

Resume



DOUGLAS S DUSINI, PE
Coastal Engineer

Education

- MS. Civil Engineering/Coastal Hydraulics,
The Ohio State University
- BS. Civil/Environmental Engineering,
The Ohio State University

Experience Highlights

Mr. Dusini has worked on a broad range of civil engineering projects for municipal, military, and private clients. Civil engineering project experience includes water and natural gas distribution system modeling and design as well as monitoring of distribution system construction projects. He joined Coastal Science & Engineering in June 2005 where he has worked on a variety of coastal engineering projects. His coastal engineering project experience includes monitoring and analysis of erosion and morphological changes of natural and nourished beaches and coastal inlets; measurement and analysis of tidal inlet currents; and on-site land and hydrographic surveys, including on-land and deep water sediment sample collection.

Coastal Engineering Experience

Myrtle Beach (SC)

- Annual Beach Survey and Monitoring Report
- Sand Volume and Erosion Analysis
Emerald Isle (NC)
- Bogue Inlet Currents Study

Carteret County (NC)

- Erosion Analysis and Monitoring Report
- Post-Hurricane *Ophelia* Beach Survey and Erosion Analysis
- Post-Hurricane *Ophelia* Sand Replacement Project

Nags Head (NC)

- Sediment Core Collection and Analysis
- Wind-Wave and Longshore Sediment Transport Study for Nourishment Project EIS

Hunting Island (SC)

- Topographic Beach Survey and Beach Erosion Analysis

Arcadian Shores (SC)

- Beach Renourishment Design and Permitting
- Beach Renourishment Project Construction Monitoring

Daniel Island (SC)

- Hydrographic Instrument Deployment and Data Collection on the Wando River
- 2-D Hydraulic Modeling of Currents and Water Levels for the Daniel Island Marina Project

Morehead City (NC)

- Hydrographic Instrument Deployment and Data Collection in Bogue Sound
- 2-D Hydraulic Modeling of Currents and Water Levels for the Morehead City Channel Realignment Project
- Sediment Transport Analysis for Sugarloaf Island Groins

Seabrook Island (SC)

- Seawall Survey and Potential Protection Analysis
- Hydrographic Instrument Deployment and Data Collection for Captain Sams Inlet Relocation Project
- 2-D Hydraulic Modeling of Currents and Water Levels for Captain Sams Inlet Relocation Project

Specialties

Hydraulic modeling
Wave/sediment interaction
Field data collection of wave/current properties and sediment characteristics
Water distribution systems
Natural gas distribution systems

Professional Affiliations

American Geophysical Union
American Society of Civil Engineers
Tau Beta Pi Engineering Honor Society
Chi Epsilon Civil Engineering Honor Society

Certifications

Professional Engineer, South Carolina
PADI certified open water scuba diver

Technical Skills

Proficient with Matlab, Linux operating environment, Windows Professional 2000, Microsoft Office software, Fortran, WaterWorks, GasWorks, SMS

Programming Languages

Matlab, Linux shell scripts, Fortran

Work Experience

CSE, Columbia (SC) (2005–present)
Coastal Engineer

Department of Civil and Environmental Engineering,
The Ohio State University, Columbus, Ohio
(2002–2005)
Graduate Research Assistant

Utility Technologies International, West Jefferson,
Ohio (2000–2002)
Civil Engineer

Division of Engineering, City of Dublin, Ohio
(1999–2000)
Engineer Intern