

PHILADELPHIA



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THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

PHILADELPHIA SECTION

PRESENTS

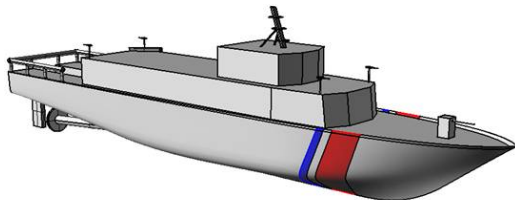
STUDENT PRESENTATION NIGHT

WEDNESDAY APRIL 15, 2009

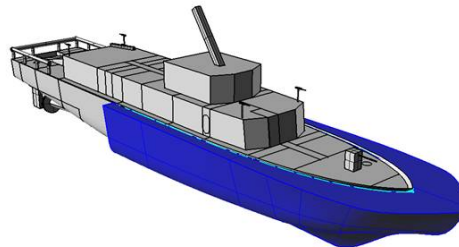
**PRESENTATION OF A U.S. COAST GUARD ACADEMY
NAVAL ARCHITECTURE AND MARINE ENGINEERING
SENIOR DESIGN PROJECT**

COAST GUARD ICEBREAKING TUG

BEAVER BOAT-BUILDING COMPANY (BBC) DESIGN GROUP



WTGB



WTGB with Ice Breaking Barge

THE USCGA CLASS OF 2009

NAVAL ARCHITECTS AND MARINE ENGINEERS

Throughout the 2008-2009 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 three different design groups trying to satisfy mission requirements for a new class of Coast Guard Icebreaking tugs.

The Coast Guard's current fleet of 140 ft WTGB Icebreaking tugs is aging, and there is current growth in Coast Guard mission areas, causing for a need to begin the process to replace these vessels. Each of the three senior design groups was assigned different variants to design an icebreaker from, all of which could serve as a solid base of information for the Coast Guard. The three variants were an Escort Icebreaking Tug, an Icebreaking Tug designed to work with a Aids to Navigation barge, and a law enforcement focused Icebreaking tug

The design group the Beaver Boat-Building Company (BBC) will be presenting their variant of the Coast Guard Icebreaking Tug. The group was required to design law enforcement vessel with a top speed of 20 kts that can break through 3 feet of ice at 2 knots, and is powered by medium speed diesel engines. 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, midship section design, propulsion plant design, model testing, electrical distribution, HVAC design, cost analysis, and crewing considerations. The design team will prepare a full presentation of their project and field questions from the audience.

JOIN US:

WEDNESDAY ~ APRIL 15, 2009

Where: 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: 5:30 pm ~ Dinner: 6:30 pm
(ASNE and other Engineering Society Members pay member price)

For reservations or information, please call or send Email by Monday April 13, 2009

Tim Keyser: (215) 656-6171: Timothy.J.Keyser@usace.army.mil

If you have any questions, please let me know.

Or

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***ELECTIONS FOR THE 2009-2010 YEAR WILL BE HELD
BEFORE THE PRESENTATION.***

The Philadelphia Section is currently looking for candidates for the following officer positions:

Membership Chair
Secretary / Treasurer
Vice-Chair

If you are interested, please contact Rod Sutherland or Tim Keyser.