Virtual Technologies and Environments for Expeditionary Warfare Training

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Abstract

Advances in technology are enhancing our ability to create realistic Virtual Environments (VEs) in which Sailors and Marines can train skills that are too costly, dangerous or otherwise impossible to practice. These capabilities will become even more important in the future as budgets and time for training decrease. The proposed panel will discuss an ONR Future Naval Capabilities R&D initiative which will demonstrate the power and effectiveness of applying Virtual Technologies and Environments (VIRTE) to training expeditionary warfare.

The VIRTE team is focused on developing two basic elements of VE training technology: (1) improving the quality of interaction provided by VE, and (2) applying advanced training aids and methodologies to meet fleet requirements. The panel will discuss the innovative training methodologies and VE technology under development for a triad of expeditionary warfare vehicles including Landing Craft, Air Cushion (LCAC), Advanced Amphibious Assault Vehicle (AAAV) and MV-22 Osprey platforms. Additionally, insight into the application of a Virtual Project Management process to this initiative will be shared. Panelists will represent various virtual project teams (VPTs) including the Management, Operational, System Engineering & Integration, Virtual Simulation and Human Behavior Representation VPTs. Each representative will be prepared to explore the interdependence required for a successful program cycle. This cycle begins with the definition of user requirements, progresses through the design, development and integration of prototype systems, and concludes with training effectiveness evaluations and customer transitions.