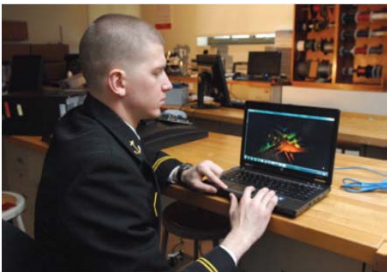




2013 Trident Scholar Presentations

Rickover Hall, Room 103

Thursday AM, 25 April 2013



0800

MIDN 1/C Mitchell R. Graves

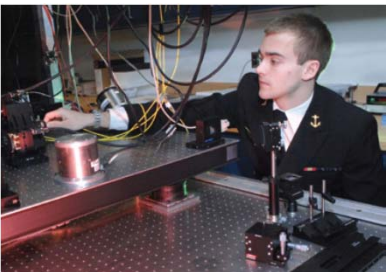
An Algorithm to Identify and Localize Suitable Dock Locations from 3-D LiDAR Scans



0930

MIDN 1/C Andrew J. Rydalch

Turbulent Boundary Layer Flow over Superhydrophobic Surfaces



0845

MIDN 1/C Zachary M. Patrick

Pointing and Jitter Control for the USNA Multiple-Beam Combining System Using H-Infinity Adaptive Control with Video Sensor Feedback



1015

MIDN 1/C Matthew P. Christian

Numerical Model for Predicting and Managing Heat Dissipation from a Neural Probe



2013 Trident Scholar Presentations

Rickover Hall, Room 103

Thursday PM, 25 April 2013



1300

Midn 1/C Max C. Van Benthem

Tow Tank Measurements of Hydrodynamic Performance of a Horizontal Axis Tidal Turbine Under Unsteady Flow Conditions



1430

MIDN 1/C Peter A. Roemer

Stochastic Modeling of the Persistence of HIV: Early Population Dynamics



1345

MIDN 1/C Jennifer L. Jones

An Evaluation of the Corrosion and Mechanical Performance of Interstitially Surface Hardened Stainless Steel



1515

MIDN 1/C Caitlin M. Fine

Structural Changes and Convective Processes in Tropical Cyclones as Seen in Infrared and Water Vapor Satellite Data



2013 Trident Scholar Presentations

Rickover Hall, Room 103

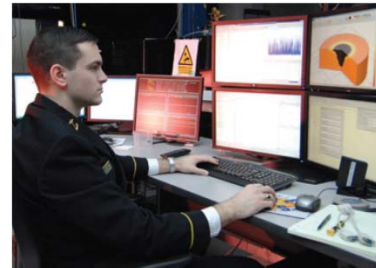
Friday, 26 April 2013



0800

MIDN 1/C Kyle A. Elam

Isolation of Thermal and Strain Responses in Composites using Embedded Fiber Bragg Grating Temperature Sensors



0930

MIDN 1/C Andrew C. Tresansky

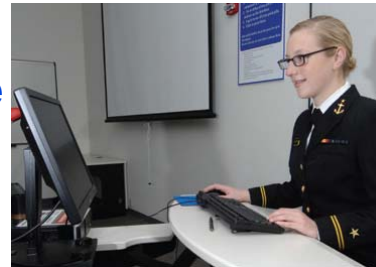
Numerical Modeling of High Irradiance Electromagnetic Beam Effects on Composite and Polymer Materials



0845

MIDN 1/C Nicholas R. LaSalle

Study of Passive Flow Control for Ship Air Wakes



1015

MIDN 1/C Phoebe M. Kotlikoff

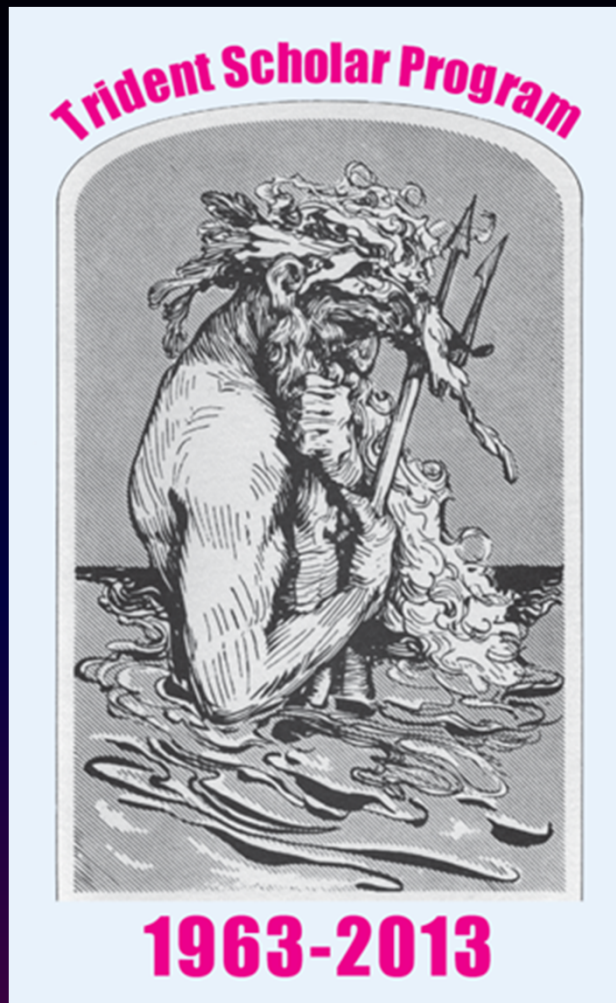
Estimating the Effects of Pre-College Education on College Performance



1100

MIDN 1/C Christopher D. Galvin

Effect of Unsteady Wakes on Turbine Tip Gap Leakage



The U.S. Naval Academy instituted the Trident Scholar Program in 1963 to provide an opportunity for exceptionally capable midshipmen to engage in independent study and research during their senior year. Over its 50-year history, 488 midshipmen have participated in the program contributing their talents, creativity, and enthusiasm to a challenging project. Please join us at these presentations to acknowledge the efforts and celebrate the contributions of this year's Trident Scholars.



The Trident Scholar Program is generously supported by the Office of Naval Research.