 3690 – J.A. Yura, N. Zettlemoyer and I.F. Edwards**

*Ultimate Capacity Equations for Tubular Joints*

**OTC Paper 3951– L.J.A. Pinkster**  
*Mean and Low Frequency Wave Forces on Semi-Submersibles* ■

### COPRI Committee Chairs

**Awards:** James E. Spady, P.E., M. ASCE - [jspady@clarknexsen.com](mailto:jspady@clarknexsen.com)

#### Coastal Engineering Practice:

Linda Lillycrop - [linda.s.lillycrop@usace.army.mil](mailto:linda.s.lillycrop@usace.army.mil)

Tony Risko, P.E., M. ASCE - [ajrisko@pbsj.com](mailto:ajrisko@pbsj.com)

#### Coastal Engineering Research Council:

Robert Dalrymple, Ph.D., P.E., F. ASCE - [rad@jhu.edu](mailto:rad@jhu.edu)

#### Coastal Structures:

Nobu Kobayashi, Ph.D., P.E., M. ASCE - [nk@coastal.udel.edu](mailto:nk@coastal.udel.edu)

#### Coastal Zone Management:

Heather Schlosser - [Heather.R.Schlosser@usace.army.mil](mailto:Heather.R.Schlosser@usace.army.mil)

**Education:** Martin Eskijian, P.E., M. ASCE - [ESKIJIM@slc.ca.gov](mailto:ESKIJIM@slc.ca.gov)

**Membership:** Kurt Keifer, A.M. ASCE - [KKeifer@ctlgroup.com](mailto:KKeifer@ctlgroup.com)

**Military Programs:** Jim Marino, P.E., M. ASCE - [jnm44@earthlink.net](mailto:jnm44@earthlink.net)

#### Ocean and Offshore Engineering:

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**Policy:** Charles Calhoun, P.E., F. ASCE - [ccalhoun@cablelynx.com](mailto:ccalhoun@cablelynx.com)

**Ports & Harbors:** Stanley White, P.E., M. ASCE - [swhite@ocean-coastal.com](mailto:swhite@ocean-coastal.com)

**Publications:** Vijay Panchang, Ph.D., P.E., M. ASCE - [panchanv@tamu.edu](mailto:panchanv@tamu.edu)

**Tidal Hydraulics Committee:** Andrew Kennedy, A.M. ASCE - [Kennedy@coastal.ufl.edu](mailto:Kennedy@coastal.ufl.edu)

**Waterways:** Michael Cox - [Michael.D.Cox@mvr02.usace.army.mil](mailto:Michael.D.Cox@mvr02.usace.army.mil)

#### Wetlands and Sediment Management:

Dominic Izzo, P.E., F. ASCE - [dizzo@exponent.com](mailto:dizzo@exponent.com)

## PIANC Events of Interest to COPRI Community

### Save the Date: PIANC USA Annual Meeting July 15, 2008

This Alexandria, Va., meeting will include an update on PIANC USA activities, reports from international working groups and a presentation by the 2008 De Paepe-Willems Award winner. Additional details will be available soon.

### 2009 De Paepe-Willems Award Contest Call for Papers

The deadline for submitting paper abstracts for the 2009 contest is May 1, 2008, with technical paper submittals required by August 1, 2008.

The U.S. winner receives a \$1000 savings bond, an expense-paid trip to the 2009 PIANC USA Annual Meeting, and an individual membership in PIANC USA for five years. The winning paper will also be included in the international contest.

The De Paepe-Willems Award is given by PIANC for the most outstanding technical paper on an aspect of waterborne transport. Candidates must not have reached the age of 40 by the December 31st of the paper contest year. Visit the International PIANC website for preparation information at <http://www.pianc-aipcn.org/>. Inquiries can be directed to Edmond Russo at [edmond.j.russo@usace.army.mil](mailto:edmond.j.russo@usace.army.mil) or by telephone at (601) 634-2067.

### Hurricane Preparedness, Response, Recovery & Rebuilding November 2008

PIANC USA is organizing a conference entitled The Gulf Coast Hurricane Preparedness, Response, Recovery & Rebuilding to: learn from recent hurricane experiences and challenges;

Conference information will be posted at [www.pianc.us](http://www.pianc.us) ■

## Summer 2008 Certification in Tsunami Science and Preparedness

Professional Certification in Tsunami Science and Preparedness will be awarded to graduates of a program offered 16–27 June 2008 by the University of Washington Extension (UWE) and the U.S. National Oceanic and Atmospheric Administration (NOAA). The certification program consists of three courses providing overviews of tsunami hazard assessment, tsunami warning systems and tsunami resilient communities.

Designed for planners, policy makers, emergency managers, scientists, and engineers, the curriculum trains professionals to develop, establish and maintain tsunami warning and preparedness systems at national, regional and local community levels. For more information on this certificate program visit. If you have questions, please call 206-685-8936 in the greater Seattle area or 1-800-543-2320, or e-mail [tsunami@extn.washington.edu](mailto:tsunami@extn.washington.edu) ■

## Solutions to Coastal Disasters to Encourage Problem Solving in Unique Environment



Exciting plenary speakers, four diverse and groundbreaking conference tracks and a chance to examine coastal issues in Hawaii make it the perfect time to download your registration form at [www.coprinstitute.com](http://www.coprinstitute.com) and fax it in today. This conference was scheduled in Hawaii because of its progressive coastal hazard planning and preparation efforts.

Four program tracks at the Solutions to Coastal Disasters 2008 conference will consider key aspects of coastal management, with each track focusing on recent research in that area. Coastal structure vulnerability will be considered in the first track along with sea-level rise and wave climate change. Track II will address tsunami issues such as planning and preparation, numerical modeling and field experiments, building design and social sciences. Track III topics include flood mapping, storm surge, cyclones and inundation, flooding and marine facilities. Track IV will include discussions on shoreline retreat, beach nourishment and hazard mitigation.

Margaret Davidson, the Director of the NOAA Coastal Services Center, will share her expertise with participants in a talk on "Coastal Community Resilience: From Extremes to Waterwings."

Discussion will transition to sea-level rise and thoughts on local impacts in a talk provided by Dr. Charles "Chip" Fletcher of the University of Hawaii at Manoa. Fletcher currently serves as chair of the Department of Geology and Geophysics and teaches courses in physical geology, paleoclimate and coastal geology. His research interests include carbonate sedimentology, natural history of reefs, beach processes and coastal hazards.

Two of the biggest problems we face as engineers and scientists are 1) the effective communication of our knowledge to the public and 2) incorporating our knowledge in public policy. During the closing plenary session, Dennis J. Hwang, JD, of Reinwald O'Connor & Playdon will speak on "Key Concepts for Implementing Science in the Decisions of the Community."

Hwang aims to help scientists, planners, government agencies and political leaders to avoid the common pitfalls in implementing their hazard mitigation programs.

The Coasts, Oceans, Ports and Rivers Institute is pleased to welcome its sponsors to the 2008 conference. Silver sponsors include: FEMA, URS and the Hawaii Department of Land and Natural Resources. Bronze sponsors include Tetra Tech, Dewberry, Zephyr Insurance Company, Inc. and the USC Sea Grant Program. Additional sponsors are welcome.

For more information, contact Louise Wallendorf at [lou@usna.edu](mailto:lou@usna.edu). ■

## Interview: Lesley Ewing *continued from page 2*

of a new trend in coastal management that offer opportunities to address many future coastal concerns, especially sea-level rise. Engineering and planning solutions that are based upon any fixed water level will have great difficulty maintaining effectiveness during a period of rising sea level. The principles of sustainability and reliance upon multiple adaptive responses to the array of changing coastal conditions can provide many useful approaches for dealing with future changes in sea level. Coastal engineers and planners will increasingly need to do their work within, and be leaders of, such integrated, sustainable and holistic efforts.

*Lesley Ewing, P.E., M.ASCE, serves as the ASCE representative on the COPRI Board of Governors. She is an engineer for the California Coastal Commission and is enrolled in a graduate program at the University of Southern California. Her research of sea level rise was recently contributed to the World Scientific Handbook on Coastal and Ocean Engineering. The handbook, edited by Dr. Young C. Kim, P.E., PhD, M.ASCE, is currently under review. ■*

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## President's Column *continued from page 1*

commend Lesley for her leadership on this issue and for her many contributions to COPRI, such as being co-chair for the Solutions to Coastal Disasters conference organizing committee and chair of a task committee that recently completed a draft business plan for a coastal engineering certification program. We are now working with ASCE's Civil Engineering Certification, Inc., to establish this post-licensing credential program.

While I'm on the topic of recognition, **I want to remind everyone that the deadline for submitting Project Excellence Award nominations is April 1.** I also want to extend my congratulations to COPRI Past-President Gordon Sterling who was selected to receive a prestigious Offshore Technology Conference Heritage Award, which honors him for "championing Shell Oil Company's deepwater ventures in the Gulf of Mexico" and for his leadership of the Offshore Technology Conference (OTC). The efforts of COPRI members are critical to the institute's success, and recognition is the most important way for us to say thank you. Please read the articles highlighting the many accomplishments of, and plaudits for, COPRI members.

Thomas Borrowman, a COPRI member and ASCE Branch President in Vicksburg, MS, was one of 10 younger engineers honored during National Engineers Week's New Faces campaign. (Keep smiling, Thomas!) The COPRI Governing Board has identified the engagement of younger professional as a major strategic issue, and we commend the University of Southern California Sea Grant Program (USC Sea Grant) for sponsoring one-half of the registration fee for students taking the short courses being offered during the upcoming Solutions

## Member Spotlight *continued from page 2*

result of dredging activities in coastal environments. A great deal of his work involves contaminated sediments.

As a COPRI member, Borrowman hopes to see the Institute do more in the future to gather young engineers together to share experiences and reflect on lessons learned. At ERDC, Borrowman said, there aren't a large number of peers at a similar career level. He said he would love to see COPRI bring together engineers at a similar career level in a forum that will allow them to talk, learn and share. If COPRI can bring people in the field together, in any learning environment, such as conferences, workshops, lectures, that is a great service to its younger members.

Locally, Borrowman said, the Vicksburg ASCE Chapter celebrated Young Engineers Week with a speech on levees in the Sacramento metro area and the Sacramento River Delta by Brigadier General John McMahan, USACE South Pacific Division Commander. During the week, volunteers from ASCE and other cooperating societies made presentations in high school math and science classes in the Vicksburg and Jackson, MS areas about careers in engineering.

Borrowman earned his BS in Civil Engineering from the University of Utah in 1999 and began pursuing a master's degree with an emphasis in water resources. His adviser urged him to consider dredging resuspension for his thesis. His research experiences helped make him a good fit for ERDC and led to a specialization in sediment erosion. When he is not at work or volunteering for ASCE, Borrowman enjoys tennis and spending time at the beach. ■

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to Coastal Disasters conference. I encourage younger members (under 40) to read the article about the 2009 De Paep-Williams Award being offered by the PIANC and consider submitting a paper.

COPRI members also make a significant contributions to the financial health of the institute through their dues and voluntary contributions. If you haven't already paid your 2008 dues, I urge you to do it soon and consider making an additional voluntary contribution. To date, COPRI has received almost \$6000 in voluntary contributions! Organizational membership is a great way for your organization to boost COPRI's ability to serve its membership and the public. The current roster of organizational members is listed on page 3. Please consider how your organization can increase its engagement with the institute.

On behalf of the COPRI Governing Board, I want to thank all members for making COPRI a rewarding place for like-minded professionals. Please engage me, other Governing Board members, committee chairs or staff to learn more about what's happening in COPRI, get involved or give us suggestions for making it better. The COPRI Governing Board will meet on April 17 and welcomes your input before the meeting; just write to [copri@asce.org](mailto:copri@asce.org). Enjoy the Spring! ■

## Become a COPRI Member Today!

If you are not already a COPRI member, we invite you to be a member of the Coasts, Oceans, Ports and Rivers Institute. Becoming a member of this Institute is an excellent way to keep current in your field, enhance your professional skills and network with other specialists in the discipline. You can also join the various committees, which will allow you to actively develop key technical, professional and educational issues of COPRI. Please visit

<http://www.coprinstitute.org/membership/>

or contact Jennifer Moulton at [jmoulton@asce.org](mailto:jmoulton@asce.org) or (703) 295-6370.

## Mark Your Calendar 2008

- April 13–16 **Solutions to Coastal Disasters 2008**, Oahu, Hawaii
- May 5–8 **Offshore Technology Conference 2008**, Houston, Texas
- May 6 **7 p.m., ASCE OTC Hall of Fame Gala Dinner**, Petroleum Club, Houston, Texas
- June 15–20 **OffshoreMechanics and and Arctic Engineers (OMAE 2008)**, Estoril, Portugal
- August 31–September 5 **International Conference on Coastal Engineering 2008**, Hamburg, Germany
- November **PIANC Annual Meeting: Gulf Coast Hurricane Preparedness, Response, Recovery and Rebuilding**, Mobile, Alabama

For more industry events visit [www.coprinstitute.org/conferences](http://www.coprinstitute.org/conferences)



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