OHSU Faculty Presentations at the IMSH 2011

Presidential Address:
Speaker: Michael Seropian
• As president of SSH, opening speaker for IMSH 2011; focused on member engagement, involvement, learning, questioning and sharing.

Keynote Presentation: How Health Professionals Think: Implications for Clinical Education
Keynote Speaker: Chris Tanner
• This presentation focused on: why health professionals need to change the way they do clinical education; what can be learned from recent research in health professions education and on clinical reasoning; and, priorities for research related to clinical education, including simulation.

Pre-conference 4-hour Workshops
Developing a Simulation Program
Presenters: Bonnie Driggers, Michael Seropian, Brian Brost (Mayo)
• This session addressed the core concepts of simulation program development, facility design and equipment procurement. Through participant activities, reinforced the importance of business, facility and equipment planning processes.

Simulation-Based Research: Tips, Tricks and Tools of the Trade
Presenters: Adam Cheng (U of B.C., Canada), JoDee Anderson, Judy LeFlore (U of TX Arlington), Akira Nishisaki (U of Penn), Betsy Hunt (John Hopkins), Robert Simon (Harvard)
• This session was presented by faculty from the multi-center simulation research collaborative EXPRESS and provided: a) an overview of fundamental steps for Sim research projects; b) tips for multi-center research projects; c) overview of three validated assessment tools (BAT, CPT and DASH) for sim-based research protocols; and d) introduced a website for collaborative research.

You’ve Got Simulators, You’ve Got Staff, You’ve Got Some Runs on the Board- But Where to Start? Proactical Solutions to Build Sustainable Simulation Programs
Presenters: Katie Walker (Health Workforce, Aust), Jenny Rudolph (Harvard), Michael Seropian, Cate McIntosh (Univ of Queensland, Aust)
• This session provided practical solutions to tackle common problems encountered by established programs. The course used Moore’s triangle as its theoretical backbone. Participants walked through concepts of substantive value, political legitimacy, and operations.

Workshop Sessions
Integrating Video Technology in Simulation Education
Presenters: Garth Meckler, Todd Ellingson, JoDee Anderson, Rob Cloutier
• Workshop reviewed the heuristic potential of video technology to enhance simulation-based learning. Overview of the teaching potential of video technology to a) enhance learning objectives and suspension of disbelief when used in pre-briefing; b) to increase the number of learners when used to broadcast live simulation exercises; c) to aide insight and immediate feedback in debriefing; and as a tool for assessment and research when used in archiving. Included a real-time demonstration and an audience sharing exercise.

Thinking Like a Nurse: Using Simulation to Teach and Evaluate Clinical Judgment in Undergraduate Nursing Students
Presenters: Paula Gubrud, Stephanie Sideras, Chris Tanner
• This session presented Tanner’s Research Based Model of Clinical Judgment and described instructional practices that could be used to promote the development of clinical judgment when using high-fidelity simulation. Recommendations regarding scenario design and debriefing strategies were emphasized.

Use the Behavioral Assessment Tool (BAT): Comprehensive Workshop Designed to Prepare Users to Score CRM-Based Behavior Using a Validated Tool
Presenters: JoDee Anderson, Kris Boyle (Stanford), Garth Meckler, Judy LeFlore (U of TX Arlington)
• The BAT, developed to measure CRM-based behavioral skills, has had excellent internal consistency and validity established through a large multicenter, randomized control trial. Participants were taught to use the BAT for behavioral skills familiarization, acquisition and assessment in simulation.
ACES Cases: Use of Unfolding Stories with Simulation to Teach Care of the Older Adult

Presenters: Mary Cato, Teri Boese (Int’l U of Nursing, St. Kitts), Jeanne Cleary (Ridgewater College, MN), Cynthia Reese (Lincoln Land Community College, IL)

- This presentation described the ACES (Advancing Care Excellence for Seniors) framework, which was designed to guide nursing education and clinical practice of older adults. Presenters explained how they utilized the framework to create four “unfolding cases”, focusing on individualized aging, complexity of care, and life transitions and demonstrated some of the faculty development resources.

Communication and Crisis Resource Management (CRM): A Breakdown for Teaching and Debriefing

Presenters: Todd Ellingson, Garth Meckler

- This presentation focused on the principle of Communication as it pertains to CRM. Communication was broken down into components: Closed Loop Communication, Assertive Speech, Critical Language, Situational Awareness/External Thinking, and "Sterile Cockpit." Video examples were presented for the audience to critique the simulation based on these components.

Diversity in Simulation: Exploring Patient-Centered Care

Presenters: Jesika Gavilanes, Mary Cato, Mary Anna Gordon

- This session focused on the use of simulation as a tool to explore culture, diversity and multiple perspectives on health care. Concepts described included: a) communicating with patients and families, b) collaborating within interprofessional healthcare teams, c) recognizing and valuing students as content experts, and d) encouraging student involvement in creating cultural learning activities.

Enhancing Interprofessional Education Using Simulation

Presenter: Mary Anna Gordon

- This session focused on the use of simulation to enhance the TeamSTEPPS interprofessional training curriculum in an educational environment. An evidence-based practice change project was described that combined nursing students with medical interns to learn the TeamSTEPPS basics, practice them together in interdisciplinary simulation scenarios, and debrief together to enhance role understanding.

Hitting Trifecta of Course Production: Lessons Learned in Center-Based, In Situ and Mobile Program Course Delivery Lessons

Center-Based Panelist: Jesika Gavilanes

- Medical simulation is delivered in a variety of physical settings and modalities including center-based, in-situ, and multipurpose training spaces in hospitals using a mobile program. Each presents its own challenges in terms of operations and production. This panel of experts shared their experiences and discussed the most common hurdles and pitfalls, including lessons learned, as they met the challenges of delivering training in today’s diverse simulation environment.

Improvisational Expertise: Using Simulation to Develop the New Expert Nurse

Presenter: Paula Gubrud

- Session explored the use of the How People Learn (HPL) model as an organizational framework in simulated learning activities that are designed to facilitate the development of expert nurses. As a means for teaching nursing students to think like improvisational experts, the HPL framework assumes that instruction should address the process of learning, transfer of learning, competent performance, and characteristics of cognitive flexibility.

Innovative Collaborations in Simulation: How to Make the Most Out of Simulation Networks

Presenters: Adam Cheng (U of B.C., Canada), Marc Auerbach (George Wash U), Michael Seropian, Vince Grant (U of B.C., Canada)

- Leaders from four collaboratives shared strategies of how they managed people to work together towards a common vision and goal. Collaborative examples were of simulation-based education, CRM training, simulation-based research, and simulation administration and policy development at the state level.
Podium Presentations and Panels (continued)

Qatar as a Culturally Adaptive Model for International Simulation Collaboration

Presenters: Renee Pyburn (Qatar), Michael Seropian

• Discussed the facts, challenges and strategies used to develop a national simulation program in Qatar, a country of 1 million people with no pre-existing simulation expertise.

Reaching Out to Simulation Instructors in the Field: The Neonatal Resuscitation Program (NRP) Instructor DVD, an Interactive Tool for Facilitation of Simulation-based Learning

Presenters: Louis Halamek (Stanford), JoDee Anderson, Wendy Simon (AAP)

• Workshop reviewed the creation, content and dissemination of the NRP Instructor DVD, produced by the American Academy of Pediatrics (AAP). This DVD sets the standard for care of newborns in the U.S. and represents a transition to a simulation-based career-long learning program.

Simulation Research Consortia: Benefits and Challenges

Presenters: Marc Auerbach (George Wash U), Michael Seropian, Vince Grant (U of B.C., Canada), KT Waxman (U of SF), Don Coombs

• Facilitated discussion on the pros/cons, use and challenges of collaboratives in simulation to promote research and data collection; how to leverage collaboratives for maximum benefit to members.

Simulation Roadmap: From Idea to Implementation

Panel Moderator: Jesika Gavilanes; Panelists from simulation centers at UCSF, Harvard & Miami Children’s Hospital

• Many simulation centers struggle with the process of working with subject matter experts and converting their ideas / content into simulation-based scenarios or curriculum. The presenters in this session shared a defined roadmap for working with these subject matter experts and their processes for working with the participants.

Striving for Fusion: A Digital Toolkit to Manage a Multisite International Simulation

Presenters: Kathie Lasater, Patricia Ravert (BYU), Stephanie Sideras

• This session presented a method for replicating protocols for a simulation study across five international programs. A digital toolkit included the use of a Wiki, secured project website, pod/vodcasts, multimedia exemplar, documentation organization software, secure data storage—most of which was free and accessible. Additionally, frequently scheduled communication and technical support at all sites were critical to manage the details and toolkit.

Work-in-Progress Abstract

Integrating High Fidelity Simulation Into a Nurse-Midwifery Curriculum

Presenter: Lisa Chickadonz

• Nurse midwifery faculty have introduced simulation as a means to improve students’ clinical judgment and to learn team roles, particularly in the management of emergent situations. If simulation is an effective method for teaching certain complex skills in the advanced practice nursing program, it may help ease the strain on clinical placement and allow students to more quickly build skills and confidence.

Paramedic Crisis Resource Management (PCRM): A Curriculum and Performance Evaluation

Presenter: Todd Ellingson, George Olson, Jamie Kennel (Oregon Institute of Technology)

• Aviation introduced Cockpit Resource Management to help deal with human factor related causes to airline accidents. This was adopted into medicine and became Crisis Resource Management (CRM). A curriculum dedicated to these CRM principles for paramedic students was created for use in the OHSU/OIT Paramedic Program and is intended to improve the students’ performance in crisis situations.