

# Florida Simulation Summit

## Experience the New Reality

Thursday, September 7, 2017

Hosted by  
Orange County Mayor Teresa Jacobs  
and The National Center for Simulation

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# Welcome



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*Mayor,  
Orange County*



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**THOMAS L.  
BAPTISTE, LT.  
GEN., USAF  
(RET)**  
*President and  
CEO,  
National Center  
for Simulation*

Greetings,

Welcome to the 2017 Florida Simulation Summit. On behalf of Orange County and the National Center for Simulation (NCS), we thank you for joining us today and for your interest in Florida's multi-billion dollar modeling, simulation and training industry (MS&T).

This year's Simulation Summit will highlight advancements in virtual and augmented reality within the transportation and automotive industry, the architecture and engineering sectors, and the medical robotics and simulation sectors. In addition to sharing industry insights on cutting-edge virtual and augmented applications, the goal of the Summit is to raise awareness about the simulation industry's vast impact on the broader region and economy.

To highlight the importance of the industry in Florida, Orange County and the NCS have hosted this highly attended annual conference since 2015. Now in its third year, the Florida Simulation Summit showcases continuing progress, synergy and support for the MS&T industry in Central Florida and statewide.

We look forward to welcoming our keynote speaker, Elizabeth Baron, Ford Motor Co.'s renowned Virtual Reality and Advanced Technical Specialist. Ms. Baron manages Ford's Virtual Reality Center, which provides immersive virtual reality systems used for design and product development. As part of the Digital Innovation Group at Ford, Ms. Baron's goal is to address the unique challenges of automotive design and engineering in the digital age.

Our lineup of Summit speakers also includes experts from Orlando VA Medical Center, Luminar Technologies, Inc. (autonomous vehicles), the I-4 Ultimate Improvement Project, Institute for Simulation and Training at the University of Central Florida, Walt Disney World Resort, PCL Construction, Nemours Children's Hospital and the University of Florida.

Through the use of augmented reality and simulation in construction and transportation planning, as well as in the medical industry through the creation of simulated cutting-edge surgical procedures and medical applications, the MS&T industry has proven to be a catalyst for jobs and capital investment in Central Florida.

Central Florida's robust MS&T sector contributes more than \$6 billion to Florida's gross state product and directly employs more than 30,000 Floridians with an average annual salary of nearly \$80,000. The Central Florida Research Park, located next to the University of Central Florida, is the epicenter of the MS&T industry and fosters collaboration, cooperation and partnership between academia, industry and government. Founded in 1993, the Central Florida Research Park is home to the NCS.

By working with our many industry partners, including Orange County's interdisciplinary MS&T Blue Ribbon Commission, the NCS, Orlando Economic Partnership, The Corridor, Team Orlando, the City of Orlando, Central Florida Research Park, the Metro Orlando Defense Task Force (MODTF) and the OCPS Tech Centers, Central Florida continues to invest in the future of this high-tech, high-wage cluster.

Thank you, again, for joining us today and for continuing to make Orange County the best place to live, work and raise a family.

Sincerely,

Teresa Jacobs  
Orange County Mayor

Thomas L. Baptiste, Lt. Gen., USAF (Ret)

President and CEO  
National Center for Simulation



THE NATIONAL CENTER  
FOR SIMULATION

## Opening Keynote    Lunch Keynote



**ELIZABETH BARON**  
*Virtual Reality & Advanced  
Technical Specialist,  
Ford Motor Co.*



**CHRISTOPHER D. PREVEL, M.D.,  
F.A.C.S., F.A.A.P.S.**  
*Associate Chief of Staff, Surgical Services and  
Chief of Surgery,  
Orlando VA Medical Center*

## Panel Discussions

### *The Integration of Autonomous Vehicles, Intuitive Highways and Smart Cities*



**ROBERT UTSEY**  
**MODERATOR**  
*Senior Vice President,  
Skanska USA Building, Inc.*



**SMITH SIROMASKUL, P.E.**  
*Senior Transportation Engineer and  
Senior Professional Associate,  
Ultimate I-4 Improvement Project,  
HDR, Engineering, Inc.*



**SCOTT FARIS**  
*Chief Business Officer,  
Luminar Technologies, Inc.*



**CHRIS CASTRO**  
*Director of Sustainability,  
Co-chair of Smart Cities Initiative,  
City of Orlando*

### *From Theme Parks to Commercial Space Flight, the Future Technology of Moving People and Cargo*



**DAVID METCALF, PH.D.**  
**MODERATOR**  
*Senior Researcher and Director,  
Mixed Emerging Technology  
Integration Lab (METIL),  
Institute for Simulation & Training  
University of Central Florida*



**KUNAL PATEL**  
*Co-Founder,  
BrandVR*



**NICK HOWE**  
*Strategic Advisor,  
Advanced Learning and  
Sustainable Transport  
Institute for Simulation and Training,  
University of Central Florida*



**MICHAEL TSCHANZ**  
*Director, Technology  
and Analysis  
Design and Engineering,  
Walt Disney Parks  
and Resorts*

## Architecture, Engineering & Construction



**THOMAS L. BAPTISTE**  
**LT. GEN., USAF (RET)**  
**MODERATOR**

*President and CEO,  
National Center for Simulation*



**JOE ALES, PH.D., P.E.**

*Senior Principal and Managing Director  
Structures Group  
Walter P Moore*



**JOSH ALLISON**

*National Manager,  
Virtual Construction  
PCL Construction Services, Inc.*



**NAWARI NAWARI, PH.D., P.E., M.ASCE**

*Associate Professor,  
School of Architecture,  
University of Florida*

## How V/R and A/R are Revolutionizing Medical Training and Procedures



**SHAYAN VYAS, M.D.**  
**MODERATOR**

*Medical Director,  
Nemours Telehealth and  
Nemours CareConnect  
Pediatric Critical Care Specialist,  
Nemours Children's Health System*



**WAYMON ARMSTRONG**

*Chairman,  
MS&T Blue Ribbon Commission  
Founder and President,  
Engineering and Computer Simulations*



**PAMELA J. BOYERS, PH.D.**

*Associate Vice Chancellor  
for Clinical Simulation (iEXCEL),  
Assistant Professor,  
Department of Surgery,  
University of Nebraska Medical Center*



**BRIAN M. LEVINE,**  
**M.B.A., C.S.M.**

*Leader of Military Sales  
and Turn Key Solutions,  
CAE Healthcare*

## Closing Remarks



**THOMAS L. BAPTISTE,**  
**LT. GEN., USAF (RET)**

*President and CEO,  
National Center for  
Simulation*