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2015-01-30

An overview of recent and ongoing studies at  
NPS linking operational effectiveness and  
energy efficiency for USMC

Paulo, Gene

Monterey, California: Naval Postgraduate School

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# ENERGY ACADEMIC GROUP

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## Defense Energy Seminar

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### AN OVERVIEW OF RECENT AND ONGOING STUDIES AT NPS LINKING OPERATIONAL EFFECTIVENESS AND ENERGY EFFICIENCY FOR USMC

January 30, 2015 - ME Auditorium - 1300



**Dr. Gene Paulo**

*Associate Professor of Systems Engineering in the Graduate School of Engineering and Applied Sciences at the Naval Postgraduate School*

**Abstract**

In support of USMC Expeditionary Energy Office (E2O), several recent studies involving Systems Engineering Masters students have examined the relationship between operational effectiveness and energy efficiency. Missions as diverse as humanitarian assistance and area denial/anti-access have been addressed, while scenarios including delivery of aid in ground operations, gaining entry from sea to objective, and ground combat operations have been developed and analyzed. Upcoming work will also be discussed, as we plan to focus on an extension of the ground combat operation, as well as the inclusion of an Operations Research Masters student developing and examining a discrete-event model for exploring various airborne platforms to support the operations.

**Biography**

Gene Paulo is an Associate Professor of Systems Engineering in the Graduate School of Engineering and Applied Sciences at the Naval Postgraduate School. Dr. Paulo earned a BS in Engineering from U.S. Military Academy, an MS in Operations Research from Naval Postgraduate School, and a PhD in Industrial Engineering and Management Systems from the University of Central Florida. He developed and now teaches a course in model-based systems engineering, and also developed and teaches an introductory course in modeling and simulation in DoD. His research interests include development of an analysis methodology using model-based systems

engineering, simulation analysis, and system architecting.

**POC**

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