

# 2017 NTSA Modeling & Simulation Awards and Governor's Award

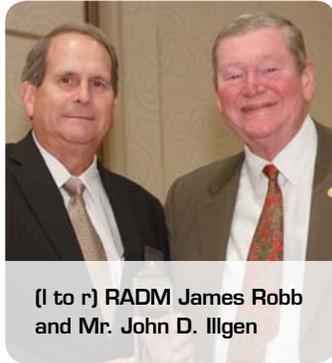
The National Training and Simulation Association (NTSA) presented its annual Modeling & Simulation Awards, as well as the 2017 Governor's Award for Lifetime Achievement in Modeling & Simulation, at the NTSA M&S Awards Dinner at the Hyatt Regency Orlando on Tuesday, November 28. NTSA President RADM James

## 2017 Governor's Award for Lifetime Achievement in Modeling & Simulation

**Mr. John D. Illgen**

**Senior Director, Modeling & Simulation  
Northrop Grumman Mission Systems**

John Illgen is recognized for his achievement as a pioneer in the development and application of M&S methods and technologies. After working for several companies, Mr. Illgen founded Illgen Simulation Technologies, Inc. (ISTI) in 1988. He subsequently led the development of an Open Ended Architecture using web-based technologies to integrate and interoperate distributed systems and simulations. Northrop Grumman acquired ISTI in 2003. Mr. Illgen enjoys a national and international reputation for his experience and leadership in a broad spectrum of technical domains, and has held numerous leadership positions with organizations such as NDIA, ITEA, IEEE and SCS. Mr. Illgen has chaired and served on innumerable technical panels and committees, and has published and presented scores of technical papers on M&S. He has received numerous commendations, medals and awards for his technical, management, and policy contributions for defense, civil, and commercial applications. Mr. Illgen's leadership and expertise have had a significant and lasting impact on the M&S community of practice and beyond. His contributions have been vital to the effectiveness of our armed forces and to our national security in general.



(l to r) RADM James Robb and Mr. John D. Illgen

## 2017 NTSA Modeling & Simulation Award Winners – Analysis

**LD2 ISR M&S Concept Team:  
USSOUTHCOM, XSITE LLC & Analytical Graphics, Inc.**



(l to r) RADM James Robb, LTC Todd Moe, USA, US SOUTHCOM and RADM James Rodman, Jr., XSITE, LLC

Robb, USN (Ret), presented awards to a diverse group of teams from US Pacific Command, US Southern Command, Wright-Patterson Air Force Base and Systems Technology, Inc. The 2017 Governor's Award for Lifetime Achievement in M&S was presented to Mr. John Illgen, Senior Director, Northrop Grumman Mission Systems.

US Southern Command, XSITE LLC and Analytical Graphics, Inc. are recognized for outstanding achievement in developing the first-ever long dwell, long duration persistent intelligence, surveillance and reconnaissance (ISR) model that incorporates stratospheric balloons, unmanned surface vehicles, and unmanned aerial vehicles in a representative maritime environment. The Systems Toolkit model gives SOUTHCOM unprecedented insight into the optimal employment of these commercially available ISR assets for detecting, monitoring and interdicting the flow of illicit drugs through the SOUTHCOM Area of Operations.

## 2017 NTSA Modeling & Simulation Award Winners – Training

**MQ-9 Special Projects MJAT Team, Medium Altitude UAS Division (AFL-CMC/WII)**

The MQ-9 Special Projects MJAT Team at Wright-Patterson Air Force Base delivered a networked, deployable, Multi-Level Security Reaper Unmanned Aircraft System aircrew trainer for Air Force Special Operations Command. They fielded two trainer software releases 30 days ahead of actual aircraft software, resulting in early certification of more than 200 aircrew. They were the first ever MQ-9 trainer in Exercises VIRTUAL FLAG and COALITION VIRTUAL FLAG, completing more than 2,000 currency events for 70 US and coalition partners.

## 2017 NTSA Modeling & Simulation Award Winners - Training

**PARASIM Development Team, Systems Technology, Inc.**

PARASIM simulation systems are highly-integrated virtual reality interactive



(l to r) Mr. David Butler, Ms. Jill Willingham and Mr. Thomas Cotten



(l to r) RADM James Robb and Mr. David Landon, President and CEO, Systems Technology, Inc.



parachute flight simulation devices for operational airborne troop and aircrew emergency procedures training. PARASIM training features include altitude awareness, ripcord operation, malfunctions recognition and correction, canopy control, and collision avoidance. The Freefall Maneuvering Module combines body tracking technology, Computational Fluid Dynamics analysis of parachutists in freefall, anthropomorphic human modeling, and the PARASIM 3D wind model to create a real-time freefall maneuvering simulation. The innovative simulation enables freefall navigation, safe separation from other jumpers in group operations, and avoiding canopy entanglement upon opening.

### 2017 NTSA Modeling & Simulation Award Winners – Training US Pacific Command, Cyber War Innovation Center

The Cyber War Innovation Center (CWIC) is a world-class cyber testing, training, and experimentation environment, developing and incorporating innovative modeling and simulation capabilities, to meet the rigorous demands of the cyber workforce in the Pacific theater. CWIC products and technologies allow both cyber and non-cyber operators to safely and securely develop and experience realistic cyberspace capabilities necessary to

ensure mission success. The CWIC is committed to improving cyber training and simulation and sharing its expertise with others.

### Special Recognition for Excellence in Training – International/Non-Defense

#### Dubai Police Virtual Technology Center

The Dubai Police employ cutting-edge video game technologies to create virtual environments – ranging from crime scenes to traffic accidents to hostage scenarios – that allow trainees to learn-by-doing in a safe and practical environment. Training effectiveness has

been greatly increased, while the costs associated with training have been significantly reduced. Within the Virtual Technology Center, the first specialized in-house games development center in a police organization in the region, a team of experts in virtual environments and serious games has created a large portfolio of virtual products, which are being used both nationally and regionally. They have secured multiple copyrights for virtual environments, and are now selling existing products to – and building custom-made applications for – other organizations.



(l to r) RADM James Robb, Dr. David “Fuzzy” Wells, Director, Cyber War Innovation Center and Mr. Derek Bryan, President, Ingenia Services, Inc.