

# Medin Seminar Series



*Named in recognition of former director Dr. Medin's contribution to IST, UCF, and Modeling and Simulation, this series of seminars features authorities on the theory and practice of M&S, with special emphasis on topics that show how to bring theory into practice. Speakers are experts from throughout the simulation community, including academia, government and industry. Seminars at IST are free and open to the public.*

**March 12, 2015**  
**1:00 PM**  
**PIII, Room 233**

Seminars are held at:  
**Central Florida Research Park**  
**Partnership II & III Buildings**  
**3100 Technology Parkway**  
**Orlando, FL 32826**



**GUEST SPEAKER**  
**Dr. Pamela Andreatta**

## **Simulation's Essential Role for High Quality Performance in Healthcare**

Simulation supported environments provide healthcare systems with the opportunity to address longstanding challenges resulting from the gaps between various disciplines and practices, which collectively comprise the provision of clinical and surgical care. Absent a contextually representative environment, it is difficult to identify and remedy these chasms without further complicating the provision of patient care. Dr. Andreatta will speak about the role simulation plays in clinical medicine and surgery, specifically related to the:

- Development of human performance standards
- Implementation of performance assessment mechanisms
- Design of biomedical devices to support human performance
- Testing and verification of devices and techniques prior to applied implementation
- Evaluation of system-based practices and management strategies
- Identification of inter-disciplinary "holes" in system-based management

**Dr. Pamela Andreatta** is an associate professor and director of human performance research in medical and surgical education at the University of Minnesota Medical School. She is an honorary associate professor of surgical education at the University of Melbourne and associate professor of medical education at Monash University in Victoria, Australia. Her research interests include performance related outcomes associated with immersive learning environments; interaction effects among cognitive, affective, psychomotor and environmental factors during learning and performance; the development and maintenance of critical performance capabilities in clinical medicine; performance-based assessment in simulation-based and applied clinical care; and human performance factors associated with institutional and patient-related outcomes. Dr. Andreatta studies the uses of advanced practices in individual and team-based methods for instruction, performance assessment, and maintenance of competencies in medical, surgical, nursing and allied health practices. Her primary research funding is provided by the Department of Defense and supports the investigation and development of advanced instructional practices for high-precision, clinical and surgical interventions.

Dr. Andreatta is internationally recognized as a leader and expert in competency based performance assessment, having conducted numerous studies on six continents. Dr. Andreatta is the president-elect and member of the Board of Directors for the Society for Simulation in Healthcare (SSH), and has served as an appointed delegate for the American College of Obstetricians & Gynecologists simulation consortium, appointed delegate to the American College of Surgeons Accredited Education Institutes research committee, consultant to Health Workforce Australia, consultant to American College of Nurse Midwives, and expert instructor at the Royal Australasian College of Surgeons. Dr. Andreatta also serves on the Board of Directors for Metrics Medicus. She was the Founding Director (Emeritus) of Clinical Simulation Center at the University of Michigan Medical School.