Overview: “Why isn’t it working? What’s going on?!” Sound like your control room? Audio visual equipment has become a bedrock of the simulation environment – many of us rely on it to work every single day. In this workshop, we will review simulation A/V technology with an emphasis on how to troubleshoot it when the problems come up. Participants will hone their problem-solving skills and discuss A/V problems encountered in their own centers.

Objective 1: Examine audio/visual equipment commonly used to deliver healthcare simulation

Objective 2: Increase preparedness for simulation A/V troubleshooting by discovering critical thinking techniques and troubleshooting paths

Objective 3: Discuss questions, problems and solutions that attendees have encountered working with simulation technology

Presenters:
Joseph Waterson; Zamierowski Institute for Experiential Learning
Presentation ID: 56764

Presentation Title: Creating a Mobile Simulation Lab and In-Situ Debriefing System on a Budget

Presentation Date: 7/17/2020

Presentation Time: 1 PM EST - 2 PM EST

Content Category: Technical Operations

Delivery Format: Hands-on Workshop (60 minutes)

Overview: Learn about how to create a cost-effective, in-situ video debriefing system and tour one Parkview Health's mobile simulation lab. Discover what alternatives could be available to you.

Objective 1: Discuss how to design and construct your own cost-effective, in-situ video debriefing system

Objective 2: Utilize the Parkview VIDS in-situ video debriefing system

Objective 3: Identify the needs, considerations, and potential funding sources for a mobile simulation laboratory at your facility

Presenters:
John Lozo; Parkview Health
Mitchell Burris; Parkview Health
**Overview:** Because of the various backgrounds of SOS, everyone arrives in simulation with a different skill level for deciphering clinical jargon. Being able to quickly understand, interpret, expect clinical changes in the control room is paramount to the success of your program. This course will provide a foundational overview into medical terminology abbreviations needed to be successful within the operations scope.

**Objective 1:** Identify the importance of medical terminology in the operations role

**Objective 2:** Define foundational terminology, anatomy, and basic clinical practices

**Objective 3:** Apply basic vital signs and labs to daily programming and preparation

**Presenters:**
Jarrod Young, CHSOS; UTHSC
Overview: This advanced skills workshop requires learners bring a laptop for a guided, hands-on Arduino microcontroller coding activity. We will discuss using single board computers (SBC) and microcontrollers, i.e. a Raspberry Pi or an Arduino, to build small simulation devices, modify manikins, and solve simulation technology problems. Coding knowledge is helpful but not required. Prior to the workshop create a https://create.arduino.cc/editor account.

Objective 1: Identify the purpose of the device or modification and select the appropriate SBC or microcontroller to best meet the needs of the project

Objective 2: Implement an online integrated development environment (IDE), use GitHub repositories, and execute hardware add-on specific libraries as resources for code examples and tutorials to aid in writing software for the selected project and hardware

Objective 3: Examine basics of editing and compiling code, and programming the selected hardware

Presenters:
Myles Larson; North Idaho College
Overview: Simulation is a powerful education and quality improvement technique used in staff training and system integration. Expired medications and supplies are frequently used to increase simulation fidelity which has resulted in staff, learner and patient injury. During this presentation simulation safety policies and procedures will be reviewed and participants will work in small groups to identify gaps in their current simulation safety policies.

Objective 1: Apply simulation safety standards to their individual simulation programs and identify gaps in safety procedures

Objective 2: Discuss policies and procedures that can be implemented to improve simulation safety

Objective 3: Identify one simulation safety concern that can be resolved through the development of simulation safety standards

Presenters:
Mary Ellen Elias, MSN; VA Pittsburgh Healthcare System
Presentation ID: 56834

Presentation Title: Materials in Simulation: A Crash Course to Manikin and Innovation Materials

Presentation Date: 7/30/2020

Presentation Time: 2PM EST - 3 PM EST

Content Category: Innovation Technology

Delivery Format: Hands-on Workshop (60 minutes)

Overview: An introduction to the basic materials used in manikins, task trainers and other simulation equipment. At the completion of this course the learner will have a solid understanding of all common materials in the simulation space and how best to care for them.

Objective 1: Explore the basic materials used in the creation of task trainers and other simulation devices

Objective 2: Compare and contrast the benefits and limitations of each material

Objective 3: Explain the appropriate care and cleaning for all common materials

Presenters:
David Shablak, NRP; Simulation Tek
William Belk; Air Methods Corporation
Overview: This hands-on workshop will review advanced moulage techniques to increase fidelity in trauma related simulations. Instruction will include standardized patient and manikin safety; proper application and removal of prosthetics; use of alcohol-based paints and grease/cream paints; bald-cap application for severe burn and blast injury moulage. Participants will also be instructed on aligning moulage fidelity to simulation objectives.

Objective 1: Describe how to align moulage fidelity to simulation scenario objectives

Objective 2: Construct realistic trauma injuries through various moulage modalities

Objective 3: Show how to properly apply and remove special effect prosthetics

Presenters:
Christen Phillips; Walter Reed National Military Medical Center & Uniformed Services University of the Health Sciences
Eric Singdahlsen, MFA; Uniformed Services University
Overview: Using a variety of materials, this course will teach you to build advanced moulages that are easy to use and make your simulations more repeatable. Molds, coloring and materials will all be used make the pieces

Objective 1: Discuss the advantages and disadvantages of different materials for making prosthetic moulage pieces

Objective 2: Demonstrate the ability to create a mold to allow the making of multiple repeatable pieces

Objective 3: Create moulage piece(s) using color and multiple materials

Presenters:
Steven Lichtenberg; Cleveland Clinic Florida
Overview: As we continue to grow and standardize the role of the Simulation Operations Specialist, the need for professional development becomes greater. There is no straight path for the Ops Specialist, but many options. We will review pathways available to an Ops Specialist and which may have the most significant impact on your career. Join us to explore educational and career advancement opportunities and build your personalized action plan.

Objective 1: Discuss the professional development opportunities that exist for the Simulation Operations Specialist (SOS)

Objective 2: Assess the value of experience, continuing education, and industry certification in the career of the Simulation Operations Specialist

Objective 3: Apply knowledge of development opportunities for Simulation Operations Specialists (SOS) to create a professional development action plan

Presenters:
Sean Cavanaugh, CHSOS ; MD Anderson Cancer Center
Melissa Lowther BS, CHSOS; CAE
Kati Maxkenzie,
Masters of Science in Healthcare Simulation, BFA; Alameda Health System
Jarrod Young, CHSOS ; CHIPS @ UTHSC
Overview: Are you new to the field of healthcare simulation operations? Not quite sure if a “safe learning environment” includes helmets or empathy? This course covers fundamental elements that every simulationist should know. Explore the motivations behind the technical operations work of a simulation operations specialist. Experienced operations specialists share what they wished they knew when they started working in healthcare simulation.

Objective 1: Understand basic definitions and concepts in healthcare simulation.

Objective 2: Describe the role of a simulation operations specialist in creating and maintaining a safe simulation learning environment.

Objective 3: Discuss simulation operations specialist responses to common situations that challenge a safe simulation learning environment.

Presenters:
Amy Follmer CHSOS; NYU Winthrop Hospital
Melissa Lowther BS, CHSOS; CAE
Presentation ID: 56805

Presentation Title: Tell Me a Story: The Power of Storytelling for Advocacy in Healthcare Simulation

Presentation Date: 8/25/2020

Presentation Time: 1 PM EST - 2:30 PM EST

Content Category: Professional Development

Delivery Format: Hands-On Workshop (90 minutes)

Overview: Storytelling is an essential tool for leaders, educators and advocates. This interactive session focuses on developing stories for use in advocating for healthcare simulation. Faculty will share the science behind storytelling and some top essential factors to creating a compelling and convincing story narrative. Participants will have the opportunity to develop and deliver their own story, with feedback from faculty and attendees.

Objective 1: Describe the importance of storytelling in advocating for healthcare simulation

Objective 2: List the three key considerations of creating an effective story for advocacy

Objective 3: Create a short (2-3 minute) story designed to show the importance of simulation in healthcare

Presenters:
Jamie Robertson PhD, MPH; UT Southwestern
Dayna Downing MBA, MHA; Children’s Health
Overview: This hands on workshop will focus on the benefits of creating customized low cost task trainers and wounds. Using innovative techniques and collaborative team dynamics we will demonstrate and lead projects that will enhance simulation fidelity. Attendees will be provided with a take home cookbook, create a wound and participate in a Moulage Pageant.

Objective 1: Identify situations in which a DIY task trainer or moulage technique could enhance a simulation experience

Objective 2: Identify helpful resources in the creation of DIY task trainers moulage

Objective 3: Create a task trainer using common low-cost molding and moulage material

Presenters:
Mechelle Roy; University of St. Augustine for Health Sciences
Victoria Wolfe; University of St. Augustine for Health Sciences