

34th PIANC World Congress Panama 2018
Full Day (8 hr) Short Course
Working with Nature in the Americas:
Generating Ecosystem Services in the Waterborne
Transport Sector

May 2018
Panama City, Panama

Course Objective

This short course will discuss the application of Working with Nature in practice. The short course will draw from three active PIANC EnviCom Working Groups: Working Group 176 on Working with Nature (WwN); working Group 195 on Ecosystem Services; and Working Group 175 on Managing Environmental Risks. Each topic will be discussed as it relates to waterborne transport infrastructure and an international collection of case examples will be presented illustrating how projects can effectively create ecosystem services while managing risks. Several projects that are WwN-certified by PIANC will be presented as examples of how WwN concepts can be applied in the Americas and globally.

Scope

PIANC developed the WwN concept to consider project objectives in the context of ecosystem services, and designs that rely on natural processes to achieve project objectives while yielding multiple economic, social, and environmental benefits. This course will provide an overview of the activities of the PIANC EnviCom specifically as they relate to WwN (WG176); we anticipate publication of the WG176 *Working with Nature Guidance* prior to the 2018 World Congress.

Instructors

Todd Bridges, Al Cofrancesco, Burton Suedel (USACE); Victor Magar (Ramboll USA); Jan Brooke (UK); Elmar Fuchs (Germany); Esteban Biondi (PIANC RecCom); others to be determined

Course Agenda

0830: Welcome and Introductions - Drs. Burton Suedel and Victor Magar

0845: Opening Talk - An Introduction to Working with Nature in the Americas: Dr. Todd Bridges

Related PIANC WGs:

0930: EnviCom WG 175: Managing Environmental Risks for Waterborne Infrastructure Projects - Dr. Burton Suedel

1000-1015 Coffee Break

1015: EnviCom WG 176: Applying Working with Nature in Practice – Dr. Victor Magar

1045: EnviCom WG 178: Climate change adaptation - Ms. Jan Brooke

1115: EnviCom WG 188: Applying Ecosystem Services for Waterborne Transport Infrastructure Projects – Dr. Al Cofrancesco

1145-1300: Lunch on your own

1300: RecCom WG 148: Environmentally Sustainable Recreation Infrastructure – Mr. Esteban Biondi

Case Studies: (30 minutes each)

1330: Kirsten Wolfstein – Case Study New Tidal Area Kreet sand, Elbe River, Germany

1400-1415: Coffee Break

1415: Ellen Johnck – Case Study SF Bay

1445: Oliver Stoschek – Adaptive Environmental Monitoring for the Management of Dredging and Reclamation Activities

1515: Discussions and Closing Remarks

1600 Adjourn