

PHILADELPHIA



SECTION

THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

CHAIR  
GREG MORROW  
CDI MARINE - BAND LAVIS  
6960 AVIATION BLVD  
GLEN BURNIE, MD 21061  
[GREG.MORROW@  
CDICORP.COM](mailto:GREG.MORROW@CDICORP.COM)  
(540) 239-1151

VICE CHAIR  
JEREMY SMALL  
AKER PHILLY SHIPYARD  
2100 KITTY HAWK AVENUE  
PHILADELPHIA, PA 19112  
[JEREMY.SMALL@  
PHILLYSHIPYARD.COM](mailto:JEREMY.SMALL@PHILLYSHIPYARD.COM)  
(215) 875-2665

SECRETARY/TREASURER  
MATTHEW EAYRE  
THE GBS GROUP  
1 CRESCENT DRIVE, SUITE 201  
PHILADELPHIA, PA 19112  
[MEAYRE@GMAIL.COM](mailto:MEAYRE@GMAIL.COM)  
(215) 463-3110

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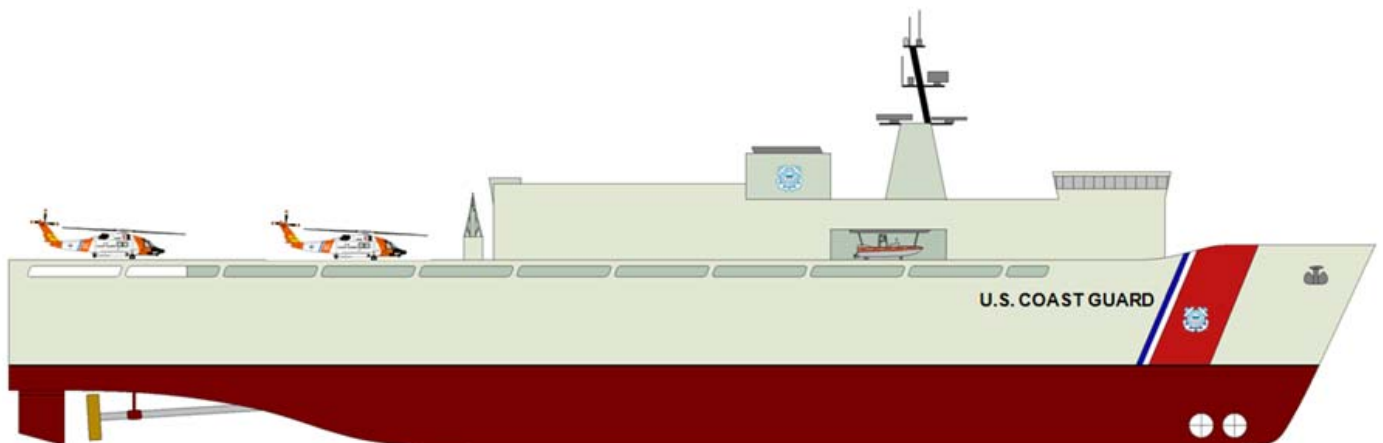
THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS  
PHILADELPHIA SECTION

*PRESENTS*

*WEDNESDAY, APRIL 18, 2012*

U.S. COAST GUARD ACADEMY CLASS OF 2012  
NAVAL ARCHITECTURE AND MARINE ENGINEERING  
SENIOR DESIGN PROJECT:

“MOBILE OFFSHORE BASE CUTTER FOR CARIBBEAN OPERATIONS”



## SUMMARY

Throughout the 2011-2012 academic year, the Naval Architecture and Marine Engineering Cadets from the U.S. Coast Guard Academy have been working on their capstone design projects. This year there are two different design groups trying to satisfy mission requirements for a new class of cutter for the Coast Guard that would change the way operations are conducted in District Seven.

With the recent increase in frequency of natural disasters such as devastating hurricanes and earthquakes in and around the Caribbean Sea, the Coast Guard is finding its assets performing missions that they were not originally intended to. The group was called to design a Mobile Offshore Base cutter for the Coast Guard that would facilitate operations in the Caribbean Sea and provide disaster relief in the event of a natural or manmade disaster.

The design group will be presenting their concept design of the Coast Guard Mobile Offshore Base cutter. This vessel utilizes a well deck to allow efficient ship to shore interface, a large storage area for disaster supplies, two flight decks to support air assets as well as excess fuel oil for supply of other surface assets. The presentation will cover the cadets' first iteration through the design process including: generation of the hull form, general arrangements, intact and damaged stability analysis, seakeeping analysis, propulsion plant design, model testing, HVAC design, cost analysis, and crewing considerations. The design team will prepare a full presentation of their project and field questions from the audience.

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### *JOIN US:*

**WEDNESDAY ~ APRIL 18, 2012**

Ramada Inn – Philadelphia Airport South  
76 Industrial Highway  
Essington, PA 19029  
Phone: 610-521-9600 / Fax: 610-521-9388

Dinner Cost: \$25 for member, \$30 for non-member, Free for students  
*Cocktail Hour (hotel bar): 5:30 pm ~ Dinner (banquet room) 6:30 pm*  
(ASNE and other Engineering Society Members pay member price)

For reservations or information, please call or email by Monday, April 16<sup>th</sup>, 2012

Matt Eayre: (215) 463-3110: [meayre@gmail.com](mailto:meayre@gmail.com)  
Greg Morrow: (540) 239-1151: [greg.morrow@cdicorp.com](mailto:greg.morrow@cdicorp.com)