



Western Dredging Association Short Course Nature-based Solutions Engineering and Construction

Thursday, June 27th 2024 in Tampa Florida

In association with the WEDA Dredging Summit and Expo 2024: Building a Resilient Future

About the Short Course

The use of Nature-based Solutions (NbS) to support risk management, hazard mitigation, sustainable infrastructure, and resilient communities has been rapidly expanding, diversifying, and maturing. The White House has stimulated numerous NbS initiatives and actions across the federal government, including development of a Roadmap on NbS. Technical guidance for NbS is being actively

developed and published to support billions of dollars of investment in NbS by federal and state agencies and the private sector. This short course will introduce NbS, present emerging best practice for NbS engineering and construction, and share practical case examples of field-scale NbS projects in coastal and riverine systems.

Course Format

The short course will be conducted classroom style over a full day (0800-1700) and will include up to 100 participants from government agencies, the private sector, non-profits, academia, and other organizations. Instructors will include technical leaders from the public and private sectors. Course participants will be provided with access to all class materials and presentations.



About WEDA



WEDA is a non-profit technical professional organization devoted to the exchange of knowledge in fields related to dredging, navigation, marine engineering and construction. WEDA is governed by seventeen voting Board of Directors with the day-to-day operations managed by an Executive Director. WEDA is a member of The World Organization of Dredging Associations (WODA).

Agenda

- 8:00 – 8:30 **Check-in and Coffee**
- 8:30 – 9:00 **Introduction to Nature-Based Solutions**
Todd Bridges, UGA & Jeff King, USACE ERDC
- 9:00 – 9:30 **Advances in NBS Modeling and Tools**
Amanda Tritinger, USACE ERDC and Wendy Laurent, Taylor Engineering
- 9:30 – 10:00 **Advances in NBS Valuation**
Julie Beagle, USACE San Francisco District & Soupy Dalyander, The Water Institute
- 10:00 – 10:30 **Break and Coffee**
- 10:30 – 11:00 **Dune Engineering and NBS**
Joseph Morton, University of Florida and Amanda Tritinger, USACE ERDC
- 11:00 – 11:30 **Dune Case Studies**
Mike Jenkins, Geosyntec/ATM & Connor Tennant, Manson Construction
- 11:30 – 12:00 **TLP Guidance**
Candice Piercy, USACE ERDC & Ram Mohan, Anchor QEA
- 12:00 – 1:00 **Lunch**
- 1:00 – 1:30 **Wetland Engineering and NBS**
Monica Chasten, USACE Philadelphia District & Candice Piercy, USACE ERDC
- 1:30 – 2:00 **TLP & Wetland Case Studies**
Tim Donegan, Severson Environmental Services & Andrew Timmis, J.F. Brennan
- 2:00 – 2:30 **Island Engineering**
Elizabeth Godsey, USACE Mobile District & Jenny Davis, NOAA NCCOS
- 2:30 – 3:00 **Break and Beverages**
- 3:00 – 3:30 **Island Case Studies**
Elizabeth Godsey, USACE Mobile District & David Johanson, Great Lakes Dredge & Dock
- 3:30 – 4:00 **River NBS Engineering**
Eddie Brauer, USACE St. Louis District & Brian Bledsoe, UGA
- 4:00 – 4:30 **River NBS Case Studies**
Andrew Timmis, J.F. Brennan (Additional speaker TBD)
- 4:30 – 5:00 **Performance Monitoring and Adaptive Management**
Monica Chasten, USACE Philadelphia District & Elizabeth Godsey, USACE Mobile District
- 5:00 – 5:30 **Future Needs, Opportunities and Wrap-Up**
Todd Bridges, UGA, Jeff King, USACE ERDC & Ram Mohan, Anchor QEA
- 5:30 **Adjourn**

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