2011 NTSA Modeling & Simulation Awards

for Outstanding Achievement in Modeling & Simulation

Each year, the NTSA M&S Awards are presented to individuals or teams for outstanding achievements in the development or application of models and simulations. Awards may be given for outstanding achievement in the specific M&S functional areas of Training, Analysis, and Acquisition, and for outstanding achievement in support of the overall M&S effort (Cross-Function). Individual Lifetime Achievement awards may also be presented.

NTSA is pleased to announce the following winners of the 2011 Governor's Award and the 2011 NTSA M&S Awards for Outstanding Achievement in Modeling & Simulation.

<u>2011 Governor's Award</u>

TraumaFX Multiple Amputation Trauma Trainer (MATT) Team
U.S. Army Research Laboratory (ARL) Human Research and Engineering
Directorate (HRED) Simulation & Training Technology Center (STTC)

The TraumaFX Multiple Amputation Trauma Trainer (MATT) represents a significant improvement in the realism and clinical accuracy of severe trauma simulations. Incorporating animatronics and other special effects technologies, the MATT more fully prepares trainees for the traumatic injuries they will treat in the battlefield. The MATT Team is recognized for their accomplishments from concept definition through prototype development, refinement, evaluation and testing. Over four thousand American warfighters have trained on the MATT system, utilizing 182 world-wide prototypes, and PEO STRI has procured two systems for each of the 21 Army Medical Simulation Training Centers.

2011 NTSA M&S Awards

Acquisition

Live Training Transformation (LT2) Product Line Team
PM TRADE, U.S. Army PEO STRI

The LT2 Product Line Strategy maintains the combat edge and builds resilience in our forces by providing state-of-the-art training systems to the Warfighter. The Army and Marine Corps have achieved considerable cost avoidance through inter-service development efforts. With over 130 systems fielded globally, LT2 employs strategies that significantly reduce fielding time, minimize costs, enable ownership cost reductions across the Live Training domain and Live, Virtual, Constructive-Integrated Training Environment, and enhance training benefits to the Warfighter.

Cross-Function

National Cyber Range Program
Lockhed Martin / DARPA

Initiated to increase the pace of innovation in the cyber domain, the National Cyber Range provides the United States government an avenue to outpace cyber threats that could potentially debilitate the Internet, DoD systems and government agencies. A cornerstone of the president's Comprehensive National Cyber Security Initiative and the Department of Defense's Strategy for Operating in Cyber Space, the National Cyber Range simulates large-scale, complex networks and allows realistic testing, training and evaluation of cyber threats.

Lifetime Achievement

Mr. Mark Adducchio
Chief Engineer, U.S. Air Force Simulators Division

During his career, Mark Adducchio has made significant and invaluable contributions to the success of multiple major training system programs. Beginning as a junior engineer on the B-52 training systems program, Mark went on to lead numerous programs, including: the B-2 and C-17 maintenance training systems; Special Operations Forces Aircrew Training System; F-22 Training System; and the Distributed Mission Operations (DMO) program. As Chief Engineer of the USAF Simulators Division, Mr. Adducchio currently oversees the execution of approximately fifty training system acquisition and sustainment programs. Over the course of his career, Mr. Adducchio has set new

benchmarks for successful training programs and has made lasting contributions to the field of Modeling & Simulation.

Training

Institute for Simulation & Training
University of Central Florida

The Institute for Simulation and Training at UCF combines research-proven curricula with innovative delivery systems to dramatically improve training for people in critical roles. For a quarter-century IST has consistently delivered practical ways to produce effective training. Its digital-puppeteer-based instructor training and haptic battlefield trainers represent such innovation. Partnerships and interdisciplinary collaboration are the primary ingredients in IST's recipes for increasing our understanding of how simulation can be best applied to training and education.

MSgt Gregory Kassa, USAF
Operations Training Manager, 111th Air Support Operations Squadron

Master Sergeant Kassa identified a void in Air Support Operations Center (ASOC) training and led the development of a stand-alone training/simulation system for ASOC full mission rehearsals. The simulation environment he created allows training events to mirror real-world air and ground combat operations, as seen in theater. Due to his tireless efforts to refine, document, standardize, implement and promote these new training capabilities, the training and simulation methods he created are now being used throughout the Air Force and Air National Guard.

NEWIT-ISS Team
Office of Naval Research, UCF-IST, Design Interactive, Lockheed Martin, and CHI Systems

The NEWIT-ISS development team, supported by the Office of Naval Research and led by UCF-IST, has demonstrated outstanding achievement in three major areas: creation of a fully-deployed instructional support system; advancement of the science of simulation-based training; and demonstration of substantial gains in both training effectiveness and efficiency. They have addressed a major training gap by providing a system that empowers small unit leaders to harness the power of simulation-based training and provide the right training, in the right format, at the right time.

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