



**36<sup>th</sup> International Conference on  
Coastal Engineering 2018  
Baltimore, Maryland USA**



**Short Course:  
Natural and Nature-Based Features (NNBF) for Coastal Resilience  
Sunday, July 29, 2018  
8:00 – 5:00 PM  
Baltimore Marriott Waterfront Hotel**

**Short Course Objectives:**

- ◆ Provide participants an overview of NNBF practices and example projects that promote coastal resilience and flood risk reduction.
- ◆ Introduce participants to a spectrum of NNBF solutions, which includes systems approach with integration of conventional infrastructure.
- ◆ Provide participants with a greater understanding of the application and utility of specific NNBF types (e.g., beaches/dunes, wetlands, reefs, islands, etc.)
- ◆ Offer participants insight into NNBF benefits analysis, which includes engineering, environmental, and socio-economic.
- ◆ Provide participants with international examples of NNBF projects.
- ◆ Relate the important role of community and stakeholder engagement.
- ◆ Introduce participants to current R&D efforts that support NNBF solutions and strategies with connectivity to future needs, knowledge gaps, opportunities and barriers
- ◆ Engage workshop participants to identify and new needs, gaps, opportunities for NNBF.

**Agenda:**

Time	Topic/Action	Lead or Speaker
7:00 - 7:45	Onsite Registration for NNBF Short Course	ICCE Registration Desk
8:00 – 8:15	Welcome, Introductions, and Review of Agenda	Jane Smith
8:15 – 8:30	Introduction to NNBF history, current practices/applications and example projects	Todd Bridges

8:30 – 10:15	<p>Application and Utility of Specific NNBF Types:</p> <ol style="list-style-type: none"> <li>1. Tidal Wetlands (30 min)</li> <li>2. Reefs/Sub-Aquatic Vegetation (30 min)</li> <li>3. Mangroves Case Study (20 min)</li> </ol> <p>Q&amp;A and Panel Discussion (25 min)</p>	<p>Session Chair: Todd Bridges</p> <ol style="list-style-type: none"> <li>1. Georganna Collins /Nigel Pontee</li> <li>2. Siddharth Narayan / Jane Smith</li> <li>3. Victoria Tomiczek Johnson</li> </ol>
10:15 – 10:45	Break	
10:45 – 12:30	<p>Application and Utility of Specific NNBF Types Continued:</p> <ol style="list-style-type: none"> <li>1. Beaches/Dunes (30 min)</li> <li>2. Islands (30 min)</li> <li>3. NNBF w/ Highway and Linear Transportation Projects – Case Study (20 min)</li> </ol> <p>Q&amp;A and Panel Discussion (25 min)</p>	<p>Session Chair: Jane Smith</p> <ol style="list-style-type: none"> <li>1. John Winkelman / Jens Figlus</li> <li>2. Monica Chasten/ Joe Gailani</li> <li>3. Tina Hodges</li> </ol>
12:30 – 1:30	Onsite Lunch (Provided)	
1:30 – 3:15	<p>Important Considerations When Pursuing NNBF Projects:</p> <ol style="list-style-type: none"> <li>1. Systems Approach to NNBF Projects (30 min)</li> <li>2. Community &amp; Stakeholder Engagement (30 min)</li> <li>3. Identifying/Reporting Benefits Associated with NNBF Projects: Qualitative/Quantitative Analysis of Engineering, Environmental, and Socio-Economic Parameters (30 min)</li> </ol> <p>Q&amp;A and Panel Discussion (15 min)</p>	<p>Session Chair: Jeff King</p> <ol style="list-style-type: none"> <li>1. Denise Reed</li> <li>2. Maria Dillard</li> <li>3. Mike Beck / Siddharth Narayan</li> </ol>
3:15 – 3:45	Break	

3:45 – 4:15	State of the Science/Engineering: R&D Focused on NNBF: Current efforts Knowledge Gaps and Barriers Future Needs and Opportunities (20 min)  Q&A and Discussion (10 min)	Julie Rosati
4:15 – 4:45	Review of Attendee Questions with Interactive Discussion	Jane Smith
4:45 – 5:00	Closing Remarks	Todd Bridges
5:00	Adjourn	