



# Workforce Initiative



STEM supports and promotes activities encouraging students' interest and pursuit in Science, Technology, Engineering and Mathematics.

## STEM Today = Prepared Workforce for Tomorrow

In support of STEM and Workforce Development, I/ITSEC sponsors the following programs:

- Future Leaders Pavilion
- Students at I/ITSEC
- Post Graduate Scholarships (Masters and Doctorate)
- Serious Games Showcase & Challenge
- I/ITSEC Professional Development Workshops
- Central Florida Educators Workshop
- Continuing Education Units
- America's Teachers at I/ITSEC
- Golf and 5K Fundraiser

Visit the STEM Pavilion at  
Booths 2473-2781



**STOP!  
SEE THE FUTURE**

## **Future Leaders Pavilion**

**Booth  
2681**



**Tuesday, 28 November**

1200 – 1730

**Wednesday, 29 November**

0930 – 1730

**PRESENTATION SESSION**

1600 – 1730 • S320D

**Thursday, 30 November**

0930 – 1500

**AWARDS CEREMONY**

1345 • Booth 2389

**Innovation Showcase**

## *Learning and Leadership are indispensable to each other.*

The National Training and Simulation Association and the members of I/ITSEC take great pleasure in welcoming you to the Ninth Annual Future Leaders Pavilion and Special Session.

We are delighted to host secondary students from such diverse areas as:

- Albany, NY
- Dayton, OH
- Hampton, VA
- Orlando, FL
- Philadelphia, PA
- Sanford, FL

The students who participate in the Future Leaders Pavilion (FLP) are committed to excellence and are enrolled in engineering, computer sciences, mathematics, or modeling and simulation tracks. Projects presented this year will continue the legacy of excellence built by previous Future Leaders.

Please remember to stop by FLP, located in Booth 2681, during your visits to the exhibit floor.

On Thursday at 1030, please lend support to our Future Leaders as they present their projects during their Special Session – “The Future is Now!”

Join us again at 1345 at the Innovation Showcase, Booth 2389 for an award ceremony acknowledging the work of our Future Leaders.



### **Students at I/ITSEC**

**Thursday, 30 November • 0900 – 1400**

Over the years, thousands of Central Florida high school students have participated in a unique learning experience by visiting the Exhibitors/Exhibits. The purpose of the I/ITSEC Student Tours is to allow students to experience first-hand, real-world Training, Simulation, and Education solutions that will help bridge the gap between classroom theory and the applied use of Science, Technology, Engineering, and Mathematics (STEM) subjects. Annually, over 600 students, along with 200 school chaperones and volunteer I/ITSEC member escorts, are exposed to special demonstrations and static displays of the Simulation, Training, and Education Industry. Students are able to learn about the basic building blocks required to deliver high fidelity modeling and simulation products across a broad range of training environments. Participating in the I/ITSEC Student Tours on Thursday, 30 November, 2017, will give students a complete understanding of how they can apply the STEM related skills they learn in the classroom to highly successful careers in our Industry. For the first time in 2016, through a



partnership of NTSA, the Florida High Tech Corridor Council and other “STEM-U-Lators,” we are making it possible to bring I/ITSEC to the classroom through the STEMConnect program. To learn more about the I/ITSEC Conference and Student Tours, please contact Bill “Roto” Reuter, I/ITSEC Student Tours Coordinator at [roto@r-squaredsolutions.net](mailto:roto@r-squaredsolutions.net).



## America's Teachers @ I/ITSEC

I/ITSEC has a long history of supporting the education of students and teachers through visits to the conference. Since the America's Teachers at I/ITSEC program began in 2008, we have hosted teachers from Arizona, California, Florida, Georgia, Maryland, Montana, New York, Ohio, Rhode Island, Tennessee, Texas, and Virginia. As part of I/ITSEC's efforts to further education in Science, Technology, Engineering, and Mathematics (STEM), teachers and administrators from across the country have been invited to attend the conference. The America's Teachers at I/ITSEC Program consists of an orientation session, attendance at the Modeling and Simulation techPATH, guided

tours of the Exhibit Hall, and attendance at tutorials, paper sessions, and special events. The Teachers will be in sessions and visiting the Exhibit Floor on Monday through Wednesday. Please watch for their Red, White and Blue Ribbons and be ready to engage in conversations about STEM and Future Workforce initiatives. This program is supported by the National Training and Simulation Association and its industry members.



### Educators

Workshop to Introduce Simulation into the Physics Classroom – I/ITSEC 2017

# stemCONNECT

*A program of the Florida High Tech Corridor*

The Florida High Tech Corridor (The Corridor) is proud to partner with I/ITSEC once again to highlight the 23-county Corridor region's thriving Modeling, Simulation and Training (MS&T) sector.

The evolution of technology has enabled Corridor programs to transform in ways unimaginable more than 20 years ago, specifically stemCONNECT. This program truly does make the connection between academia and private industry by bringing together students and teachers in classrooms with experts in science, technology, engineering and math (STEM) for engaging presentations through video conferencing tools. Indeed, since the first virtual session in 2013, stemCONNECT has already introduced high tech careers in MS&T and other sectors to nearly 6,000 students and teachers.

The Corridor's stemCONNECT team is excited to host two programs during I/ITSEC – one for educators and one

for students – to showcase MS&T technology and related career opportunities. Educators will join stemCONNECT for guided tours of industry exhibits and presentations from well-known experts in the field, including representatives from the Institute for Simulation and Training at the University of Central Florida, the National Center for Simulation and the Florida Advanced Technological Education Center (FLATE) – an initiative of the University of South Florida, Hillsborough Community College and St. Petersburg College funded by the National Science Foundation. Students will learn about the role of robotics in MS&T by programming a LEGO™ robot and interacting with an NAO™ robot. stemCONNECT will also guide students on a tour of industry exhibits with robotics demonstrations.

For those who cannot attend, stemCONNECT will be live streaming a tour of the I/ITSEC convention floor.



# SERIOUS GAMES

## SHOWCASE & CHALLENGE

Great excitement awaits you in **Booth #2481** at the 12th annual Serious Games Showcase & Challenge (SGS&C)!

The SGS&C provides a showcase of best-in-class learning games submitted by business, government and student developers, and awards noteworthy games to recognize their achievements. The true uniqueness of the SGS&C is that every I/ITSEC "player" has the chance to play the games, talk with the developers, and cast a vote for the coveted SGS&C People's Choice Award.

The SGS&C brings international award winning games to you through partnerships with the Simulation Australasia host of the Australasian Simulation Congress (ASC) SGS&C, and South America's Brazilian Independent Games (BIG) Festival. These international winners automatically earn spots as finalists in the SGS&C, are eligible for awards, and are featured at I/ITSEC on the exhibit floor. Come see the diverse approaches taken by these international participants and meet their developers.

This year will once again highlight games that employ characteristics or techniques that enhance the game in a new or different way through the competition for the Innovation Award. The innovative technique can be hardware integration, instructional design, game design, content topic, or a combination thereof. Drop by the booth to see these innovative technologies in action!

The seven categories of SGS&C winners are announced at the **Awards Ceremony on Thursday, November 30 at 1300 in the Innovation Showcase, Booth 2389**: *Best Business-Developed Serious Game*; *Best Government-Developed Serious Game*; *Best Student-Developed Serious Game*; *Best Mobile Serious Game*; *Innovation Award*; *Students' Choice Award*; and finally, what some might consider the most prestigious award, the *People's Choice Award*.

And remember, the People's Choice Award is based on votes from you! Your I/ITSEC badge includes a special SGS&C ballot that allows you to help determine the winner. **Be sure to vote before the deadline on Wednesday, November 29!**

**Check out the Serious Games Showcase & Challenge.**

For more information, contact Jenn McNamara:  
[jmcnamara@breakawayltd.com](mailto:jmcnamara@breakawayltd.com)

## 7 Awards!

**Students' Choice**  
**Innovation**  
**Business**  
**Student**  
**Government**  
**Mobile**  
**People's Choice**



[sgschallenge](https://www.facebook.com/sgschallenge)



[@sgschallenge](https://twitter.com/sgschallenge)

[sgschallenge.com](http://sgschallenge.com)

**Booth #2481**



**2017 Interservice/Industry Training, Simulation & Education Conference**



# STEM Tomorrow's Workforce, Today!

STEM Pavilion: Near the Exhibit Hall Lunch Entrance  
Project Based Learning Exhibitors



PROJECT BASED LEARNING



## STEM Pavilion

Keeping the workforce pipeline filled with students pursuing STEM degrees is vital to the MS&T industry. It takes all of us to accomplish that. Each year the STEM Pavilion showcases organizations and programs that are successfully inspiring students and are preparing educators to teach and motivate them to pursue STEM degrees. We invite you to visit the Pavilion to learn more about the organizations and agencies active in the local community and across the country that you can support as a business or parent or community leader. Learn about programs available for students and how you can en-gage, mentor and help prepare them for future careers. Engage with educators who want to learn from you about the MS&T industry. Find ways to volunteer. Get involved! Your experience is needed.



Visit [www.centralfloridaSTEM.org/parents](http://www.centralfloridaSTEM.org/parents)  
for more Parent resources



Visit [www.centralfloridaSTEM.org/student](http://www.centralfloridaSTEM.org/student)  
for more Student resources

## Teacher Workshop

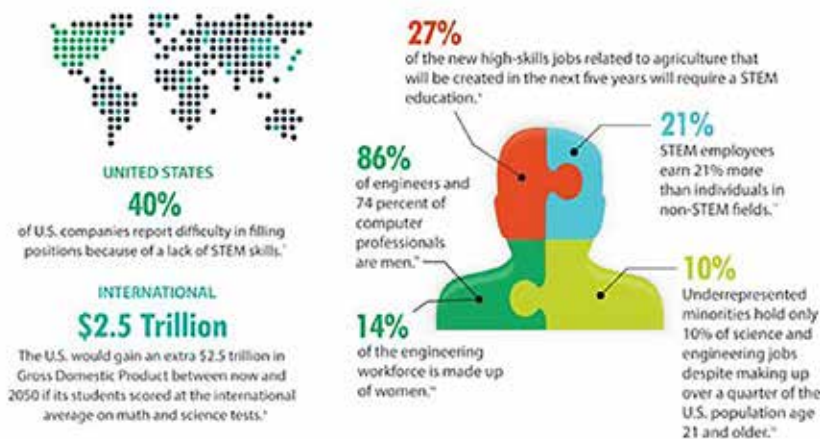
The annual I/ITSEC Teacher Workshop gives teachers a chance to be students and engages teachers in hands-on learning by letting them try new ideas for their classroom. It facilitates dialogue between Project-Based Learning (PBL) and industry professionals, while providing a set of relevant and accessible resources for teachers to use throughout the year. Teachers representing counties throughout Florida participate. This year the educators will be on the exhibit floor with tour guides visiting key local MS&T exhibitors to learn about the industry, STEM skills needed and career opportunities available. If you see one of our Teacher Tour groups on Wednesday, stop and introduce yourself!



Visit [www.centralfloridaSTEM.org/educators](http://www.centralfloridaSTEM.org/educators)  
for more Educator resources



## The State of America's Workforce



The Central Florida STEM Education Council mission is to collaboratively coordinate and plan STEM education efforts preparing and encouraging pre-college students to enter technical fields of study and to pursue employment in the Central Florida high-tech workforce.

Building a Brighter Future  
**TODAY!**

**RADM Fred Lewis, USN (Ret.)**

President, NTSA • 1995 - 2012

These scholarships have been named the **RADM Fred Lewis Postgraduate I/ITSEC Scholarship** in honor of the former President of the National Training and Simulation Association (NTSA).

**IMPORTANT DATES FOR 2018****When to Apply**

Applications must be postmarked by 19 June 2018. (Don't Delay!)

**How to Apply**

See <http://www.iitsec.org/Community/Education/Pages/Scholarships.aspx> for complete application details.

**Award Announcement**

4 August 2018

**27th Annual RADM Fred Lewis I/ITSEC Postgraduate Scholarship Recipients****Lawrence Warren**

Masters Student,  
Computer Science  
and Applications,  
Virginia Tech

**Salam Daher**

Doctoral Candidate,  
Modeling &  
Simulation,  
University of  
Central Florida

**Thomas Kehr**

Doctoral Candidate,  
Modeling &  
Simulation,  
University of  
Central Florida

**Jennifer McArdle**

Doctoral  
Candidate, War  
Studies, Kings  
College (London)

**Post Graduate Scholarships**

Looking for Future Leaders in the Simulation, Training and Education Community. Learn more about the I/ITSEC community at [www.iitsec.org](http://www.iitsec.org).

**Eligibility**

U.S. Citizens • Full-time Masters or Doctoral students  
(complete undergraduate work by Spring 2018)

See Study Disciplines at

<http://www.iitsec.org/education/studentsandteachers/Pages/Scholarships.aspx>

**Award Amounts**

\$10,000 (Doctoral Candidates) • \$5,000 (Masters Candidates)

Available for Fall 2017 • Be our guest at I/ITSEC November 26 – 30, 2018

**Direct Further Inquiries and Provide Submissions**

Lewis-I/ITSEC Scholarship Program

c/o The National Training and Simulation Association

2111 Wilson Boulevard Suite 400 • Arlington, VA 22201-3061

(703) 247-2569 or [bmcdaniel@ndia.org](mailto:bmcdaniel@ndia.org)

**Bradford Schroeder**

Doctoral Candidate  
in Psychology,  
University of  
Central Florida

NTSA is pleased to add the Leonard P. Gollobin Graduate Scholarship to the I/ITSEC collection of scholarships. This scholarship program was generously bequeathed by Mr. Gollobin to direct students developing their technical talents into the defense industry. Throughout his career, Mr. Gollobin led scientific initiatives that improved our defense systems and strategically shaped our military capabilities. NTSA administers this scholarship with the intent to provide financial support for those seeking advanced degrees and a path to leverage their commitment to strengthen our nation's security.

Over **\$400,000** in  
scholarship awards distributed to date