

PROFESSIONAL PROFILE

JOHN C. ROBERGE, P.E. FOUNDER & SENIOR CONSULTANT



Mr. Roberge provides more than 45 years of coastal, hydraulic, and dredging engineering experience. He has wide-ranging expertise in nearshore sediment transport, beach nourishment, coastal and riverine flood hazard analysis, inspection and design of coastal structures, shoreline stabilization, dredging and dredged material management, sand bypassing system design and operations, regulatory permitting and marine construction.

As a Professional Engineer, he has performed feasibility studies, coastal structure condition inspections, hydraulic modeling analyses of nearshore systems, design and preparation of construction documents for steel, concrete, and timber bulkheads, stone revetment and breakwater structures, marina and mooring facilities, performed flood insurance and FIRM map revision studies, designed and managed dredging programs for navigation channel maintenance and beach nourishment programs, and designed and constructed sand bypassing installations at tidal inlets throughout the US. He is proficient with numerical modeling applications typically used for such coastal and hydraulic engineering programs, including but not limited to ACES 1.07, GENESIS, RCPWAVE, SBEACH and software normally employed for FEMA coastal flood analyses CHAMP, WHAFIS and RUNUP 2.0.

He maintains comprehensive knowledge in beach and shoreline erosion and mitigation measures, coastal and riverine flood hazard assessment and mapping, inspection and design of coastal structures, design and improvement of marina and yacht club facilities, and related marine construction expertise. Mr. Roberge is an expert in nearshore sediment transport, wave transformation and flood hazard assessment, assessment and design of coastal structures, sand bypassing system design and operations, and dredging operations. He has performed extensive wave climatology, beach erosion, and dredging studies throughout the US and at sites worldwide. Mr. Roberge has published more than 30 technical papers and reports related to coastal engineering and dredging studies and projects.

Mr. Roberge is a former Research Hydraulic Engineer at the US Army Corps of Engineers Waterways Experiment Station and instructed at Worcester Polytechnic Institute while affiliated with the Alden Research Laboratory. He is a recognized authority on sand bypassing system design and dredging operations, design of dredged material relocation facilities, sedimentation processes, erosion control, shoreline stabilization, and related construction activities. He has worked extensively with the US Army Corps of Engineers, US Navy, US Coast Guard, FEMA and a broad range of State agencies and private clients.

QUALIFICATIONS

EDUCATION

M. Eng., University of Florida, Gainesville, FL
Coastal and Oceanographic Engineering

B.S. Tufts University, Medford, MA
Mechanical Engineering

PROFESSIONAL REGISTRATION AND LICENSURE

Professional Engineer: CT, MA, RI, NH

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)
Life Member

Coasts Oceans, Ports, & Rivers Institute(COPRI)

American Institute of Steel Construction (AISC)

Connecticut Marine Trades Association, (CMTA)

CT Harbor Mgmt. Association (CHMA)

Assoc. Member/Director

PIANC Corporate Member

CONFERENCE SPEAKING ENGAGEMENTS & PAPERS

“Performance of a Jetty-Weir Inlet Improvement Plan”, with J.A. Purpura, B.C. Beechley, and C.W. Baskette, Proceedings of the 14th Coastal Engineering Conference, ASCE, New York, 1975.

“Minimizing Wave Transmission Through Jettied Inlets”, 25th Annual Hydraulic Specialty Conference Proceedings, ASCE, Texas A&M University, Aug 1977.

Hydraulic Model Studies for the Expansion of the Port of Champerico, Guatemala, with J.T. Kirby, Technical Report 122-77/M350CF, Alden Research Laboratory, Worcester Polytechnic Institute, Sept 1977.

Design of Eductor Sand Bypassing System for Shinnecock Inlet, NY, Northeast Shore and Beach Preservation Association Meeting, Ocean City, NJ, May 1998.

