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CNA Resource Analysis Division
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306 Egan Center

Abstract
The United States Navy operates a complex Manpower, Personnel, Training, and Education (MPT&E) enterprise that employs over 300,000 sailors and several thousand civilian employees. Navy leadership often asks questions about the best way to manage this very large workforce. Are our sailors receiving the proper training? How do we quantify the Navy’s personnel readiness to complete missions? What is the right number of sailors to bring into a specific community? How many sailors will leave the Navy when the economy recovers? These types of questions are brought to CNA where we perform research and analysis to provide clear and creditable answers to Navy leadership. This talk will present some of the common challenges faced in MPT&E and show the opportunity for operations research to assist the Navy in making workforce decisions. Two applications are highlighted. The first is a mixed integer program used to create a minimal cost hiring and promotion plan for the Naval Fleet Auxiliary force. The second application presents a methodology to allow the Navy to optimize the multi-criteria assignment process.

Bio
Dr. Warren Sutton is a research analyst for CNA, a non-profit organization that serves as the federal funded research and development center for the United States Navy and United States Marine Corps. He works within the Resource Analysis Division where he frequently interacts with Navy leadership on a variety of manpower and personnel readiness issues. In addition to his work at CNA, he serves as a lecturer in the department of Decision Sciences at George Washington University. Prior to his current positions, Warren worked in various capacities in the automotive, transportation, and packaging industries. Warren is a graduate of the University of Michigan where he received his PhD in Industrial and Operations Engineering.

Refreshments will be served

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