ACADEMIC DEAN AND PROVOST NOTICE 1531

From: Academic Dean and Provost

Subj: TRIDENT SCHOLARS FOR ACADEMIC YEAR 2015-2016

Ref: (a) ACDEANINST 1531.68A

1. **Purpose**: To publish the list of Trident Scholars approved for AY 2015-2016 in accordance with reference (a).

2. **Information**: Approval is hereby granted for the following 11 Midshipmen to conduct their proposed projects as Trident Scholars:

**Class of 2016 Trident Scholars**

1. **MIDSHIPMAN 2/C ALVIN A. ABES** 16th Company
   Systems Engineering Major
   *Modeling and Control of the Cobelli Model as a Personalized Prescriptive Tool for Diabetes Treatment*
   Advisor: Professor Richard O'Brien, Weapons and Systems Engineering Department
   External Collaborator: Dr. Ledys J. DiMarsico, M.D., Sinai Hospital of Baltimore

2. **MIDSHIPMAN 2/C RYAN J. BURMEISTER** 15th Company
   Computer Science Major
   *Fast, Distributed Algorithms for Training of Deep Networks*
   Advisor: Assistant Professor Gavin W. Taylor, Computer Science Department
   External Collaborator: Assistant Professor Thomas Goldstein, University of Maryland

3. **MIDSHIPMAN 2/C JAMES F. COOKE** 7th Company
   Systems Engineering Honors Major
   *Uncalibrated Three-Dimensional Microrobot Control*
   Advisors: Associate Professor Jenelle A. Piepmeier, Weapons and Systems Engineering Department
   Professor Samara L. Firebaugh, Electrical and Computer Engineering Department
   Assistant Professor Hatem Elbiedweih, Electrical and Computer Engineering Department

4. **MIDSHIPMAN 2/C MIGUEL A. NIEVES II** 29th Company
   Operations Research Major
   *Markov Decision Process model of the Accept/Decline Decision in Liver Transplantation*
   Advisor: Associate Professor Sommer E. Gentry, Mathematics Department
   External Collaborator: Associate Professor Dorry Segev, Johns Hopkins University School of Medicine
5. MIDSHIPMAN 2/C SPENCER C. SHABSHAB 11th Company
Electrical Engineering Major
*Nonlinear Control Method for Synchronization of Converter-Interfaced Generators*
Advisors: Assistant Professor Daniel F. Opila, Electrical and Computer Engineering Department
CDR John D. Stevens, USN, Electrical and Computer Engineering Department
External Collaborators: Assistant Professor Sairaj Dhople, University of Minnesota
Dr. Brian Johnson, Ph.D., Power Systems Engineering Center, National Renewable Energy Laboratory

6. MIDSHIPMAN 2/C IAN E. SHAW 18th Company
Mathematics Honors Major
*Construction of Rational Maps on the Projective Line with Given Dynamical Structure*
Advisors: Associate Professor Amy E. Ksir, Mathematics Department
Assistant Professor LT Brian J. Stout, USN, Mathematics Department

7. MIDSHIPMAN 2/C AARON M. SIMS 17th Company
System Engineering Honors Major
*Control of Multi-Vehicle Formations with Coordinated Inter-Vehicle Communication*
Advisors: Associate Professor Levi D. DeVries, Weapons and Systems Engineering Department
VADM (Ret.) Joe Leidig, USN, Mechanical Engineering Department

8. MIDSHIPMAN 2/C TIMOTHY E. TRACEY 22nd Company
Mechanical Engineering Major
*Measurement and Modeling of High Energy Laser (HEL)-Droplet Interactions*
Advisors: Associate Professor Cody J. Brownell, Mechanical Engineering Department
Assistant Professor CDR Stuart R. Blair, USN, Mechanical Engineering Department

9. MIDSHIPMAN 2/C THOMAS J. WESTER 14th Company
Applied Mathematics Honors Major
*Mathematical Modeling: Immune System Dynamics in the Presence of Cancer and Immunodeficiency in vivo*
Advisors: Associate Professor Sonia M. Garcia, Mathematics Department
Assistant Professor Daniel D. Isaac, Chemistry Department

10. MIDSHIPMAN 2/C MICHAEL A. WOULFE 20th Company
Physics Major
*Towards a Theory of a Nearly Two-Dimensional Dipolar Bose Gas*
Advisor: Assistant Professor Ryan M. Wilson, Physics Department

Signature
A.T. PHILLIPS

Distribution:
All Non-Mids (Electronically)