ACADEMIC DEAN AND PROVOST NOTICE 1531

From: Academic Dean and Provost

Subj: TRIDENT SCHOLARS FOR ACADEMIC YEAR 2016-2017

Ref: (a) ACDEANINST 1531.68A

1. Purpose. To publish the list of Trident Scholars approved for AY 2016-2017 in accordance with reference (a).

2. Information. Approval is hereby granted for the following 10 Midshipmen to conduct their proposed projects as Trident Scholars:

   Class of 2017 Trident Scholars

   1. MIDSHIPMAN 2/C BENJAMIN H. BAILIN
      Mechanical Engineering Major
      The Effects of Unsteady Flow Conditions on the Performance of a Vertical Axis Hydrokinetic Turbine
      Advisors: LCDR Ethan E. Lust, Mechanical Engineering Department
         Professor Karen A. Flack, Mechanical Engineering Department

   2. MIDSHIPMAN 2/C TAHLER D. BANDARRA
      Mechanical Engineering Major
      Finite Element Modeling and Artificial Bone Testing of Spinal Screw Trajectories
      Advisors: Associate Professor Joel J. Schubbe, Mechanical Engineering Department
         Assistant Professor Emily L. Huskins, Mechanical Engineering Department
         Assistant Professor Samar R. Malek, Mechanical Engineering Department

   3. MIDSHIPMAN 2/C BRIAN P. CULLY
      Aerospace Engineering Major
      Assessment of Hover Performance Enhancements of Leading-Edge Protuberances on Rotor Blades
      Advisors: Assistant Professor Joseph I. Milluzzo, Aerospace Engineering Department
         Associate Professor David S. Miklosovic, Aerospace Engineering Department
         Associate Professor Mark M. Murray, Mechanical Engineering Department

   4. MIDSHIPMAN 2/C JOHN T. DAVIN
      Information Technology Major
      Cybersecurity Impact of “Shoulder Surfing” Attacks on Password Authentication on Mobile Devices
      Advisor: Assistant Professor Adam J. Aviv, Computer Science Department

   5. MIDSHIPMAN 2/C ETHAN W. DOHERTY
      System Engineering (Honors) Major
Path Planning for Reduced Identifiability of Unmanned Surface Vessels Conducting Intelligence, Surveillance, and Reconnaissance
Advisors: Professor Kiriakos Kiriakidis, Weapons and Systems Engineering Department
CAPT (sel) Michael A. Hurni, USN, Ph.D., Weapons and Systems Engineering Department

6. MIDSHIPMAN 2/C EMILY S. KILEN
   Applied Physics Major
   Development of a Metal-Ion-Dependent Switch Engineered into the Interior of a Protein
   Advisors: Professor Jamie L. Schlessman, Chemistry Department
             Associate Professor Carl E. Mungan, Physics Department

7. MIDSHIPMAN 2/C CHRISTOPHER L. PANUSKI
   Electrical Engineering and Physics Major
   Development of an Integrated Opto-Electro-Mechanical RF-to-Optical Signal Transducer
   Advisors: Associate Professor R. Brian Jenkins, Electrical and Computer Engineering Department
             Associate Professor Deborah M. Mechtel, Electrical and Computer Engineering Department
             Associate Professor Carl E. Mungan, Physics Department
             Professor Nicholas J. Frigo, Physics Department

8. MIDSHIPMAN 2/C JOSEPH J. SIMPSON
   Physics Major
   Study of Doubly-Charged Delta Baryons at the Relativistic Heavy Ion Collider
   Advisor: Associate Professor Richard A. Witt, Physics Department

9. MIDSHIPMAN 2/C JAMES P. TALISSE
   Mathematics (Honors) Major
   Algebraic Structure of Dynamical Systems
   Advisor: Assistant Professor Kostya Medynets, Mathematics Department

10. MIDSHIPMAN 2/C THOMAS J. WILSON
    Systems Engineering (Honors) Major
    Modeling the Effects of Atmospheric Conditions on the Neutron Flux
    Advisors: Professor Svetlana Avramov-Zamurovic, Weapons and Systems Engineering Department
              Assistant Professor Marshall G. Millett, Mechanical Engineering Department
              VADM(ret) Charles J. Leidig, Mechanical Engineering Department
              Professor (ret) Martin E. Nelson, Mechanical Engineering Department
              Lieutenant Kayla J. Barron, Superintendent’s Office
              Professor Douglas VanDerwerken, Mathematics Department

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