PRELIMINARY PROGRAM



COASTAL STRUCTURES & SOLUTIONS TO COASTAL DISASTERS JOINT CONFERENCE

Boston, Massachusetts | September 9-11, 2015

Resilient Coastal Communities











Sheraton Boston Hotel

www.copricoastalconference.org

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Important Dates

Early Bird Registration Deadline (EB):

July 15, 2015

Hotel Reservation Deadline:

August 18, 2015

Advance Registration Deadline (ADV):

August 18, 2015

Schedule-At-A-Glance

(Subject to Change)

Tuesday, September 8

2:30 - 7:00 p.m.**Registration Hours**

5:30 - 7:00 p.m. Ice Breaker Reception in Exhibit Hall (Ticketed Event)

Wednesday, September 9

7:30 a.m. - 5:00 p.m.**Registration Hours**

(Closed for Lunch from 1:30 - 2:30 p.m.)

7:30 - 8:00 a.m. Coffee Service in Exhibit Hall

7:30 a.m. - 4:00 p.m. **Exhibit Hall Open**

8:00 - 9:40 a.m.**Opening Plenary Session**

9:40 - 10:10 a.m. **Networking Break in Exhibit Hall**

10:10 a.m. - 12:10 p.m. **Technical Session 1**

> 12:10 - 1:30 p.m. Lunch on Own

1:30 - 3:30 p.m. **Technical Session 2**

3:30 - 4:00 p.m. **Networking Break in Exhibit Hall**

4:00 - 6:00 p.m. **Technical Session 3**

6:30 - 8:30 p.m. **Student & Young Professionals Reception**

(Ticketed Event)

Thursday, September 10

7:30 a.m. - 5:00 p.m.**Registration Hours**

(Closed for Lunch from 1:30 - 2:30 p.m.)

Coffee Service in Exhibit Hall 7:30 - 8:00 a.m.

7:30 a.m. - 5:30 p.m.**Exhibit Hall Open**

> 8:00 - 9:40 a.m. **Technical Session 4**

9:40 - 10:10 a.m. **Networking Break in Exhibit Hall**

10:10 a.m. - 12:10 p.m. **Technical Session 5**

> 12:10 - 1:30 p.m. Lunch on Own

1:30 - 3:30 p.m. **Technical Session 6**

3:30 - 5:30 p.m. Poster Session & Networking Reception In Exhibit Hall

6:00 - 9:00 p.m. **Harbor Boat Tour (Ticket Event)**

Friday, September 11

12:45 - 2:00 p.m.

2:00 - 3:20 p.m.

7:30 a.m. - 3:00 p.m.**Registration Hours**

(Closed for Lunch from 11:00 a.m. - 12:00 p.m.)

8:00 - 8:30 a.m. Coffee Service in Exhibit Hall

8.30 - 10.30 a m **Technical Session 7**

10:30 - 10:45 a.m. **Networking Break in Exhibit Hall**

10:45 - 12:45 p.m.

Technical Session 8

Lunch on Own

Technical Session 9

Invitation To Attend



Dear Coastal Professionals,

The Coastal Structures and Solutions to Coastal

Disasters® have existed for many years as independent meetings for coastal professionals to exchange ideas on coastal protection and the vulnerability of the coastal infrastructure to coastal storms (hurricanes, tsunamis and cyclones) and variations in sea level. We are merging the conferences this year to provide attendees a more diverse forum for discussion of coastal development, protection and resiliency.

Our theme this year is "Resilient Coastal Communities." It is our philosophy that a truly resilient community requires the active input of scientists and engineers in conjunction with community planners and managers, social scientists, policy makers and the community itself. Given the public's enjoyment of the coast as residents or visitors, we must all use care and restraint to preserve and enhance our waterfront for future generations. We appreciate the enthusiastic support of the metropolitan Boston Community, our Sponsors and Cooperating Organizations and we look forward to meeting you at this year's Coastal Structures and Solutions to Coastal Disasters® loint Conference 2015!

Please join us for an exciting event. We look forward to seeing you in Boston!

Dan Cox, Ph.D. Oregon State University Coastal Structures Co-Chair



Louise Wallendorf, P.E., M.ASCE U.S. Naval Academy Solutions to Coastal Disasters® Co-Chair



Conference Co-Chairs

Daniel Cox, Ph.D.

Oregon State University, USA

Louise Wallendorf, P.E., M.ASCE U.S. Naval Academy, USA

Planning Committee

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CDM Smith, USA

Lesley Ewing, Ph.D., P.E., D.CE, M.ASCE California Coastal Commission, USA

Christopher P. Jones, P.E., M.ASCE Christopher P. Jones & Associates, USA

Technical Committee

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HR Wallingford, UK

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Leopoldo Franco, Ph.D.

University of Rome - III. Italy Carol J. Friedland, Ph.D., P.E., M.ASCE

Louisiana State University, USA

John R. Headland, P.E., D.CE, D.PE, M.ASCE

Headland and Associates, LLC, USA

Jennifer Irish, Ph.D., P.E., D.CE, M.ASCE Virginia Tech University, USA

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University of Southern California, USA

Hajime Mase, Ph.D., M.ASCE Kyoto University, Japan

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Ioan Nistor, Ph.D., P.Eng, M.ASCE

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University of Hawaii, USA

Spencer Rogers, M.ASCE

North Carolina Sea Grant, USA

Tsutomu Sakakiyama, Ph.D.

CRIEPI, Japan

Michael B. Salisbury, Jr., P.E., M.ASCE

Atkins Global, North America, USA

Kyung Doug Suh, Ph.D., D.CE., M.ASCE Seoul National University, Korea

Jentsje van der Meer, Ph.D., D.CE, M.ASCE

Van de Meer Consulting, The Netherlands

Marcel van Gent, Ph.D.

Deltares, The Netherlands

Robert Walker, Ph.D., P.E., S.M.ASCE

University of Hawaii, USA
Bret M. Webb, Ph.D., P.E., D.CE, M.ASCE

University of South Alabama, USA Barbara Zanuttigh, Ph.D., P.E., A.M.ASCE

University of Bologna, Italy

Special Events

Tuesday, September 8

Ice Breaker Reception

5:30 - 7:00 p.m., Exhibit Hall

Reconnect with colleagues and meet new friends at this year's Welcome Reception. Enjoy light refreshments in the exhibits area as you network and discuss which sessions to attend.

Wednesday, September 9

Opening Plenary Session

8:00 - 9:40 a.m.

The Opening Plenary will include welcoming remarks, a keynote speaker and the awards ceremony.

Awards Ceremony







International Coastal Engineering Award

Marcell Ainus J. F. Stive, Ph.D

John G. Moffatt-Frank E. Nichol Harbor and Coastal **Engineering Award**

Costas Emmanuel Synolakis, Ph.D., M.ASCE

Orville T. Magoon Sustainable Coasts Award

Christopher P. Jones, P.E., M.ASCE

Project Excellence Award

Small Project – Makah Tribe Commercial Dock Replacement, submitted by BergerABAM

Large Project - Port of Newport International Terminal Renovation, submitted by GRI

Student and Young Professionals Reception

6:30 - 8:30 p.m., Top of the Hub - Skywalk

Students and Young Professionals are invited to attend a special networking reception on Wednesday. Network with ASCE and COPRI leadership, ACOPNE Diplomats, and invited guests. Make new contacts and meet with other conference attendees who share your interests. The Reception will include an Academy of Coastal, Ocean, Port and Navigation Engineers (ACOPNE) Diplomat ceremony recognizing engineers who have a special knowledge and experience in the fields of civil engineering that comprise ACOPNE and who have excelled in one or more of the sub-disciplines embraced by COPRI. Business Attire.

This event is by invitation only.

Thursday, September 10

Poster and Networking Session

3:30 - 5:30 p.m., Exhibit Hall

Due to the overwhelming variety of abstracts, the conference technical committee has elected to add a hosted poster session. On Thursday afternoon, the Exhibit Hall will become the Poster Hall, with over 40 posters covering breakwaters and tide gates to fishing piers and oyster reefs; typhoon and storm risk to building codes and debris management. Enjoy a beer or soft drink, a light reception menu, and join other colleagues as you examine the poster materials and talk with the presenters.

Boston Harbor Cruise

6:00 - 9:00 p.m.

Discover the historic and contemporary milestones of Boston's inner and outer harbors during this fun and informative tour. From the hero tales of the Revolutionary War to the local legends of the sea, you'll be entertained and enthralled. See how the harbor was transformed to one of the cleanest harbors in the country. Other highlights you'll see include the nation's oldest continuously manned lighthouse, the Harbor Islands National Park Area, Boston's working port and examples of extravagant waterfront living.

This event requires a ticket. Space is limited.

Register by July 15th and take advantage of Early Bird Pricing.

Members: \$40.00; Non-Members \$50.00

Sponsorships Available

Highlight your company's commitment and unique contribution to COPRI COASTAL CONFERENCE 2015 before the industry's premier leaders, planners and practitioners by becoming a conference sponsor at the event. For further information, contact **Sean Scully** at (703) 295-6154.

Download the sponsorship prospectus at

www.copricoastalconference.org/sponsors

10:10 – 12:10 p.m.	Technical Sessions – Session 1				
A-1: CS	B-1: SCD	C-1: CS or SCD	D-1: CS OR SCD		
Wave Loads 1 Moderator: Andreas Kortenhaus	Coastal Storms Moderator: Bryan Jones, P.E., D.PE, M.ASCE	Coastal Hazards & the Built Environment 1 Moderator: Chris Jones, P.E., M.ASCE	Evaluation of Nature Based Options & Performance Moderator: Bret Webb, Ph.D., P.E.		
Effects of High-Order Non-Linearity of Random Waves on Wave Pressures Acting on Breakwaters, Hiroaki Kashi- ma, Katsuya Hirayama, Nobuhito Mori	A High Resolution Storm Surge Model for Rhode Island Coastal Flooding, Within The Stormtools Framework, M. Reza Hashemi, Malcolm L. Spaulding	Wave, Surge, and Wind Damage to Near-Coast Structures During Super Typhoon Haiyan, Andrew Kennedy, Yoshimitsu Tajima, Nobuhito Mori,	Bridging the Gap Between Engineer- ing and Ecology: A Decision-Making and Design Framework for Nature- Based Defenses in Coastal Protection		
Forces Measurements on Storm Walls: A Large Scale Model Ex- periment, Alessandro Romano, Koen Van Doorslaer, Giorgio Bellotti, Ivan Caceres,	Similarity in Frequency and Severity of Flood Events on the U.S. Atlantic Coast Over The Past Century, Angela Schedel	Shen-En Chen Building Damage Analysis Following Hurricane Ike on the Bolivar Peninsula, Texas, Spencer Rogers, Andrew Kennedy	Borja González Reguero, Iñigo Losada, Siddharth Narayan , Bregje van Wesen- beeck, Kelly Burks-Copes, Nigel Pontee Natural Habitats Reduce Waves and		
Julien De Rouck, Leopoldo Franco Nonlinear Wave Loads on Decks of Coastal Bridges, Masoud Hayatdavoodi, R. Cengiz Ertekin	Identifying and Mapping Coastal Flood Risks After Hurricane Sandy in Rhode Island, Brian Caufield, Lauren Klonsky	Fragility Analysis of Single Family Home Wood Framed Buildings Con- sidering Wind and Flood Hazards, Carol Massarra, Carol Friedland	Storm Surge. What Does it Mean for My Community? Greg Guannel, Zach Ferdana, Chris Bergh, James Byrne, Laura Flessner A Forensic Analysis of the Performance of Ecologically Enhanced Fectures at Hunt's Point and Oak Point, The Bronx, New York, Andrew Rella		
Estimation of Impulsive Pressure Act- ing on an Upright Wall on a Steeply Sloping Sea Bottom, Kenichiro Shimo- sako, Shigeo Takahashi, Naoki Tsuruta,	Coastal Flooding at Gulf of Maine During Patriot's Day Storm, Dongmei Xie	Model Tests of Shallow Water Wave Loads on Walls, Ryan Tran, David Kriebel			
Kojiro Suzuki Dynamic Pressures On Semi- and Quarter-Circular Breakwaters, Xuelian Jiang, QingPing Zou	Incorporating a Blend of Solutions for Flood Mitigation in Hurricane Sandy Recovery, Matt Shultz, Rahul Parab, Long Xu, Susan McCormick	Case Study: Whole-systems Approach to Water Quality and Climate Impacts at the San Diego International Airport, Beth Breitenbach	A Forensic Analysis of the Performance of Ecologically Enhanced Features Along the Hudson River and The Bronx, New York, Andrew Rella		
Numerical Simulation of Hydrody- namic Interference Effects on Coastal Twin Bridge Decks Under Hurricane Waves, Guoji Xu, C.S. Cai	Impact of Hurricane Sandy on Dela- ware Coastal Areas, Mohammad Keshtpoor, Jack Puleo	Assessing the Efficiency of Stiffener Rings in Mitigating Surge Buckling Fragility of Above Ground Storage Tanks, Sabarethinam Kameshwar, Jamie Padgett	Speaking for the Resources: Strategie for Protecting Natural and Cultural Resources on Coastal Federal Lands During Coastal Hazard Responses, Er Bardenhagen, Rebecca Beavers		
1:30 – 3:30 p.m.	Technical Sessions – Session 2				
A-2: CS	B-2: SCD	C-2: CS or SCD	D-2: CS or SCD		
Wave Loads 2 Moderator: Javier Lara, Ph.D.	Mapping Coastal Flood Hazards Moderator: Jon Miller, Ph.D.	Coastal Hazards and the Built Environment 2 Moderator: Nasser Brahim, A.M.ASCE	Coastal Flood Barriers Moderator: Charlie Roberts, P.E., M.ASCE		
Wave Overtopping and Wave- Induced Loads on Coastal Sea Walls, Andreas Kortenhaus, Maximilian Streicher, Corinna Hohls, Koen Trouw, Corrado Altomare, Tomohiro Suzuki, Daphné Thoon, Peter Troch, Julien De Rouck	Identification of Coastal Hazard Maps for Altata Port and Culiacan, Sinaloa, México, Oscar Cruz-Castro, Juan Gaytan-Iniestra, José Concepción López-Rivera, Jorge Melendez-Estrada, María del Carmen López-Rosas	Storm Surge Risk Modeling in a Changing Climate: Assessing Impacts to Key Transportation Assets of the Central Artery System, Boston, MA, Kirk Bosma, Ellen Douglas, Paul Kirshen,	Galveston Region, Donald Hendon, Bruce Ebersole, Robert Whalin, Thoma Richardson, Chris Massey, William Me		
Experimental Study of Horizontal Wave Forces on Double Chamber Perforated Caisson, Sang-Ho Oh, Chang-Hwan Ji, Young Min Oh, Dal Soo	Estimation of Wave Runup and Over- topping for Coastal Flood Hazard Mapping, Bob Battalio, Pablo Quiroga, Louis White, To Dang	Chris Watson, Steven Miller Mapping the Vulnerability of Critical Infrastructure and Facilities, Daniel Boudreau, Samuel Bell Development of Coastal Road Protec-	Studies on Storm Surge Barrier for Flood Risk Reduction in the Houston- Galveston Bay, Sebastiaan Jonkman Community-Integration and the "Ike Dike": A Coastal Surge Protection		
Lee Investigation on Uplift Dynamic Pressures in Crown Wall Breakwaters, Edgar Mendoza, Manuel Verduzco-Zapata,	Identifying and Mapping Coastal High Hazard Areas on the Great Lakes, Michael Godesky, Tucker Mahoney, Don Resio	tion Utilizing an Artificial Neural Network for Storm Damage Assessment, Josh Carter, Matt Campbell	System for the Houston-Galveston Re- gion of Texas, Eric Bardenhagen, Galen Newman, Anna Loes Nillesen		
Rodolfo Silva Oscillating Water Column (OWC) Wave Energy Converters – Large	The Great Lakes Coastal Storm Haz- ards for Lake Ontario and Lake Erie, Jeff Gangai, Jesse Hayden, Yi Zheng	Coast Guard's Post Disaster Assessment and Evaluation of Critical Infrastructure, Brian Bachtel, Elizabeth Nakagawa, Niles Pierson	Design of Storm Surge Barriers in Gothenburg, Sweden, Henry Tuin, Hen rik Bodin-Sköld, Hessel Voortman, Mats Andréasson, Geert Schaap, Ulf Moback		
Scale Tests at GWK, Tom Bruce, William Allsop, John Alderson, Vincenzo Ferrante, Diego Vicinanza, Matthias Kudella Conjectures on the Failure of the	A Sensitivity Study of Storm Flooding Zones to the Accepted Risk and Wave Model Used: A Case Study for Washington County, Rhode Island,	Retrofitting Solutions from FEMA's Hurricane Sandy Mitigation Assess- ment Team, Daniel Bass , John Ingargiola	Addressing Hurricane Surge Hazard Uncertainty in Coastal Barrier Design Robert Jacobsen, Nathan Dill, Arden Her- rin, Michael Beck		

Hurricane Sandy Advisory Flood

Schambach

Annette Grilli, Malcolm Spaulding, Lauren

Mapping and Outreach, Tucker Mahoney, Kelly Bronowicz, Rick Sacbibit, Jon

Westcott, Matthew Buddie, Jeff Gangai, Emily Dhingra, Brian Batten

OWC Breakwater at Mutriku, Encar-

Analysis of a Vertical Caisson Break-

water Under Wave Induced Cyclic Loads, Jay Lee, Chris Pilkington, Fiona

nacion Medina-Lopez, William Allsop,

Aggelos Dimakopoulos, Tom Bruce

Chow

Aseismic and Anti-Tsunami Upgrade

of Existing Coastal Levees by Double

Sheet Pile Walls, Takefumi Takuma

Consumer Wind Hazard Mitigation

Decision Framework, Fatemeh Orooji,

Carol Friedland

Technical Program (continued)

4:00 – 6:00 p.m.	Technical Sessions – Session 3				
A-3: CS	B-3: SCD	C-3: CS or SCD	D-3: CS or SCD		
Wave Runup & Overtopping Moderator: Marcel Van Gent, Ph.D.	Resilience Moderator: Billy Edge, Ph.D., P.E., D.CE, Dist.M.ASCE	Nature Based Shore Protection Moderator: Louise Wallendorf, P.E., M.ASCE	Tsunami Generation & Modeling Moderator: Hajime Mase, Ph.D., M.ASCE		
Individual Overtopping Volumes for Steep Low-Crested Structures, David Gallach-Sanchez, Jeroen Platteeuw, Peter Troch, Andreas Kortenhaus Hydraulic Parameters of Overtopping Wave Volumes, Steven Hughes An Advanced And Improved Artificial Neural Network for the Prediction of Wave Overtopping, Barbara Zanuttigh, Sara Mizar Formentin, Jentsje Van der Meer Validation of Cumulative Overload Method Based on Tests by the New Wave Run-Up Simulator, Jentsje van der Meer, Gosse Jan Steendam, Andre van Hoven Wave Overtopping Prediction for Sloping Coastal Structures with Overspill Basin at Crest, Adriana Grossi, Andreas Kortenhaus, Alessandro Romano, Leopoldo Franco Extreme Wave Runup in the Coastal Zone: Experimental and Numerical Modeling, Colin Whittaker, Colm Fitzgerald, Paul Taylor, Alison Raby	Engaging Communities in Resiliency Efforts Post-Hurricane Sandy, Frances Bui, Lauren Klonsky Computing Coastal Storm Damages Prevented by USACE Projects, Susan Durden, Lauren Klonsky, Lori Hadley, Idris Dobbs Coastal Flood Protection Design in New York and New Jersey Region After Superstorm Sandy, Shan Zou Evaluation of Coastal Hazard & Climate Change Adaptation Strategies for Communities on the Delaware Bay, Steve Eberbach, Michael Powell, Tony Pratt, Mark Osler Quantification of Safety Standards for Small Islands in the Wadden Sea, Theide Wöffler, Holger Schüttrumpf Using New LiDAR Data to Update Old Tsunami Hazard Maps on the Island of Hawaii, Mull Jeremy, Elena Drei-Horgan, Kristen MacDougall	Designing Nature-Based Coastal Defenses: A Modeling Approach to Identify Critical Properties of Back Bay Systems, Seth Lawler, Celso Ferreira, Juan Luis Hervas Garzon, Jana Haddad Irregular Nonlinear Wave Propaga- tion Through Wetland Vegetation: Two-Dimensional Propagation, James Kaihatu, Aravinda Venkattaramanan A Series of Experiments Investigating Wave Attenuation Through Artificial Marshgrass, Mary Anderson Numerical Modeling of Coastal Protection Capacity of Mangrove Forests, Maria Maza, Javier L. Lara, Inigo J. Losada Evaluation of Berm Shape for Wave Energy Reduction in Restored Tidal Wetlands, Jane Smith, Elizabeth Murray, Thad Pratt Green Infrastructure for Coastal Resilience — Barges Beach, Cuttyhunk, Town of Gosnold, Tara Marden	Modeling Tsunami Sources and Their Propagation in the Atlantic Ocean for Coastal Tsunami Hazard Assessment and Inundation Mapping Along the U.S. East Coast, Stephan Grilli, Annette Grilli, Babak Tehranirad, James Kirby On the Need for Larger Manning's Roughness Coefficients in Depth-Integrated Tsunami Inundation Models, Jeremy Bricker, Stanford Gibson, Hiroshi Takagi, Fumihiko Imamura Hydro-Acoustic Wave Generation During the Tohoku-oki 2011 Earth-quake, Ali Abdolali, James T. Kirby, Giorgio Bellotti, Stephan Grilli, Jeffrey C. Harris The 1975 Kitimat Landslide Tsunami: Validation and Comparative Testing of Modeling Strategies, James T. Kirby, Fengyan Shi, Gangfeng Ma, Shubhra Misra, Pramod Rao Tsunami Hydrodynamic Modeling for Grays Harbor, Washington, Younes Nouri, Vladimir Shepsis		

Thursday, September 10

8:00 - 9:40 a.m.	Technical Sessions – Session 4				
A-4: CS	B-4: SCD	C-4: CS or SCD	D-4: CS or SCD		
Resilience & Assessment of Protection Structures Moderator: Barbara Zanuttigh, Ph.D.	Storm Surge Nuclear Power Plants Moderator: Mike Salisbury, P.E., M.ASCE	Performance Based Design Moderator: Giuseppe Tomaisicchio	Tsunamis Measurements and Debris Moderator: Shigeo Takahashi, Ph.D., D.CE		
Quantifying Resilience for Coastal Structures and Nourished Beaches, John Headland Resilience of Shore Protection Efforts During Disasters and Routine Conditions, Lesley Ewing, Costas Synolakis Engineered Shoreline Protection – Case Study from the Jersey Shore Material Selection Process, Sustainability, and Impacts from Sandy, Arthur Chew, Christopher Timpson Appropriate Coastal Protection Strategies for Caribbean Coastlines Under Threat from Rising Sea Levels and Hurricanes, Jamel Banton Matrix Approach for Assessment of Coastal Resilience, Cate Fox-Lent	Strategies in Mitigating Coastal Flooding Hazards to U.S. Nuclear Power Plants in the Post-Fukushima Environment, Mustafa Samad, Craig Talbot Evaluation of Reevaluated Coastal Storm Surge Risks at U.S. Nuclear Power Plants, Christopher Bender, Don Resio, Ashley Kauppila Deterministic vs. Probabilistic Methods for Storm Surge Modeling and their Implications on Nuclear Power Plant Design, Michael Salisbury Storm Surge – Tsunami Safety Criteria and Current Site Reviews in the United States, Henry Jones The Effects of Natural Structure on Extreme Statistics of Storms Surges, Don Resio	Probabilistic Design of the Secondary Breakwater in the New Harbour Basin of the Outer Port of La Coruña (Spain), Enrique Maciñeira, Enrique Peña, Victoria Bajo, José Sande, Fernando Noya Verification of the Rock Toe Stability Applying the Design Performance Curves, Montse Vilchez, María Clavero, Miguel A. Losada Systematic Selection Method for Storm Surge Protection Facilities Using Analytic Hierarchy Process, Takashi Tamada, Hajime Mase, Tomohiro Yasuda On the Design of Coastal Structures for Success (and Failure), David Basco Wave Impacts on Rock Lighthouses, Alison Raby, Davide Banfi, David Simmonds Technical Advances in the Development of a Floating Buoy WEC: MICO, Sara Izquierdo, Erick García-Santiago, Edgar Men-	"Smart" Debris Location Tracking Based on RFID Technique, Nils Goseberg, Ioan Nistor, Jacob Stolle Shipping Container Impact Assessment During Tsunamis, Ron Riggs, Clay Naito Optical and Numerical Study of Tsunami Impact through Discontinuous Vegetation Patches, Yongqian Yang, Jennifer Irish, Robert Weiss Flood-Induced Debris Dynamics over a Horizontal Apron, Jacob Stolle, Ioan Nistor, Nils Goseberg, S. Matsuba, Ryota Nakamura, Takahito Mikami, Tomoya Shibayama Stability of the Concrete Bridge Girder Under Tsunami, Masahiro Watanabe, Taro Arikawa		

Technical Program (continued)

10:10 a.m. – 12:10 p.m.	echnical Sessions – Session 5					
A-5: CS	B-5: SCD	C-5: CS or SCD	D-5: CS or SCD Tsunami Structures 1 Moderator: Ron Riggs, Ph.D., P.E., M.ASCE			
Armor Stability 1 Moderator: Jeff Melby, Ph.D., M.ASCE	Beaches Moderator: John Headland, P.E., D.CE, D.PE, M.ASCE	Coastal Modeling 1 Moderator: Dave Kriebel, Ph.D., P.E., D.CE, M.ASCE				
Rock Slopes on Top of Sand: Open Filters Under Wave Loading, Marcel van Gent Design of the Western Breakwater for the Outer Port at Punta Langosteira (A Coruña, Spain), Josep R. Medina, M. Esther Gómez-Martín, Enrique Peña, Antonio Corredor Numerical Modeling of Wave Reflection and Transmission in Vertical Porous Structures, Jeroen van den Bos Numerical Evaluation of Stability Methods for Rubble Mound Breakwater Toes, Senne Verpoorten, Wouter Ockeloen, Henk Jan Verhagen A New Symmetrical Unit for Breakwater Armour: First Tests, Mohammed Salauddin, Andre Broere, Jentsje van der Meer, Henk Jan Verhagen, Eelco Bijl Numerical Modeling of Breakwater Armour Systems, John-Paul Latham, Jiansheng Xiang, Pablo Higuera, Eleni Anastaski, Liwei Guo, Nikolaos Karant-	Terminal Groin and Beach Nourishment at Folly Beach County Park (South Carolina), Haiqing Kaczkowski, Steven Traynum, Tim Kana, Mike Rentz Winthrop Beach: Utilizing a Mixed Sediment Nourishment Regime to Restore an Urban Beach, John Ramsey, Joseph Orfant, Rachel Burckardt Climate Change and Barrier-Beach Responses: Hawke's Bay, New Zealand, Paul Komar, Erica Harris Impact Assessment of Future Climate Change on Sandy Beach – Case Study at Kaike Coast of Japan, Yoko Shibutani, Kentaro Hayashi, Masamitsu Kuroiwa, Nobuhito Mori, Hajime Mase Application of an Equilibrium Shoreline Model to the New Jersey Coast, Christian LaPann-Johannessen, Jon Miller General Model for Longshore Transport at Any Coastal Body, Giuseppe Roberto Tomasicchio, Felice	USACE ERDC's Coastal Storm Modeling System, Thomas Massey, Mary Cialone, Alison Grzegorzewski, Harry Friebel Development and Validation of an Operational Forecasting System for Waves and Coastal Flooding and Drying in Cook Inlet, Alaska, Abhishek Sharma, Vijay Panchang, Mindo Choi Can Resonance Modes Impact Hurricane Storm Surge Flooding in the Chesapeake Bay? Juan Luis Garzon, Celso M. Ferreira, Robert A. Dalrymple Development of Time-Evolving Surge Response Functions (TSRFs) in Galveston, Texas, Yi Liu, Jennifer Irish Optimum Scheme of Adaptive Mesh Refinement for Tsunami and Storm Surge Modeling, Yu Chida, Nobuhito Mori, Tomohiro Yasuda, Hajime Mase Hydrodynamic Modeling of the Barrier Islands and Tidal Inlets of Long Beach, Long Islands, Kenneth Hunu, Daniel Staple-	Hydrodynamic Impact of Bore Waves Against Structures, Davide Wüthrich, Ioar Nistor, Michael Pfister, Anton Schleiss A Method for Estimating the Reflected Tsunami Inundation Depth at the Front of RC Building with Aperture, Hideo Matsutomi Tsunami Response Analysis of Pile-Supported RC Buildings in Onagawa Town Due to the 2011 Great East Jape Earthquake and Tsunami, Yoshihiro Oku mura, Takuya Yane, Junji Kiyono, H.R. Riggs Numerical Analysis of Three-Dimension al Tsunami Induced Forces on Coastal Structures, Javier Lara, Inigo Losada, Pable Higuera, David Casasnovas, Raul Guanche Experimental Study on Solitary Wave Force Acting on Seawall, Taro Arikawa Experimental Study of Tsunami Waves and Forces on Simple Structures by Hybrid Tsunami Generator, Adi Prasetyc Tori Tomiczek, Tomohiro Yasuda, Nobuhito			
zoulis, Axelle Vire', Christopher Pain	D'Alessandro	ton, Bin Wang	Mori, Hajime Mase			
1:30 – 3:30 p.m.	Technical Sessions – Session 6					
A-6: CS	B-6: SCD	C-6: CS or SCD	D-6: CS or SCD			
Armor Stability 2 Moderator: William Allsop, Ph.D.	Design for Resilience Moderator: Spencer Rogers, M.ASCE	Coastal Modeling 2 Moderator: Jane Smith, Ph.D., P.E., D.CE, Dist.M.ASCE	Tsunami Structures 2 Moderator: Ioan Nistor, Ph.D., P.Eng, M.ASCE			
Physical Modeling and Design Optimizations for a New Port in Brazil, Scott Baker, Nels Sultan, Andrew Cornett Scour Protection, Terminal Groin/ Jetty Construction and Beach Replenishment at Amtrak's New Niantic River Bridge, J. Richard Weggel, Craig Benedict, Ara Mouradian, John Brun Design and Construction of Berm Breakwaters, Sigurdur Sigurdarson, Jentsje van der Meer Concrete-Enhanced Synthetic Turf Revetment System – An Innovative Technology for Protecting Coastal Structures, Bradford Cooley, Christo- pher Thornton, Steven Hughes A Rubble Mound Breakwater with	Post Hurricane Sandy Storm Damage Assessment and Breach Fill Coastal Engineering Analysis, Jeff Tabar Design Resilient Coastal Structures Using Risk-Informed Decision Making, Daniel Stapleton, Russell Morgan, Bin Wang, Peter Williams Improving the Representation of the Fragility of Coastal Structures, Robert Jane, David Simmonds, Alison Raby, Luciana Dalla Valle, Jonathan Simm, Ben Gouldby Case Study: Village of Surfside, Texas – Design, Performance, and Adaptive Management of Coastal Structures, Matt Campbell, Casey Connor, Josh Carter A Review of Methods Used to Improve the Resilience of Commu-	Projection of Future Wave Climate Due to Global Warming – Application to Coastal Structures, Nobuhito Mori Projection of Storm Surge in the Future Climate Considering Bias of Typhoons by GCM, Tomohiro Yasuda, Nariaki Katahira, Nobuhito Mori, Hajime Mase Is There any Impact to the Coastal Regions Caused by Typhoon Weather Changes Due to Global Warming? Ryusuke Hashimura EOF Analysis of the WIS Wave Dataset along the U.S. East Coast to Forecast Coastal Hazards, Elizabeth Livermont, Jon Miller, Christian LaPann-Johannessen, Thomas Herrington Tsunami-like Bores Generated from Storm Waves, Volker Roeber, Jeremy Bricker	Numerical Analysis on Tsunami Overtopping Caisson Breakwaters and Stability of Armor Units, Jun Mitsui, Akira Matsumoto, Minoru Hanzawa, Kazu Nadaoka Stability of the Breakwater with Steel Pipe Piles under Tsunami Overflow, Sl Oikawa, Taro Arikawa, Yoshiaki Kikuchi, Akihito Yahiro, Kenichiro Shimosako Wave Force Reduction Effect Of Wave Dissipating Works Against Tsunami wi Soliton Fission, Sohei Maruyama, Tomotsi Takayama, Kenichiro Shimosako, Akihiko Yro, Kojiro Suzuki, Toru Aota, Masashi Tanak Akira Matsumoto, Minoru Hanzawa Development and Installation of Flapgate Seawall Against Tsunami, Yuichir Kimura, Katsuya Shimizu, Masaaki Wani, suhiro Yasuda, Hiroki Kimura, Hajime Mas			
Two Submerged Berms, Berguzar Ozbahceci, Alp Kucukosmanoglu Experimental Study on Wave Transmission Characteristics and Stability of Submerged Structures	nities In Low-Income Countries to coastal floods and Their Relevance to the United States, Darren Lumbroso, Jonathan Simm, Robert Nichols, Kathleen White, Natalie Suckall, Susan Durden		Membrane Tsunami Barrier with Dyneema, Bas Hofland, Roelof Marissen Experimental Study on Tsunami Charteristics Flowing Over Breakwaters w			

The Need for a Fundamental Framework on Resilience in Coastal Risk Reduction Systems, Mathijs van Ledden, Bas Jonkman, Nancy Powell, Fola Ogunyoye, Bob Rowlette

Stability of Submerged Structures,

Jong-In Lee, Sungwon Shin, Ilro Bae

teristics Flowing Over Breakwaters with

Different Shapes, Shota Seto, Yoshimitsu Tajima, Hideyuki Nakao

3:30 - 5:30 p.m.

Poster and Networking Session in Exhibit Hall

Influence of Wave Chamber Width on the Horizontal Wave Forces on the Perforated Caisson, Chang-Hwan Ji, Sang-Ho Oh, Young-Min Oh, Se-chul Jang

Coastal Resiliency Starts with Understanding Your Risk, Michael DelCharco, Christina Lindemer

Risk Assessment and Management for Interconnected Critical Costal Levee Infrastructure Systems in Case of Overtopping, Hamed Hamedifar, Robert Bea, Juan Pestana-Nascimento, Emery Roe

Structural Deflections from Wave Forces, Garland Pennison

Detailed Characterization of Tropical Cyclones and Surge Levels for the Houston-Galveston Region, Antonia Sebastian, E.J.C. (Guy) Dupuits, Sebastian

Applied Wave Modeling for Harbor Improvements: An Opportunity for BoussinesQ Model Advancement, Philip Blackmar, Ronald McPherson, Harvey Smith

Alliance for a Living Ocean's Participation in the Grassroots Community Relief Effort After Hurricane Sandy on Long Beach Island, NJ, USA, Amy Williams, Christopher Huch, Jr.

Ocean Fishing Piers - Coastal Engineering Guidelines for Hurricane Resistant Design and Construction, Ralph Clark

A Study on the Estimation of Sediment Discharge from the Naka River by using the Hybrid Method, Makoto Takahashi

Mitigating Shoreline Erosion at Mc-Murdo Station, Antarctica, Mark Osler, Karin Ohman, Mohammad Keshtpoor

Setting Priorities for Nature-Based Solutions, Hande Caliskan

Structural Evaluation of Multifunctional Flood Defences Using Generic Element Types, Mark Voorendt, Han

Dynamic Tidal Effects on Tsunami Propagation and Implications for Coastal Tsunami Hazard Assessment, Michael Shelby, Stephan Grilli, Annette

Wave Loading Assessment for Beachfront Houses, Guoji Xu, C.S. Cai

Performance of Armor Blocks Behind Sewall by Over Flow Due to Tsunami, Gozo Tsujimoto, Tetsuya Kakinoki, Kohji Uno, Ayaka Yamaoka

The effect of a Dragging Anchor on a Horizontal Layer of Rockfill, **S. Crum**, M.L.E.B. van der Hoeven, L.P.H.C. Krouwel, Henk Jan Verhagen

Monmouth Beach, NJ - NFWF Dune Restoration and Endangered Species Habitat Enhancement Project, Mark Jaworski

Gap Analysis for the Implementation of Hazard Science to Increase Community Resilience, Dennis Hwang

Evaluating the Resiliency of Coastal North Florida, Morgan Smith, Sergio

Numerical Investigation of Developed and Underdeveloped Barrier Island Response to Hurricane Sandy, Stephanie M. Smallegan, Jennifer L. Irish, Joost P. den Bieman, Ap R. van Dongeren

Risk Based Design Approach for Resilient Coastal Communities, King

Crescent City Harbor Tsunami Damage and Recovery Ted Trenkwalder,

Stability Tests and Damage on Breakwaters Armoured with Tetrapods Otavio Sayao, Renan Silva

An Experimental Study of Overtopping Profile in the Leeside of Breakwater, Yong-Uk Ryu, Young-Taek Kim, Jong-In Lee

Multivariate Coastal and Off-Shore Design and Risk Assessment Via Copulas at the Arabian Gulf, Gianfausto Salvadori, Giuseppe Roberto Tomasicchio, Felice D'Alessandro, Walid El-Shorbagy, Abu Baker El-Hakeem

Impacts of Sea Level Rise and Climate Change on Boston Harbor – Coastal Inundation Mapping, Tianyi Liu, Bin Wang, Daniel Stapleton

Vulnerability Assessment of Rhode Island's Marinas to Sea Level Rise and Storm Surge Wendy Laurent

Preliminary Investigations of the free-Surface Physics of Wave Impact on Sea Walls, Jannnette Frandsen

Assisting Communities in Becoming More Resilient: Mitigation and Resiliency Funding, Samuel Bell

Sediment Transport Field Study Around a Notched Groin, Omar Lopez-Feliciano

Numerical Study on Breakwaters by the Accurate Particle Method, Noaki Tsuruta, Kojiro Suzuki, Kenichiro Shimosako, Hitoshi Gotoh

Evaluation of Storm Surge and Sea Level Rise in Wickford, Rhode Island, Alex Shaw, Malcolm Spaulding, Christopher Baxter

Geotechnical Mitigation and Adaptation to Climate Change-Induced Geo-Disasters in Asia-Pacific Regions, Yasuhara Kasuya, Hemanta Hazrika, Do Minh Duc, Mathew Francis

Physical Modeling to Support the Rehabilitation and Design Optimization of the Jetties at the Mouth of the Columbia River, Paul Knox, Gillian Millar, Scott Baker, Susan Tonkin, Andrew Cornett

A Hydrodynamic Modeling and Geospatial Framework for Assessing the Storm Surge Protection Potential Provided by Wetlands to Virginia's Coastal Populations, Jana Haddad, Seth Lawler, Celso Ferreira

Typhoon Risk from Wind, Flood and Storm Surge Perils in Japan, Ruilong Li, Cagdas Kafali

Modern Building Codes and Flood Resilience, Gregory Wilson, Rebecca

Conclusions and Recommendations from FEMA's Hurricane Sandy Mitigation Assessment Team, John Ingargiola, Erin Ashley

Hydrodynamic and sediment Transport Modeling of an Alabama Coastal Lagoon to Assist With Sediment Bypassing and Maintenance of Water Quality, Bryan Groza, Bret Webb

Salisbury Tide Gate, Ryan McCoy, J. Matthew Bellisle

Wave Overtopping on Vertical Structures: Variation of Superstructure and Vertical Wall, Young-Taek Kim, Jong-In

Stakeholder Involvement in Understanding the Economic Impacts of Climate Change and Storm Surge on Maritime Infrastructure: Rhode Island Pilot Study, Eric Kretsch

Understanding the Role of Resiliency in the U.S. Army Corps of Engineers, **Emily Vuxton, Lauren Leuck**

Understanding the Ecology of Bioengineering: The Importance of Restoring Native Plant Communities and Achieve Coastal Stability Through the Innovative Use of Bioengineering, Seth Wilkinson

SAFRR Tsunami Scenario Debris Management Assessment of Californian Port Facilities, Terri Norton, Phillip Moore, Anne Wein

Friday Sontombor 11

8:30 - 10:30 a.m.	Technical Sessions – Session 7			
A-7: CS	B-7: SCD	C-7: CS or SCD	D-7: CS or SCD	
Wave Soil Structures Moderator: Nobuhito Mori, Ph.D., A.M.ASCE	Climate Change – Changing Hazards & Effects Moderator: Karthik Ramanthan, Ph.D.	Nature Based Breakwaters Moderator: Rob Walker, Ph.D., P.E., S.M.ASCE	Urban Shorelines Moderator: Brian Caufield, P.E., M.ASCE	
Exploring the Need for Geotextile Filters for Rubble Bunds Retaining Sand-Fill Islands, William Allsop, Andrea Polidoro, Tim Pullen Sliding and Floating of Wooden Houses Due to Storms Surge and Waves, Xavier Chavez Cardenas, Nobuhisa Kobayashi, Rebecca Quan Breakwater Innovation Concept Design Using Geotextile Tube as Core, Daoxian Dave Shen, Edward Albada, Ron Beardsley, Liang He, Padhraic O'Connor Numerical Simulation on Scour Behind Seawall due to Tsunami Over- flow, Dong Wang, Taro Arikawa, Shaowu Li, Hayao Gen Wave-Induced Seabed Instability Around Breakwaters, Dong-Sheng Jeng Laboratory Modeling of Scour on Seamalls, Ravindra Jayaratne, Edgar Mendoza, Rodolfo Silva, Francisco Gutiér- rez	The Financial Cost of Rising Sea Levels in Southeast Florida, Mark Hope, Tim Doggett, Karthik Ramanathan Sea Level Rise and the National Flood Insurance Program, Mark Crowell Application of STORMTOOLS's Simplified Flood Inundation Model, With and Without Sea Level Rise to Rhode Island Coastal Waters, Malcolm Spaulding Climate Change Impacts on Wave and Surge Processes in a Pacific Northwest (United States) Estuary, Tiffany Cheng, David Hill, Jordan Beamer, Gabriel García-Medina Conceptual Response of Runup-Dominated Coastlines to Sea Level Rise and Anthropogenic Adaptation Measures, Justin Vandever, Jeremy Mull, Darryl Hatheway, Vince Geronimo, Kris May Methods for the Evaluation of Coastal Flooding at Multiple Return Periods Under Present and Future Sea-Levels, Taylor Asher, Gabriel Toro	Emulating Nature by Building an Island Style Breakwater for the Ft. Pierce Marina, Jack Cox CFD Modeling for Analysis of Living Shoreline Structure Performance, Josh Carter, Scott Fenical, Craig Harter, Joshua Todd Erosion Mitigation Using Soft Engineering: Application of Dynamic Revetments on the Pacific Northwest Coast of Oregon, Jonathan Allan, Paul Komar Effects of Low-Crested Living Shoreline Breakwaters on Wave Setup, Kari Servold, Bret Webb, Scott Douglass Wave Transmission Through Artificial Reef Breakwaters, Bret Webb, Richard Allen Re-engineering of Coral Reefs for Coastal Protection: A Pilot Experience in the Caribbean, Borja González Reguero, Philip Kramer, Boze Hancock, Michael Beck, Vera Agostini, Ruth Blyther	Solstice Creek Restoration: Sustainability of Fisheries in Southern California, Ben Willardson, Tsou Jaw, Peter Champion Rockaway Boardwalk - Urban Shore line, Jonathan Goldstick, Domenica Stasiak Rehabilitating Boston's Aging Seawalls for Sea Level Rise and Coasta Resiliency, Charlie Roberts, Rebecca Skalaski Balancing Shore Protection and Public Access Concerns: Engineering a Solution for an AMTRAK Track Realignment, Bill Scheer, Sean Kelley, John Ramsey Development of a Wave Power Gereration System Using a Vertical Breakwater, Takaaki Shigematsu, Kenji Katoh, Tatsuro Wakimoto Rapid Identification and Assessment of New York City's Waterfront, Stephen Famularo, Brian Craine	
10:45 a.m. – 12:45 p.m.	Technical Sessions – Session 8			
A-8: CS or SCD	B-8: CS or SCD	C-8: CS or SCD	D-8: CS or SCD	
Coastal Dunes Performance & Modeling Moderator: Kenneth Craig, P.E., M.ASCE	Coastal Modeling 3 Moderator: Lynn Bocamazo, P.E., D.CE, M.ASCE	Coastal Zone Management Moderator: Tom Herrington, Ph.D.	Tsunami Mitigation Moderator: Tomoaki Nakamura, Ph.D.	
Conceptual Design and Physical Model Study of Core-Enhanced Dunes as Hybrid Coastal Defense Structures, Jens Figlus, Nicholas West, Badreyah Almarshed, Sebastiaan Jonkman Comparison of the Damage Mecha-	Coastal Hazards System, Jeffrey Melby Assessing Extreme Coastal Storm Climatology and Associated Flooding Potential for Coastal New England, Michael Mobile, Douglas Stewart, Daniel Stapleton, Lee Branscome	Massachusetts Coastal Erosion Commission: Work, Findings & Recommedations, Rebecca Haney Inlet Management in Massachusetts with an Aim to Address Shoreline	Future Tsunami Disaster Mitigation – Lessons Learned from the Great Eas Japan Earthquake and Tsunami Di- saster, Shigeo Takahashi, Takashi Tomit Kenichiro Shimosako Tsunami Reduction due to Breakwa	
nisms to Oceanfront Structures Protected by a Dune System vs. a Rock Seawall During Hurricane Sandy, Kat- lin Walling, Jon Miller, Thomas Herrington Evaluating the Economic Effects of Coastal Dunes in Reducing Storm- Induced Property Damage: Hurricane	Design Implications of Uncertainty Analysis as a Means to Interpret Coastal Hazard Modeling: Diego Garcia Case Study, Adam Keen, Patrick Lynett, Rob Sloop Storm Surge Forecast Using a Neural Network – Case Study of Sakai	Erosion, Sean Kelley, John Ramsey, Hugh Ruthven Implementing a Structural Compensa- tion Program for Connecticut's Long Island Sound Coastline, Ian Yue Social Vulnerability eXplorer (SV-X), David Lanter Building Coastal Resilience Through	ters – Lessons Learned from the 20 Tohoku Tsunami, Takashi Tomita, Tatsu Niwa, Kazuhiko Honda Performance-Based Tsunami Engine ing: Data Explorer, Harry Yeh, Dylan Keon, Patrick Lynett, Hong Kie Thio Tsunami disaster risk management	
Ike and Galveston Island Case Study, Jacob Sigren, Wesley Highfield, Jens Figlus, Anna Armitage	Minato and Hamada, Japan, Sooyoul Kim, Yoshiharu Matsumi, Yujiro Izuta,	Training: Experiences and Lessons from the National Disaster Prepared-	capabilities in Greece, Georgios Marios Karagiannis, Costas Synolakis	
,.	Minato and Hamada, Japan, Sooyoul			

Assessing Coastal Erosion for Kivalina for Engineering and Economic Analysis for Climate Change Adaptation, Amit Arm-strong, Jerry Ramsden, Elias Scheker Da Silva

Technical Program (continued)

2:00 – 3:20 p.m.	Technical Sessions – Session 9	
A-9: CS or SCD	B-9: CS or SCD	C-9: CS or SCD
PANEL 1 Moderator: Malcolm Spaulding, Ph.D., P.E., M.ASCE	PANEL 2 Moderator: Juliette Hart, Ph.D	Tsunami Morphology/Sediments Moderator: Harry Yeh, Ph.D., P.E., M.ASCE
The Path Forward in Coastal Flooding in the Presence of Sea Level Rise	Urban Shorelines: Say What? Strate- gies for Effective Communication of	Tsunami-Induced Beach Profile Changes with Different Initial Profiles, Yoshiaki Kuriyama, Yoshiyuki Uno, Kazuhiko Honda, Kenya Takahashi
Panelists: Grover Fugate, Director, Coastal Re-	Technical Information in Stakeholder Engagement	Does Morphological Adjustment During Tsunami Inundation Increase Levels of Hazard? Babak Tehranirad, James Kirby, Fengyan Shi, Stephan Grilli
sources Management Council	Panelists:	A Study on Tenacity of Coastal Dikes Constructed by Clay and Lean Cement
Christopher P. Jones, P.E.	Juliette Finzi Hart, USC Sea Grant	Mixed Soil Tsunami Overflow, Takahide Honda, Yukinobu Oda, Kazunori Ito, Hiroyasu Ishii, Tomoyuki Takabatake
Spencer Rogers, NC Sea Grant	Phyllis Grifman, USC Sea Grant	Study on Tsunami Scour at Landward Toe of Coastal Dike and Tsunami Force
Bret M. Webb, Ph.D., P.E., Associate Professor of Civil Engineering, University of South Alabama	Alyssa Newton Mann, USC Sea Grant	on Its Armor Blocks, Tomoaki Nakamura, Yuta Nezasa, Norimi Mizutani, Yasuo Kotake
South Alabama		Soil-Instability And Sediment Transport Estimates for a Hypothetical Tsunami Event at Seaside, Oregon, H. Benjamin Mason, Rachael Fischer

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