

## Michael "Mick" Peterson

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**From:** Michael "Mick" Peterson [michael.peterson@maine.edu]

**Sent:** Friday, March 30, 2007 7:20 AM

**To:** 'Bill Davids (William\_Davids@umit.maine.edu)'; 'Eric Landis (Eric\_Landis@umit.maine.edu)'; 'Graduate Students Fall 2005'; 'Justin Poland (justin.poland@umit.maine.edu)'; 'Larry Thompson (lthompson@appliedthermalsciences.com)'; 'Meg Smith'; 'Roberto Lopez-Anido (RLA@maine.edu)'; 'Senthil Vel (Senthil Vel)'

**Subject:** Seminar

Mechanical Engineering Seminar

March 30, 2007

3:10 PM

220 Boardman

Naval Architecture, Wave Resistance, and Stuff

Doug Read, Ph.D. Candidate Ocean Engineering

This seminar is meant to be an informal introduction to the concepts in naval architecture that are important to my current research in ship hull optimization. Naval architecture and mechanical engineering share many subject areas, including fluid dynamics, structures, thermodynamics, and vibrations. I would like to relate these to my research topic, with particular attention to ship wave resistance and its role in determining performance. I will also present some initial work on a mathematically defined hull series and the use of computational intelligence methods to compute wave resistance.

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