

Qualifications Summary

- Strong background knowledge of coastal processes and hydrodynamics, fluid dynamics and marine engineering
- Experience with oceanographic sampling units and sensors including fieldwork in coastal and deep-water research cruises
- Survey and sampling data acquisition and interpretation
- Strong written and verbal communication skills
- Programming in MATLAB and C computer code
- Solid Works and MasterCAM computer aided design

KAITLYN G. MCCARTNEY, B.S.

Coastal Engineer

Professional Affiliations

Member of Society of Naval Architects and Marine Engineers

Member of Society of Women Engineers

Fields of Expertise

Application of field and laboratory research to evaluate and resolve problematic coastal processes. Implementation of sediment sampling techniques to analyze and support progress in coastal restoration. Coastal mooring system instrumentation and deployment. Mooring design, floatation/hardware components, and analysis of data. Programming deployment, and data analysis of oceanographic instruments including the ADCP and CTD.

Higher Education

B.S. in Mechanical and Ocean Engineering – Massachusetts Institute of Technology (2009)

Employment History

2009-Present Woods Hole Group, Inc. (Coastal Engineer)
2006-2009 Massachusetts Institute of Technology
(Research and Teaching Assistant)
2008 Woods Hole Oceanographic Institute (Summer Student Fellow)

Certificates of Training

OSHA 40-Hour HAZWOPER

Key Projects

Army Corp of Engineers

- New Bedford (dredging)
- Vermont, Elizabeth mine (sampling/restoration)
- Pascataqua River, NH/Searsport, ME (harbor sampling and tidal/current profiling)
- Grove Beach Point, Westbrook, CT (analysis of coastal processes)

Publications

Breier, John A., C. G. Rauch, K. McCartney, B. Toner, S. Fakra, S.N. White, and C. R. German. Suspended particle rosette multi-sampler for discrete, biogeochemical sampling in low particle density waters. *Deep Sea Research Journal*. 2009