

2011 | SOLUTIONS TO COASTAL DISASTERS CONFERENCE

Anchorage, Alaska • June 26-29, 2011

Sea Level Change



Arctic Environment



Wind

Coastal storms

Coastal Erosion

Hurricanes



Seismic Events and Tsunamis

Climate Change



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

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2011 Conference

Steering Committee

Organizing Committee

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 Coastal Zone Foundation

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 Flood Hazard Research Centre, Middlesex University

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Louise A. Wallendorf, P.E., M.ASCE
 United States Naval Academy

COPRI Staff

Tom Chase, *Director*
 Angie Lander, *Coordinator COPRI*

Conference Staff

Lucy King, *CMP, Sr. Manager*
 Jessica Johnson, *Coordinator*

Schedule-at-a-Glance

(Subject to Changes)

Sunday, June 26

7:30 a.m. - 5:30 p.m.

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

8:00 a.m. - 4:00 p.m.

ICE Engineering (Lunch included) (Dillingham)

8:30 a.m. - 12:00 p.m.

NOAA Coastal Inundation Mapping (King Salmon)

1:30 - 5:00 p.m.

Coastal Management (King Salmon)

5:00 - 7:00 p.m.

ICE BREAKER RECEPTION WITH POSTERS AND EXHIBIT (Top of the World)

Monday, June 27

7:00 a.m. - 4:00 p.m.

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

9:30 a.m. - 3:30 p.m.

EXHIBITS OPEN

8:30 - 10:00 a.m.

OPENING PLENARY SESSION (Alaska/Aleutian)

10:00 - 10:30 a.m.

NETWORKING BREAK (Promenade)

10:30 a.m. - 12:00 p.m.

TECHNICAL SESSIONS

12:00 - 1:30 p.m.

LUNCHEON WITH SPEAKER (Alaska/Aleutian)

1:30 - 3:15 p.m.

TECHNICAL SESSIONS

3:15 - 3:45 p.m.

NETWORKING BREAK (Promenade)

3:45 - 5:30 p.m.

TECHNICAL SESSIONS

Tuesday, June 28

7:00 a.m. - 4:00 p.m.

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

9:30 a.m. - 3:30 p.m.

EXHIBITS OPEN

8:30 - 10:00 a.m.

TECHNICAL SESSIONS

10:00 - 10:30 a.m.

NETWORKING BREAK (Promenade)

10:30 a.m. - 12:00 p.m.

TECHNICAL SESSIONS

12:00 - 1:30 p.m.

Lunch on Your Own

1:30 - 3:00 p.m.

JAPAN TSUNAMI PLENARY SESSION #1 (Alaska/Aleutian)

3:00 - 3:30 p.m.

NETWORKING BREAK (Promenade)

3:30 - 5:00 p.m.

JAPAN TSUNAMI PLENARY SESSION #2 (Alaska/Aleutian)

6:30 - 10:00 p.m.

KEY SOCIAL EVENT AT ANCHORAGE MUSEUM

Wednesday, June 29

7:00 a.m. - 4:00 p.m.

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

9:30 a.m.- 3:30 p.m.

EXHIBITS OPEN

8:30 - 10:00 a.m.

TECHNICAL SESSIONS

10:00 - 10:30 a.m.

NETWORKING BREAK (Promenade)

10:30 a.m. - 12:00 p.m.

TECHNICAL SESSIONS

12:00 - 1:30 p.m.

NETWORKING LUNCHEON (Alaska/Aleutian)

1:30 - 3:00 p.m.

TECHNICAL SESSIONS

3:00 - 3:30 p.m.

NETWORKING BREAK (Promenade)

3:30 - 5:00 p.m.

CLOSING GENERAL SESSION (Alaska/Aleutian)

A special thanks to Costas Synolakis and Jose Borrero, who contributed photos to this preliminary program.

Welcome to Solutions to Coastal Disasters 2011

Dear Colleagues,

On behalf of the Solutions to Coastal Disasters Organizing Committee, welcome to the 2011 Solutions to Coastal Disasters Conference in Anchorage, Alaska. This conference series was developed to provide formal and informal venues for the exchange of information, tools and ideas relating to coastal hazards, and has encouraged involvement by a broad audience of coastal professionals for multi-disciplinary approaches to coastal issues.

Recent natural/manmade disasters such as the devastating earthquake and tsunami in Japan, Katrina and the BP oil spill have shown that good planning, management and communication among all disciplines and with the public is necessary when pushing the envelope of engineering in the coastal environment. The Solutions to Coastal Disasters Conference Series (2002, 2005, 2008 and now 2011) has attracted a diverse audience: managers, natural scientists, public policymakers, lawyers, social scientists, members of the public, as well as engineers. All care about the coast.

Alaska has 33,904 miles of coastline with all the coastal hazards: earthquakes, tsunamis, sea level rise, ice and coastal storms. The arctic region is considered the last natural frontier of the United States and also has access to the Northwest Passage and a large area of unexplored oil reserves. Developing and conserving the rich natural resources and heritage and minimizing the risk of any coastal disaster is one of the United States' biggest challenges for the 21st Century.

We look forward to enjoying a thought provoking and productive week with you in Anchorage!

Best regards,

Louise Wallendorf, P.E.

Chair, Organizing Committee

Dear Colleagues,

On March 10, 2011 an earthquake with a magnitude of 9.0 struck off the northeastern coast of Japan. When we woke up Friday morning, we watched the destructive forces of the seismic event and the resulting tsunami. In the wake of such natural disasters, it is up to the engineering community to provide insight, assessments, and lessons learned to help plan for a safer future.

Earthquakes, tsunamis, floods and hurricanes can quickly devastate our coasts, ports and inland waterways. I had the honor of being on an investigation team after Katrina rocked the Gulf Coast. The experience for me was a life lesson on the disruptive force of natural disasters and the need for our professional societies to quickly disseminate to our colleagues what worked and what did not. These lessons learned also help our governmental bodies and those developing design standards make sure our structures are built as safe as possible.

The Solutions to Coastal Disasters Conference series is an important part of this discussion. Your research and experience are invaluable resources, and I look forward to sharing insights and exploring new solutions with you this week in Anchorage.

Warm Regards,

Stanley M. White, P.E., D.PE, D.CE, M.ASCE

President, COPRI



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Sunday, June 26

Ice Engineering Short Course

8:30 a.m. - 4:00 p.m. (Lunch 12:00 -1:00 p.m.) (Dillingham)

Instructors:

- **Steven F. Daly, P.E., Ph.D.**, U.S. Army Engineering Research and Development Center, Cold Regions Research and Engineering Laboratory
- **Orson P. Smith, P.E., Ph.D.**, University of Alaska Anchorage, School of Engineering

This short course provides an overview of ice engineering principles and practices useful to engineers working in the coastal zone, with a view toward impacts of ice on existing coastal works and ice-related coastal disasters. Ice formation and classification are reviewed, followed by an introduction to ice effects, ice forces and methods to design for the presence of ice. Much of the information of the short course is excerpted from courses of the University of Alaska Anchorage Arctic Engineering graduate program, including CE A603 Arctic Engineering, CE A682 Arctic Hydrology and Hydraulic Engineering and CE A683 Ice Engineering. The three presenters are instructors of these courses.

NOAA Coastal Inundation Mapping: A Comprehensive and Interactive Approach to Mapping Sea Level Rise Using GIS

8:30 a.m.-12:00 p.m. (King Salmon)

Instructor:

- **Doug Marcy**, NOAA Coastal Services Center

This short course is designed to provide the attendee with a wide range of current and relevant information on coastal inundation with an emphasis on techniques for mapping sea level rise using a GIS. The course is a combination of lectures and live demonstrations focused on multiple coastal inundation topics including the resources available for products and data, enhanced spatial methodologies used to delineate flood areas in a coastal environment, visualization techniques, and more. This workshop is designed for certified floodplain managers, state, county and municipal officials and planners, and those with current GIS skills that are interested in learning more about mapping coastal inundation. The short course scheduled topics are listed below.

- Introduction to Coastal Inundation
- Obtaining and Preparing Elevation Data
- Preparing Water Levels
- Mapping Inundation/NOAA SLR Product Demo & Discussion

The information and techniques in the short course are based on NOAA's two day hands-on Coastal Inundation Mapping course. For more detailed information about the short course or the full training please contact Matt Pendleton at **Matt.Pendleton@noaa.gov**.

Coastal Management: Bottom Line Messages from the Social Sciences

1:30 -5:00 p.m. (King Salmon)

Instructors:

- **Loraine McFadden, Ph.D.**, Flood Hazard Research Centre, Middlesex University
- **Lesley Ewing, P.E., D.CE**, California Coastal Commission
- **Craig Stephenson, Ph.D.**, Sustainability Research Centre, University of the Sunshine Coast (invited)

"Concern for man and his fate must always form the chief interest of all technical endeavours ... Never forget this in the midst of your diagrams and equations." -Albert Einstein

This short course will explore fundamental issues for coastal management from the perspectives of the social sciences. It will have a strong focus on case-studies and will cover a series of important themes including:

1. A critical look at integration: the holy grail of environmental management. What are some of the general principles, challenges and the context for integrated management?
2. A specific review of Integrated Coastal Zone Management: the definition of ICZM and an introduction to how social processes are the critical bottom line of integrated coastal management.
3. Exploring social processes through practical case-study examples: the relevance and application of social concepts and processes to improving the sustainability of coastal management. Themes will include for example the social articulation of risk, adaptive capacity, social justice and social learning.
4. Identifying lessons for managing human responses to key stressors on coastal environments: climate change, development and tsunami/extreme wave events as examples. Case-studies will be used to explore key drivers of coastal change and highlight social science perspectives on building more effective management responses.
5. Governance processes of ICZM: what are the opportunities, constraints and implementation challenges inherent within integrated coastal management and are there examples of how these are being addressed?



Sunday, June 26

Ice Breaker Reception with Posters and Exhibit

5:00 - 7:00 p.m. (Top of the World)

Reconnect with former colleagues and meet new friends at this year's Welcome Reception. Enjoy light refreshments, poster presentations, and exhibit as you network and discuss

Monday, June 27

Opening Plenary Session

8:30 - 10:00 a.m. (Alaska/Aleutian)

SPEAKER: Mead Treadwell (invited), Lieutenant Governor of Alaska

TOPIC: Natural Hazards in Alaska – How Do We Govern Most Effectively?

Lt. Governor Treadwell is recognized as one of the world's Arctic policy experts. In the private sector, he has launched a series of technology, manufacturing, and service companies including a geospatial and imaging technology company and was a founding member of the Yukon Pacific Corporation, which started the all Alaska gas pipeline project. During the Exxon Valdez oil spill crisis, Treadwell served as the Cordova, AK, director of spill response. His public sector contributions include working to launch the Prince William Sound Oil Spill Recovery Institute, helping to develop Alaska's environmental protection regulations, and establishing the environmental crime unit for the state. He was also a Senior Fellow of the Institute of the North, an endowed public policy research program that focuses on Alaska and Arctic natural resource issues, governance of public assets, geography, and national security.



SPEAKER: Margaret "Meg" Caldwell (Invited), Stanford University and Center for Ocean Solutions

Meg Caldwell's career has focused on the environmental effects of local land use decisions, the use of science in environmental and marine resource policy development and implementation, and developing private and public incentives for natural resource conservation. Caldwell is a regular in Washington, D.C. and Sacramento alike, working with elected officials, ocean and coastal agencies and their stakeholders to tackle major challenges with practical approaches. She also served as a Senior Consultant to the National Commission on the BP Deepwater Horizon Oil Pill and Offshore Drilling, providing both oral testimony and written reports to the Commission on recommendations to reform federal oversight of offshore oil exploration and drilling.

Luncheon With ASCE 2011 President-Elect

12:00 - 1:30 p.m. (Alaska/Aleutian)



SPEAKER: Andrew W. Herrmann, ASCE 2011 President-Elect

Andrew W. Herrmann P.E., SECB, F.ASCE, principal with Hardesty & Hanover, LLP, serves as president-elect of the American Society of Civil Engineers (ASCE).

During his 37 years at Hardesty & Hanover, LLP, Herrmann has held many positions

including structural detailer, structural engineer, project engineer, and associate engineer before becoming a managing partner and then a principal. Herrmann's experience includes design, inspection, rehabilitation, and construction along with managing some of the firm's major bridge projects.

Within ASCE, Herrmann has served as president of the New York City Metropolitan Section, chair of the Technical Administrative Committee on Bridges and director of Region 1. He served on the Advisory Council for the 2003 and 2005 Report Cards for America's Infrastructure and chaired the council for the 2009 Report Card. Herrmann has also served as a spokesperson for ASCE and appeared in the History Channel documentary "The Crumbling of America."

Tuesday, June 28

Key Social Event

6:30 - 10:00 p.m. (Anchorage Museum)

Congress attendees are invited to experience the unique and exciting culture of the Anchorage area during our special evening together at the Anchorage Museum. Plan to join us at this incredible venue for the ultimate networking event and celebration of Solutions to Coastal Disasters 2011 Conference! Later in the evening, join your colleagues for our movie presentation in the Planetarium. Plan to join us at an incredible venue for the ultimate networking event and celebration of Solutions to Coastal Disasters 2011 Conference achievements and colleagues!

For those who are unable to walk with us to the Anchorage Museum, there will be a shuttle looping between the Hilton Anchorage (Third Avenue Entrance) and Anchorage Museum from 6:30 to 10:00 p.m.

COPRI Japan Tsunami Plenary Session #1

1:30 - 3:00 p.m. (Alaska/Aleutian)

The first of this two-part plenary session provides an overview of the Japanese earthquake and tsunami, inundation levels, and structural damage.

Moderator:

Bob Battalio, P.E., ESA PWA

Speakers:

- Shigeo Takahashi, Ph.D., Director of Asia-Pacific Center for Coastal Disaster Research, Port and Airport Research Institute, Port and Airport Research Institute (PARI) of Japan
- Hermann Fritz, Ph.D., M.ASCE, Georgia Institute of Technology
- Gary Chock, P.E., M.ASCE, Martin & Chock, Inc.



COPRI Japan Tsunami Plenary Session #2

3:30 - 5:00 p.m. (Alaska/Aleutian)

The second segment of the special plenary session on the Japanese earthquake and tsunami takes an in-depth look at what we've learned from the event—from statistical modeling and important lessons for the other coasts to practical implications for what civil engineers should be doing now.

Moderators:

Stan White, P.E., *President, COPRI, and Todd Cowles, Port of Anchorage*

Speakers:

- Yong Wei, Ph.D., *NOAA*
- Lesley Ewing, P.E., *California Coastal Commission, and Ron Noble, P.E., Noble Consultants, Inc.*
- Steve Dickenson, Ph.D., P.E., *New Albion Geotechnical*
- Ian Robertson, Ph.D., P.E., *University of Hawaii*

Wednesday, June 29

Networking Luncheon

12:00 - 1:30 p.m. (Alaska/Aleutian)

Join us for a relaxed luncheon and opportunity to network with your colleagues.

Closing General Session

3:30 - 5:00 p.m. (Alaska/Aleutian)



SPEAKER: Ian Robertson

TOPIC: Future Building Design in Tsunami Prone Areas

Ian Robertson, Ph.D., P.E., is a professor of Structural Engineering in the Department of Civil and Environmental Engineering at the University of Hawaii at Manoa. His research interests include the long-term behavior of

reinforced and prestressed concrete structures, corrosion of reinforcing steel and galvanized light gage steel, and the performance of steel and concrete structures during seismic, hurricane, tsunami and other extreme loading events.

His presentation will provide an overview of structural damage and the loading scenarios associated with recent tsunami damage and the NSF funded NEESR research project he participated in to develop performance-based tsunami engineering guidelines for the design of future coastal structures. The conclusions from these studies and the resulting design guidelines recommended for addressing the tsunami effects will also be presented.



SPEAKER: Doug Marcy, NOAA Coastal Services Center

TOPIC: Coastal Disasters—Where Do We Go From Here?

Doug Marcy is a coastal hazards specialist at the NOAA National Ocean Service / Coastal Services Center (CSC), Charleston, SC. He has been with the CSC for nine years

working on enhancing coastal flooding forecast products and GIS capability, storm surge assessments, and coastal hazards assessment projects contributing to more disaster resilient communities. He has received both a Department of Commerce Bronze Medal Award and NOAA Administrators Award for contributions to hurricane response and climate change science. Before coming to NOAA, Doug worked as a hydraulic engineer with the U.S. Army Corps of Engineers from 1999 to 2002, where he focused on flood control projects, H&H modeling, flood inundation mapping, shoreline change analysis, and coastal engineering. He began his career working two years with the South Carolina Coastal Management Program. Doug has a M.S. in coastal processes from the University of North Carolina at Wilmington and a B.S. in geology from the College of Charleston. Doug's current interests include using GIS technology with meteorologic, hydrologic, and coastal modeling to enhance inundation forecasting, mapping, and risk assessment.

Onsite Registration Hours*

(Promenade)

Sunday, June 26, 2011

7:30 a.m. - 5:30 p.m. (Closed for Lunch from 1:30 - 2:30 p.m.)

Monday, June 27, 2011

7:00 a.m. - 4:00 p.m. (Closed for Lunch from 1:30 - 2:30 p.m.)

Tuesday, June 28, 2011

7:00 a.m. - 4:00 p.m. (Closed for Lunch from 1:30 - 2:30 p.m.)

Wednesday, June 29, 2011

7:00 a.m. - 4:00 p.m. (Closed for Lunch from 1:30 - 2:30 p.m.)

*Hours are subject to change.

The onsite registration desk will be closed for one hour each day for lunch. Please come back at the appropriate time so we can better serve you. Thank you.

Sunday, June 26

5:00 – 7:00 p.m.

ICE BREAKER RECEPTION with Posters and Exhibit (Top of the World)

Monday, June 27

8:30 – 10:00 a.m.

OPENING PLENARY SESSION (Alaska/Aleutian)

10:00 – 10:30 a.m.

Networking Break (Promenade)

10:30 a.m. – 12:00 p.m.

Concurrent Technical Sessions

Coastal Flooding and Sea Level Rise I (Katmai)

Moderator/Session Chair: Lesley Ewing, P.E., D.CE, M.ASCE

Responding to a Rising Tide: Enhancing Coastal Flood Warnings for the New England Coast
Robert Thompson, M.S.

Need for a Tidal Flood Stage to Define Existing and Future Sea Level Hazards
David Kriebel, Ph.D., P.E., D.CE, M.ASCE

New Mapping Tool and Techniques for Visualizing Sea Level Rise and Coastal Flooding Impacts
Douglas Marcy, M.S.; William Brooks; Kyle Draganov; Brian Hadley, Ph.D.; Nate Herold, M.S.; John McCombs, Ph.D.; Matt Pendleton, M.S., GISP; Sean Ryan; Keil Schmid, M.S.; Mike Sutherland, M.S.; Kirk Waters, Ph.D.; Chris Haynes, Associate ASLA

Developing Sea-Level Rise Policy for Engineering Planning and Design
Kevin Knuuti, P.E.

Storm Surge and Waves I (King Salmon)

Moderator/Session Chair: Mary Azelton, P.E.

Observations and Modeling of Cyclone Nargis Storm Surge in Myanmar
Hermann Fritz, Ph.D., M.ASCE; Chris Blount, MSCE; Swe Thwin, Ph.D.; Moe Kyaw Thu, NGO; Nyein Chan, NGO

Numerical Study of Effect of Wind-Wave Generated by Tropical Cyclone Using Wave Model
Worachat Wannawong, Ph.D.; Prungchan Wongwiset, Ph.D.; Prasertsak Ekphisutsunorn, Ph.D.; Chaiwat Ekkawatpanit, Ph.D.; Usa W. Humphries, Ph.D.

Storm Surge Magnitudes and Frequency on the Central Oregon Coast
Jonathan Allan, Ph.D; Paul Komar, Ph.D; Peter Ruggiero, Ph.D.

Coastal Storm Modeling – System Integration
Thomas Massey, Ph.D; Ty Wamsley, Ph.D; Mary Cialone, M.S.

Coastal Disasters: Facilities and Infrastructure Case Studies I (Dillingham)

Moderator/Session Chair: Louise Wallendorf, P.E., M.ASCE

Sea Level Rise Impacts to Military Installations in Lower Chesapeake Bay
Jay Ratcliff, Ph.D.; Jane Smith, Ph.D., P.E., D.CE, M.ASCE

Necessity or Acceptance? Search for a Sustainable Community Based Disaster Mitigation Approach – Example of a coastal city in Bangladesh
Bishawjit Mallick, M.Sc.

Potable Water Issues During Disaster Response and Recovery: Lessons Learned From Recent Coastal Disasters
Suzanne Blake, CEM; Rob Walker, P.E., LEED AP, A.M.ASCE; Rebecca Walker, MD, MPH

The StormSmart Coasts Network: Connecting Coastal Decision Makers to Resources and Each Other
Wesley Shaw, M.S.

12:00 – 1:30 p.m.

LUNCHEON WITH SPEAKER ANDREW W. HERRMANN, ASCE 2011 President-Elect
(Alaska/Aleutian)

1:30 – 3:15 p.m.

Concurrent Technical Sessions

Tsunami Modeling and Field Investigations (Katmai)

Moderator/Session Chair: Bruce Jaffe, Ph.D.

Tsunami Generation by 3G Deformable Granular Landslides
Fahad Mohammed, Ph.D.; Brian McFall, M.S.; Hermann Fritz, Ph.D., M.ASCE

A Wave of New Information: LIDAR Investigations of the 2009 Samoan Tsunami
Michael Olsen, Ph.D.; Jennifer Donahue, P.E., Ph.D.

Coastal Impacts by the 12 January 2010 Earthquake and Tsunamis in Haiti
Hermann Fritz, Ph.D., M.ASCE; Jean Vilmond Hillaire, Ph.D.; Emanuel Molière, Ph.D.; Fahad Mohammed, Ph.D.; Yong Wei, Ph.D.

Post-Tsunami Field Survey Mission of the 27 February 2010 Chile Earthquake
Aggeliki Barberopoulou, Ph.D.; Alessandro Annunziato, Ph.D.; Giovanni Franchello, Ph.D.

Observations and Modeling of the 27 February 2010 Tsunami in Chile
Hermann Fritz, Ph.D., M.ASCE; Costas Synolakis, Ph.D.; Catherine Petroff, Ph.D., P.E., M.ASCE; Patricio Catalán, Ph.D.; Rodrigo Cienfuegos, Ph.D.; Patricio Winckler, MSCE; Nikos Kalligeris, MSCE; Robert Weiss, Ph.D.; Gianina Meneses, M.S.; Carolina Valderas-Bermejo, M.S.; Carl Ebeling, MS; Athanassios Papadopoulos, Ph.D.; Manuel Contreras, Ph.D.; Rafael Almar, Ph.D.; Juan Carlos Dominguez, MSCE; Sergio Barrientos, Ph.D.

Storm Surge and Waves II (King Salmon)

Moderator/Session Chair: Mary Azelton, P.E.

Reliability and Efficiency of a Coupled Wind-Wave-Current Forecasting System for Cook Inlet, Alaska
Gaurav Singhal, Ph.D. Candidate; Vijay Panchang, Ph.D., P.E., D.CE, F.ASCE; Juan Horrillo, Ph.D.; Chan Kwon Jeong, Ph.D. Candidate

Real-Time Wave Prediction and Virtual Buoy Systems
Hajime Mase, Ph.D.; Tracey Tom, Ph.D.; Ai Ikemoto; Tomohiro Yasuda, Ph.D.; Nobuhito Mori, Ph.D.

Numerical modeling of storm surge induced by May 2009 East Coast Low
Aliasghar Golshani, Ph.D.; Will Thurston, Ph.D.; Deborah J. Abbs, Ph.D.; Greg Stuart, P.E.; Rodger R. Tomlinson, Ph.D.

Estimating Frequency-of-Occurrence of Extreme Water Levels in Kotzebue Sound and Norton Sound from a Storm Surge Model for 56 Years Between 1954 and 2009
Sung-Chan Kim, Ph.D.; Raymond Chapman, Ph.D.; David Mark, P.E.; Mary Azelton, P.E.; Kenneth Eisses, P.E.

Coastal Erosion Hazards I (Dillingham)

Moderator/Session Chair: Rob Walker, P.E., LEED AP, A.M.ASCE

Assessing and Adapting to Coastal Erosion and Climate Impacts
Christy Miller, CFM; Sally Russell Cox; Christy Miller, CFM

Using Natural Habitats to Mitigate the Impact of Coastal Hazards and Inform Management Decisions
Gregory Guannel, Ph.D.; Katie Arkema, Ph.D.; Guerry Anne, Ph.D.; Choong-Ki Kim, Ph.D.; Mike Papenfus, Ph.D.; Mary Ruckelshaus, Ph.D.; Jodie Toft, Ph.D.; Gregory Verutes, GIS

Assessing Long-Term Regional Flood and Erosion Risk in Southern England
Andrew Bradbury, Ph.D.; Samantha Cope, Ph.D. Regional Shoreline Change and Coastal Erosion Hazards in Arctic Alaska
Ann Gibbs, M.S.; Lynne Harden, M.S.; Bruce Richmond, Ph.D.; Li Erikson, Ph.D.

Innovative Shore Protection
Stanley Boc, M.S.

3:15 – 3:45 p.m.

Networking Break (Promenade)

3:45 – 5:30 p.m. Concurrent Technical Sessions		
<p>Tsunami Risk and Community Planning <i>(Katmai)</i></p> <p>Moderator/Session Chair: Ron Noble, P.E., L.S., D.CE, D.PE, F.ASCE</p> <p>The Utility of Sedimentary Deposits in Tsunami Risk Assessment Bruce Jaffe, Ph.D.</p> <p>Tsunami Hazard Estimates in Central California Using a Probabilistic Approach Hany Elwany; Reinhard Flick; Jeffrey Johnson; Sarah Rosa, B.Sc</p> <p>Tsunami and Seiche Risk Framework For the Great Salt Lake Mathew Francis, P.E., M.ASCE; Harry Yeh, Ph.D., P.E., M.ASCE; David Dinter, Ph.D.; Hong Kie Thio, Ph.D.; Susan Olig, P.G.</p> <p>The Great Cretan Splash Up – A Coastal Disaster Preparedness Exercise in Greece Costas Synolakis, Ph.D.; NIKOS KALLIGERIS, B.Eng., M.Sc., DIC; Evangelia Flouri, B.Sc., M.Sc.; George Alexandrakis, B.Sc., M.Sc.; Nikolaos Kampanis, Ph.D.</p> <p>Investigation of the Damage to Areas of Coastal Chile Due to the Maule Mw 8.8 Earthquake of February 27, 2010 Billy Edge, Ph.D., P.E., D.CE, Dist.M.ASCE; Martin Eskijian, P.E., D.PE, M.ASCE; Russ Boudreau, P.E., D.CE, D.PE, M.ASCE; Miguel Carbuccia, P.E.; Omar Jaradat, P.E., M.ASCE; Marc Percher, P.E., M. ASCE; Jaime Serrano, P.E., D.PE; Arul Arulmoli, Ph.D., P.E., D.GE, F.ASCE</p>	<p>Surge 1: Coastal and Nearshore Hazard Assessment in the Southern Beaufort Sea <i>(King Salmon)</i></p> <p>Moderator/Session Chair: Michael Salisbury, P.E., M.ASCE</p> <p>Bottom-Friction Dominated Wave Dissipation Across the Fine-Grained Mackenzie River Delta Ryan Mulligan, Ph.D., P.Eng.; Will Perrie, Ph.D.; Steve Solomon, Ph.D.</p> <p>On the Influence of Ice Coverage on Storm Surge in the Southern Beaufort Sea Michael Salisbury, P.E.; Andrew Cox, Ph.D.; Val Swail, Ph.D.</p> <p>The Impacts of Increased Open Water on Arctic Summer Storms Will Perrie, Ph.D.; Zhenxia Long, Ph.D.</p> <p>Long-Term Wind, Wave Hindcast Along the Western Alaska Coast Line Robert Jensen, Ph.D.; Mary Azelton, P.E.; Kenneth Eisses, P.E.</p>	<p>Coastal Erosion Hazards II <i>(Dillingham)</i></p> <p>Moderator/Session Chair: TBD</p> <p>Changes to Geomorphic and Bathymetric Features due to Extreme Storm Events Near East Pass Inlet, Florida Lauren Dunkin, EI; Jennifer Wozencraft; John McCormick, M.S.</p> <p>Coastline Change – From Paleoenvironmental Reconstruction to Future Scenarios: A Case Study From the Baltic Jan Harff, Ph.D.; Wenyan Zhang, Ph.D.; Michael Meyer, Ph.D.; Ralf Schneider, Ph.D.</p> <p>Coastal Morphodynamics in the Vicinity of Kivalina, Alaska Nicole Kinsman, M.A.; Orson Smith, Ph.D., P.E.; Gabriel Wolken, Ph.D.</p> <p>Estimating the Economic Effects of Shoreline Change on Assessed Property Values in Sandwich, Massachusetts Steve Eberbach, CFM; Porter Hoagland, Ph.D.</p> <p>Hurricane Impacts and Responses, Beaches of Destin and Western Walton County, Florida Rajesh Srinivas, P.E.; Michael Trudnak, P.E.</p>

Tuesday, June 28

8:30 – 10:00 a.m. Concurrent Technical Sessions		
<p>Coastal Inundation - Islands <i>(Katmai)</i></p> <p>Moderator/Session Chair: Orson P. Smith, Ph.D., P.E.</p> <p>TWAVE Modeling Package for Simulation of Coastal Inundation in Island Regions Justin Goo, EIT; Jane Smith, Ph.D., P.E., D.CE, M.ASCE; Thomas Smith, P.E.; Jessica Podoski, P.E.</p> <p>SWIMS Hawaii Hurricane Wave, Surge, and Runup Inundation Fast Forecasting Tool Jane McKee Smith, P.E., Ph.D.; Joannes J. Westerink, Ph.D.; Andrew B. Kennedy, Ph.D.; Alexandros A. Tafflanidis, Ph.D.; Kwok Fai Cheung, Ph.D.; Thomas D. Smith, P.E.</p> <p>A High-Resolution Unstructured Model to Study Storm Surge in the Pacific Island of Guam Himangshu Das, Ph.D., P.E.; Hoonshin Jung, M.S.; Jane Smith, Ph.D., P.E., D.CE, M.ASCE; Ty Wamsley, Ph.D.</p> <p>NOAA Multi-Hazard Sea Level Monitoring in the Caribbean: Resolving Engineering Challenges to Meet the Needs of a Region Allison Allen; Rolin Meyer; Bradford Wynn; Christopher McGrath</p>	<p>Surge II: Numerical Modeling in the Northern Gulf of Mexico <i>(King Salmon)</i></p> <p>Moderator/Session Chair: Scott Hagen, Ph.D, P.E., D.CE, M.ASCE</p> <p>Low- Versus High-Resolution Finite Element Modeling of Storm Surge in the Yellow River, Florida Matthew Bilskie, I.E.; Scott Hagen, Ph.D, P.E., D.CE, M.ASCE; Michael Salisbury, P.E., M.ASCE; David Coggin, M.S.</p> <p>A Daily Forecast Model of Coastal Circulation Along and Within the Florida Panhandle Scott Hagen, Ph.D, P.E., D.CE, M.ASCE; Mike Salisbury, P.E., M.ASCE; Andrew Cox; David Coggin; Matt Bilskie</p> <p>The Importance of Offshore Features on Coastal Surge Along the Florida Panhandle and Alabama Michael Salisbury, P.E., M.ASCE; Scott Hagen, Ph.D., P.E., D.CE, M.ASCE;</p> <p>Storm Surge and Wave Modeling for Prioritizing Coastal Restoration and Protection Projects F. Ryan Clark; Hugh J. Roberts; John H. Atkinson</p>	<p>Coastal Erosion Hazards III <i>(Dillingham)</i></p> <p>Moderator/Session Chair: Bob Battalio, P.E.</p> <p>Earth's Changing Climate and Enhanced Erosion of the U.S. Pacific Northwest Coast Paul Komar, Ph.D.; Jonathan Allan, Ph.D.; Peter Ruggiero, Ph.D.</p> <p>Challenges of Coastal Engineering in Alaska Ruth Carter, P.E.; Harvey Smith, P.E.</p> <p>Changes in Wave Climate and Resulting Increase in Coastal Hazards of the Eastern Chukchi Sea, Arctic Alaska Li Erikson, Ph.D.; Curt Storlazzi, Ph.D.; Robert Jensen, Ph.D.</p> <p>Simulation of Shoreline Evolution and Estimation Sundar Vallam, Ph.D.; Suresh Pallavur Krishnamurthi, Ph.D.</p>

10:00 – 10:30 a.m. **Networking Break** *(Promenade)*

Technical Program (subject to change)

10:30 a.m. – 12:00 p.m.

Concurrent Technical Sessions

Tsunami Risk and Community Planning II *(Katmai)*

Moderator/Session Chair: Matt Francis, P.E., M.ASCE

Tsunami Modeling and Inundation Mapping in Alaska: Current Status of the Project

Elena Suleimani, M.S.; Dmitry Nicolsky, Ph.D.; Roger Hansen, Ph.D.

Issues of Tsunami Evacuation Behavior in Japan: Residents Response in Case of Chilean Earthquake in 2010

Masanobu Kanai, Ph.D.; Toshitaka Katada, Ph.D.

Tsunami Structural Design Provisions for a New Update of Building Codes and Performance-Based Engineering

Gary Chock, P.E., M.ASCE; Ph.D., P.E., M.ASCE; Ron Riggs, Ph.D.

Estimation of Tsunami Damage Potential as a Function of Topographic Characteristics

Jennifer Irish, Ph.D., P.E., M.ASCE; Robert Weiss, Ph.D.; Lesley Ewing, P.E., D.CE, M.ASCE; Christopher Jones, Ph.D., P.E., M.ASCE

Estimating and Mapping Coastal Flood Hazards in the United States *(King Salmon)*

Moderator/Session Chair: Carol Friedland, Ph.D., P.E., M.ASCE

FEMA's Update Process for Coastal Surge and Wave Analysis for Flood Insurance Rate Maps

Laura Algeo, P.E.; Tucker Mahoney, P.E.

Challenges to Mapping Coastal Risk in the Southeastern United States for FEMA's Risk MAP Program

Cheryl Johnson, Tucker Mahoney

Challenges and Considerations for Coastal Flood Analyses in Louisiana

Surya Ravulaparthi, P.E., CFM; Steve Eberbach, CFM; Shona Gibson, CFM

Fluvial Effects on Coastal Flooding in the U.S. Pacific Northwest

Lijuan Huang, M.S.; Laura Brophy, Certified Professional Wetland Scientist; Carolyn Lindley, M.S.

Human Dimensions in Emergency Management *(Dillingham)*

Moderator/Session Chair: Susan E. Durden

Social Learning for ICZM or "Prejudice, Dogma and Spurious Common Sense"

Loraine McFadden, Ph.D.; Sally Priest, Ph.D.

Innovative Strategies for Communicating and Managing Flood Risk with Diverse Audiences

Timothy Tinker, Ph.D.

Meeting People's Coastal Disaster Information Expectations In the Social Media Age: Applying Deep Water Horizon Lessons learned in the Arctic

Amy Holman

Discussion

12:00 – 1:30 p.m.

Lunch on Your Own

1:30 – 3:00 p.m.

COPRI Japan Tsunami Plenary Session #1 *(Alaska/Aleutian)*

- Summary of the Earthquake and Tsunami Event, **Shigeo Takahashi, Ph.D.**, Director of Asia-Pacific Center for Coastal Disaster Research, Port and Airport Research Institute (PARI) of Japan
- Report of Tsunami Inundation Levels on the Northeast Coast of Honshu Island of Japan and Pacific Basin Wide, **Hermann Fritz, Ph.D.**, Georgia Institute of Technology
- Report of Structural Damage from the ASCE SEI Investigative Team, **Gary Chock, P.E.**, Martin & Chock, Inc.

3:00 – 3:30 p.m.

Networking Break *(Promenade)*

3:30 – 5:00 p.m.

COPRI Japan Tsunami Plenary Session #2 *(Alaska/Aleutian)*

- The Japan Tsunami—Modeling and the Event, **Yong Wei, Ph.D.**, NOAA
- Report of ASCE COPRI Coastal Structures Team, **Lesley Ewing, P.E.**, California Coastal Commission, and **Ron Noble, P.E.**, Noble Consultants, Inc.
- Report of ASCE COPRI Port and Harbors Team, **Steve Dickenson, Ph.D., P.E.**, New Albion Geotechnical
- Tsunami Lessons Learned for the West Coast of North America: What should the Civil Engineering Profession be Doing Next? **Ian Robertson, Ph.D., P.E.**, University of Hawaii
- Additional questions and discussion with panel members from Sessions 1 and 2

6:30 - 10:00 p.m.

KEY SOCIAL EVENT AT ANCHORAGE MUSEUM

Wednesday, June 29

8:30 – 10:00 a.m.

Concurrent Technical Sessions

Post-Katrina New Orleans: Flood Protection and Land Use *(Katmai)*

Moderator/Session Chair: Jim Wilkins, M.S., J.D.

"The Great Wall of Louisiana"

Angela Desoto-Duncan, P.E.; Charles Hess, P.E.; Michael O'Sullivan, P.E., S.E., LEED AP

Development of Inner Harbor Navigation Canal Hurricane Surge Barrier Project Height for Overtopping Using Probabilistic Analysis

Scott P. Emmons, P.E.; Jena Gilman, P.E., P.Eng.

Design Considerations for Mass Concrete Elements of Flood Gates for New Orleans Hurricane Protection Project

Ahmed Nisar, P.E.; Fariborz Vossoughi, Ph.D.; Can Alpdogan, Ph.D.

Post-Katrina Land Change Assessment Along the South Shore of Lake Pontchartrain, Louisiana, USA: A Four-Year Perspective, 2005-2009

Molly Reif, M.A.; Christopher Macon; Jennifer Wozencraft, Ph.D.

Estimating and Mapping Coastal Flood Hazards in the United States II *(King Salmon)*

Moderator/Session Chair:

New Tools from FEMA to Help Communities Understand Their Coastal Flood Risk

Jonathan Westcott, P.E.

A Discussion on the Influence of Wave Setup on Water Levels in San Francisco Bay

Julio Zyserman, Ph.D.; Dale Kerper, P.E.; Tao Shen, EIT

Coastal Flood Hazards in San Francisco Bay – A Detailed Look at Variable Local Flood Responses

Krista Conner; Dale Kerper; Lisa Winter, M.S.; Christine May, Ph.D., P.E.; Kathleen Schaefer

Tsunami Modeling for Seaside, OR

Philip Schneider, AIA

Coastal Vulnerability *(Dillingham)*

Moderator/Session Chair:

Incorporating Uncertainty Associated with Climate Change into Coastal Vulnerability Assessments

Peter Ruggiero, Ph.D.; Heather Baron, MS; Erica Harris, MS; Jonathan Allan, Ph.D.; Paul Komar, Ph.D.; Patrick Corcoran, MS

Hubbard Glacier: A Unique Coastal Threat

George Kalli, P.E.

Issues of the Measure of Evacuation Against a Storm Surge by Hitting a Huge Typhoon in Japan

Makoto Kodama, Ph.D.; Toshitaka Katada, Ph.D.

Defining Risk in Arctic Coastal and Offshore Resource Development

Sharman Haley, Ph.D.; Mandy Kaempf

Technical Program

10:00 – 10:30 a.m.

Networking Break (Promenade)

10:30 a.m. – 12:00 p.m.

Concurrent Technical Sessions

Social Sciences of Disaster Recovery and Hazard Communication (Katmai)

Moderator/Session Chair: Loraine McFadden, Ph.D.

New Orleans Struggles with Hurricane Recovery Efforts
James Wilkins, M.S., J.D.; Donald Davis, Ph.D.

Disaster Recovery Planning: Lessons Learned from Past Events
Dennis Hwang, J.D., M.S.

Social Media Impact – Communication and Perception of the Risk
Bo Juza, Ph.D.; Alan Springett, P.E.

Rip Currents: A Major Coastal Hazard and Public Safety Challenge
Stephen Leatherman, Ph.D.

Flood Loss Estimation Modeling (King Salmon)

Moderator/Session Chair: Christopher P. Jones, Ph.D., P.E., M.ASCE

A HAZUS Level 2 Risk Assessment: Identification of New Coastal Flood Hazard Analysis Impacts
Brian Caufield, P.E., CFM; Timothy Hillier, P.E., CFM

Development and Applications of the FEMA Region IV Coastal Flood Loss Atlas
Herbert Longenecker, M.A.

Development of a Loss-Consistent Wind and Flood Damage Scale for Residential Buildings
Carol Friedland, Ph.D., P.E., M.ASCE; Marc Levitan, Ph.D.

Coastal Flood and Erosion Damage Functions for Mid- and High-Rise Buildings
Christopher Jones, Ph.D., P.E., M.ASCE; Michael Krecic, P.E.

Coastal Disasters: Facilities and Infrastructure Case Studies II (Dillingham)

Moderator/Session Chair: Carol J. Friedland, Ph.D., P.E., M.ASCE

Case Study of Concrete Bridge Subjected to Hurricane Storm Surge and Wave Action
Ian Robertson, Ph.D., P.E., M.ASCE; Solomon Yim, P.E., Ph.D.; Thuydu Tran

Indian River Inlet Bridge Coastal Hydraulic and Scour Study
Xiao Li, P.E., Ph.D.; Andrew Cairns, P.E., M.ASCE; Baolong Liu, P.E.

Major Breakwater Repair in the Azores
David Werren, P.E.; Ann Miller, P.E.; Richart Kahler, P.E.; Thomas Kenny, BSCE

Coastal Disaster Management Planning in the Caribbean
Charles Shabica, Ph.D., P.G., A.M.ASCE; Stefanie Nagelbach, CPESC

Risk Assessment for Interconnected Critical Infrastructure Systems in Coastal and Delta Regions
Bas Jonkman, Ph.D.

12:00 – 1:30 p.m.

NETWORKING LUNCHEON (Alaska/Aleutian)

1:30 – 3:00 p.m.

Concurrent Technical Sessions

Coastal Flooding and Sea Level Rise II (Katmai)

Moderator/Session Chair: David Kriebel, Ph.D., P.E., D.CE, M.ASCE

Catastrophic Inundation from Sea Level Rise and its Policy Implication for South Florida
Keqi Zhang, Ph.D.

Screening Method for Determining Coastal Storm Inundation Limits
Ty Wamsley, Ph.D.; Donald Resio, Ph.D.; Chris Massey, Ph.D.; Mary Cialone, P.E.

Planning Level Assessment of the Impacts of Sea Level Rise to the California Coast
David Revell, Ph.D.; Bob Battalio, P.E., M.ASCE

Oil Spills (King Salmon)

Moderator/Session Chair: TBD

Oil Spill Along the Arthur Kill, New York Harbor, from a 1990 Exxon Pipeline Rupture: Physical Damage Assessment and Restoration
Bernward Hay, Ph.D.; Ed Samanns, PWS, CE; Susan Knauf; Donald Stevens, P.E.; Gul Khan, P.E.; Margaret McBrien, P.E., PWS

Shock Treatment: Adaptive Learning in Response to the South-east Queensland Oil Spill
Craig Stephenson, Ph.D.; Dana Thomsen; Gayle Mayes; Tim Smith

Introducing HG Shock Capturing Scheme for Oil Spill Simulation
Reza Ghiassi, Ph.D.; Jamshid Zohre Heydariha, Ph.D.

Coastal Disasters: Facilities and Infrastructure Case Studies III (Dillingham)

Moderator/Session Chair: TBD

Hazard Resistance and Sustainability in Coastal Communities
Janice Olshesky, AIA, RA, LEED AP

Major Rebuilding of Chicago Lakefront – Reach 2 Diversey Parkway to Fullerton Parkway
Matthew Clark, P.E., C.ENG, M.ASCE; David Werren, P.E., M.ASCE; Lars Barber, RLA

Modeling the Economic Impacts of Climate Change Events to Coastal Marinas: Case Study of Long Beach, CA
Aaron McGregor, M.A.

Low-Cost Boat Harbor Protection as an Integral Element of Natural Disaster Risk Management in Viet Nam
Thomas Connor, B.E., M.Eng.Sc., Ph.D., M.ASCE, Hon. FIE.Aust, C.P.Eng.; Peter Cummings, B.E., Ph.D.; John Imrie, B.E.; Wendy Poussard, Ba, Ph.D.

3:00 – 3:30 p.m.

Networking Break (Promenade)

3:30 – 5:00 p.m.

CLOSING GENERAL SESSION (Alaska/Aleutian)

Speakers: Ian Robertson, Ph.D., P.E., University of Hawaii at Manoa, and Doug Marcy, NOAA Coastal Services Center



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Meeting Room Overcrowding

ASCE will make every effort to schedule popular events in rooms large enough to accommodate anticipated attendance. Since many events are extremely popular, it is wise to select alternative events as you plan your conference schedule. ASCE and the Hilton Anchorage are REQUIRED to follow local fire regulations and may ask participants in rooms filled to capacity to choose another event.

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Average temperatures range from a high of 62 degrees during the day to around 45 degrees in the evening hours. Alaska in June averages 19 hours of daylight.

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For dental emergencies, contact:

Morrell Dental: Morrell M. Russell DDS
Ste 730, 425 G Street, Anchorage, AK 99501-2138
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An electronic evaluation will be sent out immediately after the Conference to all attendees.

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ASCE reserves 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 a full refund, if applicable. Programs and sessions are subject to change, and ASCE reserves the right to substitute a program, session, and/or speaker of equal caliber to fulfill the educational requirements.

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