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Magical Plans for Healthcare Simulation and Training

For many years, Orlando has been the place for people to visit - destination Orlando for family trips, conferences, conventions and much more. And do we dare say, a place to come and experience the Magic (you know the Mouse House over on the south side of our great city).

But now, a new magic awaits Orlando. Lake Nona Medical City, a 600-acre health and life sciences cluster, is coming alive and will soon be home to hospitals, universities, research institutions and life science companies. And with partners like UCF's new College of Medicine, the Sanford-Burnham Medical Research Institute, a VA Medical Center, and Nemours Children's Hospital, comes a projection of \$5.2 billion in economic activity by the year 2017, through its committed partners alone.

"Our whole strategy is collaboration," said Thaddeus Seymour Jr., Vice President and General Manager for Health and Life Sciences for Lake Nona. "We truly believe the best innovation happens at the intersection of ideas."

Particularly magical is the collaboration taking place between the Department of Veterans Affairs (VA) and Department of the Army, working together to provide cutting-edge simulation-based training for medical staff to enhance the quality of patient care at VA medical facilities across the Nation.

The \$5 million agreement utilizes the expertise of the Army's Program Executive Office for Simulation, Training, and Instrumentation (PEO STRI) to provide support and services for simulation equipment and supplies acquisition in support of VA's Simulation Learning, Education and Research Network (SimLEARN) Program.

"SimLEARN is developing new, simulation-based curricula for VHA health care professionals, including physicians," said Dr. Paula Molloy, SimLEARN National Program Manager. "Using a train-the-trainer model, the new curricula will be introduced throughout the VHA system." VA hospitals from around the country will send their representatives to Orlando and have them trained on the latest techniques, so they can return and do their own training on site.

It's the imagination piece that Orlando is known for worldwide, but it's applied differently. "We've seen what Team Orlando has accomplished with its collaboration and sharing of resources," said Seymour. "How do we build on what we're already good at as a region? It takes about thirty seconds to think about what that is, and it is simulation."

As the person responsible for overseeing the development of new business ventures and corporate recruitment for the Medical City, Seymour did much research about simulation-based centers and even visited many around the nation. Knowing that great institutions take decades building up their expertise, partners in the Medical City needed to focus on what was going to get them to that elite status and the much-deserved recognition for central Florida.

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Tidbit: The Veterans Administration (VA) is the largest healthcare provider in the world.



ITEC Conference: US in Cologne, Germany - Simulation and Training's Global Impact

by Mary Trier

A small group from Team Orlando headed to the ITEC conference in early May. The conference, sometimes described as a mini-international I/ITSEC, drew a reported 2 thousand visitors, with representatives from 38 countries. The Orlando delegation consisted of representatives from ADL, NAWC-TSD, PEO STRI, ARL, JTIEC, the National Center for Simulation and Metro Orlando Economic Development Commission.

Dr. Jim Blake, PEO STRI; Capt William "Roto" Reuter, NAWC-TSD; Pete Marion, PEO STRI; Dr. Robert Sottolare, ARL; and Kristy Murray, ADL, were highlighted speakers. Several companies from Team Orlando made the trip and presented technology solutions on the exhibit floor and in sessions. Dr. Kristy Murray, ADL; Ms. Leslie Dubow, PEO STRI; and Dr. Elaine Raybourn, Sandia Labs, participated in a popular session on game engine technology: "Reaching DoD Digital Natives with compelling Visual Communication for Game-based Training".

Mr. Greg Knapp, JFCOM (now Joint Coalition and Warfighting Center) also participated as a keynote speaker. Knapp discussed the new mission of the Warfighting Center and its focus on flexibility and better replication of the battlespace. His comments, and those of Mr. Frank DiGiovanni, OSD, gave the international audience a look at trends and focus areas of training and simulation from a national level. Mr. DiGiovanni challenged the audience to be innovative in its approach to producing systems that improve human performance. DiGiovanni said adaptability is key - from our highest



leaders to the lowest echelon - and that new approaches to acquisition are imperative. "There will be less big ticket acquisitions," he said, "and we must look at new ways to bring evolving technologies to market." The keynote presentations from DiGiovanni and Knapp were in concert with other keynoters. General Karlheinz



Viereck, NATO's Deputy Chief of Staff, Joint Force Training, HQ Supreme ACT, suggested that radical solutions are needed for future training - solutions that are agile, responsive and affordable.

ITEC is important for Team Orlando as it provides a forum for exploring training and simulation collaboration opportunities with allies. In summary, the team from Orlando networked with representatives from NATO and other government and industry participants, shared ideas and challenged the community to be innovative and creative in providing modeling and simulation solutions for the future.

GameTech 2011 Exclusive: Five Part Series

A Highlight of Our Speakers

Frank C. DiGiovanni, Director, Training Readiness and Strategy

Part Three: “The Army Must Be More Adaptive”

by Dolly Glass

Frank C. DiGiovanni, Director, Training Readiness and Strategy, is a member of the Senior Executive Service and serves as Director, Training Readiness and Strategy, Office of the Deputy Assistant Secretary of Defense (Readiness), The Pentagon, Washington, DC. His responsibilities include policy and oversight of Service Training and training capability modernization, the Department’s \$4.3B Combatant Commander Exercise and Engagement and Training Transformation program, and the Sustainable Ranges program.

As a GameTech 2011 Distinguished Guest Speaker, DiGiovanni spent time with attendees discussing virtual worlds and the defense training environment. He spoke about a single, secure training environment that can seamlessly merge live and virtual capabilities which actually become mixed reality, so that it’s almost transparent to the user while they’re in the virtual environment or a training environment.

But in a private interview after his presentation, DiGiovanni showed a true excitement for personal learning assistants, an area the President has asked DiGiovanni’s team to really study and look at the current and upcoming technologies.

“The ADL [Advanced Distributive Learning] folks are helping us with this, and the big vision is to build a capability that is transparent to the user, something wearable, that really stimulates the learning processes,” said DiGiovanni. “And it’s there with you, 24-7. It knows who you are, your learning style, and how to structure content in a way that you best understand.”

What does this have to do with the average person? These days, almost any ‘how to’ can be found on YouTube. Whether you want to fix your air conditioner, learn to speak another language or add crown molding to your home, it’s pretty simple to turn on your laptop, go to YouTube and type in what you’re looking to learn.

But instead of going to your laptop, it’s on your eyeglasses. “Hey I need to know something about how to cut crown molding and up pops a video about cutting crown molding,” said DiGiovanni. “That’s what I’m talking about and you can teach yourself. In fact, I think, you are your best teacher.”

In describing the premise of the personal learning assistant, DiGiovanni used Project Headstart as an example. Headstart began in 1965 and its purpose was to raise the IQ of underprivileged children, and although it sort of had a short term affect to do that, in the long term, it did not do that. Instead what it did do was create better learners.

“It had the unintended consequence of making people more inquisitive, getting to the underlying issues behind learning, rather than just learning to the test,” said DiGiovanni. The goal of the personal learning assistant is to take the Headstart concept and update it to the 21st century with a personalized approach to learning.

And the market for that right now is DoD education activity because it’s a huge block of school districts and more than one million children (military dependents) that are going through school. If the technology can be developed, used and show that it works in the DoD education activity, then industry commits to invest because of the large block, and there’s movement. “You can achieve what the President has asked us to do, which it to really look at technologies as personal learning assistants and move that ball forward.”

DiGiovanni also reiterated it was important that we’re training in a way this generation needs to learn and identified three goals to achieve. To start, in keeping with the humanity piece of technology, it’s important the personal learning assistants open the user’s eyes wider to the environment around them and not let them focus solely on the apparatus itself. The interface has to be transparent. (continued on page 5)



What to Expect at TSIS 2011

by Terri Bernhardt

Training & Simulation Industry Symposium 2011 will be a significant conference in the fields of training and simulation products related to Army, Marine Corps, Navy and Air Force. The conference provides an excellent opportunity to become conversant with the latest needs for training and simulation products and services being acquired by the Army, Marine Corps, Navy and Air Force. This event will feature presentations identifying near term and mid-term requirements and acquisition tactics. TSIS 2011 is a premier venue to hear the latest requisites and learn about procurement opportunities from defense training enterprise. Training & Simulation Industry Symposium 2011

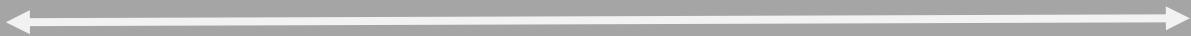
provides numerous opportunities to network with leading government and other industry associates in the training and simulation business. Targeted visitors at Training & Simulation Industry Symposium 2010 are:

- Defense Advisor
- Simulator Manufactures
 - Business Development Managers
 - Program Manager
 - Combat Developer
 - Project Managers
 - Design Engineer
 - Systems Engineer
 - Training Major
 - Senior Vice President

Event Date: 6/15/2011 to 6/16/2011

Event Location: Renaissance Orlando Resort at Sea World

Event Contact: Ms. Samantha J. Riemer at sriemer@ndia.org or (703)247-9490



(Medical City continued from page one)

It became more and more evident to Seymour that the key was the region's focus and synergy on modeling, simulation and training. The region was moving faster than anyplace else in the country, and maybe in the world, and admittedly, he was blown away by it.

New innovation in healthcare can take an average of 17 years from discovery to actual live adoption and practice, so with this long timeline, people's lives can be affected, negatively, and there are missed opportunities. "If through better, more effective training, that time can be shortened, we all benefit," said Seymour. "Plus these types of training technologies help to reduce errors and improve quality and the savings are enormous."

The Lake Nona Medical City has begun its growth and will be an amazing display of collaboration when all things are said and done, with Sanford-Burnham opening its doors in 2009, the first two UCF buildings opening in 2010, and the VA, Nemours, UF and Valencia all scheduled for opening the second half of 2012. "At the end of the day, we know we'll be judged on the people we bring," said Seymour. "These partnerships, as well as the recent announcement of the VA and PEO STRI commitment for training, solidify our national presence in simulation, and further exemplify the synergy taking place, making this region a true destination for which we can recruit top quality people."

Who Visited Team Orlando?

By Dolly Glass

Congresswoman Sandy Adams visited Team Orlando on May 18 to better understand the breadth and scope of Central Florida's Modeling, Simulation and Training (MS&T) cluster. The Congresswoman and her District Director, Don Pardue, received a detailed briefing on Team Orlando and its member organizations as well as a demonstration of the Advanced Use of Force Training System by NAWCTSD's Tyson Griffin and Courtney McNamara. The Advanced Use of Force trainer was recently awarded the 2011 Federal Laboratory Consortium for Technology Transfer's Interagency Partnership Award.



"It was an honor to have Congresswoman Adams make time in her schedule to learn more about Team Orlando and the great work taking place here at NAWCTSD and the other Team Orlando commands," said Kent Gritton, Director, JTIEC. "The Congresswoman was very engaged throughout the tour and she looks forward to future opportunities for continued discussions about the modeling, simulation and training industry, and the important role it plays here in our region."

Taking part in this important event were CAPT Bill Reuter (NAWCTSD), CAPT Steven Nakagawa (NAWCTSD), Walt Augustin (NAWCTSD), Col David Smith (PM TRASYS), Col Markus Boyd (AFAMS), John Daniele (PEO STRI), Dr. Kristy Murray (Advanced Distributed Lab), Beth Pettitt (STTC), Dr. Steve Goldberg (ARI), Dr. Alicia Sanchez (Defense Acquisition University), Michael Robbs (Federal Law Enforcement Training Center), Dr. Randy Shumaker (UCF IST), Brian Walters (Metro Orlando Economic Development Commission), LtGen Tom Baptiste (ret)(National Center for Simulation) and Kent Gritton.

NCS' 6th Annual Golf Tournament

by Terri Bernhardt



The National Center for Simulation (NCS) held its 6th Annual Scholarship Fundraiser Golf Tournament on Thursday, May 26th at Stoneybrook East Golf Club. Players arrived at noon for a 1:00 p.m. shotgun start. Eighty-two golfers enjoyed the afternoon and friendly competition which was followed by dinner and an awards ceremony. All proceeds from the event benefit the Vince & Beth Amico Scholarship to UCF and the Hank Okraski Scholarship to Daytona State College. Scholarships are awarded twice per year to worthy applicants attending the two institutions. Through these scholarships, NCS hopes to attract students to pursue degrees in Modeling and Simulation in order to help grow the workforce of the future, said Lt Gen (Ret) Thomas L. Baptiste, President/Executive Director, NCS.

NAWCTSD, DHS FLETC receive interagency partnership award



by Brian Roscoe

The NAWCTSD's Advanced Use of Force Training System (AUFTS) Team and the DHS FLETC (Federal Law Enforcement Training Center) Team received the 2011 Federal Laboratory Consortium (FLC) for Technology Transfer's Interagency Partnership Award. This award, one of the FLC's highest honors, recognizes the efforts of laboratory employees from at least two different agencies who have collaboratively accomplished the outstanding work in the process of transferring a technology. Under sponsorship by the National Institute

of Justice, the NAWCTSD and the FLETC collaborated on the development and technology transfer of the AUFTS. The award was presented at the 2011 FLC Awards program May 5, 2011, in Nashville, Tenn.

The AUFTS is a simulator that targets cognitive decision-making within escalation of force situations for law enforcement/force protection. Incorporating speech recognition, computer generated imagery, simulated weapon tracking, scenario generation tools, and an enhanced after action review capability. The simulator enables a high level of common, everyday interaction possible between trainee and computer generated characters.



(DIGIOVANNI continued from page 3)

The assistant has to have a seamless user interface. "The reason your kids are so good at this is because things like iPads have a really easy interface to use," explained DiGiovanni. "You don't need any directions and it's just cool. You just use your hands and move stuff around. There's no instruction book."

The third note is that of regression. It's important that we don't allow ourselves to be thwarted by the technology. "The personal learning assistant has to improve the thought processes, but it has to make sure that you don't become too dependent on it," noted DiGiovanni.

In simple terms, it's the difference of one teacher to one kid, or one teacher to 30 kids. We are probably about 10 years out from perfecting the personal learning assistant. "With technology allowing us to customize content and turbo charge people's learning based upon their individual capacities and capabilities, a huge movement in learning can be done now," said DiGiovanni. "We are trying to get out of the industrial age approach to learning and into the 21st century."

You are invited to a Training Technology Expo!

The event will feature an array of businesses with leading edge training technologies of potential interest to Team Orlando. Come out, enjoy some light refreshments and visit potential training partners.

Where: Radisson Hotel Orlando-UCF 1724 Alafaya Trail, Orlando, FL

When: June 14, 2011 9:00 AM — 2:00 PM

Who Should attend: Members of PEO STRI, NAWCTSD, PM TRASYS, and those responsible for developing and solving our next generation training requirements.

Why: This is a great opportunity to view leading edge training related technology and interact with businesses. Additionally, meet your colleagues in the training and simulation community.



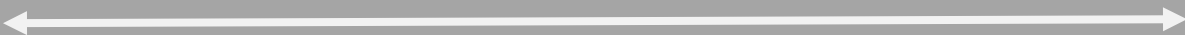
Nelson Speaks to Simulation-Focused Group

by Dolly Glass

As part of a focused push to enlist the support of state and federal lawmakers through continued education and updates about the region's development and recruitment for modeling and simulation, the National Center for Simulation (NCS), in partnership with the Central Florida Chapter of the National Defense Industrial Association, co-hosted a breakfast event featuring U.S. Sen. Bill Nelson (D) Friday, May 20, 7:30a to 9:30a, at the Radisson Hotel Orlando (UCF).

Nelson spent time updating the group on current news and challenges in Washington, D.C. and giving them a quick look into issues affecting our Nation's citizens, as well as talk about those most important to Florida.

This event was part of a series of meetings with government officials set up by NCS and its members and advisors, and follows a breakfast in April month hosted by NCS, with Rep. Sandy Adams, FL 24th District, on April 26.



United States of America and the Military

30 of the 43 Presidents served in the Army, 24 during time of war, two earned the rank of 5-star General (Washington and Eisenhower) and one earned the Medal of Honor (T. Roosevelt)

Only one President (James Buchanan) served as an enlisted man in the military and did not go on to become an officer.

The U.S. Army was in charge of exploring and mapping America. The Lewis and Clark Expedition was an all Army affair. Army officers were the first non-native Americans to see such landmarks as Pike's Peak and the Grand Canyon.

Did You Know?

SPOTLIGHT PERSON OF THE MONTH: Walter Augustin, NAWCTSD



Walter Augustin,
Technical Director,
Naval Air Warfare
Training Systems
Division (NAWCTSD)

Walter Augustin can be described as someone who wears two hats. Augustin serves concurrently as the Technical Director of the Naval Air Warfare Center Training Systems Division (NAWCTSD) and as the Director of the Human Systems Department in the Naval Air Systems Command.

As Technical Director, he serves as a member of the Research and Engineering Competency Executive Management Board and is the principal advisor for human Systems. He also works closely with the commanding officer in running the business side of NAWCTSD. In his role as the Human Systems Department Director, he leads the principal Navy activity for research, development, test and evaluation, acquisition and product support of training systems, crashworthy systems, personal protective equipment, information display, night vision systems, human factors engineering, and human systems integration.

These two leadership positions give Augustin a solid perspective as a member of Team Orlando, which he describes as a great business model. "The concept of Team Orlando is a natural outgrowth of how we do good business for our respective services, as well as for the tax payer, providing for the national defense of our country," said Augustin. "We collaborate where it makes sense to collaborate and we don't where it doesn't."

Augustin speaks to the important work done by Team Orlando, fostering open communication, transparency and looking for opportunities by knowing who is doing what, where it makes sense to work together and when to leverage one another's efforts.

As an example, if the Marine Corps was facing the same technical challenges in their ground training as the Army was facing, they would partner, perhaps utilize one of their contractual vehicles to assist the other service in buying a similar product that was already developed. Then, with efforts focused to invest a little research and development money, the system could be tweaked to more closely meet the specific requirements needed. But, the training system would be acquired for a reduced investment because of the partnership and collaboration between the two services.

An engineer by education, Augustin has a passion for lifelong learning and that is evident through his impressive academic

achievements. He has been conferred with a bachelor of science degree in electrical engineering, with Honors, from the Illinois Institute of Technology, a master of science degree, with Distinction, in electrical engineering from the Naval Postgraduate School, a master of military studies degree from the Marine Corps University, and a master of science degree in national resource strategy from the Industrial College of the Armed Forces.

But his passion for learning extends beyond the traditional academia. He's been rowing for five years after being introduced to the sport by his daughter, who was a rower in high school and college. He rows at the master level and enjoys this activity on weekends, if he's not spending time with his family.

"Family is very important to me," said Augustin. "If I'm not working, I'm usually spending time with my family. We enjoy outdoor activities, as well as theater and movies, and we have dinner together as much as possible."

Augustin also feels passionate about the significance of giving back. At NAWCTSD, they have implemented a command-wide mentoring initiative. "It's very important that we do everything that we can to invest in the professional development of our employees," he said, "especially if you look forward to the future of our workforce."

"It's incumbent upon us to transfer the knowledge, to develop the professional capabilities, to do all we can do to continue growth, so when we're gone, the command is left in good hands," explained Augustin.

With great things on the horizon, Augustin touches on some things he feels are important for modeling and simulation. With computer systems becoming more advanced and more capable, better quality training systems and devices emerge. "We're very closely wedded to the advancing of technology, whether it's computer hardware, software, the visual system, or the image generator," he said.

Other areas of great expectations are those of virtual worlds or virtual environments, where avatars are created that can fully replicate humans -- behaviors, artificial intelligence, voice recognition, and speaking capabilities -- but in a much shorter development period.

Finally, Augustin said the medical profession is ripe for leveraging advances in the modeling and simulation industry and noted the training industry's challenge to provide the fully immersive, real life experience of dealing with a human that's just been traumatized. "How do you replicate the feel of that warm body, and the shock that person is going through?" he asked. "Those kinds of things, although not necessarily the standard full motion simulator, still require modeling and simulation, and advancing of technology."

At the end of the day, Augustin reiterates the importance of communication, collaboration and cooperation. "It's all based upon the relationships, the trust and the confidence that the Team Orlando business construct provides," he said. "It all boils down to the people, the trust and the knowledge of who's doing what."

The 10-4 is a monthly publication that is distributed electronically on behalf of Team Orlando. The information contained herein is intended to inform members of the internal and external community about Team Orlando programs and events. The information contained within the 10-4 does not necessarily represent official views of the U.S. Government, nor should they be perceived as an endorsement by the U.S. Government, the Department of Defense or any of its subordinate organizations.

Team Orlando is established by a Department of Defense Inter-Service Charter that builds upon a partnership established between the Army and Navy over 60 years ago. Today, Team Orlando members from Government, academia, and industry are focused on one common goal: To improve human performance through simulation. www.teamorlando.org.

Please send story ideas for the 10-4 to: media@teamorlando.org

Respectfully submitting for Team Orlando,

Terri M. Bernhardt, Editor
Dolly Glass, Contributing Editor



Team Orlando Representatives

- **Program Executive Office Simulation Training and Instrumentation (PEO STRI)**
- **Naval Air Warfare Center Training Systems Division (NAWCTSD)**
- **Program Manager Training Systems (PM TRASYS)**
- **US Air Force Training Systems Product Group (TSPG)**
- **Air Force Agency for Modeling and Simulation (AFAMS)**
- **Simulation & Training Technology Center (STTC)**
- **Army Research Institute (ARI)**
- **Joint ADL Co-lab**
- **Defense Acquisition University (DAU)**
- **Federal Law Enforcement Training Center (FLETC)**
- **United States Joint Forces Command (USJFCOM J7)**
- **Veterans Affairs (VA)**

Liaisons

- **University Central Florida Institute for Simulation Training (UCF IST)**
- **National Center for Simulation (NCS)**
- **Metro Orlando Economic Development Commission (EDC)**

Upcoming Events:

Training Technology Expo
June 14th 9 am - 2 pm
Radisson Hotel UCF

TSIS
June 15-16
Renaissance Sea World
Orlando

Army Ball
June 18, 2011
Renaissance Orlando Resort
www.ausa-sunshine.org

ADL Implementation Fest
August 2-4, 2011
Rosen Center, Orlando FL
www.adlnet.gov

Air Force M&S Conference
postponed from April and
TBA
www.afams.af.mil

Navy Ball
October 15, 2011

I/ITSEC
November 28-December 1
Orange County Convention
Center, Orlando, Florida
www.iitsec.org



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