



Waterways

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

volume 7, issue 1

spring 2007

President's Message

Stephen A. Curtis, P.E.

COPRI is excited about and looking forward to a busy spring season. Beginning in March, with the Ports™ 2007 Conference in San Diego, the Institute will host three specialty conferences, a black tie dinner and numerous committee activities.

First up is Ports™ 2007, which will be held March 25-28 at the La Costa Resort. The 2007 conference celebrates 30 years of Ports™ conferences, which bring together professionals from around the globe to network, exchange ideas, debate points of view and learn about the latest advancements in technology. Facilities and supporting infrastructure development is undergoing significant changes and challenges in response to the ever-changing trade, environmental, economic and political conditions around the globe. This event is the premiere venue for those involved in coastal, offshore, port and waterways planning, design, development, management or construction.

Several COPRI committees and subcommittees will take advantage of their time at Ports™ to meet face-to-face to discuss current endeavors and upcoming initiatives. The COPRI Governing Board and the Ports & Harbors Committee will also hold their annual Spring meetings on Wednesday and Thursday, respectively, of the conference week.

In late April, the Institute will switch focus to the offshore industry, as COPRI serves as the ASCE arm of the Offshore Technology Conference (OTC). The subcommittee on Offshore



continued on page 7

Inductees Selected for 2007 Hall of Fame

For the second year in a row COPRI and ASCE will honor papers presented at past Offshore Technology Conferences with induction into the ASCE OTC Hall of Fame. Since its beginning, more than 35 years ago, the Offshore Technology Conference (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 the design, construction or installation of the offshore infrastructure.

Last year ASCE and COPRI began honoring extraordinary papers presented at past conferences that have withstood the test of time and still today hold relevance.

Nine papers have been selected for this honor in 2007 focusing on topics such as: long-term wave probabilities, stress concentration in tubular joints, foundation design, fixed structures, deepwater offshore platforms, probabilistic fatigue, offshore gravity structures, the upper bound method, wave return periods, and improved linearization technique for frequency domain riser analysis. These papers, still today set the standard for current practices worldwide.

The authors will be recognized at the dinner, May 1, 2007 at the Petroleum Club in Houston. A commemorative edition featuring the nine papers honored in 2007 will be published by ASCE. The book will be available at the gala dinner and for sale by ASCE in May 2007.

To order tickets to this prestigious event please contact Lesa Rair at 703-295-6370 or lrair@asce.org. Information can also be found on the COPRI website at www.coprinstitute.org.



continued on page 4

COPRI Governing Board

Stephen A. Curtis, P.E.
President
Steve.Curtis@tteci.com

James A. Blanchar, P.E.
Vice President
jblanchar@aol.com

Billy Edge, Ph.D., P.E.
Past President
b-edge@tamu.edu

Gordon H. Sterling
Past President
redikop@aol.com

David Kriebel, P.E.
Secretary
kriebel@usna.edu

John R. Headland, P.E.
Treasurer
jheadland@moffattnichol.com

Lesly Ewing, P.E.
ASCE Representative
lewing@coastal.ca.gov

Highlights

Legislative Spotlight	2
Organizational Members	3
Conferences.....	6



Legislative Spotlight

Federal Judge Restricts Corps-EPA Regulation of Dredged Material

February 2, 2007

A federal district judge in Washington, D.C., has struck down a regulation issued by the U.S. Army Corps of Engineers and the Environmental Protection Agency that prohibited minor discharges of dredged material into wetlands and other waters of the United States.

The Corps and EPA adopted a regulation in 2001 that banned the discharge of "incidental fallback" during dredging operations under a permit issued under the Clean Water Act. The 2001 regulation replaced a 1993 regulation that itself was voided by federal courts as being beyond the jurisdiction of the Act. The new rule was an attempt by the corps and EPA to refine their definition of what constituted incidental fallback following the courts' decisions to void the "Tulloch rule."

The 2001 regulation defined "incidental fallback" partly in terms of the volume of material that may not be "discharged" during its removal from U.S. waters. The rule described incidental fallback as having "a small volume." But the test is whether the dredged material returns to the excavation area at some point after it is moved away from the removal site, not how much accidentally falls back during the actual removal, said Judge James Robertson this week.

"Conceivably, the operator of a shovel removing 500 tons of dirt could accidentally drop all 500 tons back to the earth without redepositing [a pollutant]," the judge ruled. "In determining whether fallback is incidental—i.e., not an addition—the volume of material being handled is irrelevant. The difference between incidental fallback and redeposit is better understood in terms of...the time the material is held before being dropped to earth and...the distance between the place where the material is collected and the place where it is dropped."

The decision represents a victory for homebuilders, who have been fighting the Corps and EPA over the regulation of incidental fallback since the Clinton administration in 1993 first prohibited the deliberate or accidental release of even very small amounts of material into the water during normal dredging operations.

President Bush's \$2.9 trillion budget proposal released on Monday shows a balanced budget by 2012 while making his tax cuts permanent. Under the plan, a \$239 billion fiscal 2008 deficit would quickly shrink and become a \$61 billion surplus in fiscal 2012.

This report is written by the ASCE Government Relations Department staff. If you have any questions or comments about items in this report please contact govwash@asce.org. ■

A Civil Engineering Review of the President's FY2008 Budget Request

February 9, 2007

This is an abridged version of the ASCE Government Relations Report, to view the full report please see the electronic version of the newsletter at www.coprinstitute.org

President Bush's \$2.9 trillion budget proposal released on Monday shows a balanced budget by 2012 while making his tax cuts permanent. Under the plan, a \$239 billion fiscal 2008 deficit would quickly shrink and become a \$61 billion surplus in fiscal 2012.

President's Budget Shows Spending Cuts for Environmental Protection Agency

The fiscal year 2008 budget reduces spending for the Environmental Protection Agency, with the bulk of the proposed cuts directed toward the popular Clean Water Act wastewater infrastructure program. EPA would receive \$7.1 billion, a \$500 million cut compared with fiscal 2006 funding, and an \$800 million reduction below fiscal 2005 funding.

The Clean Water State Revolving Loan Fund would get \$688 million in fiscal 2008, a drop of about \$412 million from the fiscal 2007 spending plan pending in the Senate. The Bush proposal includes \$842 million for the Drinking Water State Revolving Loan Fund, which compares with \$838 million expected for fiscal 2007.

Superfund spending also would be reduced to a proposed level of \$1.24 billion in FY 2008, down from the \$1.25 billion from the pending FY 2007 spending proposal.

Administration Seeks New Fees for Inland Waterway Infrastructure

The fiscal year 2008 budget proposes new user fees to finance improvements to the nation's inland waterways, but some believe the extra expense would cause shippers to shift their cargo to the nation's already clogged highway and rail systems.

The user-fee proposal is part of the Army Corps of Engineers' fiscal 2008 budget request. Commercial barges that travel on inland waterways currently pay a 20-cent-per-gallon diesel fuel tax into the Inland Waterways Trust Fund, but Corps officials say revenue has not kept up with demand for waterways improvement.

continued on page 6

Make A Voluntary Contribution

Voluntary contributions to COPRI enable us to continue to expand and re-energize our programs. At COPRI, we are dedicated to being good stewards of your donations and we stretch every penny to make sure that your generous contribution is being put to good use. Your voluntary contribution will be used to fund new initiatives that are meaningful to the COPRI community.

Your voluntary Contribution helps:

- Funding for Ground-breaking Continuing Education Seminars
- Support Innovative Conferences
- Subsidize Costs for Local Group Outreach
- Help Underwrite New Committee Projects or Special Initiatives
- Seed Funding for New Committees

To make a voluntary contribution please contact us at 1-888-548-ASCE(2723). ■

Organizational Members

Sustaining Organizational Member

- Tetra Tech, Inc.

Supporting Organizational Members

- Great Lakes Dredge & Dock Company
- Institute for Water Resources
- Parsons Brinckerhoff

Organizational Members

- Blasland, Bouck & Lee, Inc.
- Manson Construction Company
- Moffatt & Nichol Engineering
- MWH Americas Inc.
- Ocean and Coastal Consultants
- Ocean Facilities Program NAVFAC
- U.S. Army Engineer Research and Development Center
- Waterway Surveys & Engineering

Want a Complimentary Exhibit Space at a COPRI Conference?

Sign up your company today at the **Sustaining Organizational Member level**, or upgrade your current Organizational Membership to receive a complimentary exhibit space at *Coastal Sediments 2007* or *Ports™ 2007*. Visit www.coprinstitute.org for more information or contact Lesa Rair at 703-295-6370 or lrair@asce.org.

FEATURED ORGANIZATIONAL MEMBERS



**Dredging
Worldwide**
www.gldd.com

Institute for Water Resources



US Army Corps
of Engineers.



7701 Telegraph Road
Alexandria, Virginia 22315-3868
(703) 428-8015 (Voice)
(703) 428-8171 (Fax)
<http://www.iwr.usace.army.mil>



Marina, Coastal & Harbor Engineering
Wetlands Restoration & Mitigation
Port Planning & Design

MOFFATT & NICHOL

creative people.
practical solutions.

www.moffattnichol.com
Offices in Major US Cities
and Canada

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 with the member's mailing and email address. Feel free to invite them to visit 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.

Billy Edge Awarded Civilian Service Medal



COPRI Past-President Billy Edge, Ph.D., P.E. was the recipient of the Outstanding Civilian Service Medal, the third highest honor the Army can bestow upon a civilian. Edge received the award for his commitment and

contribution as a member of the ASCE External Review Panel (ERP), which provided independent and objective review of the Hurricane Katrina Interagency Performance Evaluation Task Force (IPET).

IPET was established by the Chief of the U.S. Army Corps of Engineers following Hurricane Katrina to provide a comprehensive analysis to determine precisely what happened in the New Orleans hurricane and flood protection system during the storm. The task force is populated with some of the nations leading engineers and scientists from government agencies, academia and private industry.

ASCE's External Review Panel was established to validate the facts uncovered by IPET. Edge, the Bauer Professor and head of the Texas A&M University Coastal and Ocean Engineering Division in the Zachary Department of Civil Engineering, was responsible for reviewing and enhancing the IPET regional and high-resolution hydrodynamics scopes of work, reviewing the progress during the execution of the work, and reviewing the interim and final IPET reports.

Edged was presented the award by Assistant Secretary of the U.S. Army Corps of Civil Works Paul Woodley Jr. and Chief of the U.S. Army Corps of Engineers Lt. Gen. Carl A. Strock. ■

Hall of Fame Inductees *continued from page 1*

Honored papers and authors:

Paper 1590 (1972) H.O. Jahns and J.D. Wheeler
Long-Term Wave Probabilities Based on Hindcasting of Sever Storms

Paper 2205 (1975) J.G. Kuang, A.B. Potvin and R.D. Leick
Stress Concentration in Tubular Joints

Paper 2370 (1975) L. M. Kraft, Jr. and J.D. Murff
A Probabilistic Investigation of Foundation Design for Offshore Gravity Structures

Paper 2371 (1975) A.G. Young, L.M. Kraft, Jr. and J.A. Focht, Jr.
Geotechnical Consideration in Foundation Design for Offshore Gravity Structures

Paper 2608 (1976) J.H. Vughts and R.K. Kinra
Probabilistic Fatigue Analysis of Fixed Structures

Paper 2688 (1976) L.D. Finn
A New Deepwater Offshore Platform – The Guyed Tower

Paper 2896 (1977) J.D. Murff and T.W. Miller
Stability of Offshore Gravity Structures by the Upper Bound Method

Paper 3230 (1978) R.E. Haring and J.C. Heideman
Gulf of Mexico Rare Wave Return Periods

Paper 3777 (1980) L.P. Krolkowski and T.A. Gay
An Improved Linearization Technique for Frequency Domain Riser Analysis ■

Order Your COPRI Merchandise Today!

Now you can show your support for your favorite Institute by proudly wearing the COPRI logo! Great for holiday gifts, COPRI is pleased to offer an array of merchandise all bearing the COPRI logo including mugs, note cards and embroidered polo shirts. Please visit www.coprinstitute.org or call 703-295-6370 for size availability and ordering instructions.



Deepwater Infrastructure Forum (DIF) Holds First Meeting of 2007

On March 6, 2007 the Deepwater Infrastructure Forum held their first meeting of 2007. The meeting focused on Walk-about Drilling Rigs – Lessons Learned.

During hurricanes in the recent years, including Ivan and Katrina, drilling rigs on floating platforms have moved off their platforms in the Gulf of Mexico. In some cases, this movement has resulted in damage to or loss of the drilling rig, in addition to damage to the platforms topsides.

This meeting was designed as an interactive forum to provide an overview of industry experience with drilling rig movement during the hurricanes and to sketch the path forward towards design of improved tie-down devices for future use.

The 42 participants heard from speakers Skip Ward, Associate Director of the Offshore Technology Research Center (OTRC), which is housed at Texas A&M University; Dave Knoll, currently assigned to Shell International Exploration and Production and served as Project Manager for the Mars Recovery Project ;and Randy Abadie, employed by Shell Exploration and Production Co. in New Orleans, LA where he serves as the Offshore Structures Technical Authority for Shell EP Americas.

The objective of the Deepwater Infrastructure Forum, which meets quarterly in Houston, is to: transfer knowledge, generate discussion and create an environment for networking, relationship building and professional development. ■

COPRI Teams Up With EWRI to support Estuaries Conference

In mid-December COPRI and the Environmental and Water Resources Institute (EWRI) of ASCE joined together as Supporters of the Restore America's Estuaries 3rd National Conference. The conference which ran December 9-13 in New Orleans saw 1,400 participants from around the world.

COPRI and EWRI were one of the more than 140 exhibitors in attendance at the conference, which was the largest gathering of public, private and non-profit interests working to restore our nation's coasts to date. There were over 82 sessions and 175 poster presentations. The Wetlands and Sediment Management Committee worked diligently over the last year to put on a session at the conference entitled *Where Is the Beneficial Use of Dredged Material (BUDM) for Estuarine Habitat Restoration Going? Successes, Challenges, Lessons Learned, and Future Needs.*

The committee also held a thank you reception during the conference to recognize the presenters from the session. The event was sponsored by COPRI, LEAP Engineering, Exponent, The Woods Hole Group and Volkert & Associates.

This was the Institute's first time being involved with the conference which featured 82 sessions that explored the aspects of habitat restoration, from planning and design to monitoring and evaluation, as well as from science and practice to partnerships and community involvement.

The conference put on by Restore America's Estuaries, a non-profit organization that leads a national alliance of 11 community-based conservation organizations from the East, West and Gulf coasts, was Climate-Positive and resulted in a net reduction in atmospheric carbon. The organization's mission is to preserve the nation's network of estuaries by protecting and restoring the lands and waters essential to the richness and diversity of coastal life. ■

COPRI Committee Chairs

Awards: James E. Spady - jkspady@cox.net

Coastal Engineering Research Council:
Robert Dalrymple, Ph.D., P.E., F. ASCE - rad@jhu.edu

Coastal Structures:
Dave Werren - dwerren@baird.com

Coastal Zone Management:
Heather Schlosser - heather.r.schlosser@usace.army.mil

Membership: Bradd R. Schwichtenberg -
Bradd.R.Schwichtenberg@saj02.usace.army.mil

Military Programs: Jim Marino, P.E. - jmarino@moffatnichol.com

Ocean and Offshore Engineering:
Patrick J. Hudson, Ph.D., P.E. - phudson@usna.edu

Policy: Charles Calhoun, P.E. - ccalhoun@canufly.com

Ports & Harbors: Stanley White, P.E. - swhite@ocean-coastal.com

Publications: Vijay Panchang, Ph.D. - panchanv@tamug.tamu.edu

Tidal Hydraulics Committee
Andrew Kennedy - Kennedy@coastal.ufl.edu

Waterways: Nicholas Pansic, P.E. - Nicholas.Pansic@mwhglobal.com

Wetlands and Sediment Management:
Dominic Izzo, P.E. - dominic.izzo@dmjmharris.com

Sponsor & Exhibit

Coastal Sediments 2007

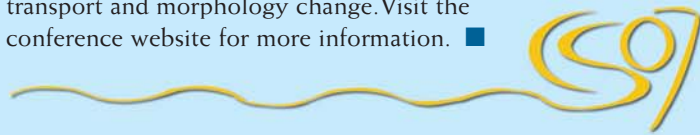
**“Coastal Engineering and Science
in Cascading Spatial and Temporal Scales”**

**SPONSORSHIP AND EXHIBITING
OPPORTUNITIES AVAILABLE
REGISTRATION OPEN!**

May 13-17, 2007, New Orleans, Louisiana

www.asce.org/conferences/cs07/index.cfm

Sponsorship opportunities and Exhibit space is available for this technical specialty conference for coastal engineers, geologists, marine scientists, shallow water oceanographers, and others interested in the physical processes of coastal sediment transport and morphology change. Visit the conference website for more information. ■



Coastal Structures 2007

July 2-4, 2007, Venice, Italy

www.cst07.corila.it/

The only comprehensive conference on coastal structures highlights the significant advancements in coastal structure innovation, design and construction. Coastal Structures 2007 will be held in conjunction with the IAHR 2007 Conference in Venice Italy. ■

Save the Date

ASCE OTC Hall of Fame Gala Dinner

May 1, 2007, Houston, TX

www.coprinstitute.org

Many of the papers presented throughout OTC's history have provided the industry with innovation, vision, direction and lasting impact on the design, construction or installation of the offshore infrastructure. To honor a select few of the outstanding civil engineering papers, many of which form the core of current practice throughout the world, ASCE has initiated the *ASCE OTC Hall of Fame*. For the second year in a row a gala dinner will be held in conjunction with OTC (April 30-May 3) to honor the authors of those selected papers. ■



ASCE®

Legislative Spotlight *continued from page 2*

"In a very few years, the trust fund will be exhausted," said John Paul Woodley Jr., assistant secretary of the Army for civil works.

Details on the structure of the new fees are not expected until this spring. But Rep. James Oberstar (D-MN), chairman of the House Transportation and Infrastructure Committee, said he fears the new fees would create a "further disincentive to [using] the nation's rivers to move cargo."

Bush's budget would provide \$4.8 billion for the Army Corps' civil works division, about nine percent less than the \$5.3 billion funding in fiscal year 2006, the last year Congress enacted a full budget for the Corps. The budget for FY 2007 is contained in a trimmed down continuing resolution that calls for spending at the FY 2006 level.

National Institute of Standards and Technology—The budget request is \$640.7 million, a 21% increase over the current FY 2007 appropriations plan. Included in this amount is \$535 million for the core laboratory program which includes codes and standards work as well as building and infrastructure related research. This is an increase of \$104 million over FY 2007 after removing earmarks.

Among the NIST highlights of interest to ASCE:

Disaster Resilient Structures and Communities: (\$4 million)—In its press release NIST notes that the program was based on a 2005 National Institute of Building Sciences study found that a dollar spent on hazard mitigation saves society an average of \$4, with positive benefit-cost ratios for all hazard types studied. The release goes on to say that disaster resilience of our physical infrastructure and communities today is determined in large measure by the building codes standards and practices used when they were built. With few exceptions these legacy codes, standards, and practices—which have evolved over several decades—are oversimplified and inconsistent with current risk assessments. As construction and rebuilding costs continue to rise, there is increasing recognition of the need to move from response and recovery to proactively identifying and mitigating hazards that pose the greatest threats.

The program is described by NIST as working to develop:

- Standard methods to predict losses, evaluate disaster resilience, and estimate cost-to-benefit of risk management strategies at the community and regional scales as opposed to the individual building scale;
- Decision support tools to modernize codes, standards, and practices consistent with the risk;
- A validated "computational wind tunnel" for predicting extreme wind effects on structures; and
- Risk-based storm surge maps for the design of structures in coastal regions and an improved hurricane intensity classification scale.

National Earthquake Hazards Reduction Program (NEHRP) (+\$3.25 million)—for the first time ever, the budget request includes a line item for NEHRP. In 2005, NIST took over leadership

continued on page 7

President's Message *continued from page 1*

Technology Support, comprised of COPRI's Ocean and Offshore Engineering Committee members, works diligently every year to help fulfill ASCE OTC program requirements.

Again this year, COPRI will host the ASCE OTC Hall of Fame Gala Dinner. This dinner honors extraordinary papers presented 30 or more years ago at past OTC events. This year's dinner will be the second year of the Hall of Fame. The papers honored at the dinner have withstood the test of time and remain relevant, 30 years or more after their first publication.

Later in May, COPRI will host the Coastal Sediments 2007 Conference in New Orleans. From May 13-17 coastal engineers, geologists, marine scientists, shallow-water oceanographers and others will meet in this international forum for the exchange of information. The 2007 conference is the sixth in the series, which began in 1977.

COPRI has also recently adopted a strategic plan for furthering our mission through the Institute's staff, Governing Board, administrative and technical committees, as well as, general membership. The strategic plan places an emphasis on increasing the number and diversity of our members; expanding educational outreach; and enhancing informational dissemination within and beyond COPRI. Highlighted here are some key points of the new strategic plan developed by the COPRI Governing Board, Council of Committee Chairs and Institute staff:

Membership: COPRI presently has 3,289 members, with a goal to increase the number of student and individual active members by 10% by the end of fiscal year 2010.

Education: Objectives call for furthering educational

opportunities for existing COPRI members, as well as fostering K-12 outreach.

Technical Expertise: COPRI plans to increase the number and quality of sponsored conferences, symposiums, workshops, and webinars. By September 30, 2007; the need for, cost and process of coastal engineering certification will be explored and documented by Institute's coastal committees for review by the Governing Board.

Image: The Strategic Plan includes a "continuous-renewal" process through which COPRI will evaluate existing committees, ongoing policies, awards, and membership requirements to ensure that the Institute supports its members and related technical communities.

In addition to the COPRI upcoming activities and events, I want to remind you of the ASCE sponsored OPAL awards event on the evening of April 25, 2007 in Washington DC. This OPAL awards are our professional industry's annual "Red Carpet" event honoring outstanding civil engineering projects and the achievements of civil engineering leaders. I urge you all to consider attending and participating in the gala activities of this award event.

Additional information about the upcoming conferences and to view the complete strategic plan, please visit the COPRI website at www.coprinstitute.org.

As you can see it is sure to be a busy and exciting spring season here at COPRI. and we look forward to seeing many of you at the upcoming conferences and events. Any members who will be attending, please come find me and introduce yourself, so I can personally thank you for your dedication to and work efforts on behalf of COPRI. For those unable to attend the upcoming events, as please feel free to contact me by either email or phone. Have a healthy, safe and prosperous spring season! ■

Legislative Spotlight *continued from page 6*

responsibilities from the Federal Emergency Management Agency for NEHRP but has not received any appropriations to carry out its role. In its press release, NIST noted that at the proposed funding level, NIST will:

- Identify implementation gaps between basic research results and design guidance and national model building code provisions;
- Develop rational cost-effective, consensus-based seismic design and analysis procedures for use in national model building codes;
- Design guidelines for the testing and design of major structural systems;
- Characterize fully the seismic capacities of typical older building structural components and systems as they are built; and
- Develop structural performance criteria, analytical models, and cost-effective rehabilitation techniques for existing buildings.

Complete details on the NIST budget is available at:

http://www.nist.gov/public_affairs/releases/budget_2008.htm

U.S. Geological Survey

The President has proposed a budget of \$975 million for the U.S. Geological Survey (USGS) for FY 2008. The FY 2008 budget, which continues to focus USGS capabilities on the highest priority research needs, reflects \$16.3 million in program increases and a \$24 million increase in fixed costs, which are offset by \$10.1 million in reductions to lower priority programs. Among the areas of interest to ASCE is a \$1.6 million increase to the geographic hazards budget, a \$4.66 million increase to geologic resources assessments, \$8.1 million increase for water resource investigations including a \$2.1 million increase to the National Streamflow Information Program. Complete details of the USGS budget is available at: <http://www.usgs.gov/budget/2008/2008index.asp>

This report is written by the ASCE Government Relations Department staff. If you have any questions or comments about items in this report please contact govwash@asce.org. ■

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 Lesa Rair at lrair@asce.org or (703) 295-6370.

Mark Your Calendar

- March 25-28 **Ports™ 2007**, San Diego, California
- April 30-May 3 **Offshore Technology Conference**, Houston, Texas
- May 1 **ASCE OTC Hall of Fame Gala Dinner**, Houston, Texas
- May 13-17 **Coastal Sediments 2007**, New Orleans, Louisiana
- July 2-4 **Coastal Structures 2007**, Venice Italy

For more industry events visit www.coprinstitute.org/conferences



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

1801 Alexander Bell Drive
Reston, VA 20191-4400

Postmaster: Return Postage Guaranteed ADDRESS SERVICE REQUESTED