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Florida Hotel and Conference Center  
Orlando, FL



# I/ITSEC 2016

The World's Largest Modeling, Simulation & Training Conference

## YouTube - Videos from I/ITSEC 2015!



Don't Miss all the Interesting Videos



Certified Modeling and  
Simulation Professional  
THE DISTINCTION OF A TRUE M&S PROFESSIONAL

### EARNING THE CMSP DESIGNATION WILL:

- Demonstrate expertise in the field of M&S to your employer and the larger M&S community
- Provide opportunities for professional advancement

Requirements include 3-8 years of work experience (depending on level of highest collegiate degree), 3 professional letters of reference, and successful completion of an online examination.

To learn more about the requirements, the CMSP exam, and the applications process, please visit

[WWW.SIMPROFESSIONAL.ORG](http://WWW.SIMPROFESSIONAL.ORG)

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**MODSIM World 2016 - April 26-28, Virginia Beach, VA**

MODSIM World is a unique multi-disciplinary conference for the exchange of modeling and simulation knowledge, research and technology. MODSIM World joins theory and practice across industry, government and academia--providing for an open interchange of information, knowledge and technology.

The theme for MODSIM World 2016 is **Empowering User Communities with Modeling and Simulation**, which reflects the importance of users and partners in the business model and the ability for modeling and simulation (M&S) to shape and influence each community.

MODSIM World 2016 will address the state of M&S in the community domains of today, including cyber, energy, healthcare, entrepreneurship, manufacturing, inter-modal transportation, defense, homeland security, and lifelong learning.

Cross-cutting these domains are the enduring tracks of Training and Education, Analytics and Decision-Making, Science and Engineering, and Visualization and Gamification.

In addition to thought provoking keynote speakers, panelists and collaborative events, MODSIM World 2016 is hosting a full schedule of paper presentations from experts representing the entire M&S community. The vast and varied world of modeling and simulation technology and thought leadership will be on full display at MODSIM World 2016.

**Exhibits & Sponsorships**

Companies interested in exhibiting and/or sponsoring should contact Debbie Langelier at [dlangelier@ndia.org](mailto:dlangelier@ndia.org) or 703-247-9480 for further information and rates.

2015 exhibitors included: AEGIS Technologies, Aruba Networks, CSC, George Mason University, Georgia Tech Research Institute (GTRI), Hampton Roads Economic Development Alliance, Intelligent Decision Systems, Loyola Enterprises, MYMIC, Newport News Shipbuilding, ODU-MSVE, SimVentions, Virginia Beach EDC and VT MAK.

Please visit [www.trainingsystems.org/events](http://www.trainingsystems.org/events) to review the MODSIM World Exhibitor/Sponsorship Prospectus and the floor plan.

**Registration and Lodging**

Early registration will end April 8. Registration is complimentary

for government/military personnel.

Blocks of rooms have been reserved at two properties for MODSIM World 2016: **the DoubleTree by Hilton** (adjacent to the Virginia Beach Convention Center) and the **Courtyard Marriott South Virginia Beach**. Cut-off dates are rapidly approaching, so don't delay.

For complete details on registration and lodging, please visit [www.trainingsystems.org/events](http://www.trainingsystems.org/events).

### **Program / Agenda**

For more detailed information on MODSIM World 2016 – including themes, paper tracks and special events - please visit <http://modsimworld.org>.

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### **MODSIM 2016 Theme to Focus on Lifelong Learning**

Whether your community is the department of defense, medicine, industry, or education itself, you face the same challenges in learning -- how do you create not just agile people, but agile organizations? Your organization might have access to a vast set of data resources, learning plans, and personnel who need to be trained, but efficiencies can be made by focusing not only on the individual but small teams, and the larger organizational structure. As complexity in the world we need to train for has increased, our technological capacity and andragogical sophistication have continued to develop, as have the understanding of the 'human factors' which underpin our training gaps -- cognition, intuition, innovation and adaptive thinking, as well as how to promote complex decision-making skills at all levels.

Industry and military organizations are struggling to become learning organizations in this complex world. By definition, "learning organizations" are those companies or agencies that continuously transform themselves to maintain relevance within changing conditions, respond nimbly to the newest threats, and capitalize upon emerging opportunities. To support these collective outcomes, learning organizations necessarily promote continuous improvement at the individual levels; they possess a set of organizational values, conventions, processes, and practices that encourage individuals-and the organization as a whole-to increase knowledge, competence, and performance. As a result, learning organizations reap many benefits. While military leaders may be less concerned with business outcomes, the underlying drivers of those outcomes (e.g., efficiency, responsiveness, and anticipation) are universal. Those attributes that support business outcomes also support the effectiveness and adaptability of

Defense institutions in the face of volatility and turbulence.

Modeling and simulation should be the underpinnings of learning organizations, and the technologies that support them, from the individual learner to the organization. The MODSIM World "Lifelong learning" theme leverages the power of Modeling and simulation to drive enhanced learning environments and decompose the data behind learning. Lifelong learning will showcase applications for the early integration of learning science into training technologies, feature demonstrations, and discussions with thought leaders, and technology developers on how best to integrate modeling and simulation into learning.

Full details on MODSIM World 2016 can be found at <http://modsimworld.org>.

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## **Unmanned Aircraft Systems showcase at MODSIM World 2016**

At the upcoming MODSIM World Conference, one group is planning a demonstration to make the case for using simulation and modeling technologies to quickly grow the use of UAS within Virginia and beyond. The Conference, to be held 26-28 April in Virginia Beach will include two events led by the Virginia Modeling & Simulation Partnership (VMSP), a non-profit organization focused on promoting business and technology growth within Virginia.

The first event will be a demonstration of the capability and potential for M&S to greatly speed up introduction of UAS (Unmanned Aircraft Systems) into general use by industry, retail, and government organizations. The second will be a panel session in which experts from UAS communities will discuss the challenges, opportunities, and value of UAS in contributing to economic growth in Virginia.

It is a concept the VMSP tentatively calls virtual UAS World or "vUASWorld™". Originated as a discussion of how VMSP might contribute to the work of the Mid Atlantic Aviation Partnership, one of the six FAA-designated UAS test sites in the United States, plans have developed to the point of providing an initial demonstration at MODSIM World, with follow-up planned for the same event in 2017. The VMSP vision is to eventually host vUASWorld™ – a 3D virtual space in which simulated UAS can fly - in a cloud environment, operated and maintained by VMSP member organizations for the benefit of all. But VMSP envisions eventual extension of the cloud-hosting environment to serve other domains important to Virginia's economy – transportation,

healthcare, and service industries, among others.

Conference attendees will hear and see descriptions, and a small demonstration, of the potential for a virtual 3D environment to serve as a common ground in which vendors, industry, researchers, and government agencies can model, test, plan, and execute UAS operations in a safe environment, without concern for safety concerns associated with 'live' drone and UAS flights. And, once tested and vetted in a virtual environment, UAS operators should have earned the confidence of regulators and the general public that UAS operations in the national airspace – both urban and rural – can be conducted safely, contributing to business efficiency and cost reductions in the delivery of products and services to Virginia's citizens.

Full details on MODSIM World 2016 can be found at

<http://modsimworld.org>.

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### **The Simulation Century: Force of the Future (Special event to be held at MODSIM World 2016)**

This is our fourth annual session to address the growing issue of managing the human/ machine interface as we hurtle towards "Singularity." We will continue our discussion of how to achieve fluency with smarter simulations, achieving the right blend of man and machine to optimize outcomes. The Simulation Century Panel presentations will focus on the growing importance of simulation in a wide variety of fields from healthcare and education to government and military. These brief, high impact presentations will envision how 21st century simulation will shape humanity's future.

Moderator: Mr. Richard Boyd, CEO, SZL.IT

Panelists:

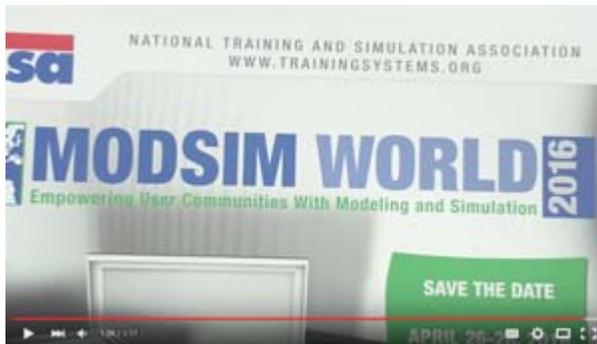
- Mr. Richard Boyd, CEO, SZL.IT, "The Force of the Future: Man vs. Machine"
- Mr. Kevin Clark, President, Content Evolution, "Choiceflow – Matching People with Automated Work Opportunities"
- Mr. Miles Palmer, Co-Founder, 8Rivers Capital, "The Transparent Society and the Force of the Future"
- Mr. David Pickering, Vice President, USFalcon, "Simulation, Security and the Force of the Future"
- Dr. Sae Schatz, Director, Advanced Distributed Learning (ADL) Initiative, "Lifelong Learning in the Force of the Future"
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### **MODSIM World Chair Michael Spitz Discusses Upcoming 2016 Event (Video)**



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### **2016 Simulation & Training Community Forum – May 10, Dayton, OH**

The NTSA Ohio Chapter invites you to attend the 2016 Simulation & Training Community Forum to be held at the Holiday Inn Dayton Fairborn on Tuesday, May 10, 2016. (In years past, this event was known as the USAF APBI.)

The Simulation & Training Community Forum will feature program updates from various branches of the USAF Simulators Division, as well as sessions on specific topics including “Data Access”, “Acquisition Process from RFI to Contract Award”, and “Industry 201: Proposal Prep Process.”

A detailed agenda will be posted online shortly.

The registration fee will be \$100/\$125 (Early/Late) for NTSA & NDIA members, and \$125/\$150 (Early/Late) for Non-Members. Registration is complimentary for government/military attendees. (Complimentary registrations do not include lunch, which may be purchased separately.)

Full details will be posted shortly at [www.trainingsystems.org/events](http://www.trainingsystems.org/events).

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**New Dates** Announced for TSIS 2016  
in Orlando, FL – June 14-15  
(Tuesday/Wednesday)

Due to the U.S. Army PEO STRI Change of Charter ceremony scheduled for Thursday, June 16 (an invitation-only event), TSIS 2016 is being moved up a day and will be held on **Tuesday, June 14 and Wednesday, June 15.**

Full details will be posted shortly at  
[www.trainingsystems.org/events](http://www.trainingsystems.org/events).

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### **2016 Simulation Innovation Workshop (SIW) - Call for Papers – April 8 Deadline**

SISO invites you to participate in the  
2016 Simulation Innovation Workshop (SIW) in Orlando Florida,  
September 11 – 16, 2016.

This year's theme is:

#### **Simulations Drive Innovation & Standards Drive Interoperability**

The SISO community has been fostering innovation and interoperability since the early 90s. Today, the technology landscape in front of us provides an even greater opportunity for the application of simulations and enabling standards. Our workshops provide an opportunity to share and build towards the future. If you are a developer, engineer, program manager, user, or Modeling and Simulation (M&S) visionary, then SIW is the place to be.

SISO's vision is to be on the leading edge of innovation and our mission is stay dedicated to the promotion of interoperability and reuse of models, simulations, and associated data. And our annual SIW offers a great venue for you to connect and collaborate on ideas that will forge the future. Come join us, and consider sharing about your innovations and interoperability experiences.

In addition to our 2016 theme, the SIW is focused on three core tracks:

##### **1. Acquisition Lifecycle and Technology Transfer**

- Information that provides guidance on the selection and use of M&S standards and practices to support the Acquisition Lifecycle.

##### **2. Services, Processes, Tools, and Data**

- Technologies, frameworks, and methodologies that provide service or support for modeling and

simulation.

### 3. M&S Specialty Applications

- Simulation technologies applied for a specific purpose such as augmented reality, medical, cyber security, space, human behavior, system/vehicle or weapon product development, IoT, LVC interoperability, and command and control systems.

One of the major components of the SIW event is SISO University. Through tutorials offered at SIW, subject matter experts in their field provide relevant and fresh training to keep our community sharp in the arena of M&S as it relates to interoperability, reuse and systems engineering.

#### **Key Dates:**

8 Apr 2016	Abstracts Due Electronically
2 May 2016	Abstract Acceptance Notification
1 July 2016	Papers Due Electronically
22 July 2016	Paper Acceptance Notification
5 Aug 2016	Final Paper Revisions Due
5 Aug 2016	Initial PowerPoint Presentations Due
26 Aug 2016	Final PowerPoint Presentations Due
11 - 16 Sept 2016	2016 Simulation Innovation Workshop – Orlando, Florida

The 2016 SIW provides an excellent opportunity for M&S professionals, entrepreneurs and visionaries to connect and collaborate on new innovations and in the development of standardization products that capture and formalize best practices, lessons learned, and professional experiences. Our common goal is to advance the use of models, simulations, and associated data to better support the needs of communities such as acquisition, analysis, cyber, experimentation, intelligence, medical, planning, test and evaluation, training, and virtual games.

#### **Conference Tracks:**

##### **Acquisition Lifecycle and Technology Transfer Track**

The Acquisition Lifecycle and Technology Transfer (ACQ) Track focuses on the promotion and use of M&S standards and practices that support the acquisition lifecycle. We solicit papers that address the identification, application, and value-added benefits of M&S for analysis, research and development, test and evaluation, training, asset management, and system lifecycle strategies. Papers that demonstrate specific applications to specific systems and the benefits of M&S to those systems are preferred.

##### **Services, Processes, Tools, and Data Track**

The Services, Processes, Tools, and Data (SVCS) Track encompasses technologies, frameworks, and methodologies to provide services that support models, simulations, and associated data. The track is interested in both processes and their

implementations/tools in areas of: distributed simulation process; verification, validation, and accreditation; communication infrastructure; and simulation and environment reuse. The SVCS track focuses on evolving a systems engineering solution to simulation problems across the spectrum from design, through implementation and deployment, to validation, use, and reuse.

### **M&S Specialty Applications Track**

The M&S Specialty Applications (SPEC) track is concerned with using simulation technologies for a specific purpose such as: LVC interoperability; augmented reality; Internet of Things (IoT) integration, system, vehicle, or weapon product development; space travel; understanding and prediction of human behavior; and design of interoperable command and control systems. Present thrust areas center on the application of M&S for Cyber Warfare, Medical, Space, IoT, and Future Training, but the forum is not limited to these topics. We solicit papers that address the use of Modeling and Simulation in these or other specific applications.

### **Submission Instructions:**

We invite you to submit an abstract that aligns with any of the three core tracks, and are especially interested in papers centered on this year's theme. Please submit your abstract, paper and presentation to the SISO web site at [www.sisostds.org](http://www.sisostds.org).

September 11-16, 2016  
The Florida Hotel and Conference Center  
Orlando, Florida  
[www.sisostds.org/2016SIW](http://www.sisostds.org/2016SIW)

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## **ITSA NEWS**



**ITEC 2016 – May 17-19, London, UK**  
[www.itec.co.uk/Content/Welcome](http://www.itec.co.uk/Content/Welcome)

ITEC is an annual forum for representatives from the military, industry and academia to connect and share

knowledge with the international training, education and simulation sectors. Presenting a unique overview of the industry's latest innovations, the event provides visitors with a platform to discuss developments in this evolving market and exchange ideas about future requirements for military training and simulation.

Established for over 20 years, ITEC offers a world-class exhibition (free to attend) and conference showcasing the very latest products and services from leading organisations, as well as unique networking opportunities.

ITEC 2016 is set to welcome over 2,300 visitors from the international military training, education and simulation community to London for the first time since 2012.

This year's overarching theme is "**An Enterprise Approach; Beyond Training.**" The conference will examine four key themes covering all major areas of the military training and simulation field.

For complete details on the conference program, exhibits and registration, please visit:

<http://www.itec.co.uk/Content/Welcome>

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## **Australasian Simulation Congress – 30 March Submission Deadline**

**Simulation**  
Australasia

### **SimHealth, SimTecT and ISAGA Submissions – CLOSING 30 March**

Simulation Australasia, the national body for those working in simulation in Australasia, will once again bring together the SimHealth and SimTecT conferences under the name of the Australasian Simulation Congress (ASC), with opportunities for a number of joint sessions of mutual interest. In 2016, the ASC will also incorporate the International Simulation and Gaming Association (ISAGA).

Online submissions for the 2016 Australasian Simulation Congress will close on Wednesday, 30 March 2016:

[www.simulationcongress.com/program/submit-into-program](http://www.simulationcongress.com/program/submit-into-program)

The Committee welcomes contributions from simulation communities across industry, both local and international.

Please visit [www.simulationcongress.com](http://www.simulationcongress.com) for further information and to SUBMIT.

#### Key Dates

Submission Deadline  
Wednesday 30 March 2016

Author Notification/Reviewer Feedback  
Late April 2016

Author Confirmation of Acceptance Deadline Monday 15 May  
2016

Final/Camera-ready Version of Accepted Submissions Tuesday 31  
May 2016 (SimHealth, SimTecT) Wednesday 15 June 2016  
(ISAGA)

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### **MIMOS Award for Master and PhD Thesis on Simulation**

One of the main objectives of MIMOS is to fill the gap between students and job opportunities by means of dissemination of excellence generated within universities. On this perspective, MIMOS is launching the 7th edition of the Master and PhD Thesis on Simulation and Virtual Reality Award for Italian students degreed within 1st April 2014 and 31st October 2016.

The deadline for submission is the 31st December 2016 by sending the application from to [premio@mimos.it](mailto:premio@mimos.it) in accordance to the rules published on [www.mimos.it/nuovo](http://www.mimos.it/nuovo).

### **Italian Company Survey**

MIMOS is distributing a survey to the Italian companies involved in simulation and virtual reality fields in order to improve the services to the MIMOS members. In the case your company is interested and have not yet received the survey, please, send a request to [roma@mimos.it](mailto:roma@mimos.it). In the near future a similar survey will be issued for universities, research centres, institutional agencies, etc.

### **MIMOS 2016 Postponed**

Due to some circumstances, including the lack of sponsorships, the workshop MIMOS 2016, foreseen on 7-8 April, has been postponed to next October. MIMOS will inform on the new schedule.

### **Membership Campaign 2016**

In these last years, MIMOS take care of the growing of the simulation in Italy by means of organising events, thesis award, and gaining an international visibility. To keep growing, we kindly request to become MIMOS member also for 2016, take advantage from the relevant benefits, including the registration fee discount to MIMOS supported events.

Within this campaign, we welcome the new Affiliated Member:  
*GISA – AeroSpace Engineering Group of the Italian Air Force*

### **Upcoming Events**

For details, please visit [www.mimos.it/nuovo](http://www.mimos.it/nuovo).

#### **MIMOS a Health-IT**

MIMOS, participates with the President Paolo Proietti and his Deputy Lucio De Paolis to the “Health-IT 2016 - Technological Innovation in Healthcare” on 22 March in Milano, presenting simulation and virtual reality applications for training in healthcare.

The registration to the following Conferences are open, with fee discount opportunities for MIMOS Members:

ITEC, 17-19 May, London UK

Comets 2016 IEEE WETICE 2016 5th IEEE Track on Collaborative Modeling and Simulation, 13-16 June 2016 - Paris (France)

MESAS Modelling and Simulation for Autonomous Systems, 15-16 June 2016, Rome

SalentoAVR, 15-18 June 2016, Otranto (LE)

SIMULTECH, 29-31 July 2016, Lisboa, Portugal

EUROSIM 2016, The 9th Eurosim Congress on Modelling and Simulation, 12 - 16 September 2016, Oulu Finland

I3M, The 13th International Multidisciplinary Modeling & Simulation Multiconference, 26-28 September 2016, Cyprus

**Moreover, we suggest:**

NextMed/MMVR22 – the 22nd Medicine Meets Virtual Reality Conference, Los Angeles, California, 7-9 April 2016

NATO Research Workshop on Advanced Medical Training Technology, Bucharest (Romania) 11-13 April 2016

2° Workshop on 3D Modeling & BIM 2016, Facoltà di Architettura - Sede di Valle Giulia Sapienza Università of Rome, 21-22 April 2016

IMMERSIVE ITALY, University of Padua, 21-23 June 2016

For more information on MIMOS and upcoming events, please visit [www.mimos.it/nuovo](http://www.mimos.it/nuovo).

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## NTSA Member News

### **CACI Continuing Support for USAF Information Operations Training**

(Reprinted with permission of MS&T magazine)

CACI International Inc. has been awarded a \$25 million contract to continue its support for the US Air Force Air, Space and Cyberspace Constructive Environment – Information Operations Suite (ACE-IOS) for the 90th Information Operations Squadron of the 24th Air Force and Air Force Cyber Command. The three-year contract represents ongoing work in CACI's Command and Control market area.

Under the terms of this contract, CACI will continue to provide full-system lifecycle and development support, including verification, validation, test and exercise functions to support Air Operations Center (AOC) Information Operations training. The system simulates kinetic and non-kinetic battlefield activities and AOC command and control systems, immersing airmen in a realistic combat environment. The system also constructs a realistic cyber environment to provide computer network attack and defense training.

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## **L-3 Link to Build 34 Predator Mission Aircrew Training Systems**

(Reprinted with permission of MS&T magazine)

L-3 Link Simulation & Training (L-3 Link) has been awarded a contract option from the US Air Force to build 34 new Predator Mission Aircrew Training System (PMATS) simulators. The contract was awarded by the US Air Force's Life Cycle Management Center at Wright-Patterson Air Force Base.

The new PMATS simulators will be used to train Predator and Reaper pilot and sensor operator crews. PMATS training devices, in addition to associated equipment and systems, will be delivered to 15 installations between the US Air Force and US Air National Guard.

Under this contract option, L-3 Link will integrate its simulation environment solution with ground control stations supplied by the US Air Force. The solution combines a physics-based image generator, Synthetic Automated Forces generator, instructor station, and other training system hardware and software. PMATS training devices create a high-fidelity environment that simulates aircraft performance, weapons, sensors, communications, data link operations, emergencies, degraded video feeds and environmental conditions. On these simulators, Predator and Reaper crews undergo initial qualification, mission qualification, continuation and mission rehearsal training.

The L-3 Link-developed and -produced PMATS training solution has supported training for the US Air Force and US Air National Guard since the initial devices were delivered in 2007. L-3 Link, under previously awarded contracts, has fielded or is continuing to build 33 PMATS devices. This new award for 34 additional PMATS simulators will result in L-3 fielding a combined total of 67 Predator and Reaper trainers to support the services' crew training objectives.

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## **Boeing to Provide C-17 Training to NATO**

(Reprinted with permission of MS&T magazine)

The Strategic Airlift Capability (SAC) program will soon train C-17 aircrews at Boeing's C-17 International Training Centre (ITC) in the United Kingdom under a new \$8 million contract.

SAC is comprised of ten NATO countries and two NATO Partnership for Peace countries. The program will begin training its multinational aircrews early this year. Prior to this contract, the SAC program sent aircrews to the United States for training.

As part of the contract, the US Air Force inspected and recognized Boeing's C-17 training simulators at the ITC as being fully able to train C-17 aircrews. The ITC houses a weapons systems trainer, loadmaster station and an integrated maintenance procedure trainer.

On behalf of the SAC program, the NATO Airlift Management (NAM) Programme Office requested this capability to meet the requirements of nations who make up this multinational program. In addition, the NAM Programme Office has ownership and is responsible for acquiring, managing and supporting NATO's Strategic Airlift Capability aircraft, including three Boeing C-17 Globemaster III airlifters, that member nations can call upon to fulfill national operational needs.

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## **£1.1 Billion Investment by MOD for Future Military Flying Training**

(Reprinted with permission of MS&T magazine)

More than a billion pounds is to be invested by the Ministry of Defence to continue the modernisation of military flying training in the UK.

The new Fixed Wing flying training system will provide modern training aircraft as well as up-to-date ground based training devices such as simulators and classroom learning for aircrew across the Royal Air Force, Royal Navy Fleet Air Arm and Army Air Corps.

A £1.1 billion contract has been placed with Ascent Flight Training to design, deliver and manage the Fixed Wing training service until 2033 and is expected to provide roughly 200 jobs across the UK, particularly at the key training bases.

The contract, which will cover provision of Elementary Flying Training, Basic Flying Training and Multi-Engine Pilot Training, will deliver through a single prime contractor, ensuring coherent delivery of the training system.

Air Vice-Marshal Sue Gray, Director of Combat Air at the MOD's Defence Equipment & Support said: "This contract will replace legacy fleets of aircraft with new, modern platforms that better replicate the aircraft used by front line operational squadrons. Up-to-date training methods will also be developed to ensure that students are able to progress to operational training more efficiently and provide value for money."

Multi-engine pilot training will be in place from mid-2018 and Basic Flying Training element up and running by early 2019. Ascent, selected as the MOD's flying training partner in 2008, will be required to deliver the instruction, infrastructure and support required to provide flying training across the three Armed Services until 2033.

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## **TerraSim Releases TerraTools 5.1**

(Reprinted with permission of MS&T magazine)

TerraSim has released TerraTools 5.1, the latest version of its terrain database generation software. TerraTools includes over 300 new features, improvements, and bug fixes.

TerraTools 5.1 features a variety of improvements and optimizations for VBS3 and VBS IG terrain generation including enhanced multimap support, built-in automated terrain packing, and support for the latest runtime versions. Users can also now define starting positions and create map labels within the 2D map view.

The new version includes enhancements to P3D model import, including better material support and automatic integration of existing proxy models. Performance and workflow improvements that were developed during integration of VBS IG into the US Army's CCTT program are now available to TerraTools users and will provide better frame rates on larger terrains in both VBS3 and VBS IG. Users can now automatically prepare P3D models for improved thermal imaging appearance within the runtime.

TerraTools 5.1 also includes new automated trench placement technology that uses trench centerline data to rapidly and automatically place 3D trench models. A collection of trench component models representing both manmade and earthen trench types have been added to the TerraTools model library for placement.

Additional updates to TerraTools 5.1 include new building footprint matching technology to simplify and optimize large urban environments; improved support for large image import and display; addition of attributes and batch commands for new and existing nodes to improve overall functionality; and improved exporter support for CTDB, OneSAF, OpenSceneGraph, MASA SWORD, and Steel Beasts Pro.

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## **Meggitt Gets \$7.2 M Second Delivery Order for USMC ISMT Contract**

(Reprinted with permission of MS&T magazine)

Meggitt Training Systems has received a \$7.19 million second delivery order to accompany the overall \$32.7 million contract from the US Marine Corps Systems Command (MARCORSYSCOM) Program Manager for Training Systems (PM TRASYS) to develop and deliver the Indoor Simulated Marksmanship Trainers (ISMT) system for the US Marine Corps.

The ISMT system provides realistic, virtual small arms training for marksmanship, collective and judgmental scenarios. Collective is used with teams in a combined environment, judgmental hones a trainee's response within their rules of engagement and marksmanship develops the fundamentals of proper weapon training, according to Larry Raines, vice president virtual systems, Meggitt Training Systems. Raines said, "Utilizing simulation in these three training arenas minimizes range time and ammunition costs; allows for immediate, corrective action in a controlled

setting; and provides realistic training with real duty weapons, regardless of weather, time of day or environmental conditions. This second delivery order, coupled with the initial ISMT contract, will result in better trained warfighters.”

The latest award includes virtual simulation systems and Meggitt’s patented BlueFire® wireless weapons. The systems included in the order will be delivered to domestic and international sites and aboard naval vessels.

The ISMT program provides a five-year Indefinite Delivery/Indefinite Quantity (IDIQ) contract that includes system and weapon simulator development, as well as the installation and support of more than 670 systems at US Marine Corps facilities both domestically and worldwide. The ISMT systems meet the US Marine Corps current training requirements, but have been designed to incorporate Meggitt’s flexible system architecture to ensure the systems can meet future growth and evolving training conditions.

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## **MASA Unveils New and Enhanced SWORD**

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MASA has released the latest version of its automated wargame, SWORD, which is used in more than 15 countries for training, analysis and decision support. SWORD provides training and analysis solutions for a range of military operations and emergency management scenarios.

SWORD 6.4 features include new communication models that simulate radio equipment, and it retains its other features, such as its easy-to-use interface and state-of-the-art automation capabilities. This software’s latest edition has a new communication model applicable in a variety of highly realistic scenarios and offers the ability to analyze the outcomes of specific actions that the company says “provides a more diverse, adaptable tool that teaches methodologies that can be applied directly in the field.”

SWORD 6.4’s upgrades were designed to enhance the training’s efficiency and its fidelity to real situations, such as its new dynamic communication model that simulates radio equipment. This model allows users to specify radio maximum ranges, and just like the real equipment, the performance of the communication system will be affected by the weather, terrain and urban areas as well as electronic countermeasures.

Another new feature is the enhanced treatment of environmental aspects within SWORD 6.4, which result in the technology directly simulating the effect of lighting or weather conditions such as fog or heavy rain on a vehicle’s speed and other performance metrics, providing a more realistic training experience. Extreme weather conditions could also be simulated in disaster relief exercises, such as continued heavy rain during a flood rescue, or snowfall in

an earthquake rescue.

For a greater level of fidelity, SWORD 6.4 lets users modify the effect of terrain on the impact of indirect fire: for instance, wet, muddy ground would absorb more impact from mortar fire than solid tarmac, limiting the effectiveness of weapon-fire.

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## **Reiser Simulation and Training Selects Moog for Helicopter Full Flight Simulator Level D**

Moog Industrial Group, a part of Moog Inc., has been selected by Reiser to provide an Electric Motion Base, vibration platform, control loading system and software to train Airbus Helicopters H145 pilots on a Helicopter FFS-D (Full Flight Simulator – Level D). Reiser was awarded a contract from ADAC HEMS Academy GmbH for H145 Helicopter Full Flight Simulator training to support H145 pilots with training for future missions.

For more information on the ADAC HEMS Academy, please go [here](#).

The Moog Vibration Platform provides realistic levels of vibration in vertical, lateral and longitudinal directions to reproduce the specific feel of the H145 helicopter and offer more realistic cueing and motion profiles. The controls of the vibration platform level D, control loading system and seat are designed to support the correct spectrum, amplitude and trend of vibration through the desired operating envelope. The second generation of Moog's Electric Motion system will run with dedicated next-generation software and a newly launched Automated Test Module to facilitate QTGs (Quality Test Guide) requirements in the future.

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## **CAE to Support US Mobility Air Force Distributed Mission Operations**

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CAE USA has won contracts under the United States Air Force's KC-135 Aircrew Training System (ATS) program to upgrade a range of KC-135 aircrew training devices so they can be used on the USAF Distributed Training Center Network (DTCN).

CAE will also be responsible for ensuring the training center facilities housing KC-135 aircrew training devices meet the required physical security and cybersecurity requirements established by the US Department of Defense to network the training devices to the classified DTCN.

CAE will perform a range of upgrades and updates to KC-135 operational flight trainers (OFTs) and KC-135 boom operator weapon systems trainers (BOWST) so they can be used for MAF DMO training. With the ability to connect the various KC-135 training devices to the Distributed Training Center Network, the

USAF will have increased capability for virtual air refuelling and air refuelling formation training over a secure network. CAE will update KC-135 aircrew training devices at Scott Air Force Base (AFB), March Air Reserve Base (ARB), Fairchild AFB, MacDill AFB, Seymour Johnson AFB and Grissom ARB. The company will also implement a comprehensive cybersecurity policy across the KC-135 Aircrew Training System following the Department of Defense 8500.01 Cybersecurity protocol to ensure the training center facilities, training equipment and related networks are secure and capable of supporting the KC-135 Aircrew Training System.

"Our objective for the Mobility Air Force Distributed Mission Operations initiative is to enhance our live, virtual and constructive training so that we can train in a secure and networked environment across our mobility platforms and the broader U.S. Air Force, as well as joint and coalition training exercises," said Clifford Sanchez, KC-135 Aircrew Training System Manager, Air Mobility Command, United States Air Force. "We are systematically increasing our virtual training capabilities and the addition of the KC-135 pilot and boom operator flight simulators are a critical piece of our overall MAF DMO and virtual air refueling effort."

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### **Cubic Wins \$33.7M US Army Europe Contract Award**

(Reprinted with permission of MS&T magazine)

Cubic Global Defense (CGD) has been awarded a five-year, \$33.7 million contract to support the US Army Europe (USAREUR) Joint Multinational Simulation Center (JMSC), headquartered in Grafenwoehr, Germany, and the USAREUR Joint Multinational Readiness Center (JMRC) in Hohenfels, Germany.

Continuing the current five-year contract, Cubic will maintain its role in assisting the JMSC with the execution of Mission Rehearsal Exercises (MRE) and training events; constructive simulation training for joint, combined, NATO and partner-nation units and leaders; and combatant Commanders' engagement strategies.

The JMSC, the US Army's largest overseas training command, provides and facilitates mission command training through the integration of Live, Virtual, Constructive and Gaming (LVC-G) environments. Cubic will continue to integrate the mission command systems and LVC-G simulations in addition to providing stable simulation network backbones, exercise infrastructure and configuration management in support of JMSC missions.

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### **CAE Adds to Management Team in Asia/Pacific Region**

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CAE has announced the appointment of Andrew Rankin as vice

president of Strategy and Business Development for the Asia/Pacific region within the company's Defence & Security business unit.

In addition, CAE announced the formation of an advisory board for the Asia/Pacific region to help guide the company's strategy and initiatives within the defence market segment. Former Chief of the Royal Australian Air Force, retired Air Marshal Geoff Brown, was named Chairman of CAE's Defence & Security advisory board for Asia/Pacific.

Andrew comes to CAE with over 30 years of experience in the defence and aerospace training industry. Most recently, he was General Manager of Strategy and Business Development for Aviation Australia. Prior to Aviation Australia, Andrew held a variety of positions at CAE Australia Pty Ltd, including program management, engineering, training services and business development. Andrew started his career in the Royal Australian Air Force where he spent 13 years as an avionics technician specialising in simulation. He will officially rejoin CAE on March 7, 2016.

Air Marshal Geoff Brown retired from the Royal Australian Air Force in July 2015 after a distinguished 35-year career. For the last four years in the RAAF, he was Chief of Air Force with overall responsibility for the aerospace capabilities and future positioning of the RAAF. He will now provide consulting services for CAE and lead the company's Asia/Pacific advisory board for the defence market.

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## **IMMY Inc. announces optical design patent for its Natural Eye Optics (NEO) technology**

IMMY Inc., a leading developer of glasses for virtual reality and augmented reality, has announced a revolutionary optical design patent for its Natural Eye Optics(tm) (NEO) technology. This advance marks an important step forward for military training technology.

The IMMY optical system is a direct retinal projection optic unlike any other glasses on the market. In the IMMY, the light rays travel only through air, never entering another medium - an innovation that helps alleviate eyestrain. In other glasses, the light rays travel through refractive lenses, diffractive elements, waveguides, or holographic elements. All of these components introduce distortions and aberrations that induce severe eyestrain and headaches.

"IMMY Inc.'s groundbreaking lens-less system is considered the Holy Grail of optics for the VR/AR world and was thought to be impossible to accomplish," notes IMMY Inc. founder and CEO Doug Magyari. IMMY Inc. took ten years to perfect the breakthrough optic, which enables a large Field of View - up to 135 degrees - and can be produced in a compact, lightweight package.

Please visit [www.immyinc.com](http://www.immyinc.com) for more information.

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### **Cubic Wins Additional I-MILES IWS Contract Orders**

(Reprinted with permission of MS&T magazine)

Cubic Global Defense (CGD) has won \$44 million worth of contracts for its Instrumentable-Multiple Integrated Laser Engagement System Individual Weapon Systems (I-MILES IWS) from the US Army's Program Executive Office for Simulation, Training and Instrumentation (PEO STRI). I-MILES IWS is used for home-station training as it offers heightened realism during exercise scenarios.

I-MILES IWS uses laser transmitters attached to military weapons and body sensors to detect hits and perform real-time casualty assessments to replicate combat and record data for later review. The system features small, lightweight components for individual soldiers and takes less time to attach the Small Arms Transmitters and align to the weapon than previous versions. It also maintains alignment during an entire exercise.

Cubic's I-MILES IWS advanced technology is flexible, upgradeable and interoperable and is delivered with the option to add range instrumentation solutions to support recording and playback of exercise results and maneuvers.

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### **CAE to Develop Wildfire Training and Simulation Centre in British Columbia**

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CAE has signed a Memorandum of Understanding (MOU) with Conair to develop a Wildfire Training and Simulation Centre in British Columbia.

Under terms of the MOU, CAE intends to establish a new Wildfire Training and Simulation Centre that will feature a CAE-built Avro RJ85 full flight simulator qualified to Level D. Conair will procure long-term pilot training services from CAE to train their pilots who provide aerial fire suppression services using Conair's RJ85 Airtanker aircraft.

In addition to the training program for RJ85 aerial firefighting pilots, CAE expects the Wildfire Training and Simulation Centre to be part of a distributed simulation network that connects wildfire training and coordination centres throughout Canada for purposes of conducting simulation-based mission rehearsal for wildfire response.

Over the next several months, CAE and Conair expect to identify training centre facility requirements and location, begin procurement of the RJ85 full flight simulator, and engage other potential clients in Canada and internationally.

## Million Women Mentors Launched in Virginia

### Governor Terry McAuliffe Celebrates International Women's Day with Launch of Million Women Mentors – Virginia

In celebration of International Women's Day on March 8, [Governor Terry McAuliffe](#) launched the [Million Women Mentors](#) initiative in Virginia (MWM-VA) at Richmond's historic Patrick Henry Building. Governor McAuliffe proudly serves as the Honorary Chair for MWM-VA, an initiative whose mission is to support girls and women in STEM by providing one million STEM mentors, alongside MWM-VA Co-Chairs Dr. Carole Inge, founder of the [International Association for STEM Leaders](#), and Jennifer Bisceglie, CEO of [Interos](#). Governor McAuliffe presented a proclamation supporting girls and women in STEM during the launch event.

Governor McAuliffe said, "As we work to build a new Virginia economy, it is important that we encourage innovation in business, attract new STEM industries to our state, and ensure that girls and women are part of the talent pipeline to opportunities in STEM careers by providing them with a world-class education. That is why I am happy to support Million Women Mentors, an initiative dedicated to girls and women succeeding in STEM."

The program featured several state and STEM leaders speaking on the importance of women and STEM in areas such as innovation, education, cyber security, and entrepreneurship. Virginia Secretary of Commerce and Trade Maurice A. Jones joined the launch event to speak on the importance of STEM to promoting entrepreneurship in the Commonwealth of Virginia.

"It is critical in today's 21st century economy to encourage all citizens, especially girls and young women, to realize their full potential in STEM. The STEM workforce of tomorrow and future entrepreneurs of the Commonwealth will lead our state in developing an economy that thrives, and initiatives like Million Women Mentors help to do just that," said Virginia Secretary of Commerce and Trade [Maurice A. Jones](#).

Governor McAuliffe and Secretary Jones shared the stage with other incredible individuals, such as [Michelle Lee](#), Under Secretary of Commerce for Intellectual Property and Director of the U.S. Patent and Trademark Office; Jane Oates of Apollo Education; Michelle Kang, CEO of Cognosante, and many others.

To learn more on how you can participate in Virginia or other state efforts with Million Women Mentors, please register at the website [www.MillionWomenMentors.org](http://www.MillionWomenMentors.org). Launched on January 8th, 2014, MWM is the collective action of over 60 national partners and 30 corporate sponsors (as of March 2016) designed to increase the number of girls and women within the high school to work age continuum that persist and succeed in STEM programs and careers. For more information on MWM, please visit [www.MillionWomenMentors.org](http://www.MillionWomenMentors.org).

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## **National Science Teachers Association (NSTA) National Conference – March 31-April 3, Nashville, TN**

### **Conference Highlights Include Next Generation Science Standards, Effective STEM Education Practices, and a Pre-Conference Event by Bill Nye**

Science teachers from across the country will convene in Nashville for the [National Science Teachers Association's](#) (NSTA) National Conference on Science Education, to be held March 31–April 3, at Nashville's Music City Center and local hotels. The event will bring together thousands of science educators, as well as school and district administrators, scientists, business leaders and many others to explore the latest in science content and teaching strategies, address important issues in science education, and hear from renowned scientists and educators.

“This is an exciting time in science education,” said Carolyn Hayes, NSTA President. “At this conference we will be talking about the tremendous momentum of the new science education standards and the changes in classroom instruction. Events like the NSTA conference give teachers a chance to learn, share, and connect with colleagues; hone their skills in so many areas of science teaching; and hear from science rock stars like Grand Hank and Bill Nye. Teachers also will be looking for insights in the newly re-authorized No Child Left Behind Act and how the new federal education law will affect their classrooms.”

The four-day event features over a thousand hands-on workshops; presentations about the latest breakthroughs in science education; and demonstrations covering every discipline, grade level and teaching focus. It will also give school districts a chance to attend the conference in teams as part of its Teaming Up for STEM program, funded in part by Chevron.

Bill Nye will deliver the Planetary Society Lecture on Wednesday, March 30, as the pre-conference kick-off. Keynote speaker Grand Hank, a former chemist who has reached over 10 million students and parents with his unique event-based instruction will open the conference with his unique style. Other featured speakers include Sean B. Carroll, a Howard Hughes Medical Institute biologist and author; Stanley Prusiner, Director of Neurodegenerative Diseases at the University of California San Francisco and Nobel Prize winner; Christine Cunningham from Boston's Museum of Science; and Peter McLaren, from Achieve. [Click here](#) for a full list of featured speakers.

At the conference, teachers also will immerse themselves in learning about the Next Generation Science Standards (NGSS), now officially adopted by 17 states and the District of Columbia, and also becoming part of the instruction in thousands of classrooms nationwide. There are a number of NGSS special events at the conference, including Professional Learning Institutes, an NGSS@NSTA Forum, an NGSS Share-a-thon, and a

host of presentations on three-dimensional learning. NSTA will showcase the first in a series of infographics on the NGSS, Why It's Time for New Science Education Standards, that calls attention to the economic impact of K–12 science and STEM education and the need for new science standards.

When not attending back-to-back sessions, attendees will flood NSTA's popular Exhibit Hall to learn about the latest science education materials, laboratory equipment and computer hardware and software available from more than 400 companies and organizations.

The NSTA National Conference on Science Education will begin with a pre-conference event on Wednesday, March 30, at 6 pm; concurrent sessions will begin on Thursday, March 31 at 8 a.m. and will conclude on Sunday, April 3. Educators can find more information and register for the conference [here](#).

### **About NSTA**

The Arlington, VA-based National Science Teachers Association (NSTA) is the largest professional organization in the world promoting excellence and innovation in science teaching and learning for all. NSTA's current membership includes approximately 55,000 science teachers, science supervisors, administrators, scientists, business and industry representatives, and others involved in science education.

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## **IBM Expands Data Science Education around the World**

### **Brings the Power of Self-Service Analytics to the Next Generation of Business Leaders with Watson Analytics Academic Program and New Student Version**

IBM is expanding its academic initiative with a [new program](#) that infuses its natural-language-based [Watson Analytics](#) technology into the classroom to help professors teach students how to turn data into insights without needing in-depth knowledge of data science. IBM is also introducing a new student version of Watson Analytics that will put the power of cognitive computing into the hands of the next generation of business leaders as they prepare to enter the workforce.

The skills gap in analytics is well known – not just in IT, but also across a wide range of job roles and functions. Recent research [cited in Datanami](#) indicates that the current demand for data scientists exceed the current supply by factor of three\*. To help meet the need, line of business managers are learning to launch complex analytics programs on their own; as [Gartner predicts](#) that the number of citizen data scientists will grow five times faster than the number of highly skilled data scientists through 2017\*\*.

IBM is helping to prepare the citizen data scientist of tomorrow with a new Watson Analytics Academic Program that can be used to help educate more than 140,000 students in qualified leading universities globally including Northwestern University, the College

of William and Mary, Deakin University in Australia and many more. The new program provides qualified universities with an enablement kit that includes sample data sets; an online course; student workbooks; video tutorials and pre-packaged syllabi to help professors update their lesson plans. The program also includes a one-year license of Watson Analytics Professional Edition for up to 100 users at no cost.

With these tools, nearly 400 universities are already using Watson Analytics to augment data analysis courses and, in some cases, create completely new analytics programs.

"Data analysis will be a critical part of every job in the twenty-first century - so we see Watson Analytics, which turns everyone into a data scientist, as the future of analytics," said Dr. Martin Block, Northwestern University. "Pulling from syllabus guides provided through the Watson Analytics Academic Program, we were able to integrate new lesson plans into our course work in less than a week; which has helped us prepare our students to tackle any analytical problem on their own once they enter the workforce."

"With the shortage of data scientists, the rapid increase of citizen analysts and the growth in data, we need a paradigm shift away from Q&A-driven analysis and more towards unbiased inquiry to allow data scientists to spend less time searching and more time tuning; and citizen analysts to find patterns in data without deep statistical skills," said Marc Altshuler, Vice President, Watson Analytics and Business Intelligence, IBM Analytics. "The new Watson Analytics Academic Program is enabling this by training the citizen analyst of tomorrow with skills to help them unlock the value of data for businesses around the globe."

Furthering its mission to increase data science education, IBM is launching a new student edition of Watson Analytics that extends cognitive computing further into the classroom to help students learn how to prepare, refine and build predictions from data with smart data discovery. The new student version expands on capabilities available in the freemium version of Watson Analytics to offer students at qualified universities access to Twitter data as well data from external data sources including [DashDB](#), [IBM Netezza](#) and more at no cost.

Universities can apply for the Watson Analytics Academic Program through <http://ibm.co/1emFp3G>.

IBM has been a decades-long leader in open source innovation and data science education. In June, IBM committed to educating more than 1 million data scientists and data engineers on Spark through extensive partnerships with [DataCamp](#), [MetiStream](#), [Galvanize](#) and [Big Data University](#) MOOC.

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