Conference Program

August 2-5
Dallas, Texas
Dear Healthcare Simulation Specialists,

I am excited to welcome you all to our 12th annual SimGHOSTS event at Baylor University in beautiful Dallas, Texas. The theme for this year’s conference is **Embracing Connection: Creativity and Community in a Changing World**. We encourage each of you to embrace this event to network with each other, learn from our amazing presenters, and to take what you learn from this event and share it with your other simulation colleagues and implement it in your work.

The SimGHOSTS vision is to empower its community by providing them with the opportunities to meet their like-minded healthcare simulation specialists and simulation industry under one roof to share their knowledge of healthcare, technology, and simulation, and to develop their skills and collaborations further.

Every member of the healthcare team is vital to delivering optimal patient care, just as you are critical to creating a consistently positive training environment. We want to be your advocate in the industry and make sure you are empowered to use your knowledge to deliver cost-effective, user-friendly educational environments that facilitate learning.

We look forward to meeting you in class, at social events, and online at SimGHOSTS.org.

*Welcome to SimGHOSTS 2022 USA!*

Ferooz Sekandarpoor, MSc IT
President, SimGHOSTS
Simulation Technology Specialist at Faculty of Medicine University of British Columbia
MEETING INFORMATION

Hosted by the Baylor University’s Louise Herrington School of Nursing, SimGHOSTS USA 2022 is an in-person event that is designed to elevate your healthcare simulation delivery with hands-on workshops, demonstrations and oral presentations delivered by YOU -- the SimGHOSTS community. In just two short years our world and how we deliver healthcare simulation has transformed and continues to evolve. A changing world requires new ways of working. Ways that are smarter and more agile than ever before. We strongly believe that collaboration accelerates innovation during these transitioning times. Thus, the SG22USA event’s theme is Embracing Connection: Creativity and Community in a Changing World.

The SG22USA program highlights the use of technology and virtual environments in simulation programs and aims to bring the spectrum of simulation professionals together to improve learner and patient outcomes.

The SG22USA Program includes:
- High-fidelity manikin hardware & software operation, maintenance and repair
- Audiovisual system design and integration, operation, and troubleshooting
- 3D Printing, casting and molding, fabrication and prototyping.
- Career development and staff management
- Medical terminology, physiology, pharmacology
- Beginner to advanced moulage creation and application
- International healthcare simulation education practices
- Virtual environments and serious games

The meeting objectives are to:
- Meet with other Simulation Champions and share best practices
- Network and build long term industry relationships with peers and vendors
- Discuss and develop professional community needs and standards

WHO SHOULD ATTEND?

Anyone involved in the operation of a clinical simulation lab, or clinical educators who contribute to the day-to-day operation of simulation spaces. This includes AV and IT department staff members who are responsible for supporting the simulation program. Educators, game developers, academics and clinicians who are interested in learning more about how to use different simulation modalities to achieve learner outcomes and how to collect data on simulation activities. Anyone evaluating clinical simulation technology for purchasing decisions should strongly consider attending as many major industry vendors exhibit and/or demonstrate their range at SimGHOSTS events.
REGISTRATION INFORMATION

Early Bird - Ends June 14th USD $495
Early Bird Member Discount USD $445
Early Bird Subscription + Registration Discount Package USD $512 (Save $62.50)
Regular - USD $625
Regular Member Discount USD $575
Regular Member + Registration Discount Package USD $642 (Save $62.50)
Making Connections - Interprofessional Networking Event - $25

Pre-Conference Workshops:
CHSOS Readiness Review Course $325
Basic Moulage Techniques Course (half-day) - $250
Advanced Moulage Techniques Course (half day) - $300
Moulage | Basic and Advanced Workshops (full day) - $450
Increase Your Efficiency and Reliability with Planned Scenario Programming - $75
Preventative Maintenance Checklist: Perform system checks, upgrades and repairs for most major brands - $75

In-Conference Workshops: these workshops require additional materials and participants will make or receive a product to take home with them.
Back to Basics: Moulage for the New Specialist - $75
Leveling Up The Trauma Moulage - $75

Refunds
Refunds are available until June 25, 2022 subject to $50 administration fee. Partial refunds are available after this date until July 16th. Registrations are transferable. If the event needs to be postponed or format changed due to COVID-19 restrictions you will be offered a full refund of your registration fee.

Save 10% on your annual SimGHOSTS.org subscription by subscribing or renewing with your SG22USA event registration. Get access to online courses, recordings from previous events, mentorship and more!
Baylor University Louise Herrington School of Nursing (LHSON)

The Baylor University Louise Herrington School of Nursing (LHSON) is located in the heart of Dallas and prepares baccalaureate and graduate level nurses within a Christian community for professional practice, healthcare leadership, and worldwide service. LHSON provides a competitively robust education through the integration of faith and academic excellence; Baylor nurses have been called to make a difference and care for others by serving as Jesus’ hands and feet. Their distinguished reputation exemplifies our motto: Learn. Lead. Serve.®

LHSON Simulation is in the midst of a large expansion, from approximately 2,500 square feet to almost 35,000 square feet. This growth was made possible by the opening of the new Academic Building in June 2018. Vacated classrooms, faculty offices, and administrative spaces made way for more lab spaces and creation of the Clinical Simulation Building (CSB). The LHSON Simulation Staff is also growing and redefining roles. The current 3-person team oversees all administrative, educational, and operational responsibilities. Recently, we added additional support of six new full time staff simulation educators.

The Sim Labs include the Health Assessment Lab, Professional Nursing Practice Skills Lab, Don A. and Ruth Buchholz High-Fidelity Sim Lab, Obstetrics and Perioperative Simulation Suite, Community Health Simulation Suite, Hybrid Simulation classroom, and 55-seat auditorium. The creation of a 10-room Outpatient Simulation Suite and a Pediatric Simulation Suite is underway. This expansion in physical space allows for a substantial increase in simulation-based activities integrated throughout the undergraduate and graduate programs.

Simulation as a Catalyst for Collaboration and Innovation

All scenario-based simulation activities are a collaboration between the Sim Facilitator and a clinical or course faculty member, who serves as the content expert. In the Fall of 2017, the LHSON Sim Team created the Two-Heads-Are-Better-Than-One (2HeadsR>1) strategy for role assignment in simulation. This innovative approach to scenario-based simulation activities, allows for the assessment of critical thinking and clinical reasoning skills, while also encouraging collaboration and shared decision-making. Two students assume the role of one nurse. They are instructed to move and act as if they are one person, requiring the use of think aloud to share their thoughts, collaborate, and determine the appropriate plan of care for the simulated patient.
SimGHOSTS has negotiated a special discounted rate for event attendees at the **Element Dallas Downtown East - Marriott** and **Home2 Suites by Hilton Dallas Downtown at Baylor Scott & White**. Both are just a short 5-10 minute walk from the venue and includes free breakfast and WiFi. Reservation links are available below or on the SimGHOSTS.org SG22USA event page.

**Element Dallas Downtown East - Marriott**

Element Dallas Downtown East - Marriott is an easy walk to the conference venue and a comfortable walk to the Deep Ellum entertainment district. A free area shuttle is provided for guests. The hotel offers free breakfast, WiFi, parking, fitness center, business center, pool and a nightly reception Monday-Thursday. Rooms have a microwave, fridge, coffee maker, stove top and a dishwasher.

Room Rate starts at $129 plus 15.26% tax. [Reserve your room here.](#)

**Home2 Suites by Hilton Dallas Downtown at Baylor Scott & White**

The Home2 Suites is an easy walk to the venue. The hotel conveniences include free breakfasts, WiFi and kitchens with refrigerators and ovens. Enjoy recreational amenities such as an outdoor pool and a fitness center. Featured amenities include a business center, a 24-hour front desk, and laundry facilities.

Room Rate starts at $139 plus 15.26% tax. [Reserve your room here.](#)
Opening Reception

Making Connections
Interprofessional Networking Event

Wednesday, 6:30 pm
Element Dallas Downtown East - Marriott

Make sure to register. You don't want to miss out on the fun!
FROM DALLAS LOVE FIELD (DAL)/ DALLAS/FT WORTH INTL AIRPORT (DFW) TO HOTEL

The **closest airport to both the hotel and venue is the Dallas Love Field (DAL)** which is 6.1 miles away, alternatively Dallas/Fort Worth International Airport (DFW) is 22.8 miles from the hotels and venue. As flights may be delayed by weather, please consider arriving a day early so that you don’t miss out on any event content.

**By Rental Car:** Numerous rental car companies operate at DAL. Each has a counter in the hallway leading to baggage claim, as well as shuttles that pick up and drop off customers on the transportation lower level. At DFW, follow the Rental Car signs to the designated pick-up area on the lower level of the terminal. From there, board the Rental Car shuttle bus. Buses run 24 hours a day, depart every 10-15 minutes and reach the Rental Car Center in approximately 10 minutes.

**Airport-to-Hotel Shuttle Service:** The hotels do not provide their own shuttle service however SuperShuttle will provide transport between DAL or DFW and the hotels. For prices and reservations go to www.supershuttle.com

**Taxi/Rideshare:** At DAL taxis are located on the transportation lower level, directly across from the terminal ramp. Passengers must cross the street toward Parking Garage A to reach the taxi stand. Rideshare pick up location is on the the lower level downstairs from the Baggage Claim area. At DFW, Shared-Ride providers are located at the lower level curbside of each terminal.

**BETWEEN HOTELS AND LHSON**

**Walk:** It is just a short and flat 10 minute walk from the hotel to the conference location. A map is provided in the event app.

**Shuttles:** If you are not able to walk between the hotel and venue a limited shuttle service is available. The Element Hotel has a free area shuttle that can be used by hotel guests for transport between the venue and hotel and to the nearby Deep Ellum entertainment district. Bookings may be required.

**Driving:** The two LHSON locations are located approximately .4 miles away from the hotels, which translates to about a 2 minute drive depending on traffic. Parking is available near the venue.
You can learn how to harness the power of simulation technology to create awesome learning experiences when you join SimGHOSTS. **You’ll get exclusive access to training, resources, career support, mentorship and a network of likeminded peers.**

During registration you will have the option to join or renew a **12 month subscription to SimGHOSTS for just $67.50 - a 10% discount!** Subscribers also get a $50 discount on their registration fee so you save a total of $62.50 by bundling!

An annual SimGHOSTS.org website subscription provides significant benefits for you and your simulation team:

- **Video Library** - Over 200 recorded sessions from previous SimGHOSTS events are immediately available to watch. Topics range from AV system design to daily utilization increases and from manikin programming to moulage creations. Instantly learn from global experts and leading vendors!

- **Online Training Programs** - Subscribers have exclusive access to our online training courses covering a range of simulation technology & operational topics as well as core career and employability skills.

- **Professional Support** - Join the SimGHOSTS Mentorship program as a mentor or mentee and benefit from a personalized matching process, structured guide and free training. If you prefer to learn from peers in a less structured format you can make the most of the SimGHOSTS discussion forums and social media communities.

- **SimGHOSTS Career Center** - Upload your resume, set up job alerts and get free advice from a HR coach.

- **Digital Resources** - Download templates, samples, policy and procedure guides, job descriptions, standard operating procedures, promotional materials and more.

- **Bonus Discounts** - Access free or discounted job postings, discounted membership to affiliate organizations and access CHSOS Certification testing at SSH Member rates.

**Take advantage of the discount and join the SimGHOSTS Community today!**
Network Services

Connect all your simulation equipment securely to one dedicated simulation network

Future-proof your network setup and simulate without connectivity limitations. Laerdal’s Network Services will support you through the migration of your simulation equipment onto a dedicated enterprise network, resulting in enhanced operational efficiency and a seamless simulation experience. Connection to a dedicated network will allow you to:

- Run stable, mobile simulation sessions
- Easily keep equipment up to date with the latest software and security updates
- Access on-the-spot remote support from Laerdal
- Secure your future access to Laerdal’s ecosystem of online solutions

Learn more and get started at Laerdal.com/network

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Visit Laerdal.com for more information.
With its off-the-shelf VR solutions, MedVR Ed aims to provide healthcare professionals with the much-needed practice and experience required to help them execute their duties with confidence and finesse. All simulations on the MedVR Ed platform provide zero-risk and stress-free training environments where learners get to practice with virtual patients using physics-based interactions.

Using its very own 3D pipeline, a real-world replica is created to render photorealistic and fully customizable environments that compatible with mobile VR headsets and without the need of a gaming computer. With over 200 procedures and scenarios, the journey has just begun. Come and experience a new world of healthcare simulation training with MedVR Education.
At Nasco Healthcare, our mission is to prepare frontline healthcare workers to be ready to deliver optimal patient outcomes, whenever and wherever they are called. We deliver medical simulation solutions that enable our everyday heroes to be at their best, the moment they are called upon. Every Nasco Healthcare product is reliable, hyper-realistic, 100% hand-made in the USA, compliant to healthcare regulations and covered by up to a 5-year warranty. Plus, easily upgradeable and replaceable parts mean you can have a Nasco Healthcare product for life.
**PCS** is a technology driven healthcare simulation company founded in 2015 by healthcare simulation industry veterans with over 100 years of combined experience. Leveraging the latest in artificial intelligence and machine learning, PCS delivers best-in-class conversational AI to healthcare students across its product portfolio. With PCS Spark, students are able to engage with virtual simulated patients on-screen, or in virtual reality from practically any location on the globe.

**Paradigm Medical Systems** is proud to be a Women Owned Small Business supporting advancements in women’s health for over 35 years. Visit Paradigm’s booth to experience how our collection of user-friendly and low-maintenance obstetric simulators offers unparalleled levels of realism, improving outcomes for educators and patients alike.

Specialists in realistic OB/GYN and childbirth simulation. Designed with anatomical accuracy and constructed using proprietary materials to faithfully recreate human anatomy, our task trainers produce the most realistic tactile experience possible for an array of women’s health simulations (low-volume high-risk obstetric emergencies, instrumental delivery, pelvic exams, obstetric assessments, and more). **Paradigm Medical Systems** is proud to be a Women Owned Small Business supporting advancements in women’s health for over 35 years. Visit Paradigm’s booth to experience how our collection of user-friendly and low-maintenance obstetric simulators offers unparalleled levels of realism, improving outcomes for educators and patients alike.
Are your students REALLY getting enough med pass practice?

sim2grow's total medication administration solution takes students through the entire medication administration process and highlights each critical element along the way— from the med room where the student prepares the medication to the bedside where they confirm one last time that all checks are correct. It even includes the opportunity to document relevant clinical patient information related to the medication being administered. Once a student finishes and taps 'done', the system software automatically resets and is ready to be handed off for the next student to start. There is no complicated, confusing or time-consuming upkeep.

Teaching Nursing Students med pass is too important to not get right. Students deserve unlimited practice because nurses should NEVER feel unprepared when they administer medication.
Pocket Nurse® is a leading manufacturer and distributor of medical supplies and equipment for simulation and healthcare education. A nurse-owned-and-operated company, Pocket Nurse has been a trusted partner in nursing, EMS, pharmacy, and allied healthcare education since 1992.

Shop Pocket Nurse’s popular Demo Dose® line, PPE supplies, diagnostic equipment and more.
## SCHEDULE AT A GLANCE

### August 2nd - Tuesday, Pre-Conference Day

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Registration Opens</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Morning Pre-conference Workshops (includes break)</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Lunch (for Full-day attendees)</td>
</tr>
<tr>
<td>12:45 PM</td>
<td>Afternoon Pre-conference Workshops (includes break)</td>
</tr>
</tbody>
</table>

### August 3rd - Wednesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM</td>
<td>Registration Opens</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Welcome and Official Opening</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Keynote Presentation</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Morning Break</td>
</tr>
<tr>
<td>11:40 AM</td>
<td>Block A Sessions (6 options)</td>
</tr>
<tr>
<td>12:45 PM</td>
<td>Block B Sessions (6 options)</td>
</tr>
<tr>
<td>1:35 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>2:35 PM</td>
<td>Plenary Presentation</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>4:10 PM</td>
<td>Block C Sessions (5 options)</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Close</td>
</tr>
<tr>
<td>6:30 PM</td>
<td>Opening Reception</td>
</tr>
</tbody>
</table>

### August 4th - Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45 AM</td>
<td>Doors Open</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>Announcements</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Block D Sessions (6 options)</td>
</tr>
<tr>
<td>10:50 AM</td>
<td>Morning Break</td>
</tr>
<tr>
<td>11:30 PM</td>
<td>Block E Sessions (5 options)</td>
</tr>
<tr>
<td>1:10 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>2:10 PM</td>
<td>Plenary Presentation</td>
</tr>
<tr>
<td>3:25 PM</td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Block F Sessions (6 options)</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Close</td>
</tr>
</tbody>
</table>

### August 5th - Friday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15 AM</td>
<td>Announcements</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Plenary Presentation</td>
</tr>
<tr>
<td>10:35 AM</td>
<td>Block G Sessions (6 options)</td>
</tr>
<tr>
<td>11:40 AM</td>
<td>Block H Sessions (5 options)</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Closing Ceremony</td>
</tr>
</tbody>
</table>

SimGHOSTS.ORG  #SG22USA
SESSIONS AT A GLANCE

Program Session Key

AV/IT Technology
Simulation Education Methodology & Debriefing
Simulation Technology
Operations & Management
Serious Games, XR, AR and VR
Moulage & Fabrication
Clinical
Professional Development
# Sessions at a Glance

**August 2nd Tuesday, Pre-Conference Day**

### Morning Sessions: 9:00 am - 12:30 pm

<table>
<thead>
<tr>
<th>Moulage &amp; Fabrication</th>
<th>Simulation Technology</th>
<th>Professional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Moulage Techniques Course (half-day) - $250</td>
<td>Increase Your Efficiency and Reliability with Planned Scenario Programming - $75</td>
<td>Academic Writing and How To Do It &amp; Expert Case-review Techniques to Help Educators and Yourself - FREE</td>
</tr>
</tbody>
</table>

### Afternoon Sessions: 12:45 - 3:30 pm

<table>
<thead>
<tr>
<th>Moulage &amp; Fabrication</th>
<th>Simulation Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Moulage Techniques Course (half day) - $300</td>
<td>Preventative Maintenance Checklist. Perform system checks, upgrades and repairs for most major brands - $75</td>
</tr>
</tbody>
</table>

**August 3rd Wednesday**

### Block A Sessions: 11:40 am - 12:30 pm

<table>
<thead>
<tr>
<th>Operations &amp; Management</th>
<th>Simulation Education Methodology &amp; Debriefing</th>
<th>Simulation Technology</th>
<th>AV/IT Technology</th>
<th>Simulation Education Methodology &amp; Debriefing</th>
<th>Simulation Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/7 Simulation: Breaking down barriers to experiential learning</td>
<td>UTSW High Reliability Team - Setting our Team’s up for Success</td>
<td>Why Realism Counts</td>
<td>Making the Connection - Managing AV signals for the Non IT/AV Simulation Operations Specialist</td>
<td>Collaborative Organization 101 Creating a Comprehensive ‘SimPlanner’</td>
<td>How to Ensure Optimal Simulation Performance • Top SimPad Tips &amp; Tricks</td>
</tr>
</tbody>
</table>

### Block B Sessions: 12:45 - 1:35 pm

<table>
<thead>
<tr>
<th>Simulation Technology</th>
<th>Moulage &amp; Fabrication</th>
<th>Operations &amp; Management</th>
<th>Simulation Education Methodology &amp; Debriefing</th>
<th>AV/IT Technology</th>
<th>Simulation Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Simulation: Simulation Operations Specialist Go Bag</td>
<td>Homegrown task trainers to enhance deliberate skills practice</td>
<td>The Power of Data: Operations Edition</td>
<td>Clinical simulation integration for public health</td>
<td>Using Open Source and a retired computer to create your own disk image backup system.</td>
<td>Baylor Tour</td>
</tr>
</tbody>
</table>

### Block C Sessions: 4:10 - 5:00 pm

<table>
<thead>
<tr>
<th>Moulage &amp; Fabrication</th>
<th>Simulation Technology</th>
<th>Professional Development</th>
<th>Operations &amp; Management</th>
<th>Clinical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leveling Up The Trauma Moulage</td>
<td>Workflow Automation: Integrating Data with Technology</td>
<td>Embracing Connections in Mentoring - A Panel Discussion</td>
<td>How to Encourage Administration to Hire a Sim Tech</td>
<td>Beyond “lub-dub” – Understanding Advanced EKG and Cardiac Rhythms for Clinical Practice</td>
</tr>
</tbody>
</table>
### August 4th Thursday

#### Block D Sessions: 9:45 - 10:35 am

<table>
<thead>
<tr>
<th>Simulation Education Methodology &amp; Debriefing</th>
<th>Operations &amp; Management</th>
<th>Clinical</th>
<th>Moulage &amp; Fabrication</th>
<th>Operations &amp; Management</th>
<th>Moulage &amp; Fabrication</th>
</tr>
</thead>
</table>

#### Block E Sessions: 11:30 am - 1:10 pm

<table>
<thead>
<tr>
<th>Simulation Education Methodology &amp; Debriefing</th>
<th>Operations &amp; Management</th>
<th>Moulage &amp; Fabrication</th>
<th>Operations &amp; Management</th>
<th>Simulation Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPE Presents: Case Development for SP Scenarios</td>
<td>Blueprint for Planning Building Procedural Skills Events Using Standardized Setup Templates</td>
<td>Advocating For The Role Of The SOS Through Moulage</td>
<td>Executions and Murphy's law of clinical VR open lab for healthcare simulation</td>
<td>Climbing Mt. Everest to Experience Leadership Principles</td>
</tr>
</tbody>
</table>

#### Block F Sessions: 4:00 - 4:50 pm

<table>
<thead>
<tr>
<th>Operations &amp; Management</th>
<th>Clinical</th>
<th>Simulation Technology</th>
<th>Simulation Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keeping it all together: How to manually manage inventory</td>
<td>How to use terminology to sound like a doctor including three letter acronyms (TLAs)</td>
<td>Baylor Tour</td>
<td>Get under the Hood for Effective &amp; Efficient Simulation Training</td>
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<td>Poster Presentations</td>
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<td>Poster Presentations</td>
</tr>
</tbody>
</table>

### August 5th Friday

#### Block G Sessions: 10:35 - 11:25 am

<table>
<thead>
<tr>
<th>Professional Development</th>
<th>Moulage &amp; Fabrication</th>
<th>Serious Games, XR, AR and VR</th>
<th>Simulation Education Methodology &amp; Debriefing</th>
<th>Professional Development</th>
<th>Simulation Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>How To Embrace Connections with the SimGHOSTS Mentoring Program</td>
<td>Fun with Ballistic Gel</td>
<td>MedVR Session - 25 mins Screen-Based Simulation - 25 mins</td>
<td>Affordable Escape Rooms</td>
<td>CHSOS-A Portfolio</td>
<td>Baylor Tour</td>
</tr>
</tbody>
</table>

#### Block H Sessions: 11:40 am - 12:30 pm

<table>
<thead>
<tr>
<th>Operations &amp; Management</th>
<th>Serious Games, XR, AR and VR</th>
<th>Moulage &amp; Fabrication</th>
<th>Clinical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecting the State: Learning about Simulation Professionals of Texas (SPOT)</td>
<td>Serious Gaming for Your Whole Brain: Exploring Low Budget Experiences for Learning</td>
<td>Fit the Mold: Create Precise and Reusable Molds Using 3D Printing and Modeling</td>
<td>It's Alive! – Improving Physiologic Reactions to Pharmacology Treatments</td>
</tr>
</tbody>
</table>
Pre-Conference Workshops

**Basic Moulage Techniques Course (half-day) - $250**

This is a hands-on moulage starter course for both humans and manikins. If you have never tried moulage or have been doing it for a while and could use more experience along with tips and tricks to make you more effective and efficient, there will be plenty to learn. We will be going over materials and application techniques from effective 2D makeup to some silicone sculpting basics for quick an effective wounds that will stay on all day. Manikins and task trainers have their own host of special handling and safety procedures. Bruises, cuts, scrapes, and over all sickness makeups will be some of the key lessons learned, as well as some quick and dirty burn techniques for those last minute requests.

**Learning Objectives**
- Identify moulage techniques suitable for live role players or manikins.
- Demonstrate application techniques for the fast paced world of moulage.
- Determine appropriate materials and techniques for working with manikins and task trainers.

**Advanced Moulage Techniques Course (half day) - $300**

Have you been working with moulage a while now, have the basic materials and fundamental application techniques down and are hungry for more, then this is your course to push your skills further. We will be using movie quality materials and techniques to make the hero makeup you have been wanting to learn. This is a progressive course that will build on the basic course and add on things like prosthetics, and other advanced materials like vinyl acrylic wounds, and pros aide transfers that can apply to a patient actor and will not come off even if they are in water! We will also teach you ways to make sheets of burn material that applies quickly.

**Learning Objectives**
- Review health and safety issues around use of moulage.
- Demonstrate prosthetic application techniques and possible problems with solutions
- Understand the use and benefit of advanced materials such as vinyl acrylic and PTM

**Moulage | Basic and Advanced Workshops (full day) - $450**

This is a combination of the Basic and Advanced workshops for a discounted rate. See descriptions above for the courses.

**CHSOS Readiness Review Course - (full day) $325**

Gain the confidence and knowledge you need to become a Certified Healthcare Simulation Operations Specialist (CHSOS) by attending the Society for Simulation in Healthcare’s (SSH) new CHSOS Exam Review Workshop. Led by well known, experienced simulation experts, this one-day course provides essential information on pursuing certification.

**Learning Objectives**
- Learn the components of the certification process.
- The workshop introduction will focus on exam prerequisites, the application process and the study resources available.
- Identify your exam content strengths and weaknesses. The CHSOS exam blueprint will be the basis for discussion.
- Develop your personal action plan. At the close of the workshop, instructors will help you create a step-by-step action plan that includes a timeline, a list of study tools and resources, key dates and more.
Healthcare simulation technology specialists work in many settings including hospital-based, government, and academic institutions. Regardless of the location or type of work performed these programs want to demonstrate the excellent work and education provided. In academic institutions disseminating and sharing knowledge and advancement about innovation and curriculum can even be tied to job performance and salary. This session will cover different types of academic writing from abstracts, to posters, to textbook chapters, to white papers, to journal articles, and even describe the role of private publications like blogs in demonstrating techniques and sharing knowledge. The pinnacle of academic writing is producing work that is published in peer-reviewed journals, but the techniques to succeed at this are the same ones used to produce any type of academic writing.

Learning Objectives
- Describe different types of scholarly publications and how they are perceived
- Outline the structure for a standard research abstract
- Use online resources to search and cite prior publications

Simulation cases can be written and prepared by educators at any program. Even commercial or pre-written scenarios require some degree of modification or adaptation for use at a given simulation center. Knowing how to critically review and understand the material in a case can help the healthcare simulation technology specialist best reproduce the necessary elements for learner immersion and assist educators in optimizing the simulation activity for their learners. Using a script or template can help ensure that essential elements are included, and trying to predict learner actions can help in scripting realistic and appropriate responses during an event. This session will also review basic medical care techniques in patient assessment and physical examination to increase the realism and immersion provided.

Learning Objectives
- Review common information that should be included in all simulation scenarios to allow immersive simulation interaction
- Critically appraise simulation curriculum and scenario design and discuss implementation considerations
- Provide constructive criticism and recommendations for improvement of existing simulation scenarios
Pre-Conference Workshops

**Increase Your Efficiency and Reliability with Planned Scenario Programming - $75**

Laerdal scenario programming styles vary from person-to-person and may also depend on case complexity. This workshop will provide details related to SimDesigner (Themes & Scenarios) and SimPad Theme Editor softwares. Additional topics include Phases, States, Physiological Parameters, Learner Events, Transitions, Media, Patient Monitor, plus many more.

This will be a hands-on workshop. Participants are encouraged to actively participate! Bring your computer with LLEAP SimDesigner and SimPad Theme Editor installed and ready to program.

**Learning Objectives**
- Participants will be able to provide examples why scenario design and programming is important for the healthcare simulation technology specialist.
- Participants will be able to describe 3 Laerdal programming methodologies along with benefits and pitfalls of each.
- Participants will be able to competently develop and modify Scenarios, Themes and Theme Editor files.

**Preventative Maintenance Checklist: Perform system checks, upgrades and repairs for most major brands - $75**

Simulators are an important investment in your educational program. Protect this investment by becoming proficient with routine maintenance procedures designed to keep a simulator performing at an optimal level. Participants will also learn basic troubleshooting techniques, how to resolve connectivity issues, as well as other tips and tricks.

**Learning Objectives**
- Define various types of routine maintenance.
- Learn solutions to basic functionality issues and connectivity problems.
- Describe common tips and tricks.
Ginger Kerrick is Vice President and Chief Strategy Officer for Barrios Technology in Houston, Texas. Prior to joining the Barrios executive team, Ginger served in multiple senior leadership roles at NASA’s Johnson Space Center (JSC) before retiring in 2021. Most recently, she served as the Deputy Director of the Exploration Integration and Science Directorate and JSC Assistant Center Director for Vision and Strategy. She spent the majority of her 30-year NASA career supporting JSC’s Flight Operations Directorate (FOD) in leadership roles, including Assistant Director for International Space Station (ISS), Flight Integration Division Chief, and Flight Director (the first female Hispanic Flight Director). Early in her career she was NASA’s first Russian Training Integration Instructor as well as being selected as the first non-astronaut Capsule Communicator (CAPCOM).

Ginger received a Bachelor of Science in physics in 1991 and a Master of Science in physics in 1993 from Texas Tech University. In 2019, she was appointed by Governor Abbott to the Board of Regents of the Texas Tech University System. She currently serves as the chairwoman of the Academic, Clinical and Student Affairs Committee.

Ginger was born in El Paso, Texas. Ginger and her husband, Sam Davis, were married in March 2021. In her personal time, Ginger is an avid runner, decorates cakes, and supports several Houston area dog rescues. She is also a huge fan of Snoopy and was proud to play a role in the TV Short Film, Peanuts in Space: Secrets of Apollo 10.
NetworkZ is a simulation team-training program provided nationally within all New Zealand public hospitals. The training is conducted for multidisciplinary teams in the Operating Room (OR), Emergency Department (ED), and Post Anaesthetic Recovery Unit (PACU) in the management of emergencies, trauma, and resuscitation. It has been running for 6 years with over 3000 participants completing the training. NetworkZ places emphasis on the importance of realism in the in situ simulation by using functional models, blood pumps, and blood products. In turn, this promotes buy-in from participants and maximizes learning. The in situ simulations provide an environment in which participant buy-in is improved, as local staff are not hindered by the artifacts of a simulation environment. This is accompanied by locally made high-functioning models that are applied to the Laerdal SimMan® 3G. The MedicFX silicone models can be transported, positioned, bleed, and be operated on. Bespoke blood pumps are used in conjunction with the models to further enhance the participant experience.

Learning Objectives:
- Describe technical components of NetworkZ simulation
- Explain the rationale for in situ simulation
- Describe the rationale for using functional models and blood pumps

Why Realism Counts - Emma Hauck

A large proportion of simulation environments operate on the standard 7am to 5pm Monday through Friday business model. Healthcare operates on a more robust schedule, and therefore its employees and simulation users are often left with nowhere to practice procedural skills off hours. This presentation will introduce the Procedural Skills Mastery Lab built at the Mayo Clinic campus in Rochester Minnesota. This 5000 sq foot brand new ‘state of the art’ space is built around a self-service 24/7 model. This multidisciplinary lab hosts both traditional based simulation models as well as cadaveric tissue. Thoughtful planning went into designing the space with the idea of removing barriers for proceduralists and healthcare providers so that they can master their skills in an environment that flexes to meet their needs both in physical space and time availability. This presentation will cover the creation and design of the space, as well as operational aspects of handling cadaveric tissue and managing a space that is operational 24/7 with limited staff and resources. Attendees will leave with a better understanding of barriers in education as well as innovative and creative ways to remove those barriers for their learners. Innovations and technology covered include: 3d printing, Vending Machines for vending task trainers/supplies, RFID tracking, automated orientation, and more!

Learning Objectives
- Determine if a 24/7 space is appropriate for their learners, or environment.
- Identify two barriers (time restricted, location of Sim Center, or otherwise) in their simulation environment.
- Identify one new creative/innovative way of removing a barrier in their simulation environment.

Why Realism Counts - Emma Hauck
Session A: 11:40 am - 12:30 pm

Making the Connection – Managing AV signals for the Non IT/AV Simulation Operations Specialist - Ron Repasy

As I have visited different simulation labs, I found that simulation users did not realize some of the capabilities of the equipment that is available. For example, being able to connect an ultrasound machine to a large display or projector, or splitting the vitals display signal from your instructor PC to multiple locations. What happens when an instructor shows up with their laptop, and you are not able to get it to project in your classroom, or it has a connection on it that does not match what you have? Together, we will cover the basic concepts of Audio-Visual equipment and terminology. Managing different types of audio/video signals. Interconnecting various types of audio-visual and medical equipment. Working with monitor resolutions and configurations. Setting up a basic digital signage system to display daily events and photos. Followed by an open discussion.

Learning Objectives
- Discuss common AV equipment and terminology.
- Identify common connectors and when they are used.
- Learn how to manage and integrate different types of signals.

How to Ensure Optimal Simulation Performance + Top SimPad Tips & Tricks - Edward Carter, Network Implementation Specialist, Laerdal Medical

Be ready for the future of simulation and gain immediate benefits by learning how connecting all your simulation equipment (Laerdal or non-Laerdal products) securely to one dedicated network can result in enhanced operational efficiency and a seamless simulation experience. PLUS we will give you Laerdal’s tips, tricks and troubleshooting methods for using SimPad!

Learning Objectives
- Participants will learn different network setup options, identify common connectors and when they are used.
- Learn insight into why a dedicated online network is critical to your simulation lab performance, including how you’ll get the data insights in the future.
- Learn top SimPad tips and troubleshooting tricks.

Collaborative Organization 101: Creating a Comprehensive ‘SimPlanner’ - Lauren O’Neill & Chris Mendez

Staying organized while planning simulation events can be a struggle, especially with multiple collaborators. This interactive workshop will introduce the ‘SimPlanner’ organizational tool. Learners will analyze a folder of pre-simulation information, identify crucial elements, and construct a comprehensive organizational document. Each learner will leave with a solid understanding of the process of creating an effective SimPlanner.

Learning Objectives
- Outline the core components and benefits of creating standardized SimPlanners for simulation scenarios.
- Experiment with the functionality of example SimPlanners.
- Create a draft needs assessment for SimPlanners at Simulation Operation Specialist’s own institution.

Learning Objectives
- Participants will learn different network setup options, identify common connectors and when they are used.
- Learn insight into why a dedicated online network is critical to your simulation lab performance, including how you’ll get the data insights in the future.
- Learn top SimPad tips and troubleshooting tricks.
Clinical Simulation Integration for Public Health - Yixing Chen, Paul Rega & Brian Fink

Public Health is a healthcare field that has often been overlooked in the clinical training setting. With the emergence of the SARS-CoV2 pandemic, a new spotlight has been focused on the education of public health, as many programs see a surge in applicants. The University of Toledo Department of Public Health and Department of Emergency Medicine, with the Interprofessional Immersive Simulation Center, has strived to embrace clinical simulation for Public Health learners to better improve the human condition. Even though many of the clinical skills are outside the scope of practice for the public health profession, the knowledge and understanding of the equipment and resources necessary will help public health better manage clinical environments and staffing. Examples of simulation scenarios regarding global health, occupational health, social health, epidemiology, and med surg are being exposed to public health learners. Due to the non-clinical pathway of clinical thinking, many public health learners demonstrate wider differentials compared to those of clinical background and could provide a crucial role in traditional interprofessional healthcare teams.

Learning Objectives
- Learning the need for clinical simulation and clinical skills for public health education
- Simulation scenarios designed with public health objectives
- Discussion of the role for public health learners in interprofessional clinical education


This course will discuss the value of tracking and recoding simulation evaluation data and one hospital-based simulation Program’s development of an evaluation system. REDCap is designed to collect, integrate, analyze, and share health data in a standards-based way essentially for research purposes. However, it is a very effective tool for evaluations and processes, allowing the user to create a variety of projects including surveys to gather data specific to simulation operations.

Learning Objectives
- Discuss the rationale for and the benefits of implementing an evaluation system for simulation sessions.
- Give examples of appropriate operational questions to include in an evaluation survey.
- List changes, if any, that they will incorporate into their own simulation process.

Session B: 12:45 pm - 1:35 pm

Mobile Simulation: Simulation Operations Specialist Go Bag - Matthew McMullen & Lauren Young

With the development and growth of our center’s mobile simulation program came the need to centralize our process, the equipment we used and how to replicate what we used in the lab into the in situ arena as well. We will discuss the planning an implementation of this program and how we standardized equipment and resources to allow us to run for separate simulations simultaneously, whether in the lab or mobile. We will feature elements of our Control Room in a Bag which allows us to run a simulation utilizing the same equipment we use in our brick and mortar lab. Following a short presentation, we will demonstrate how we utilize the system we designed in an in situ setting.

Learning Objectives
- Performing a needs assessment
- The impact of standardizing workflow
- Providing a worked example of Mobile simulation go bag

Homegrown Task Trainers to Enhance Deliberate Skills Practice - Kristen Whipple

Studies have shown that the development of skills is critical for entry to practice and one method shown to increase skills retention is deliberate skills practice with opportunity to reach mastery. Using a high-fidelity manikin for deliberate skills practice may limit student access to practice time; however, the implementation of homegrown, low cost, low fidelity skills trainers will enhance opportunity for practice and ultimately mastery. Simulation technicians are uniquely prepared to meet the challenge to improve simulation and skills practice as well as saving money by creating homegrown, low-cost simulators and task trainers. This workshop will introduce participants to several homegrown solutions that are low to no cost to produce. Organizations can use these tools in place of high-fidelity simulators to decrease wear and tear and to enhance skills training. In addition, we will brainstorm how to adapt many of the concepts to meet other learning needs and determine where a homegrown solution might help in any program.

Learning Objectives
- Identify the supplies needed to create low fidelity solutions that can be used to facilitate deliberate skills practice.
- Identify areas where a low cost, low fidelity, home grown solution would improve or enhance the delivery of simulation or skills development in the programs they serve.
- Participants will be able to create any of the inexpensive, low fidelity solutions discussed in their learning environment.
Using Open Source and a Retired Computer to Create Your Own Disk Image Backup System - Donovan Rojas

In this workshop/session we will learn how to make use of Open-Source Software tools, repurpose an almost obsolete computer and investing in only a simple wireless/wired router and an external storage disk to deploy your own hard drive backup that might allow you to bring a system back in less than 4 hours, while you wait for the hard disk replacement from your vendor.

**Learning Objectives**
- Identify equipment that require to be restored to a full operational mode in a short time
- Setup a hard disk imaging system to generate disk image backups
- Define a procedure for both backing up and restoring disk images to computers

Baylor University Clinical Simulation Tour

Are you being tasked with designing a simulation lab from an existing space? Do you struggle to create a realistic clinical environment inside a building constructed for a different purpose? There are no points for pretty when it comes to creating an effective milieu for simulation. Function trumps form every time. Tour the Baylor University Clinical Simulation Building and see how an academic center erected in 1977 – think classrooms, faculty offices, library, and dean suite – is being transformed into a burgeoning simulation center. The tour highlights LHSON Simulation’s growth from 2,500 to 25,000 square feet. The expansion started in the summer of 2018 when the new Academic Building opened, leaving the school of nursing’s simulation labs to expand from three rooms to three floors. The offices of student services became a pediatric sim suite; a birthing suite and an operating room were created from classroom space; the dean’s suite is being reconfigured into a 10-room outpatient suite for standardized patient encounters and the library became a physical therapy suite. Participants will be challenged to think outside the box and will come away with ideas for repurposing existing spaces for high-quality simulation-based education. Classrooms and faculty offices don’t necessarily lend themselves to simulation and the age of the building presents its own obstacles, but the LHSON Sim Team accepted the challenge and constructed a functional simulation center with areas for future growth identified. Join us for a tour of the Clinical Simulation Building and get your creative juices flowing.
Jeffrey Stout is a Simulations Operations Specialist at the University of South Florida who has a strong passion for the field of simulation, consulting with peers and growing his knowledge and skill set. He has worked in healthcare/public safety for close to 10 years before transitioning into the Simulation world. Through his experience he has learned that he loves medical education.

When he transitioned into a career in medical simulation, he realized he had a lot to learn. He dove straight into learning the exciting new world he was exposed to, and that drive continues to this day. While working for University of Michigan Medical School and Washtenaw Community college school of Nursing both institutions invested in his career development and field expertise. At U of M the course curriculum involved a large amount of high fidelity and haptic trainers. The School of Nursing at Washtenaw allowed him to participate in another medical field with a vastly different training focus. The main goal was to assist the nurses in being successful at passing the NCLEX, and how to streamline the simulations to meet the needs and objectives of that goal. This in return has made him a well-rounded expert in the field. Jeff will share his Healthcare Simulation journey and how he was able to navigate some of the roadblocks in the field.
Session C: 4:10 pm - 5:00 pm

**Embracing Connections in Mentoring - A Panel Discussion - Billie Paschal & Nick Brauer**

Members of our community have arrived here through various paths. SimGHOSTS is the world’s only organization dedicated to supporting simulation operations; it seems only fitting that we offer a personalized way to do so. SimGHOSTS mentoring program began in 2019. The panel will be made of mentors and mentees from previous cohorts. Join us to ask questions and hear how embracing mentoring has and will continue to connect our community.

**Learning Objectives**
- Describe the impact that mentoring has had on members.
- Relate how mentoring can assist in professional development.
- Inspire members to join the mentorship program as a mentor or mentees.

**Leveling Up The Trauma Moulage - In-Conference Workshop - $75 (registration required) - Zak Wade**

Those who attend this session will be able to visualize and experience firsthand, the physical steps that may be required when creating a more complex moulage project. Moulage in medical simulation is such an important aspect to achieving realism and promoting engagement and belief. The more we push ourselves and strive for levels upon levels of realism, the more our colleagues and learners will thrive in their professional environments. Come watch, learn, engage, and ask questions as we go through a few step-by-step processes regarding advanced skills and techniques. This demo is directed towards either beginners in moulage or those who are more advanced. All are welcome and I look forward to learning from you as well.

**Workflow Automation: Integrating Data with Technology - Gavin Lehmann**

Growth and development within a prosperous organization is expected, and its advantages are seldom untapped. There are countless opportunities for development, improvement, and expansion in the world of healthcare simulation. However, when growth is impending and foreseen, implementing measures of efficiency to prepare for this cannot be delayed. When faced with the task of doing so, our institution conducted a process overhaul with a collective objective: to use technology and programming to optimize facility workflow, to use technology and programming to improve fidelity within a simulated event, and to transform our methods of accrediting data collection. This presentation will serve as an informative discussion about this process overhaul and its operational advantages.

**Learning Objectives**
- Explain and discuss the importance of effectively using available resources to enhance the productivity of an instructional institution.
- Identify any areas, however minor, that improvement to which would positively impact operational efficiency and product quality..
- Formulate and execute a plan of action wherein provisional modifications are made, tested, and continuously reevaluated.

**How to Encourage Administration to Hire a Sim Tech - Lance Baily**

Are you a clinical educator tasked with running the simulation technology at your healthcare institution, or are you a part-time technical staff support person looking for more support from program administrators? Are you tasked with expanding the use of simulation but not getting the support you need to demonstrate true ROI? Want to know the secret to increasing technical staff support for your simulation program? This presentation will explain how one Simulation Administrator was able to double staff with little additional costs while improving ROI outcomes! Presenter Lance Baily, former Director of the Nevada System of Higher Education’s Clinical Simulation Center of Las Vegas has provided this highly praised presentation at healthcare simulation conferences around the world to help simulation champions better understand how to increase the simulation technology specialist team at their simulation programs. As a previous Sim Tech, Simulation Program Director, and Founder of the World’s leading Sim Tech Organization SimGHOSTS, Lance certainly has the background and experience necessary to help you increase your simulation technical team!

**Learning Objectives**
- Explore the Reason Why Sim Techs are an often misunderstood but crucial part of your simulation program success
- Learn how to think from your administrator’s perspective to gain support for new program initiatives.
- Identify ways to professionally develop Simulation Techs

**SimGHOSTS.ORG #SG22USA**
Real-time cardiac monitoring and display during simulated manikin-based activities is an integral component of many simulated scenarios. During simulated emergency scenarios particularly, the display of advanced cardiac rhythms is often a key of not the key feature of the scenario. During this session we will discuss advanced cardiac rhythms, how these play a role in patient assessment and management, and the evolution of these rhythms depending on learner interventions.

**Learning Objectives**
- Recall what a normal cardiac rhythm looks like
- Identify advanced cardiac rhythms
- Discuss the role of using advanced cardiac rhythms during simulated manikin-based activities
Credentialing: 10+ years in Healthcare Sim--and Counting! - Andrew Spain

Credentialing in healthcare simulation is an important piece of organizational and individual excellence. Accreditation, certification, certificate courses, degrees and others are now essential to our practice. This includes the SSH Certifications, first launched in June 2012 with the CHSE exam, and now grown to include CHSOS and the two advanced certifications for each. These certifications are held by thousands of healthcare simulationists worldwide. This presentation will explore the various credentials with a spotlight on the path of development, delivery, and integration with healthcare simulation practices for the certifications, and the benchmarking to quality credentialing practices that led to becoming accredited by the NCCA. In addition, the presentation will include an investigation of the importance of certification and its role in professional development and recognition of healthcare simulationists.

Learning Objectives
- Compare and contrast various credentials and credentialing concepts in healthcare simulation
- Describe the development and evolution of the SSH certifications
- Summarize the core quality principles that support the accreditation of the certifications

Understanding Your Novice Simulation Technician: A Competency-Based Orientation - Merona Hollingsworth, Branden Ford, Steven Caldwell, Shenelle Alleyene

Novice simulation technicians are expected to be competent in their core responsibilities in a short amount of time. Without structured competency-based training, many sim techs are not getting a proper foundation to prepare them for their role. This presentation will review the tools for baseline assessment of a novice technician and introduce various tools in the implementation of orientation. This panel will take a in depth look at assessing andragogy and its application to Certified Healthcare Simulation Operations Specialist (CHSOS) accreditation standards.

Learning Objectives
- Determine andragogy for novice technicians
- Utilizing CHSOS Examination Blueprint in development of technician orientation
- Implement adult learning theories within technician orientation and development

The Good, The Bad, The Ugly of Scheduling in Simulation - Billie Paschal & Matt Charnetski

Some situations in simulation are Good, Bad, and Ugly. The International Nursing Association for Clinical Simulation and Learning (INACSL) created the Healthcare Simulation Standards of Best Practice (HSSOBP) for our industry to assist in handling them. The standard that is “ours” is Operations. An example problem common in many simulation programs will be given. We will analyze the situation and use the appropriate criterion to make decisions that are in the best interest of everyone. We will utilize problem-based learning to demonstrate ways to deal with the struggles of scheduling decisions based on space available, prioritization, and equipment needed. We will discuss the importance of policies to support decisions and reduce scheduling conflicts. Implement a checklist on determining ways to decide what program or learner group takes priority if completing programs exists. Show the importance of selecting the appropriate modality for meeting those needs. Empower the simulation technology specialist with ways to handle conflicts in these typical simulation workplace problems.

Learning Objectives
- Analyze the best practice standards criterion.
- Construct policies that could assist in their home programs.
- Demonstrate how to handle these sometimes awkward situations.

It’s Alive…! – Improving Physiologic Reactions to Pharmacology Treatments - Dr. Gregory Patek

Manikin-based simulation activities require careful attention to learner actions and communication to provide realistic physiologic responses to learner-initiated interventions. Everything from oxygen administration to pain, cardiovascular and respiratory medications can cause an expected physiologic response (vital signs, cardiac rhythms, etc.) in the simulated patient. This session will allow the learner to work through case-based scenarios with different pharmacologic interventions to learn more about the expected effects of different medications commonly used during simulated patient care scenarios.

Learning Objectives
- Describe the normal ranges for the primary vital signs
- Discuss general classes of medications and their expected effects
- Conduct scenarios that produce realistic physiologic response to common medications
Using Fungus for Moulage - Daniel Guzman

This presentation will discuss using mycelium, the root system of fungus and SCOBY, an acronym for 'symbiotic culture of bacteria and yeast' as alternatives to using chemicals, like silicone (part a and part b), for moulage and creating things.

Learning Objectives
- Learn about mycelium.
- Learn how to grow mycelium and process it.
- Learn how to use it to create things for moulage and fabrication.

Back to basics: Moulage for the new specialist - Steve Lichtenberg

Moulage is a big part of bringing a scenario to life. It enhances the learner’s cognitive understanding of the topic and helps them buy into the realism of the scenario. Using the learning objectives as a base, moulage application will further learners evoke the emotional response that makes the learner more ready to learn. This course will give you the tools to allow for that.

Learning Objectives
- Discuss different materials for moulage application
- Demonstrate techniques and methods for injuries, illnesses and other medical conditions.
- Using the methods taught in the class, build believable moulage for class presentation. Discuss methods and materials

Simulation Technician - the Connection - Hector Aranda

This presentation will explain the need and importance of having a Simulation Technician in order to run an effective Simulation Center. A brief overview will be given on the qualifications, essential duties and responsibilities of technical support personnel and its benefits. The presentation will also cover how this position can be the key to collaborating with faculty and the information technology department.

Learning Objectives
- Discuss the qualifications, essential duties and responsibilities of a simulation technician
- Describe the benefits of a technical support staff
- Collaborating with Faculty and be the liaison between Institutes Information Technology and Simulation Center
ASPE Presents: Case Development for SP Scenarios - Robert MacAulay

This workshop will present a team-based method for developing standardized/simulated patient cases, and assist the participants to be aware of common case development flaws that impact standardization and reliability. Discussion/overview: Case development is the foundation of good simulated/standardized patient (SP) training and reliable summative assessments. Cases should provide SP Educators with the necessary information to standardize performance across SPs and learners. While it may be tempting to develop a case independently (or to borrow one from a listerv), cases benefit from input from all stakeholders; the faculty, SPEs, SPs, and learners. Following a template ensures uniformity and completeness. The difference between formative activities and high stakes assessment is the degree of standardization to increase the reliability of the scores and the inferences made from those scores. Use of a template increases the standardization of case materials, and the Association of SP Educators’ (ASPE) template provides a foundation for case development. Conclusion/Relevance/Impact: A team-based approach to case development involves faculty, SP Educators, and SPs working together to produce standardized cases. Research shows that teams produce better results than individuals, and this has been the experience of the physician licensure entities in North America.

Learning Objectives
- Learn about mycelium.
- Learn how to grow mycelium and process it.
- Learn how to use it to create things for moulage and fabrication.

Advocating For The Role Of The SOS Through Moulage - Brian Hanlon & Kati Maxkenzie

This workshop dives into how to advocate for the role of the SOS by teaching the art of moulage to high school students interested in healthcare careers. The presentation will discuss and describe strategies and tools for teaching our target audience to showcase the SOS as a career path. The course will highlight and include a follow-a-long demonstration of 4-5 frequently utilized moulage techniques and applications incorporated into the curriculum.

Learning Objectives
- Describe how to advocate for the role of the SOS to high school students through the use of moulage techniques
- Illustrate strategies and tools for teaching high school students
- Participants will practice 4-5 different moulage techniques

Blueprint for Planning: Building Procedural Skills Events Using Standardized Setup Templates - Preston Phillips & Colton Crook

Procedural skills training is an essential tool for learning within the healthcare simulation community that gives learners the ability to practice in a low-risk environment and receive timely feedback. However, for a technician and educator, planning for these events can often be a difficult process. In this workshop we will discuss tools and strategies that make planning and setting up for a procedural event an easier and more organized process with the use of standardized planning templates.

Learning Objectives
- Understand the importance of using standardized setup templates to plan and build procedural training events.
- Recognize the effectiveness of using diagrams, pictures and charts within the standard documents.
- Discuss the rationale for using inventory lists and supply carts for pre-planning and preparation.
As virtual reality (VR) hardware prices become more affordable and VR software content becomes more abundant, the efficacy for large VR simulation labs for healthcare learners becomes more feasible. At The University of Toledo Interprofessional Immersive Simulation Center, the VR lab is designed to help provide standardized performance tracking VR simulation that give the learner a consistent patient presentation or skill interaction. VR gives the opportunity for simulation centers to provide edutainment with almost no resources, simulation equipment, consumables, and staff necessary. In this presentation, we will discuss the planning, logistics, and challenges contributed to the successful execution of a successful VR open lab. Both hardware and software deliverables will be examined. Traditional simulation training vs VR simulation training will be compared. We will also look ahead and try to forecast the needs to better adapt the ever changing innovation of VR technology. Obsolescence prevention could be a costly issue if not prepared for. VR technology is here and staying. It is necessary for healthcare simulation to embrace and adapt to this shift of healthcare education. By following the process provided, simulation centers can develop their own program that custom fits their healthcare simulation and education needs.

Learning Objectives
- Overview of the planning and logistical steps for initiating and running a VR lab
- Discuss the unforeseen challenges and possible solutions to maintain operation
- Navigating the needs of the VR lab in the future to keep operation successful

Climbing Mt. Everest to Experience Leadership Principles - Suzan Kardong-Edgren & Michelle Aebersold

This immersive exercise engages participants as if they were the team leaders and members of a group climbing Mount Everest. Each team member receives a persona card of an actual Mt. Everest expedition member from the summer of 1996. Each team must make complex decisions when critical information is shared unevenly among the team members. Challenges that arise can include weather, equipment, timing, and deteriorating health. To achieve a high level of immersion and engagement among participants, storytelling will be used to set the stage. Debriefing will focus on team behaviors, communication, team leader behaviors, and decision-making, including how the group dealt with the challenges that occurred during the climb.

Learning Objectives
- Experience the use of storytelling and re-enactment to analyze crisis leadership and non-technical skills in an unfamiliar environment.
- Analyze how crisis leadership and non-technical skills impacted the expedition and how a re-enactment experience can be applied to participants’ work settings
- Experience the use of storytelling and re-enactment to teach crisis leadership and non-technical skill principles.
Session F: 4:00 pm - 4:50 pm

Keeping It All Together: How to Manually Manage Inventory - Jacquelyn Donaldson & Erica Hinojosa

The College of Nursing and Health Innovation’s Smart Hospital is a large volume, academic simulation center that has been operating since 2007. We currently function out of two locations with 3 main supply rooms, 4 storage areas, and over 900 pieces of patient simulators, task trainers, equipment, and supplies. We manage all our inventory manually using excel spreadsheets, space allocations, and with a dedicated Inventory Specialist.

Learning Objectives
- Discuss and outline our inventory process
- Identify challenges with managing inventory manually
- Converse on how other sim centers manage inventory

Baylor University Clinical Simulation Tour

Are you being tasked with designing a simulation lab from an existing space? Do you struggle to create a realistic clinical environment inside a building constructed for a different purpose? There are no points for pretty when it comes to creating an effective milieu for simulation. Function trumps form every time.

Tour the Baylor University Clinical Simulation Building and see how an academic center erected in 1977 – think classrooms, faculty offices, library, and dean suite – is being transformed into a burgeoning simulation center. The tour highlights LHSON Simulation’s growth from 2,500 to 25,000 square feet. The expansion started in the summer of 2018 when the new Academic Building opened, leaving the school of nursing’s simulation labs to expand from three rooms to three floors. The offices of student services became a pediatric sim suite; a birthing suite and an operating room were created from classroom space; the dean’s suite is being reconfigured into a 10-room outpatient suite for standardized patient encounters and the library became a physical therapy suite. Participants will be challenged to think outside the box and will come away with ideas for repurposing existing spaces for high-quality simulation-based education. Classrooms and faculty offices don’t necessarily lend themselves to simulation and the age of the building presents its own obstacles, but the LHSON Sim Team accepted the challenge and constructed a functional simulation center with areas for future growth identified. Join us for a tour of the Clinical Simulation Building and get your creative juices flowing.

How to Use Terminology to Sound Like a Doctor Including Three Letter Acronyms (TLAs) - Dr. Scott Crawford

Every profession and field of study has a set of terms and acronyms that professionals use to communicate with one another. Unless you have a background in a particular field, trying to understand ad communicate can be difficult. While it is not specifically intended to push people outside of the professional understanding, terminology and acronym use can actually decrease understanding. This session will cover many common abbreviations and terms in healthcare and share understanding of how to improve participants ability to read and understand communication about medical notes and simulation cases. Understanding how information is written and reviewed by healthcare providers can give healthcare simulation technology specialists and increased understanding of simulation case content.

Learning Objectives
- Understand common terminology used in the initial assessment and diagnosis assigned to patients, and describe specialty specific considerations
- Review acronyms and terminology used in laboratory and diagnostic testing
- Decipher common acronyms and use them in written and verbal communication

Get Under the Hood for Effective & Efficient Simulation Training - Gabe Treuhaft, Field Service Engineer, Laerdal Medical

Discover the features and functionalities of the new SimMan 3G PLUS while looking “under the hood” of the SimMan family. In this 50-minute session, we will help users feel more comfortable with the components inside the simulators while teaching some basic care and maintenance to keep your simulator healthy and share some tips and troubleshooting tricks to keep your simulators up and running. Plus, we will share how to change out Nursing Anne Simulator to the new Male Module.

Learning Objectives:
- Learn what’s “under the hood” of a SimMan 3G PLUS and other SimMan family simulators
- Basic care and maintenance of your simulators
- Tips & troubleshooting tricks for to keep your manikin up and running
Session F: 4:00 pm - 4:50 pm

A New Device for Venipuncture Simulation - Geana Santos, Sanja Dogramadzi, Carlos Pérez Bergmann, Carla Schwengber ten Caten

This research aims to describe the development process of a new device for venipuncture simulation regarding angle and force of the needle’s insertion. The importance and originality of this study were to develop and apply a device to measure the angle and force of the needle’s insertion during the procedure of cannulation simulated. It will improve the teaching of venipuncture/cannulation techniques for health professionals increasing the success rate and reducing the patient’s pain and trauma.

Learning Objectives
- To show how the SimPunction was developed.
- To disclose a technologic device for venipuncture simulation.
- To present the research for experts assessment.

Low-Cost High Fidelity Solutions: Abscess Incision and Drainage Trainers for Medical Procedure Lab - Lauren O’Neill, Lorraine Petti

In this course, you will learn how to assemble and utilize a low cost high fidelity task trainer for the purpose of instructing students in the procedure of abscess incision and drainage. The resulting task trainers are single use and provide a realistic experience for student procedure skills practice. Discussion/overview: Physician Assistant curriculum at Samuel Merritt University includes training of basic medical procedures utilized for both diagnostic and therapeutic purposes in primary care, emergency medicine and surgery. Each lab provides an opportunity for students to develop practical skills for successful performance of the featured procedure. All procedure skills utilize student participants, task trainers, and a variety of simulator models. The Health Sciences Simulation Center at SMU has developed a low cost model in an effort to provide a realistic abscess incision and drainage task trainer for each student. Conclusion/Relevance/Impact: While there are commercially available pods of simulated pus as well as actual I&D trainers, the cost for supplying one for each student is prohibitive. We have developed a realistic alternative to the commercially available products at a fraction of the expense.

Learning Objectives
- Identify needs not being met by existing task trainers. Review acronyms and terminology used in laboratory and diagnostic testing
- Illustrate the process used to create an effective Abscess Incision and Drainage Trainer.

Educational Video Creations: Technology Manager & SP Educator - Juan Gonzalez & Nancy Owen

Aim: To explain a collaborative project between tech manager and SP educator on the creation of educational videos. Discussion/overview: To discuss the technology relationship between tech and educator when creating content for learning by way of digital recording. Conclusion/Relevance/Impact: Videos are relevant due to the increase of online learning. In-house videos can be edited to provide up-to-date information and for building an internal simulation center learning library for students. Videos are beneficial for repeated use. Description of content/activities: The poster will include information on the different roles and responsibilities of technology managers and SP educators throughout the video creation process. Emphasis on pre-production, production, post-production activities will be illustrated. Timing 5 minutes presenting and 5 minutes for questions

Learning Objectives
- Discuss the collaborative process of creating educational videos for nursing simulation.
- Discuss video design in post-production editing that impacts teaching and learning.

Simulation Operations Substitute Training Course - Angela George

What if the sim tech has to miss work? How can you be prepared? Use the ADDIE method of instructional design to create a short course to train a substitute.

Learning Objectives
- Prepare a readiness plan for operations staffing in case of staff absence
- Create a training course for substitute simulation technician, using the ADDIE model
- Prepare operations support materials (i.e. checklists) for use by regular or substitute staff
"Escaping" the Simulation = Increased Confidence - Christy Cook

The purpose of this study was to see if there was a relationship between "Escape Room" simulations and increased confidence in nursing student when caring for the fundamental safety needs of a patient. Escape room simulation techniques are new and there is little research done on them. A total of 29 nursing students completed the escape room simulation and survey following. Data gained supported that 100% of students who experienced the "escape room" simulation had an increase in confidence in caring for patient’s fundamental needs, managing care, managing safety and infection control, communicating with the healthcare team, critical thinking skills, and in caring for the needs of a real patient. Studies have shown students enjoy and retain more with active learning strategies like escape room simulations. More research on escape room simulations is needed to support use in academia, specifically nursing education.

Learning Objectives
- Articulate the relationship between escape room simulations and increase confidence in nursing student when caring for the fundamental safety needs of their patients.
- Demonstrate how quickly and easily any simulation can be made into a simple escape room.
- Reiterate the importance of active learning strategies for nursing students.

Virtual Simulation-by-Proxy (VSbP): A Viable Alternative to In-Person Simulation-Based Training During the COVID-19 Pandemic - Lindsay Bruckman

How a hospital-based simulation program supported the transition to a virtual delivery methodology for a Nurse Residency Program during the COVID-19 pandemic while sustaining immersive simulation techniques and fostering critical thinking skill development.

Learning Objectives
- Discuss the impact of the COVID-19 pandemic on hospital-based transitions to practice (nurse residency) programs
- Describe the Virtual-Simulation by-proxy (VSbP) methodology
- Discuss the potential applications of VSbP beyond a transitions to practice program.
Screen-based simulation, according to the SSH Dictionary, is described as "A simulation presented on a computer screen using graphical images and text, similar to popular gaming format, where the operator interacts with the interface using keyboard, mouse, joystick, or other input device. Programs establishing and maintaining these systems need 3 common pillars for success: Personnel, Environments and Equipment. Inadequacies or lack of any one of these will likely result in programmatic deficiencies. Understanding how screen-based simulation platforms function is imperative as failures arise. Through a series of troubleshooting ABC’s this presentation will delve into common hardware and software components the healthcare simulation technology specialist may want to consider.

Learning Objectives
- Describe how to implement Screen-based simulation platforms
- Identify primary considerations for troubleshooting Screen-Based platforms
- Describe common technological requirements to support screen-based simulation.

Pandemic-mandated Adaptation of the Role of the Health Simulation Center - Naren Bhimsan

On the 23 March 2020, President C Ramaphosa announced a nationwide lockdown in South Africa for an initial 21-days as part of the efforts to curb the rapid spread of the Coronavirus in our country. In this presentation we will discuss the 4 major roles we played: 1. administration duties, 2. training and adaptation, 3. multi-center co-ordination efforts and 4. modifying our techniques to maintain the teaching role of the centre. The innovative steps taken during the pandemic has challenged us to look at our role as simulation centers in a very different way. Our modified instructional techniques as well as multi-center coordination efforts has served to not only bridge the many gaps in our role but strengthened the overall confidence we have as a multi-disciplinary team in reaching out to healthcare providers as well as our students in one of our most difficult times during the SARS Covid pandemic.

Learning Objectives
- Demonstrate the impact of the pandemic on health training
- Demonstrate the role of adapting management of simulation centers during pandemic conditions situations
- Simulation centers can bridge the communication gap in pandemic situations
Being on the front line of simulation brings moments of inspiration and frustration with our training tools. Sometimes you need to modify an existing simulator and other times realize a completely different approach is needed. In this presentation we will discuss the opportunities simulation specialists have to create new and innovative solutions from the idea phase all the way to potential commercial products using real world examples.

Dr. Deering is a national leader in medical simulation training and patient safety, focusing on practical implementation. The simulation efforts and organizations he has led have trained more than 600,000 medical providers during his career to date.

Dr. Deering has served as the Chair of the American College of Obstetricians and Gynecologists Simulation Working Group where he designed and implemented the Emergencies in Clinical Obstetrics (ECO) Course which is now nationally available from ACOG to allow simulation training for obstetric emergencies for all levels of providers. He was also instrumental in the creation of the Practicing For Patients (PFP) program which has been distributed through the Alliance for Innovation on Maternal Health (AIM). The program allows for any size hospital to run obstetric emergency in-situ drills and he led the PFP implementation training for over 120 hospitals in Texas.

He is currently working both locally and across the entire CHRISTUS system to organize and implement life-saving medical simulation training programs to help improve patient outcomes.

Dr. Deering has delivered babies in 10 different States and a combat zone, was awarded the Bronze Star, holds two patents for an obstetric birthing simulator system, has over 100 publications and two TED talks about obstetric simulation, has managed over 30 million dollars in grants and external funding and his simulation videos have over 13 million views on YouTube.
CHSOS-A: Creating Your Structured Portfolio - Andrew Spain

This course is intended to explore the CHSOS-A structured portfolio elements in detail, and support the attendee in understanding all of the required components of the structured portfolio. It is a time-consuming process to complete the portfolio and demonstrate your performance as an advanced operations specialist, and your impact beyond your institution. This session will go through each of the portfolio sections and, as time allows, work on creating each of the pieces of the structured portfolio and prepare to apply. Bring your questions, and be prepared to work on your CV/resume, narrative statements, and descriptors related to your exemplar.

Learning Objectives
- List the required components of the CHSOS-A structured portfolio
- Summarize and describe each component of the CHSOS-A structured portfolio
- Describe what supports demonstration of advanced capabilities of an operations specialist who functions at the advanced level
There are many benefits to immersive learning. Decision making, identifying team leaders, determine clinical knowledge and boosting learner confidence to name a few. In this session, participants will gain valuable information and knowledge on how to create the ultimate immersive learning experience; the escape room. We will cover themes, puzzles, locks and other equipment and supplies that are likely already available in your center. We will also cover tips and tricks for making your activity virtual, allowing your learners to go online as a group or individual to complete the activity. Come join me for an entertaining and informative session!

Learning Objectives

- Identify and learn the basics of putting together an escape room
- Identify previously purchased equipment to create puzzles and locks
- Learn how to transform your in person session to an immersive virtual activity
Connecting the State: Learning about Simulation Professionals of Texas (SPOT) - Erica Hinojosa

Simulation professionals across Texas have come together to develop Simulation Professionals of Texas (SPOT). As an organization we connect our professionals together to promote presentations, conferences, and networking throughout the year. SPOT wants to help others in simulation connect with their community.

Learning Objectives
- Describe Simulation Professionals of Texas
- Discuss committee and subcommittees
- Consider benefits of Simulation Professionals of Texas

It's Alive...! - Improving Physiologic Reactions to Pharmacology Treatments - Dr. Gregory Patek

Manikin-based simulation activities require careful attention to learner actions and communication to provide realistic physiologic responses to learner-initiated interventions. Everything from oxygen administration to pain, cardiovascular and respiratory medications can cause an expected physiologic response (vital signs, cardiac rhythms, etc.) in the simulated patient. This session will allow the learner to work through case-based scenarios with different pharmacologic interventions to learn more about the expected effects of different medications commonly used during simulated patient care scenarios.

Learning Objectives
- Describe the normal ranges for the primary vital signs
- Discuss general classes of medications and their expected effects
- Conduct scenarios that produce realistic physiologic response to common medications

Serious Gaming for Your Whole Brain: Exploring Low Budget Experiences for Learning - William Belk & Ian Jones

Game-based learning goes far beyond the use of VR and AR! William Belk and Ian Jones of Air Methods will explore serious games that can be created with any budget and the education theories that support their use. Participants will learn to create educational experiences for clinicians and students using rules and methods similar to popular games that they are already familiar with. Learners will be given the opportunity to play a game that is currently being used to train more than 1500 flight nurses and paramedics through the United States.

Learning Objectives
- Explore the education theories which support the use of serious games.
- Identify low cost resources which can be used in game development.
- Create an educational activity using existing game mechanics.

Fit the Mold: Create Precise and Reusable Molds Using 3D Printing and Modeling - Colton Crook

Using 3D printed molds can allow for the creation of moulage with high levels of detail and consistent repeatability. In this presentation, participants will learn about various 3D modeling and printing software available, various free libraries of 3D models useful for simulation, and techniques in creating these models. We will examine the pros and cons of 3D printed technology over traditional model-making techniques and then showcase a variety of molds created at ZIEL that have been used to enhance simulation programming.

Learning Objectives
- Examine and evaluate various 3D modeling and 3D printing software that contribute to the design process.
- Identify the specific benefits of using 3D printing technology over traditional model-making techniques.
- Model existing molds and moulage created using 3D printing technology and discuss strategies on implementation into various simulation institutions