

Coastal Engineering Practice



Edited by

Orville T. Magoon
Ronald M. Noble
Donald D. Treadwell
Young C. Kim

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**COASTS, OCEANS,
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COASTAL ENGINEERING PRACTICE

PROCEEDINGS OF THE 2011 CONFERENCE ON COASTAL
ENGINEERING PRACTICE

August 21–24, 2011
San Diego, California

SPONSORED BY
The Coasts, Oceans, Ports, and Rivers Institute (COPRI)
of the American Society of Civil Engineers

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Preface

The 2011 Conference on Coastal Engineering Practice was organized under the auspices of the Coasts, Oceans, Ports and Rivers Institute (COPRI) of the American Society of Civil Engineers. The conference was held at the Sheraton San Diego Hotel & Marina in San Diego, California on August 21-24, 2011.

The 2011 Conference on Coastal Engineering Practice focused on practical approaches in developing solution for coastal engineering problems as well as ensuring sustainable coastal development. An additional goal was to promote the exchange of experiences between practicing coastal engineers. Emphasis was placed on practical experience and actual projects rather than specific technical and scientific aspects of coastal engineering.

The 2011 Conference on Coastal Engineering Practice had the following eight themes:

- A. Case Histories of Coastal Projects
- B. Sustainable Coastal Development
- C. Erosion and Shoreline Protection
- D. Coastal Environment, Water Quality and Wetlands Restoration
- E. Coastal Hazards and Risk Management
- F. Coastal Sediment Processes
- G. Ports, Harbors, and Marine Transportation
- H. Local, State and Federal involvement in Planning, Design and Construction of Coastal Projects

The Conference Organizing Committee acknowledges the support received from the following cooperative organizations:

Association of Coastal Engineers (ACE)
Permanent International Association of Navigation Congresses (PIANC)
Coastal Zone Foundation

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Donald D. Treadwell, Co-Chair, Consulting Engineer
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Acknowledgments

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