

Smart Rivers Conference, Lyon, France

Workshop Monday September 30th 2019_14h “Alternative technical-biological bank protections for inland waterways” PIANC INCOM WG 128

Workshop Programm

1. Introduction (information about WG 128 members, meetings with decisions, structure of the future report, relevant design aspects, chosen design approach):
Bernhard Söhngen – 10 min.
2. Best Practice Approach - BPA (explaining the content of Fact Files & BPA-principles)
Bernhard Söhngen (technical aspects) & Kathrin Schmitt (ecological assessment) –
20 min. + 5 min. discussion
3. Pre-embankment measures (indirect protections):
 - a. Solutions for canals and impounded rivers with strong ship-induced impacts:
Jeroen Verbelen (solutions for the Brussels-Scheldt Canal) & Bernhard Söhngen / Tetsunori Inoue (sheet pile wall + shallow water zone, Berlin, Spree) – 20 min. + 5 min. discussion
 - b. Palisades to protect reed plantings in impounded rivers and other solutions for urban areas:
Christian Wolter & Manfred Krauss – 15 min. + 5 min. discussion
4. Direct solutions (measures on the bank slope):
 - a. Solutions for high water level fluctuations and high impact:
Ma Dianguang (Green ecological bank slope treatment for inland waterways in China) – 15 min. + 5 min. discussion
 - b. Solutions for high water level fluctuations, moderate impact:
Kathrin Schmitt & Petra Fleischer (Willow brush mattresses for moderate to high water level fluctuations and impacts):– 20 min. + 5 min. discussion
5. Special aspects and “view over the horizon”:
 - a. Influence of climate, garbage, sedimentation:
Christophe Moiroud (examples from the Rhone – 15 min. + 5 min. discussion
 - b. Solutions for coastal areas:
Jos Wieggers (examples of bank protections in coastal areas - ECOSHAPE project) – 15 min. + 5 min. discussion
 - c. Natural succession:
Gonzalo Duro & Jos Wieggers (Natural riverbanks in an impounded river - Meuse) – 20 min. + 5 min. discussion
6. Feedback from the participants: All WG 128 members – 20 min.