

**PROGRAM**



**COASTS, OCEANS,  
PORTS AND RIVERS  
INSTITUTE**

# Welcome to the Conference on Coastal Engineering Practice



**August 21–24, 2011 ■ Sheraton San Diego Hotel & Marina ■ San Diego, California**

**CONFERENCE**



**Professional  
Development  
Hours  
Earn up to  
28.5 PDHs!**

**Organized by the  
Coasts, Oceans, Ports and Rivers Institute of the  
American Society of Civil Engineers (ASCE)  
In Cooperation with**



# SCHEDULE AT-A-GLANCE

(Subject to change)

Friday, August 19	
1:00 – 5:00 p.m.	Short Course: Coastal Modeling System
Saturday, August 20	
9:00 a.m. – 4:00 p.m.	Short Course: Coastal Modeling System
Sunday, August 21	
7:00 a.m. – 7:00 p.m.	Registration Open
9:00 a.m. – 4:00 p.m.	Short Course: Coastal Modeling System
1:00 p.m. – 4:30 p.m.	Short Course: Coastal Structures
1:30 – 5:30 p.m.	Exhibitor Move-In
5:30 – 6:30 p.m.	Younger Member/Student Member Reception <i>(by invitation only)</i>
6:30 – 8:00 p.m.	<b>ICE BREAKER RECEPTION/EXHIBIT HALL OPENS</b>
Monday, August 22	
7:00 a.m. – 6:00 p.m.	Registration Open
7:15 – 8:00 a.m.	COFFEE IN EXHIBIT HALL
7:15 a.m. – 6:00 p.m.	Exhibit Hours
8:00 – 9:30 a.m.	<b>OPENING PLENARY SESSION</b>
9:30 – 10:00 a.m.	REFRESHMENT BREAK
10:00 – 11:30 a.m.	Concurrent Technical Sessions
11:45 a.m. – 1:15 p.m.	<b>AWARDS LUNCHEON</b>
1:30 – 3:00 p.m.	Concurrent Technical Sessions
3:00 – 3:30 p.m.	REFRESHMENT BREAK <i>Sponsored by: Moffatt &amp; Nichol</i>
3:30 – 5:00 p.m.	Concurrent Technical Sessions
5:00 p.m.	Open Evening (Dinner on Your Own)
Tuesday, August 23	
7:00 a.m. – 7:00 p.m.	Registration Open
7:15 – 8:00 a.m.	COFFEE IN EXHIBIT HALL
7:15 a.m. – 4:00 p.m.	Exhibit Hours
8:00 – 9:30 a.m.	<b>SPECIAL PLENARY SESSION: GLOBAL WARMING AND SEA LEVEL ACCELERATION</b>
9:30 – 10:00 a.m.	REFRESHMENT BREAK
10:00 – 11:30 a.m.	Concurrent Technical Sessions
11:45 a.m. – 1:15 p.m.	<b>LUNCH IN EXHIBIT HALL</b> <i>Sponsored by: Great Lakes Dredge &amp; Dock Company</i>
1:30 – 3:00 p.m.	Concurrent Technical Sessions
3:00 – 3:30 p.m.	REFRESHMENT BREAK <i>Sponsored by: AECOM</i>
3:30 – 5:00 p.m.	Concurrent Technical Sessions
6:00 – 9:00 p.m.	<b>CLOSING RECEPTION</b>
Wednesday, August 24	
7:00 a.m. – 2:00 p.m.	Registration Open
7:15 – 8:00 a.m.	COFFEE IN EXHIBIT HALL
7:15 a.m. – 11:30 a.m.	Exhibit Hours
8:00 – 9:30 a.m.	<b>SPECIAL PLENARY SESSION: REPORT ON 2011 EARTHQUAKE IN JAPAN</b>
9:30 – 10:00 a.m.	REFRESHMENT BREAK
10:00 – 11:30 a.m.	Concurrent Technical Sessions
11:30 a.m. – 4:00 p.m.	Exhibitor Move-Out
1:00 – 3:00 p.m.	Student Career Fair: Speed Networking
1:00 – 4:00 p.m.	TECHNICAL TOUR: Scripps Institution of Oceanography

## Welcome to the Conference on Coastal Engineering Practice 2011

Dear Colleagues,

On behalf of the COPRI Coastal Engineering Practice Committee, welcome to San Diego, California, and thank you for joining us for the Conference on Coastal Engineering Practice. The Steering Committee, speakers, moderators, and ASCE staff have worked diligently to create this exciting Conference.

In addition to the many excellent technical sessions, we invite you to join us Monday morning for the Opening Plenary Session keynote presentation by **Steve Stockton, P.E., F.ASCE**, Director of Civil Works, U.S. Army Corps of Engineers. There will also be special plenary sessions on Tuesday morning with **Robert Dean, Ph.D., P.E., D.CE, Dist.M.ASCE**, of the University of Florida, and **Asbury (Aby) Sallenger, Ph.D.**, of the U.S. Geological Survey, and on Wednesday morning with members of the ASCE and COPRI post-disaster investigation teams presenting their findings from recent trips to the Japanese coast affected by the Tohoku Tsunami.

We hope many of you participated in one of the Short Courses held prior to the Conference: Coastal Modeling System (CMS) and Sustainable Coastal Structures. These courses provided an excellent opportunity to earn additional Professional Development Hours.

Once again, thank you for your participation, and we look forward to a successful Conference on Coastal Engineering Practice.

Regards,



**Orville T. Magoon,**  
Dist.D.CE, Dist.M.ASCE  
Conference Chair



**Ronald M. Noble,**  
P.E., D.CE, D.PE, L.S.,  
F.ASCE  
Conference Co-Chair



**Donald D. Treadwell,**  
Ph.D., P.E., D.CE,  
F.ASCE  
Conference Co-Chair

### STEERING COMMITTEE

#### CHAIR

**Orville T. Magoon,**  
Dist.D.CE, Dist.M.ASCE  
*Coastal Zone Foundation*

#### CO-CHAIRS

**Ronald M. Noble, P.E., D.CE, D.PE,  
L.S., F.ASCE**  
*Noble Consultants, Inc.*

**Donald D. Treadwell, Ph.D., P.E.,  
D.CE, F.ASCE**  
*Consulting Engineer*

### SUBCOMMITTEE CHAIRS

**Young C. Kim, Ph.D., Dist.D.CE,  
M.ASCE, Technical Chair**  
*California State University, Los Angeles*

**Dan Muslin, Local Planning Chair**  
*TEC Inc.*

**Walter F. Crampton, P.E., D.CE,  
M.ASCE, Marketing Chair**  
*TerraCosta Consulting*

### STEERING COMMITTEE SUBCOMMITTEES

#### TECHNICAL SUBCOMMITTEE

**Neal Gruber, P.E., M.ASCE**  
*Black & Veatch Corporation*

**Steve Hughes, Ph.D., P.E., M.ASCE**  
*U.S. Army Engineer Research and  
Development Center*

**Kathy Ketteridge, Ph.D., P.E.,  
M.ASCE**  
*Anchor QEA*



# CONFERENCE INFORMATION

## SHORT COURSES

### Coastal Modeling System (CMS)

**Friday, August 19 – Sunday, August 21**  
**Executive Center Room 4**

**Earn 13.5 PDHs**

**PRESENTERS:** Lihwa Lin; Honghai Li; Mitchell E. Brown; Ashley Frey, S.M.ASCE; Robert Thomas, *Research Hydraulic Engineers, Coastal and Hydraulics Laboratory, Engineering Research and Development Center, U.S. Army Corps of Engineers.*

#### Schedule:

**Friday, August 19, 1:00 – 5:00 p.m.:**  
Introduction to the Coastal Modeling System (CMS). (Beginners)

**Saturday, August 20, 9:00 a.m. – 4:00 p.m.:** Overview and Applications of GenCade. (Beginner thru Advanced)

**Sunday, August 21, 9:00 a.m. – 4:00 p.m.:** Coastal Modeling System Applications for Coastal Engineering Practice. (Intermediate level; must have taken Friday Introduction to CMS and SMS, or have prior CMS/SMS experience).

**Registration Fee: \$425**

### Coastal Structures: Sustainable Coastal Restoration - Adaptive and Structural Solutions

**Sunday, August 21 / Seabreeze**

**1:00 – 4:30 p.m.**

**Earn 3.0 PDHs**

**PRESENTERS:** Joan Pope, Robert Thomas, *U.S. Army Corps of Engineers*

**Registration Fee: \$175**

## GENERAL INFORMATION

### ADA Compliance

The Sheraton San Diego Hotel & Marina is barrier-free in compliance with the Americans with Disabilities Act (ADA). While ASCE/COPRI will make every effort to meet the needs of the physically challenged, accommodations can not be guaranteed without prior notification.

### Conference Proceedings

To pick up your Conference Proceedings, present the ticket you received in your registration package to an ASCE staff member at the Registration Desk. After the Conference, proceedings may be ordered by calling

#### STEERING COMMITTEE SUBCOMMITTEES (CONT.)

##### Ruben Kosyan

*P.P. Shirshov Institute of Oceanology,  
Russian Academy of Sciences*

##### Andrew T. Metzger, Ph.D., P.E., M.ASCE

*University of Alaska Fairbanks*

##### Charles Shabica, Ph.D., P.G., M.ASCE

*Shabica & Associates, Inc.*

##### Nels Sultan, Ph.D., P.E., M.ASCE

*PINID Engineers, Inc.*

#### LOCAL PLANNING SUBCOMMITTEE

##### Tommy Jimenez, A.M.ASCE, M.COPRI, LEED AP

*Fyfe Co. LLC*

##### Robert Walker, PE, A.M.ASCE

*Anchor QEA*

#### MARKETING SUBCOMMITTEE

##### Nabil Ismail, Ph.D., P.E., M.ASCE

*Maritime Academy for Science &  
Technology, Alexandria, Egypt*

##### Alessio Mariani, P.E.

*The University of New South Wales*

##### Thomas Richardson, A.M.ASCE

*Tracy Stofferahn, A.M.ASCE  
Anchor QEA*

#### ASCE STAFF

##### Tom Chase, A.M.ASCE

*COPRI Director*

##### Angie Lander

*COPRI Coordinator*

##### Barbara L. Hickman

*Manager, Conferences & Meeting  
Services*

1-800-548-2723 (US) or 703-295-6300 (International). Or you may order through ASCE's Online Bookstore at [www.asce.org](http://www.asce.org).

### Medical Emergencies

ASCE/COPRI hope your visit to San Diego and the Conference on Coastal Engineering Practice will be free from illness, but in case you or a family member needs medical attention, please observe the following procedures:

- If you become ill at the Sheraton San Diego Hotel & Marina, please contact the Front Desk and tell them you have a medical emergency that requires immediate attention. Guest Services will call 911.
- The closest hospitals are UCSD Medical Center, 200 W. Arbor Drive, 619-543-6222 or 619-543-6400, and Scripps Mercy Hospital, 4077 5<sup>th</sup> Avenue, 619-294-8111.

### Meeting Room Overcrowding

ASCE/COPRI will make every effort to schedule popular topics in rooms large enough to accommodate anticipated attendance. Since some topics may be extremely popular, it is wise to select alternative sessions as you plan your Conference schedule. ASCE/COPRI and Sheraton San Diego Hotel & Marina personnel are REQUIRED to follow local fire regulations and may ask participants in rooms filled to capacity to choose another session.

### Post-Conference Evaluation

An electronic evaluation will be sent out immediately following the Conference to all attendees. Watch your email inbox the week of August 29 for more information.

### Professional Development Hours (PDHs)

**Earn up to 28.5 PDHs!** You may earn Professional Development Hours (PDHs) - nationally recognized units of record - by attending technical sessions and short courses.

Please note there are differences from state to state in continuing education requirements for professional engineering licensure. ASCE follows NCEES guidelines on continuing professional competency. Since continuing education requirements for P.E. license renewal vary from state to state, ASCE strongly recommends that individuals regularly check with their state registration board(s) on their specific continuing education requirements that affect P.E. licensure and the ability to renew licensure. For details on your state's requirements, please visit: [http://www.ncees.org/Licensing\\_boards.php](http://www.ncees.org/Licensing_boards.php).

### Program and Session Cancellation

ASCE/COPRI reserve the right to cancel programs and/or sessions because of low registration. In the unlikely event of a cancellation, all registrants will be notified and will receive full refunds, if applicable. Programs and sessions are subject to change, and ASCE/COPRI reserve the right to substitute a program, session, and/or speaker of equal caliber to fulfill the educational requirements.

### Recording of Sessions

Video or audio recording of any educational session is strictly prohibited without prior written consent from ASCE/COPRI and the session presenter(s).

### Registration Cancellations/Refunds

Cancellations must be sent in writing or via email. A refund would have been issued, minus a \$65 processing fee, only if the cancellation notice was received by ASCE on or before Thursday, July 28, 2011. Please send questions regarding cancellations/refunds to [registrations@asce.org](mailto:registrations@asce.org) or fax to 703-295-6144.

### Release/Waiver

#### Photograph Release:

By submitting the Registration form, you acknowledged release of any photographs that may be incidentally taken of you during these events by ASCE/COPRI to be used for any purpose.

### Liability Waiver:

By submitting the Registration form, you agreed and acknowledged that you were undertaking participation in ASCE/COPRI events and activities at your own free and intentional act, and you were fully aware that possible physical injury might occur as a result of your participation. You gave this acknowledgement freely and knowingly that you were, as a result, able to participate in ASCE/COPRI events, and you assumed responsibility for your own well being. You also agreed not to allow any other individual to participate in your place.

# CONFERENCE HIGHLIGHTS

SUNDAY, AUGUST 21

## ICE BREAKER RECEPTION

6:30 – 8:00 p.m. Harbor Island 2 & 3

Greet old friends and network with new colleagues from the global coastal engineering community!

**Registration Fee:** Additional Tickets: \$70

MONDAY, AUGUST 22

## OPENING PLENARY SESSION

8:00 – 9:30 a.m. Harbor Island 1

### OPENING REMARKS



**Ronald M. Noble, P.E., D.CE, D.PE, L.S., F.ASCE,**  
*Conference Co-Chair,  
Noble Consultants, Inc.*

### WELCOME



**Kathy J. Caldwell, P.E., F.ASCE,**  
*ASCE 2011 President*

### KEYNOTE ADDRESS

## Coastal Engineering and the USACE



**PRESENTER: Steven L. Stockton, P.E., F.ASCE,**  
*Director of Civil Works, Headquarters,  
U.S. Army Corps of Engineers.*

Coastal engineering is integral to several U.S. Army Corps of Engineers (USACE) missions, including navigation, storm damage reduction, and environment and disaster management. The status and trends in USACE coastal engineering-related missions, policies, and research will be highlighted.

## AWARDS LUNCHEON

11:45 a.m. – 1:15 p.m. Harbor Island 1

### KEYNOTE ADDRESS

## Contributions of Robert L. Wiegel



**PRESENTER: Billy Edge, Ph.D., P.E., D.CE., Dist.M.ASCE,**  
*University of North Carolina Coastal  
Studies Institute*

During a 57-year career of teaching, research, and practice, Professor Robert L. Wiegel produced more than 155 publications and 100 technical reports on various phases of coastal and ocean engineering. Dr. Edge will discuss Professor Wiegel's legacy and introduce conference attendees to ASCE's recently published *Civil Engineering Classics, Selected Coastal Engineering Papers of Robert L. Wiegel*, which contains 54 papers and articles highlighting his contributions to the profession.

### Schedule of events:

- Presentation of the 2011 Project Excellence Awards:
  1. Small Project Award: Ocean and Coastal Consultants, Inc., for the Eustacia Island Beach Restoration Project
  2. Large Project Award: Bellingham Marine Industries, Inc., for the St. Paul Small Boat Harbor Project
- ACOPNE Diplomate Induction Ceremony

**Registration Fee:** Additional Tickets: \$65

TUESDAY, AUGUST 23

## SPECIAL PLENARY SESSION

8:00 – 9:30 a.m. Harbor Island 1

## Global Warming and Sea Level Acceleration

**PRESENTERS: Robert Dean, Ph.D., P.E., D. CE, Dist.M.ASCE,**  
*University of Florida; Asbury (Abby) Sallenger, Ph.D., U.S.  
Geological Survey.*

## CLOSING RECEPTION

6:00 – 9:00 p.m. Bayview Lawn, Sheraton San Diego Hotel & Marina

Close out the Conference in grand style on the Bayview Lawn of the Sheraton San Diego Hotel & Marina! Sample tasty California cuisine, watch the boats glide by on the harbor, and make plans to network with your new contacts after the Conference ends.

**Registration Fee:** Additional Tickets: \$70

WEDNESDAY, AUGUST 24

## SPECIAL PLENARY SESSION

8:00 – 9:30 a.m. Harbor Island 1

## Damage Assessment from 2011 Tohoku-Pacific Ocean Earthquake and Tsunami in Japan

**PRESENTERS: Catherine M. Petroff, P.E., M.ASCE,**  
*COPRI-PARI Coastal Structures Field Investigation Team; Martin  
L. Eskijian, P.E., D.P.E., M.ASCE, COPRI-PARI Port Field  
Investigation Team*

## STUDENT PROGRAM

SUNDAY, AUGUST 21

## Younger Member/Student Member Reception

5:30 – 6:30 p.m. Marina 6

Network with students from other universities, ASCE Younger Members, and COPRI Organizational Members at this special event before the Ice Breaker Reception.

WEDNESDAY, AUGUST 24

## Student Career Fair/Speed Networking

1:00 – 3:00 p.m. Nautilus 4-5

Students will have the opportunity to meet with representatives from various companies involved in coastal engineering.

# TECHNICAL PROGRAM

MONDAY, AUGUST 22, 2011

8:00 – 8:30 a.m.

## Opening Plenary Session - Harbor Island I

10:00 – 11:30 a.m.

Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p>Moderator/Session Chair: Donald Treadwell, Ph.D., P.E., D.CE, F.ASCE</p> <p>Operation, Maintenance, and Repair of Coastal Wastewater Outfalls: San Francisco, Boston, Los Angeles County, and San Diego</p> <p>Brian J. Van Weele, P.E., D.WRE, Parsons Brinckerhoff; Donald D. Treadwell, Ph.D., P.E., D.CE, F.ASCE, Consulting Engineer</p>	<p><b>Sustainable Coastal Development</b></p> <p>Moderator/Session Chair: Ronald M. Noble, P.E., L.S., D.CE, D.PE, F.ASCE</p> <p>Sustainable Coastal Development in Response to Natural and Anthropogenic Impacts as well as to Climate Change</p> <p>Ida Broker, Ph.D., Aff.MASCE, Karsten Mangor, DHI</p>	<p><b>Erosion and Shoreline Protection</b></p> <p>Moderator/Session Chair: Young C. Kim, Ph.D., Dist.D.CE, M.ASCE</p> <p>Bluff and Shoreline Stabilization - Avila Beach Drive Emergency Erosion Repair Project</p> <p>Tonu Mets, P.E., D.CE, M.ASCE, URS Corporation</p>	<p><b>Coastal Environment</b></p> <p>Moderator/Session Chair: Billy Edge, Ph.D., P.E., D.CE, Dist.M.ASCE</p> <p>Engineering and Construction of Southern California Lagoons</p> <p>Hany Elwany, Ph.D., M.ASCE, Coastal Environments</p>	<p><b>Coastal Hazards and Risk Management</b></p> <p>Moderator/Session Chair: Lesley Ewing, P.E., D.CE, M.ASCE</p> <p>Application of Coastal Engineering Principles in Response to the Deepwater Horizon Disaster: Lessons Learned in Coastal Alabama</p> <p>Bret Webb, Ph.D., Scott Douglass, Ph.D., P.E., University of South Alabama; Caren Dixon, Beau Buhring, South Coast Engineers</p>
<p><b>Sediment Nourishment at Orchard Beach, Bronx, NY</b></p> <p>Diane Rahoy, David Yang, Ph.D., P.E., Lynn Bocamazo, P.E., Shewen Bian, P.E., Frank Verga, Anthony Ciorra, U.S. Army Corps of Engineers; Bill Tai, Ph.D., New York City Department of Parks and Recreation</p>	<p><b>Sustaining Port Development through Impact Mitigation</b></p> <p>Michael Ludwig, Ocean and Coastal Consultants; Douglas Clarke, Ph.D., Engineering Research &amp; Development Center</p>	<p><b>Geotextile Tube Solution for Dos Bocas PEMEX Marine Facilities Beach Erosion Problem at Tabasco, Mexico</b></p> <p>Felix Tseng, Zoe Lin, ACE Geosynthetics Enterprise Co., Ltd; Alfonso Solis, Axis Ingenieria S.A. de C.V.; Marco Sanchez, ML Ingenieria</p>	<p><b>Numerical Modeling Studies of San Elijo Lagoon Restoration Project</b></p> <p>Weixia Jin, Ph.D., Xiuying Xing, Ph.D., P.E., Chris Webb, Moffatt &amp; Nichol; Doug Gibson, San Elijo Lagoon Conservancy</p>	<p><b>Sea Level Rise Impact Assessment and Mitigation Alternatives Development for Balboa Island and Little Balboa Island, City of Newport Beach, California</b></p> <p>Ying Poon, Ph.D., Everest Consultants, Inc.; Brett Sanders, Ph.D., University of California, Irvine; Randy Manson, P.E., URS Corporation; Robert Stein, P.E., City of Newport Beach</p>
<p><b>Design and Construction of Kaunapau Harbor Breakwater, Island of Lanai, Hawaii</b></p> <p>Scott Sullivan, Sea Engineering, Inc.</p>			<p><b>Hydraulic Effects of Proposed Knik Arm Crossing</b></p> <p>Joseph Colonell, Ph.D., P.E., F.ASCE, ERM-West, Inc.; Phillip Mineart, P.E., Jeanne Gambino, P.E., URS Corporation</p>	<p><b>Estimation of Storm Surge Inundation and Hazard Mapping</b></p> <p>Jae Seol Shim, Ph.D., Jong Joo Yoon, Korea Ocean Research Development Institute</p>

# TECHNICAL PROGRAM

MONDAY, AUGUST 22, 2011

1:30 – 3:00 p.m.

Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p>Moderator/Session Chair: <b>Robert Dean, Ph.D., P.E., D.CE, Dist.-M.ASCE</b></p> <p>Design and Construction of the Lake Borgne Surge Barrier in Response to Hurricane Katrina  <b>Scott Huntsman, Ph.D. P.E., G.E., D.GE., F.ASCE, Shaw Environmental &amp; Infrastructure Group</b></p>	<p><b>Sustainable Coastal Development</b></p> <p>Moderator/Session Chair: <b>Louise Wallendorf, P.E., M.ASCE</b></p> <p>Renewable Ocean Energy  <b>Billy Edge, Ph.D., P.E., D.CE, Dist.M.ASCE, North Carolina State University; Nancy M. White, Ph.D., UNC Coastal Studies Institute</b></p>	<p><b>Erosion and Shoreline Protection</b></p> <p>Moderator/Session Chair: <b>Robert Esenwein</b></p> <p>Determination of Shoreline Evolution: A Case Study  <b>H. Anil Ari Güner, Ph.D., Yalcyn Yuksel, Ph.D., Esin Ozkan Çevik, Ph.D., Yildiz Technical University</b></p>	<p><b>Coastal Environment</b></p> <p>Moderator/Session Chair: <b>Russell H. Boudreau, P.E., D.CE, D.PE, M.ASCE</b></p> <p>Modeling Study of Bacterial Dispersion for Marine-Coastal Waters, According with the European Directives  <b>Isabella Scroccaro, Ph.D., Luigi Colagnati, Giorgio Mattassi, ARPA FVG; Georg Umgesser, ISMAR CNR</b></p>	<p><b>Coastal Hazards and Risk Management</b></p> <p>Moderator/Session Chair: <b>Andrew Metzger, P.E., M.ASCE</b></p> <p>Coastal Engineering for Veterans Drive Improvements  <b>Manish Aggarwal, Jerald Ramsden, Ph.D., P.E., M.ASCE, Parsons Brinckerhoff</b></p>
<p><b>Long-Term Monitoring and Effectiveness of Sediment Cap, Former Campbell Shipyard, San Diego, California</b></p> <p><b>Rolf Schottle, AMEC Earth and Environmental; Larry McCauley, Bill Hays, Unified Part of San Diego</b></p>	<p><b>Defining Engineering Guidance for Living Shoreline Projects</b></p> <p><b>Rob Walker, P.E., A.M.ASCE, Anchor GEA; Bonnie Bendell, North Carolina Division of Coastal Management; Louise Wallendorf, P.E., M.ASCE, United States Naval Academy</b></p>	<p><b>Myrtle Beach (2001-2010) - Another Decade of Beach Monitoring Surveys after the 1997 Federal Shore-Protection Project</b></p> <p><b>Tim Kana, Ph.D., P.G., Haiqing Kaczkowski, Ph.D., P.E., Philip McKee, Coastal Science &amp; Engineering</b></p>	<p><b>Masonville Dredged Material Containment Facility: Mitigation Design Including Shore Protection, Reef Creation and Wetlands Restoration</b></p> <p><b>Peter Kotulak, P.E., Kristen Piggott, P.E., Moffatt &amp; Nichol</b></p>	<p><b>Vulnerability Assessment of Climate Change Impact on Groundwater Salinity in the Nile Delta Coastal Region-Egypt</b></p> <p><b>Ibrahim ElShinnawy, Ph.D., Hala Abayazid, Ph.D., Coastal Research Institute</b></p>
<p><b>Sediment Transport Modeling and Application for Ocean Beach and San Francisco Bight, CA</b></p> <p><b>Honghai Li, Ph.D., Lihwa Lin, Ph.D., Engineer Research and Development Center; Frank Wu, Ph.D., Lisa Andes, P.E., James G. Zoulas, Ph.D., U.S. Army Corps of Engineers, San Francisco District</b></p>	<p><b>Demand Forecasting for Yacht Tourism Planning in Turkey</b></p> <p><b>Ayşe Karancı, Middle East Technical University; Isikhan Guler, Ph.D., Yusel Proje Uluslararası A.S.; Aysen Ergin, Ahmed Cevdet Yalciner, Middle East Technical University</b></p>	<p><b>What's Left of the Malibu Coastline and a Method to Replenish the Beaches</b></p> <p><b>Reinard Knur, G.E., C.E.G., Geotechnologies, Inc.</b></p>	<p><b>Influence of Small Rivers Runoff on the Hydrochemical Structure of Coastal Waters of the Northeastern Black Sea</b></p> <p><b>Anna Kostyleva, Oleg Podymov, Ph.D., Southern Branch of P.P.Shirshov Institute of Oceanology, Russian Academy of Sciences; Petr Makikaveev, Ph.D., Aleksandr Polukhin, P.P.Shirshov Institute of Oceanology, Russian Academy of Sciences</b></p>	<p><b>Joint Hydraulic/Structural Methodology for the Rehabilitation of Crescent City Marina</b></p> <p><b>Jean Toilliez, Ph.D., Mads Jorgensen, P.E., Ben C. Gerwick, Inc.</b></p>

# MONDAY, AUGUST 22, 2011

3:30 - 5:00 p.m.

Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p>Moderator/Session Chair: <b>Nabil Ismail, Ph.D., P.E., M.ASCE</b></p> <p>Regional Beach Restoration and Monitoring in San Diego County: A 10-Year Retrospective <b>Greg Hearon, P.E., Brady Richmond, P.E., Coastal Frontiers Corporation; Shelby Tucker, San Diego Association of Governments</b></p> <p>The Life and Death of America's First Man-Made Surfing Reef <b>Craig Leidersdorf, Brady Richmond, P.E., Coastal Frontiers Corporation; Chad Nelson, The Surfider Foundation</b></p>	<p><b>Sustainable Coastal Development</b></p> <p>Moderator/Session Chair: <b>Neal Gruber, P.E., M.ASCE</b></p> <p>Current Challenges in Coastal Management in the Netherlands: Examples of Pilot Projects <b>Jan Mulder, Ph.D., Jan A. van Dalfsen, Delft</b></p> <p>Vacuum Sewers - A Viable Alternative for Wastewater Collection and Transport in Coastal Areas <b>Soma Bhadra, P.E., PROTEUS Consulting; Denny Moss, AIRVAC, Inc.</b></p> <p>On the Impact of Sea Level Rise to a Coastal Estuary in a Metropolitan Area <b>Scott C. Hagen, Ph.D., P.E., D.CE, M.ASCE, University of Central Florida; James T. Morris, Ph.D., Belle Baruch Institute for Marine &amp; Coastal Sciences and Department of Biological Sciences, University of South Carolina; Peter Bacopoulos, Ph.D., University of Central Florida</b></p>	<p><b>Erosion and Shoreline Protection</b></p> <p>Moderator/Session Chair: <b>Kathy Ketteridge, P.E., M.ASCE</b></p> <p>Eigenfunction Expansion Approach for Vertical Thin Wave Absorber Device <b>Mahmoud Sharaki, Alya AlHarmoudi, Dubai Municipality; Suzan Fadel, Alexandria University</b></p> <p>In the Wet Placement of Articulated Concrete Block Mats by Divers <b>Eric Thorkildsen, P.E., Greenman-Pedersen, Inc.</b></p> <p>Event Ranking Methods for Calculation of 100-Year Wave Runup on Levees at Oakland International Airport, California <b>Jeremy Bricker, Ph.D., P.E., Phillip Mineart, P.E., Sathish Murugaiah, P.E., John Paxton, P.E., Rajendram Arulnathan, P.E., Ph.D., URS Corporation; Samuel Won, P.E., Frank Lobedan, P.E., Port of Oakland</b></p>	<p><b>Coastal Environment</b></p> <p>Moderator/Session Chair: <b>Ying Poon, P.E., M.ASCE</b></p> <p>Restoring Malibu Lagoon: A Case Study in Collaborative Coastal Restoration <b>Marc Beyeler, University of California Santa Cruz; Mark Abramson, Santa Monica Bay Restoration Foundation</b></p> <p>Water Quality Study for a Coastal Development at the Bahía de los Sueños, Baja California, Mexico <b>Wenkai Qin, Ph.D., P.E., Ronald Noble, P.E., L.S., D.CE, D.PE, F.ASCE, Noble Consultants, Inc.</b></p> <p>Coastal Effects to the Flood Stage Frequency Analysis at the San Lorenzo River, Santa Cruz, CA <b>Lisa Andes, Frank Wu, Ben Snyder, Beth Faber, Janice Lera-Chan, Katie Huff, U.S. Army Corp of Engineers</b></p>	<p><b>Coastal Hazards and Risk Management</b></p> <p>Moderator/Session Chair: <b>Chong-Kun Pyun, Ph.D., M.ASCE</b></p> <p>Operational Oceanographic System for the Southern Coastal Waters of Korea <b>Hak Soo Lim, Chang S. Kim, Ph.D., Kwang Soon Park, Ph.D., Jae Seol Shim, Ph.D., Korea Ocean Research &amp; Development Institute</b></p> <p>Comparison of Two Severe Storms in Terms of Wave Characteristics Based On Recorded Field Data <b>Alireza Jafari, Nick Cartwright, Ph.D., Griffith University; Peter Nielsen, University of Queensland</b></p> <p>Coastal Structures &amp; Sea Level Rise: Adaptive Management Approach <b>John Headland, P.E., D.CE, M.ASCE, Dilip Trivedi, Dr.Eng., P.E., Russell Boudreau, P.E., D.CE, D.PE, M.ASCE, Moffatt &amp; Nichol</b></p>

# TECHNICAL PROGRAM

TUESDAY, AUGUST 23, 2011

8:00 – 9:30 a.m.

## Special Plenary Session: Global Warming and Sea Level Acceleration - Harbor Island I

10:00 – 11:30 a.m.

Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p><b>Moderator/Session Chair:</b> Charles B. Chesnut</p> <p><b>Stabilization of the Tutong River Entrance, Brunei. A Comprehensive Coastal Engineering Project</b> <b>Alessio Mariani, P.E., James Carley, P.E., Duncan Rayner, P.E., Brett Miller, P.E., Ron Cox, Ph.D.,</b> Water Research Laboratory, University of New South Wales; <b>Kok Kong Chin, P.E., Ove Arup Dan Rakan-Rakan; Mohd Sidek Yusof, P.E.,</b> Public Works Department Brunei</p> <p><b>The Forecast of Anapa Bay-Bar Coast Evolution and Sandy Body Thickness Change</b> <b>Ruben Kosyan, Boris Divinskiy, Ph.D., Alisa Kosyan, Ph.D., Marina Krylenko, Ph.D., Sergey Kuklev, Ph.D., Vyacheslav Krylenko, M.D.,</b> Southern Branch of the P.P. Shirshov Institute of Oceanology, RAS</p> <p><b>Development of Inner Harbor Navigation Canal Hurricane Surge Barrier Project Hydrodynamics Through Deterministic Methods, Physical Modeling, and Numerical Modeling</b> <b>Jena Gilman, P.E., Peter Grant, P.E., Jake San Antonio, P.E., Mizan Rashid, P.E., Ph.D., D.WRE,</b> AECOM</p>	<p><b>Erosion and Shoreline Protection</b></p> <p><b>Moderator/Session Chair:</b> Ida Broker, Ph.D., Aff.M.ASCE</p> <p><b>Landslide Repair and Severe Erosion Mitigation Case Studies in Sensitive Coastal Areas</b> <b>James Chincholo, Nathan R. Beard, P.E., M.ASCE,</b> Landslide Solutions, Inc.</p> <p><b>Wave Effects on Bathymetric Depression</b> <b>Luce Bassetti, Ph.D., Sean O'Neil, Ph.D.,</b> Halcrow</p> <p><b>Propeller Wash on a Slope</b> <b>Ayse Yuksel Ozan, Ph.D., Kubilay Cihan, Ph.D., Yalcin Yuksel,</b> Yildiz Technical University</p>	<p><b>Coastal Sediment Processes</b></p> <p><b>Moderator/Session Chair:</b> Ruben Kosyan</p> <p><b>Enhancement of Cross-Shore Profile Evolution Models for Sustainable Coastal Design</b> <b>Mohamed Elsayed, Ph.D., Nabil Ismail, Ph.D., P.E., M.ASCE,</b> Maritime Academy for Science and Technology</p> <p><b>Subaqueous Cohesive Sediment Gravity Flows from Open Water Pipeline Dredge Disposal: Laboratory Experiments and Mathematical Modeling</b> <b>Mijanur Chowdhury, Firat Testik, Ph.D.,</b> Clemson University</p> <p><b>Cohesive Sediment Transport Modeling: Application to the Madura Strait, Indonesia</b> <b>Nita Yuanita, D.Eng.,</b> Institute Technology of Bandung; <b>Undang Henawan,</b> Marine Geological Institute</p>	<p><b>Ports, Harbors, and Marine Transportation</b></p> <p><b>Moderator/Session Chair:</b> Nels Sultan, P.E., M.ASCE</p> <p><b>Coastal Engineering for Renovation of San Francisco Marina West Yacht Harbor</b> <b>Mary Hobson,</b> San Francisco Department of Recreation and Parks; <b>Frank Filice,</b> San Francisco Department of Public Works; <b>Scott Fenical, P.E., Matteo Tirindelli, Ph.D., P.E.,</b> Coast &amp; Harbor Engineering</p> <p><b>Floating Breakwater Modeling and Design for Oyster Point Marina</b> <b>David Dykstra, Xiuying Xing, Ph.D., P.E., Christopher Devick,</b> Moffatt and Nichol</p> <p><b>Measurement of Structure Response to Ferry Berthing Loads</b> <b>Andrew Metzger, Ph.D., P.E.,</b> University of Alaska Fairbanks; <b>Jonathan Hutchinson,</b> Alaska Department of Transportation &amp; Public Facilities</p>	<p><b>Local, State, and Federal Involvement in Coastal Projects</b></p> <p><b>Moderator/Session Chair:</b> Walther Crampton, P.E., D.CE, M.ASCE</p> <p><b>Applying the Design/Build Project Delivery Method to Shore Protection and Other Coastal Works Projects</b> <b>James Spady, P.E., M.ASCE,</b> Clark Nexsen</p> <p><b>The Challenges of Permitting Coastal Projects in the 21st Century</b> <b>Walther Crampton, P.E., D.CE, M.ASCE,</b> TerraCosta Consulting Group</p> <p><b>Beach Replenishment and the Clean Water Act-Conflicting Policies and Conflicting Regulations</b> <b>S. Wayne Rosenbaum, Esq.,</b> Foley Lardner LLP</p>

**TUESDAY, AUGUST 23, 2011**

1:30 – 3:00 p.m.

Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p><b>Moderator/Session Chair:</b> Scott Douglass, P.E., D.CE, M.ASCE</p> <p>A Case Study on the Use of Advanced Fiber Wrap Composite for Timber Pile Repair and Protection of a Pier Structure  <b>Tomas Jimenez, A.M.ASCE, LEED AP, Dane Kost, Fyfe Company, LLC; John Percival, Fibwrap Construction Canada Limited</b></p>	<p><b>Erosion and Shoreline Protection</b></p> <p><b>Moderator/Session Chair:</b> Scott P. Sullivan</p> <p>Predictability of Beach Nourishment Performance in Florida  <b>Robert Dean, Sc.D, P.E., D.CE, Dist.M.ASCE, Luciano Absalonsen, University of Florida</b></p>	<p><b>Erosion and Shoreline Protection</b></p> <p><b>Moderator/Session Chair:</b> Scott Hagen, Ph.D., P.E., D.CE, M.ASCE</p> <p>Efficacy of a Sand Dune Reinforced With a Sand Filled Polyurea Coated Geotextile Tube for Shoreline Protection in a Hurricane Prone Area  <b>Ronald Munoz, Douglas Gaffney, P.E., M.ASCE, Ocean &amp; Coastal Consultants; Jasen Brown, P.E., U.S. Army Corps of Engineers - St. Louis District</b></p>	<p><b>Coastal Sediment Processes</b></p> <p><b>Moderator/Session Chair:</b> Chia-Chi Lu, Ph.D., P.E., D.CE, M.ASCE</p> <p>Numerical Modeling of Wind-Waves and Its Effect on Sediment Transport - An Investigation of Spectral Terms  <b>Sikandar Khatri, Ph.D., Santa Clara University; I.R. Young, Australian National University</b></p>	<p><b>Ports, Harbors, and Marine Transportation</b></p> <p><b>Moderator/Session Chair:</b> Dan Muslin</p> <p>Passing Vessel Hydrodynamic Model Validations in Complex Waterways  <b>Scott Fenical, P.E., Frank Salcedo, P.E., Coast &amp; Harbor Engineering</b></p>
<p><b>Jet Grouting for the Re-support of Pier 11A in San Diego, CA</b>  <b>Sunil Arora, P.E., Jack Kinley, Hayward Baker Inc.</b></p>	<p><b>The Hub Effect on a Propeller Scour Around a Pile</b>  <b>Kubilay Cihan, Ph.D., Aybe Yüksel Ozan, Ph.D., Yalcyn Yüksel, Yildiz Technical University</b></p>	<p><b>Efficacy of Stone Filled Marine Mattresses for Cable Protection in a Nearshore Mixed Sediment Environment</b>  <b>Matthew Dalon, A.M.ASCE, Ronald Munoz, Douglas Gaffney, P.E., M.ASCE, Ocean &amp; Coastal Consultants; Jeff Fiske, Tensar International Corporation</b></p>	<p><b>Modeling Regional Sediment Transport and Barrier Elongation at Long Island Coast, United States</b>  <b>Le Xuan Hoan, Ph.D., Vietnam Academy of Science and Technology; Shigeru Kato, Shin-ichi Aoki, Ph.D., Toyohashi University of Technology; Hans Hanson, Magnus Larson, Lund University</b></p>	<p><b>Cruise Ship Maneuvering and Mooring/Berthing at Pier 27 Cruise Terminal, San Francisco, CA</b>  <b>Kim Von Blohn, John Davey, Port of San Francisco; Matteo Tirindelli, Ph.D., P.E., Scott Fenical, P.E., Coast and Harbor Engineering</b></p>
<p><b>Indian River County Sector 3 Beach and Dune Restoration Project</b>  <b>Michael Walker, P.E., Tem Fontaine III, Coastal Tech</b></p>	<p><b>Rockefeller Refuge Gulf Shoreline Protection Demonstration</b>  <b>Brett Geesey, P.E., Daniel Heilman, P.E., Ronald McPherson, HDR Engineering, Inc.</b></p>	<p><b>The Role of the Federal Government in Water Resources</b>  <b>Howard Marlowe, Marlowe &amp; Company, LLC</b></p>	<p><b>Seawall-Waves Interaction and Impact on Sediment Morphology</b>  <b>Nabil Ismail, Ph.D., P.E., M.ASCE, Maritime Academy for Science and Technology</b></p>	<p><b>Elastic Buckling Capacities of Piles Subject to Partial Section Loss</b>  <b>Breanna Bailey, Ph.D., L. U. Sankar Samudrala, Lakshamna Rao Upputuri, Texas A&amp;M University-Kingsville; Prashant Deopurkar, Thomas and Betts</b></p>

# TECHNICAL PROGRAM

TUESDAY, AUGUST 23, 2011

3:30 – 5:00 p.m.

Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p>Moderator/Session Chair:  <b>Scott Huntsman, Ph.D. P.E., G.E., D.GE., F.ASCE</b></p> <p>Maintenance of Navigable Depths at the Hawaii Kai Marina and Entrance Channel Oahu, Hawaii</p> <p><b>Michael Whelan, P.E., M.ASCE, Rob Walker, P.E., Aff.M.ASCE, Tracy Stofferahn, Anchor GEA</b></p>	<p><b>Erosion and Shoreline Protection</b></p> <p>Moderator/Session Chair:  <b>Michael Cox, Dist.D.NE, Aff.M.ASCE</b></p> <p>Wave Control Characteristics as a Beach Erosion Countermeasure by Submerged Breakwater with Artificial Reef</p> <p><b>Sung-Won Shin, Kyu-Han Kim, Ph.D., Kwandong University; Won-Taek Lim, Yonho Moon, Chong-Kun Pyun, Ph.D., Myongji University</b></p>	<p><b>Erosion and Shoreline Protection</b></p> <p>Moderator/Session Chair:  <b>Jane McKee Smith, P.E., D.CE, M.ASCE</b></p> <p>Monitoring Shore Protection Projects Along the Florida Panhandle using Three-Dimensional Spatial Data</p> <p><b>Lauren Dunkin, U.S. Army Corps of Engineers; John McCormick, ERDC</b></p>	<p><b>Coastal Sediment Processes</b></p> <p>Moderator/Session Chair:  <b>Tim Kana, Aff.M.ASCE</b></p> <p>Prediction of the Siltation in the Intake of Nuclear Power Plant Using the Water Depth Monitoring and Coupled Model</p> <p><b>Bumshick Shin, Ph.D., Kyuhan Kim, Ph.D., Kwandong University</b></p>	<p><b>Ports, Harbors, and Marine Transportation</b></p> <p>Moderator/Session Chair:  <b>Douglas A. Gaffney, P.E., D.CE, M.ASCE</b></p> <p>Field Observations and Numerical Modeling of Infragravity Waves</p> <p><b>Yang Zhang, Ph.D., Chris Carr, P.E., Sean O'Neil, P.E., Ph.D., Halcrow Inc.; Hemming Schäffer, Ph.D., SchäfferWaves</b></p>
<p><b>Over Twenty-Five Years of Applied Coastal Engineering in Alaska</b></p> <p><b>Harvey Smith, P.E., Ruth Carter, P.E., Alaska Department of Transportation and Public Facilities</b></p>	<p><b>The 2012 San Diego Regional Beach Sand Project</b></p> <p><b>Christopher Webb, Moffatt &amp; Nichol; Shelby Tucker, Esq, San Diego Association of Governments</b></p>	<p><b>Behavior of Shore Protection Structures at Alexandria, Egypt during the Storm of December 2010</b></p> <p><b>Bhaa El-Sharnouby, Ph.D., Alexandria University; Akram Soliman, Ph.D., Arab Academy for Science and Technology and Maritime Transport</b></p>	<p><b>Analysis of Morphological Changes in the Gold Coast Seaway</b></p> <p><b>Mahnaz Sedigh, Rodger Tomlinson, Ali Golshani, Ph.D., Nick Cartwright, Griffith University</b></p>	<p><b>Final Monitoring Results for Kaunapapa Harbor Breakwater, Lanai, Hawaii</b></p> <p><b>Jessica Podoski, P.E., Thomas Smith, P.E., Lyndell Hales, Ph.D., US Army Corps of Engineers</b></p>
<p><b>Corrosion Protection for Concrete Structures in Marine Environment</b></p> <p><b>David McDonald, Ph.D., P.E., FACI, Epoxy Interest Group of CRSI</b></p>	<p><b>Determination of Wave Transmission Coefficients for Oyster Shell Bag Breakwaters</b></p> <p><b>Richard Allen, Bret Webb, Ph.D., University of South Alabama</b></p>		<p><b>Influence of JONSWAP Wave Spectra Form on Frequency Spectrum of Suspended Sediment Transport Values</b></p> <p><b>Igor Podymov, Ph.D., Ruben Kos'yan, P.E., Tatiana Podymova, P.P. Shirshov Institute of Oceanology; Joachim Grune, P.E., Coastal Research Center, Hanover</b></p>	<p><b>Modeling Support of the St. Johns River Project, Jacksonville, FL</b></p> <p><b>Dennis Webb, P.E., Philip Sylvester, U.S. Army Corps of Engineers</b></p>

8:00 – 9:30 a.m.

Special Plenary Session: Report on 2011 Earthquake in Japan

10:00 – 11:30 a.m.

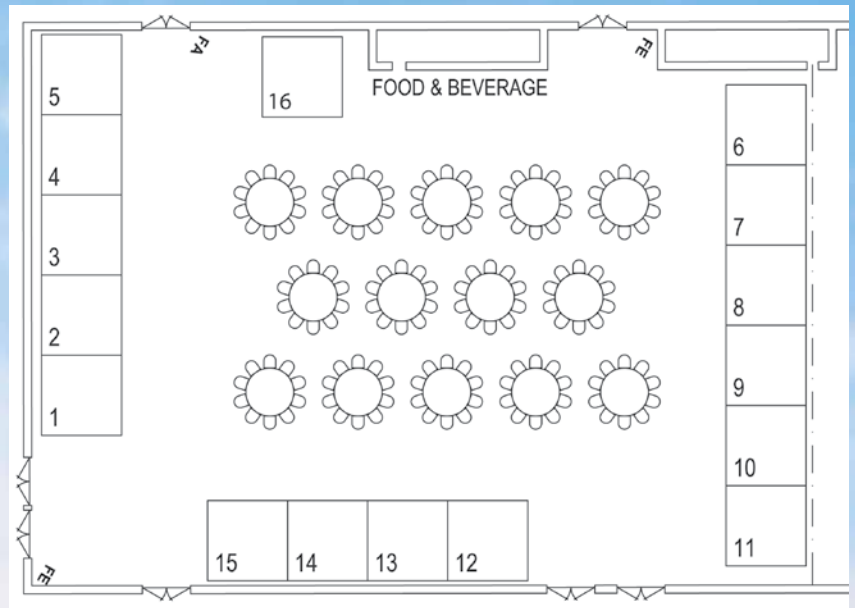
Nautilus I	Nautilus II	Nautilus III	Nautilus IV	Nautilus V
<p><b>Case Histories of Coastal Projects</b></p> <p><b>Moderator/Session Chair:</b> Brian J. Van Weele, P.E., M.ASCE</p> <p><b>Resource Myopia - Implementing Restoration from a Narrow View vs. a Solution View</b></p> <p><b>Nicholas De Gennaro, P.E., Ph.D.,</b> D&amp;D Civil &amp; Marine Engineering</p>	<p><b>Erosion and Shoreline Protection</b></p> <p><b>Moderator/Session Chair:</b> Arthur Shak, P.E.</p> <p><b>Shore Protective Revetment Crowned with Pedestrian Walkway at Strand Beach, California</b></p> <p><b>Chia-Chi Lu, Ph.D., P.E., D.CE,</b> M.ASCE, Thomas J. Fischetti, P.E., M.ASCE, Ronald M. Noble, P.E., L.S., D.CE, D.PE, F.ASCE, Noble Consultants Inc.</p>	<p><b>Ports, Harbors and Marine Transportation</b></p> <p><b>Moderator/Session Chair:</b> Vallam Sundar</p> <p><b>Wave Amplification at Harbor Entrance due to Submerged Shoal</b></p> <p><b>Hyung Seok Yoo, Ph.D.,</b> <b>Byung Guk Min, Ph.D.,</b> Korea Polytechnics; <b>Kyu Han Kim, Ph.D.,</b> <b>Sung Won Shin, Ph.D.,</b> Kwangdong University</p>	<p><b>Ports, Harbors and Marine Transportation</b></p> <p><b>Moderator/Session Chair:</b> Patrick J. Hudson, Ph.D., P.E., M.ASCE</p> <p><b>Utilizing Vessel Based Mobile Laser and Bathymetry Survey Techniques for Survey of Four Southern California Breakwaters</b></p> <p><b>Todd Mitchell, Fugro Consultants, Inc.;</b> <b>Mohammed Chang, P.E.,</b> U.S. Army Corps of Engineers</p>	<p><b>U.S. Research and Development in Coastal Engineering</b></p> <p><b>Moderator/Session Chair:</b> Bill Hanson, A.M.ASCE</p> <p><b>PRESENTERS: Bill Murphy, E4 Services; Lee Weisher, Ph.D., P.W.S., Woods Hole Group; Russell H. Boudreau, P.E., D.CE, D.PE, M.ASCE, Moffatt &amp; Nichol (invited); Joan Pope, U.S. Army Corps of Engineers (invited)</b></p>
<p><b>Sustainable Concrete Mix Design for 100 Years Service Life for Bridges in San Diego County Coastal Environments</b></p> <p><b>Bruce Smith, P.E.,</b> San Diego Association of Governments; <b>Mark Creveling, P.E.,</b> Simon Wong Engineering; <b>Jeff Teig, P.E.,</b> HDR Engineering</p>	<p><b>Surfability: A Proposed Scale for Surfable Waves</b></p> <p><b>Chuck Mesa, P.E.,</b> U.S. Army Corps of Engineers</p>	<p><b>Port of Long Beach Sustainable Design and Construction Guidelines</b></p> <p><b>Renee Yarmy, TEC, Inc.;</b> <b>Douglas Sereno, P.E., M.ASCE,</b> Port of Long Beach</p>	<p><b>Skagway Small Boat Harbor Vertical Wave Barrier</b></p> <p><b>Nels Sultan, Ph.D., P.E., M.ASCE,</b> Lisa Dale, P.E., <b>Todd Nottingham, P.E.,</b> PND Engineers, Inc.; <b>Steve Spencer, P.E.,</b> Pacific Pile and Marine, LLP</p>	
<p><b>Designing a Safe Harbor in a Harsh Environment: A Case Study</b></p> <p><b>Jesse Ellenz,</b> Bellingham Marine, Northwest Division; <b>Craig Funston, P.E., S.E.,</b> Redpoint Structures</p>	<p><b>Extreme Total Water Levels for Twin Lakes Beach, Santa Cruz, CA</b></p> <p><b>Claudio Fassardi, Luce Basseti, Ph.D.,</b> Halcrow, Inc.; <b>James Davies,</b> County of Santa Cruz</p>	<p><b>Boat-wake Observations at Jensen Beach, Florida</b></p> <p><b>Alex Sheremet, Ph.D., Uriah Gravois, Miao Tian,</b> University of Florida; <b>Timothy K. Blankenship, P.E., M.ASCE,</b> Coastal Systems International, Inc.</p>	<p><b>Site Planning and Hydraulic Design of a Cargo Seaport Exposed to Typhoons and Tsunamis - a Project Case in the Philippines</b></p> <p><b>Eric Cruz, Ph.D.,</b> University of the Philippines</p>	

WEDNESDAY, AUGUST 24 / TECHNICAL TOUR INFORMATION / 1:00 – 4:00 p.m. / Scripps Institution of Oceanography

Please arrive at the Main Lobby at least 15 minutes before the 1:00 p.m. scheduled departure time. Buses will leave promptly. Attendees will arrive at the historic Martin Johnson House on the Scripps campus. A short PowerPoint presentation will describe the work of the Coastal Data Information Project (CDIP) and current Scripps research. The larger group will then split into two smaller groups. One will visit the CDIP labs/offices, and the other group will visit the Scripps Hydraulics Lab. After approximately 45 minutes, the groups will switch and visit the other location. Experienced researchers will guide the tours, and attendees will be able to ask questions about all aspects of research and exhibits of interest at Scripps. **Registration Fee: \$40.** Anyone wishing to attend the tour must purchase a ticket. Stop by the ASCE Registration Desk to sign up!

## EXHIBITORS & EXHIBIT HALL FLOOR PLAN

Exhibitor	Booth #
ACOPNE	Harbor Island Foyer
AECOM	15
Alpine Ocean	16
Bellingham Marine	10
Calscience Environmental Laboratories, Inc.	3
COPRI	Harbor Island Foyer
Creative Pultrusions, Inc.	5
Epoxy Interest Group of CRSI	14
Fyfe Co., LLC	11
Gerdau – ZBAR	8
Hayward Baker	12
HESCO Bastion USA	7
JAFEC USA	1
Landslide Solutions	13
Sontek/YSI	9
Teledyne RD Instruments	4
Tensar International Corporation	2
The Reinforced Earth Company	6



## EXHIBIT HALL EVENTS

### Sunday, August 21

- 1:30 – 5:30 p.m. Exhibitor Move-In
- 6:30 – 8:00 p.m. Ice Breaker Reception/Exhibit Hall Opens

### Monday, August 22

- 7:15 a.m. – 6:00 p.m. Exhibit Hall Open
- 7:15 – 8:00 a.m. Coffee in Exhibit Hall
- 9:30 – 10:00 a.m. Refreshment Break
- 3:00 – 3:30 p.m. Refreshment Break  
*Sponsored by: Moffatt & Nichol*

### Tuesday, August 23

- 7:15 a.m. – 4:00 p.m. Exhibit Hall Open
- 7:15 a.m. – 8:00 a.m. Coffee in Exhibit Hall
- 9:30 – 10:00 a.m. Refreshment Break
- 11:45 a.m. – 1:15 p.m. Deli Lunch in Exhibit Hall  
*Sponsored by: Great Lakes Dredge & Dock Company*
- 3:00 – 3:30 p.m. Refreshment Break  
*Sponsored by: AECOM*

### Wednesday, August 24

- 7:15 a.m. – 11:30 a.m. Exhibit Hall Open
- 7:15 – 8:00 a.m. Coffee in Exhibit Hall
- 9:30 – 10:00 a.m. Refreshment Break
- 11:30 a.m. – 4:00 p.m. Exhibitor Move-Out

## THANK YOU TO OUR SPONSORS

With gratitude, we thank the following sponsors, whose contributions have ensured quality programming and networking events for attendees.

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