

NTSA 2022 Modeling & Simulation Award



Lifetime Achievement in Modeling & Simulation in Industry

JoAnne Puglisi
LOCKHEED MARTIN

Ms. JoAnne Puglisi spent her entire Lockheed Martin career fixing, developing, implementing and operating military training, simulation, and modeling systems and programs. Her impact on the world's largest defense program – the F-35 Lightning II, cannot be disputed. As obvious as might it seem today, her training concept directed that pilots and maintainers should directly mirror how they perform in theater – a radical thought in the mid-1990s. Key to her remarkable success was her singular focus on the mission and those who supported it.



Lifetime Achievement in Modeling & Simulation in Academia

Dr. Peter A. Hancock
UNIVERSITY OF CENTRAL FLORIDA

Since the late 1970's Professor Peter Hancock has been at the forefront of Modeling and Simulation. His early work on modeling physiological systems helped pioneer computer-based simulation of human response in extreme environments. In the early 1990's, he published the first work on transfer of training from virtual reality to actual operational conditions. Professor Hancock has secured over \$21 million in externally funded research and has authored more than 1,000 scientific articles and reports.



Training Systems Acquisition

Persistent Cyber Training Environment
(PCTE) Acquisition Team Product Manager
Cyber Resiliency and Training (PdM CRT)

The PEO STRI and ACC-Orlando Persistent Cyber Training Environment (PCTE) Acquisition Team is an Army-led agile acquisition program delivering a distributed capability across all services to "train as they fight" in a relevant, configurable and realtime virtual environment for the Department of Defense (DoD) Cyber Mission Forces (CMF) at individual, group/team and force-level. The PCTE team's innovative acquisition strategy directly resulted in delivering capability to the cyber warfighter ahead of schedule.



Training and Simulation

705th Combat Training Squadron (CTS),
Distributed Mission Operations Center (DMOC),
Modeling and Simulation Team, Kirtland AFB, NM

The U.S. Air Force's 705th Combat Training Squadron (CTS), Distributed Mission Operations Center (DMOC) Modeling and Simulation Team effectively modeled and replicated realistic nuclear weapons effects into a multitude of U.S. and Coalition simulation training events. The USAF has come to recognize that in the modern threat environment, U.S. service members must be able to survive and continue to conduct conventional operations in a nuclear environment. The multiple simulation-based modeling solutions replicating the projected nuclear effects have enabled the DoD and the AF to train on how to continue operations under the effects of small-scale nuclear events.

Winners Announced at I/ITSEC 2022



Education and Human Performance Individual

Sofia Santiago, Ph.D.

PATHWAYS BUSINESS SEMINARS

During COVID, Dr. Sofia Santiago utilized innovative methodologies and best practices to design, develop, and convert Resident Instruction to Virtual Instruction thus allowing the U.S. Army's Medical Center of Excellence to be at the forefront of virtual instruction (VI) which was central to Soldier Readiness during COVID. Dr. Sofia Santiago's work resulted in MEDCoE achieving the distinction of highest continued training out of the 10 Army Centers of Excellence during the pandemic.



Education and Human Performance Team

Rigil and Hampton University
StrataGem Team

Hampton University is the only Historically Black College/University (HBCU) with the Federal Aviation Administration (FAA)-endorsed program: Air Traffic Collegiate Training Initiative (AT-CTI). HU implemented Rigil's StrataGem enterprise platform to help students learn in 2021. Since introducing StrataGem, air traffic control instructors saw a 10 percent increase in average test scores. The university extended the platform into five different AT-CTI courses and the tool continues to help HU achieve desired learning goals.

All award winners pictured with Rear Admiral James A. Robb, USN (Ret.), President of the National Training and Simulation Association.