Dear Simulation Specialists,

I am excited to welcome you all to our 10th annual SimGHOSTS event at Baylor University in beautiful Dallas, Texas. The theme for this year's conference is Learn, Link and Lead. 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.

We are proud to reach our community globally this year; we have already been in Saudi Arabia and have other events planned in Memphis TN, Argentina and Australia.

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!

Ferooz Sekandarpoor
President: The Gathering of Healthcare Simulation Technology Specialists
MEETING OBJECTIVES

**Learn, Link, Lead** represents three essential qualities demonstrated by those who are driven to use simulation technology to improve quality and safety in healthcare and is the overarching theme for SG20USA. Each of the three elements has multiple applications to healthcare simulation technology and the roles of those working in the field and these will be explored throughout the conference program.

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.

The SG20USA 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.
- IT Networking and debugging
- Career development and staff management.
- Beginner to advanced moulage creation and application
- International healthcare simulation education practices
- Virtual environments and serious games
- A dedicated track of presentations conducted in Spanish.

WHO SHOULD ATTEND SG20USA?

Anyone involved in the technical 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

**Pricing**

- **Early Bird** - Ends June 14th USD $525
- **Early Bird Subscriber Discount USD $475**
- **Early Bird Subscription + Registration Discount Package USD $542.50 (Save $62.50)**
- **Regular - USD $650**
- **Regular Subscriber Discount USD $600**
- **Regular Subscription + Registration Discount Package USD $667.50 (Save $62.50)**

**Pre-Conference Workshops:**

- CHSOS Readiness Review Course $295
- Moulage: The Art and Science of Training Realism *presented by Bobbie Merica, Moulage Concepts Inc* $350 (includes moulage kit)
- Introduction to Scenario Programming with Laerdal LLEAP & SimDesigner *presented by SimGHOSTS* $75
- Achieve Optimal Simulator Performance: General Care and Maintenance *presented by Laerdal Medical* $75

**In-Conference Workshops:** these workshops require additional materials and participants will make or receive a product to take home with them.

- Moulage: Bridging the Gap in Simulation mini-course $25
- Moulage Crash Course: Tips and Tricks $25
- Using Technology for Better Moulage $25
- Copy/Paste Yourself! The Art of Lifecasting for Medical Simulation $25
- UT Southwestern Simulation Facilities Tour $25

**Refunds**

Refunds are available until June 25th 2020 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 SG20USA event registration. Get access to online courses, recordings from previous events, mentorship and more! See page 8 for details.
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 25,000 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.

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 have negotiated a special discounted rate for event attendees at the Element Dallas Downtown East - Marriott. It is just a short 10 minute walk from the venue and includes free breakfast and WiFi. FREE bus transportation will be provided between the accommodation and event venue for attendees. Reservation links are available below or on the SimGHOSTS.org SG20USA 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% tax.
[Reserve your room here.](#)
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 300 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.

**JOIN OR RENEW DURING SG20USA EVENT REGISTRATION!**
Faculty and staff development plans are a critical component for achieving the strategic goals and objectives of a simulation program. Industry best practices consistently identify the need for a formally trained staff and ongoing education to support and sustain simulation-based education programs.

Laerdal’s team of educators have years of industry-related experience and can provide a wide range of options to support your faculty and staff development.

Visit Laerdal.com/EducationalServices to learn more about Laerdal’s Educational Services portfolio.
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.

Find out more about Nasco here

The VALT solution is an incredibly simple but powerful tool that can be learned in minutes. Basic observation and recording tasks are often picked up intuitively without the need for any extensive training or technical support. Our interface minimizes complexity and points of failure so that your recording system is always there when you need it for critical simulation observation, recording and debrief tasks.

Find out more about IVS here
MedVision is a global company committed to the advancement of quality education in healthcare through simulation. Our innovative design and cutting-edge technologies define our range of adult, pediatric, neonatal and surgical simulators.

We are proud to work closely with healthcare professionals around the world to create successful simulation programs that will impact the quality and safety of patient care and help to improve outcomes.

For further information visit our website with the link below or email: mail@medvisiongroup.com

Find out more about MedVision here

The Master Level Service Agreement (MeLiSA) program is the solution designed to keep your simulation center operating efficiently. MeLiSA provides service, education, and support for your simulation equipment. We understand the need to keep your simulation equipment functional, and appreciate the costs associated with maintaining this technology. This revolutionary service will help to ensure that help is one click away, and we guarantee that you will always be connected to a trained Emergency Simulator Responders. This service will cover multiple manufacturers and help to stabilize operational costs for all simulation technology.

Find out more about MeLiSA here
KbPort is a software and hardware development company, with a specialization in medical education, that designs recording, debriefing and simulation-based solutions. KbPort has developed the next generation of simulation teaching tools in KbPort Simplicity. Realistic, fully-integrated and functional, Simplicity enables institutions to achieve a more positive educational outcome through the use of technology.

[Click Here to Learn More]

OMS provides virtual reality simulation for optimal patient care. Our virtual reality scenarios give learners the benefits of traditional simulation in a scalable model, allowing them to practice more, learn from their mistakes, and improve patient care.

[Click Here to Learn More]

Simulab is a medical simulation company, dedicated to replicating human anatomy, and turning it into realistic, easy-to-use training tools that help save lives. Our mission is to create a human mimic so perfect, participants feel truly immersed—in every procedural training. Just touch our tissues to feel the difference. You'll see they look, feel, ultrasound, suture and bleed just like human.

[Click Here to Learn More]

Is your high fidelity simulation experiencing low fidelity, due to poor sound quality? Stress no longer! Lecat's Ventriloscope will show you how to incorporate high quality sounds into your mannequin scenarios or even simulate abnormal auscultation findings on Standardized Patients. Low cost and easy to use. You can even use any MP3 file you own on our device!

[Click Here to Learn More]
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.

Click Here to Learn More

OtoSim Inc is a leader in otoscopy and ophthalmoscopy simulation systems. This year we will be showcasing our new simulation products: OtoSim Educators Portal™ and OtoSim Mobile™ to complement our classroom ear simulator, OtoSim 2™; and OphthoSim Educators Portal™ and OphthoSim Mobile™ to complement our classroom eye simulator, OphthoSim™. For more information, please visit our booth for a demonstration or http://www.otosim.com or email sales@otosim.com.

Click Here to Learn More

3D Systems offers a complete line of Simbionix medical training simulators that include the LAP Mentor laparoscopic surgical simulator, U/S Mentor ultrasound simulator, RobotiX Mentor for robotic surgery, GI-BRONCH Mentor for GI endoscopy and flexible bronchoscopy training, and many more that span medical specialties and skill levels. Interested in a demo at your institution or want to learn more about our trade-in program? Contact us at healthcare@3dsystems.com

Click Here to Learn More

TraumaFX offers innovative medical simulation training technologies that improve survivability of traumatic injuries and emergency medical conditions. From refreshing ALS/ACLS certification to stopping a massive hemorrhage, TraumaFX’s rugged, high-fidelity human and canine simulators deliver lifelike feedback allowing emergency medical professionals to practice treating critical patients, properly and effectively, under real world conditions.

Click Here to Learn More
Today and into the future, Cardionics' approach continues to set the pace for auscultation products and services through the development of unique, interactive, and experiential systems that integrate seamlessly into classroom, clinical, and tele-health applications.

We understand the complexities of creating interactive training that meet your clinical competency, industry safety and emergency preparedness needs. With an extensive knowledge of moulage wound development, scenario staging, and adaptive response, we provide a unique combination of training solutions to meet industry requirements. More than just a moulage company, we offer insightful guidance to incorporate the non-verbal story; that which must be seen, felt, heard and even smelled.

HealthySimulation.com: Healthcare Simulation resource website with the latest news, job listings, product demos, research highlights, conference coverage and more!

Find out more here
TUESDAY, AUGUST 4: PRE-CONFERENCE WORKSHOPS

8:30 AM - BUSES DEPART HOTELS

9:00 AM - MORNING PRE-CONFERENCE SESSIONS (INCL. BREAK)  Details page 24-25
P1 CHSOS Readiness Review Workshop $295  *FULL DAY SESSION*
P2 Moulage: The Art and Science of Training Realism $350  *FULL DAY SESSION*
, INCLUDES MOULAGE KIT from Moulage Concepts Inc
P3 Introduction to Scenario Programming with Laerdal LLEAP & SimDesigner $75 -
  Presented by SimGHOSTS

12:30 PM - LUNCH BREAK

1:30 PM - AFTERNOON PRE-CONFERENCE SESSIONS (INCL. BREAK)  Details Page 25
P4 Achieve Optimal Simulator Performance: General Care and Maintenance $75 -
  Presented by Laerdal Medical

5:00 PM - PRE-CONFERENCE WORKSHOPS END

5:10 PM - BUSES RETURN TO HOTELS
8:15 AM - BUSES DEPART HOTELS

8:30 AM - REGISTRATION & EXHIBIT SPACE OPEN

9:00 AM - WELCOME AND OFFICIAL OPENING

9:30 AM - KEYNOTE PRESENTATION - A MODEL FOR CREATING ACCESSIBLE PATIENT CARE
Presented by Bryan Chasko, CTO Electronic Caregiver

10:30 AM MORNING BREAK & EXHIBIT SPACE OPEN

11:00 AM CONCURRENT WORKSHOPS BLOCK A

A1  A Checklist Approach to Simulation Problem Solving: Anticipate, Act, Amend
Simulation Technology Track

A2  Moulage Crash Course: Tips and Tricks $25
Moulage & Theatrics Track

A3  Using an Academic Electronic Health Record (AEHR) to Warp Time Across Scenes in Unfolding Case Simulation Activities
Simulation Technology Track

A4  Moulage: Bridging the Gap in Simulation $25
Moulage & Theatrics Track

A5  Creating a Simulation-based Education Program
Education Track

A6  Poster Presentations & Innovation Showcase
Research Track

12:45 PM LUNCH BREAK & EXHIBIT SPACE OPEN
WEDNESDAY, AUGUST 5: CONFERENCE DAY 1

2:00 PM - Plenary Presentation: A 9-Dot Problem Solution to Creating, Sustaining, & Growing a Simulation Program
Presented by Jeanne Carey, Christie Singbusch & Beverly Price

3:00 PM - AFTERNOON BREAK AND EXHIBIT SPACE OPEN

3:30 PM - CONCURRENT SESSIONS BLOCK B
B1 Connecting with the AV in your Simulation Environment for the Non IT/AV SOS AND
B1 Low Cost CCTV System for Healthcare Simulation Recording and Debriefing
AV & IT Track
B2 Leveraging your IT Staff for Simulation Buy In AND
B2 Rebuilding and Sustaining and Organizational Foundation to Support Simulation in Academia
Simulation Technology Track
B3 Using the Revised INACSL Standards of Best Practice: Simulation
Operations & Management Track
B4 Integrating SPs into Simulation: Safety Considerations
Moulage & Theatrics Track
B5 Novice to Expert: A Competency-Based Orientation For Novice Healthcare Simulation Technology Specialists
Education Track
B6 Baylor University Louise Herrington School of Nursing Simulation Facilities Tour
Operations & Management Track

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Details page 30
Details page 30
Details page 30
Details page 31
Details page 31
Details page 31
Details page 31
4:30 PM - CONCURRENT SESSIONS BLOCK C - Sponsors
C1 One Simulator - Many Patients by Laerdal Medical  
Simulation Technology Track
C2 From Start to Finish, the Multi-Patient Event by  
Nasco Simulaids  
Simulation Technology Track
C3 IVS Demonstration  
Simulation Technology Track
C4 MedVision Demonstration  
Simulation Technology Track
C5 Echo Healthcare Demonstration  
Simulation Technology Track

5:30PM - CLOSE/BUS RETURNS TO HOTELS

6:30 PM - OPENING RECEPTION: Blue Light Trivia Night  
Details page 33

9:30 PM - OPENING RECEPTION CONCLUDES
THURSDAY AUGUST 6: CONFERENCE DAY 2

8:15 AM - BUS DEPARTS HOTELS

8:15 AM - EXHIBIT SPACE OPEN

8:45 AM - ANNOUNCEMENTS

9:00 AM - Plenary Presentation: You Can Simulate Anything, But Shouldn't
Presented by Dr. Scott Crawford MD, FACEP, CHSOS

9.55 AM - CONCURRENT SESSION BLOCK D
D1 Cost Effective Simulation Solutions AND
D1 Creative Engineering in the Simulation World
Simulation Technology Track
D2 Bringing Trauma to Life
Moulage & Theatricts Track
D3 Escape Room Development from the Operations Perspective
Operations & Management Track
D4 The In Situ Simulation Experience: Navigating the Obstacles
Education Track
D5 Writing for Publication: You can do it!
Research Track
D6 Baylor University Louise Herrington School of Nursing
Simulation Facilities Tour
Operations and Management Track

10:45 AM - MORNING BREAK & EXHIBIT SPACE OPEN
THURSDAY, AUGUST 6: CONFERENCE DAY 2

11:15 AM - CONCURRENT WORKSHOPS BLOCK E
E1  Lights, Camera, Action: Video Production Basics for Instructional Video Creation
    AV & IT Track
E2  Setup 101: Creating Visual ‘Quick Start Guides’
    Simulation Technology Track
E3  Using Technology for Better Moulage $25
    Moulage & Theatrics Track
E4  Blueprint for Success: Building Procedural Skills Events Using Standardized Setup Templates
    Operations & Management Track
E5  Moulage: Bridging the Gap in Simulation $25
    Moulage & Theatrics Track
E6  UT Southwestern Simulation Facility Tour $25
    Operations & Management Track

1:00 PM - LUNCH & EXHIBIT SPACE OPEN

2:00 PM - Plenary Presentation: Improving Training of Military Healthcare Professionals: Defense Medical Modeling and Simulation Office presented by Ruben Garza

3:00 PM - AFTERNOON BREAK & EXHIBIT SPACE OPEN
THURSDAY, AUGUST 6: CONFERENCE DAY 2

3:30 PM - CONCURRENT SESSION BLOCK F

F1  Introducing a Low-cost, Low-resource Solution for Audio-visual Capture of Simulation Events  
AV & IT Track  
Details page 39

F2  Effective Strategies to Repair, Maintain and Update Simulation Technology AND  
F2  How Can Homegrown Solutions Help You?  
Simulation Technology Track  
Details page 39

F3  Mass Casualty Exercises: Victim Planning and Prep  
Moulage & Theatrics Track  
Details page 39

F4  Operation Escape Room  
Education Track  
Details page 40

F5  Promoting Safety and Security in Simulation Centers  
Operations & Management Track  
Details page 40

F6  Community Action Poverty Simulation as IPE and Intelligent Simulation: Integrating Artificial Intelligence into Simulation Education  
Research Track  
Details page 31

F7  Baylor University Louise Herrington School of Nursing Simulation Facilities Tour  
Operations & Management Track
4:30 PM - CONCURRENT SESSION BLOCK G
G1  LLEAP Simplicity, Laerdal Scenario Design Made Easy
   Simulation Technology Track
G2  That’s Sim? Exploring Simulation Modalities
   Education Track
G3  Effective Troubleshooting for Physicians and Healthcare Professionals
   AV & IT Track
G4  You Want My Manikin Where? Establishing and Operating an In Situ Simulation Program
   Simulation Technology Track
G5  Got Interns? The Mutual Benefits of a Simulation Internship Program
   Operations & Management Track
G6  Baylor University Louise Herrington School of Nursing Simulation Facilities Tour
   Operations & Management Track

5:30 PM - BUS RETURNS TO HOTELS
FRIDAY, AUGUST 7 - CONFERENCE DAY 3

8:30 AM - BUS DEPARTS Hotels

9:00 AM - CONCURRENT SESSION BLOCK H

H1  Tech Hack: 3D Printing Solutions for Small Projects in Simulation
Simulation Technology Track

H2 Course Development and Planning for Advanced Practice Providers
Education Track

H3 Cybersecurity in the Workplace
AV & IT Track

H4 Copy/Paste Yourself! The Art of Lifecasting for Medical Simulation (3 Hour Workshop)
Moulage & Theatrics Track

H5 Escape Rooms: Simulation Based, Healthcare Themed, Gamification, and You (3 Hour Workshop)
Education Track

10:00 AM - CONCURRENT WORKSHOPS BLOCK I

I1  Learn, Link Lead to a Preventative Maintenance Program
Operations & Management Track

I2  Using the SimGHOSTS Capability Framework - Writing Position Descriptions, Performance Plans and Training Plans
Operations & Management Track

12:00 PM - AWARD PRESENTATION & CLOSING CEREMONY

12:30 PM - EVENT CLOSES

12:45 PM - BUSES RETURN TO HOTEL
PRE-CONFERENCE WORKSHOPS

P1 CHSOS Readiness Review Workshop
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.

Presenter: to be confirmed

P2 Moulage: The Art and Science of Training Realism Full Day Workshop
Create Answers to Your Training Challenges:
The following interactive workshop is designed to enhance realism in simulation scenarios while providing best practice techniques. This hands-on course will be presented in a multi-level learner approach including scenario staging, sensory engagement, core STEPS and technique, accessory moulage, wound development, storage recommendations, and time and money-saving alternatives for both simulator and standardized patient.

MOULAGE TECHNIQUES
Participants will:
Learn to create life-like three-dimensional wounds that can be sutured, debrided, and triaged for a realistic training experience.
Learn to use SIM-Safe make-up and industry secrets to create common Medical, Trauma & All Hazards conditions and odors.
Create soft tissue wounds and accessory moulage utilizing gels, Silifix, latex, & waxes.
Create basic, intermediate, advanced and trauma wounds including Bums, Lacerations, Blast Injuries, Active Shooter, plus so much more!

Presenter:
Bobbie Merica, Moulage Concepts Inc
P3 Introduction to Scenario Planning with Laerdal LLEAP and SimDesigner

LLEAP programming styles vary from person-to-person and may also depend on scenario complexity. The workshop will provide an overview of Laerdal SimDesigner Software and will include an introduction to trends and handlers, show users how to upload media such as labs and x-rays, and demonstrate two common programming styles. Participants will create a simple scenario during this workshop.

Learning Objectives:
- Understand the concepts of programming scenarios with SimDesigner using themes and scenarios.
- Understand how to create and apply trends and handlers.
- Identify how to embed & transfer images, videos and labs to the patient monitor.

Facilitator: Nick Brauer, SimGHOSTS

P4 Achieve Optimal Simulator Performance: General Care and Maintenance

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 repairs, troubleshooting, and technical tips to help ensure your simulation runs efficiently. These focus areas are the foundation to keeping systems available and ready when simulators are called into action.

Prerequisite required for this workshop: Familiarity with Laerdal simulators and software.

Learning Objectives:
- Understand basic simulator troubleshooting.
- Know how to replace consumables and basic parts.
- Feel confident cleaning and caring for their simulator.

Presented by Gabe Treuhaft, Laerdal Medical Field Service Engineer
A MODEL FOR CREATING ACCESSIBLE PATIENT CARE

Presented by Bryan Chasko
AWS 3D Hero, Inventor @ Addison.Care

Considering the user experience of health professionals and how we can extend the walls of practices by virtualizing communications and care. With touch and voice assistant technology on the rise alongside 3D's mainstream adoption in Progressive Web Applications that work on billions of devices, the ability to connect care teams, education, and family around health has never been greater. How can we unleash a DIY education method for those unemployed as a result of COVID-19 to access tech work, including freelancing through their small businesses to serve the needs of their communities, and in doing so spread the mindshare from the tech valleys to rural America and rural healthcare.

Bryan Chasko
Bryan spent a decade learning from world-class kinesiologists, gamemakers, mechanical artists, cognitive & engineering psychologists, technical artists and 3D artists on how to best take the voice, touch, and 3D UI layers and engage users at rates exponentially higher than traditional engagement models... and had fun doing it. The team at Addison Care used these engagement models to reframe patient care to a new Remote Patient Monitoring model poised to provide better outcomes for the chronically ill.
A1 A Checklist Approach to Simulation Problem Solving: Anticipate, Act, Amend - Amy Follmer & Melissa Lowther
Even the best preparation for a simulation event may not always thwart off problems with environment, technology, planning or people. Through small group work and discussion, participants will develop plans for overcoming barriers in sim delivery. This course is designed to be a highly interactive session for all levels of simulationists.
Learning Objectives:
Examine from the simulation operations perspective barriers that may contribute to a simulation education session not meeting the learning objectives.
Explore and apply the use of a standardized checklist to problem solve issues before, during, and after simulation events.
Discuss and create strategies for preventing and resolving common barriers for simulationists.

A2 Moulage: Crash Course. Tips and Tricks - David Shablak & William Belk
This is an accelerated course compliments the videos that we highly suggest you watch before you attend. The content will give you the theory and safety that is an important foundation. The course will then be able to focus on the makeup materials and application techniques that will allow you to make a dramatic effect, as quickly and safely as possible. Participants will practice basic applications with a Stipple Sponge, Makeup Wedge, Brush, and yes, a business card. The workshop will conclude with a review of simulated blood concepts.
Learning Objectives:
Identify the different types of makeup mediums used in our industry and the advantages of each.
Demonstrate the basics of two dimensional makeup - highlights and shadows.
Identify pros and cons, staining and application of different blood products.

A3 Using an Academic Electronic Health Record (AEHR) to Warp Time Across Scenes in Unfolding Case Simulation Activities - Edward Rovera & Kathleen L. Shea
Research has shown the benefits of using an academic electronic health record (AEHR) in nursing education, but little is written on using an AEHR in unfolding cases. This presentation will cover the application of unfolding cases in nursing education and how to use an AEHR to “warp time,” allowing learners to practice documentation skills across multi-scene unfolding scenarios. Participants will access the AEHR as learners in simulation and experience the effects of time warping for themselves.
Learning Objectives:
Differentiate between single-scene simulation activities and different types of multi-scene unfolding or evolving case scenarios.
Describe the benefits of using an academic electronic health record system in simulation activities.
Determine the applicability of unfolding cases utilizing an academic electronic health record system in their environment.

A4 Moulage: Bridging the Gap in Simulation - Bobbie Merica, Moulage Concepts Inc
The addition of Moulage creates realistic training scenarios that mimic situational responses and are specialized to training outcomes. Realistic moulage, when used in the training paradigm, creates a powerful story when combined with simulators and interactive, odorous, three-dimensional wounds. Learn to engage participants and heighten the training scenario by providing the non-verbal story - that which must be seen, felt, heard and even smelled.

A5 Creating a Simulation-based Education Program - Barbara Sittner, Jane B. Paige & Leslie Graham
Over the past decade there has been an increase in the use of simulation pedagogy in education, research, and practice. The literature cites specific skills necessary to facilitate simulation-based experiences. Simulationists are seeking formalized training to develop simulation programs for their communities of interest. The purpose of this workshop is to provide participants with an action plan to formalize simulation education for their organization.
Learning Objectives:
Explore common topics and simulation modalities found in the literature.
Discuss challenges and opportunities associated with creating a simulation program.
Formulate a plan for developing a simulation-based program.
Everybody Starts Somewhere - Mary Thompson
Using the example of one person's journey into and through the field of healthcare simulation technology, participants will have the opportunity to reflect on their own careers and the role we all play in healthcare quality and safety. Fuel your commitment to healthcare simulation by exploring the narrative of a fellow passionate simulationist.
Learning Objectives:
Recognize the spectrum of starting points and training opportunities for careers in healthcare simulation.
Use a variety of communication channels to connect with peers.
Identify with the higher purpose to your work.

Using Simulation to Improve Interprofessional Awareness and Communication in Nursing, Athletic Training, and EMS Students - Katy Trotty, Rebecca Self, Shelley Hunt & Sheree Barrios
The Pediatric Trauma Simulation is an interdisciplinary approach to improve communication between nursing, athletic training, and EMS students. The simulation uses live patient actors from the university's theater department. The poster will discuss the purpose of the simulation, a literature review of current evidence, a description of the simulation preparation and scenario, evaluation results, and implications for practice.
Learning Objectives:
Explain the importance of interdisciplinary simulation.
Organize an interdisciplinary simulation at one's institution.
Integrate simulation into current curriculum to enrich learning experiences.

A6 Poster presentations/ Innovation Showcase
Clubfoot Moulage for Infant Manikins - Lauren O’Niell
A pediatric IPE scenario required an infant manikin with an internally rotated right clubbed foot. The manikin needed to present during orientation with no foot deformities and during simulation with a clearly apparent deformity. It was critical that the moulage be highly realistic, recognizable as clubfoot for all learners, and quick & easy to remove. This clubfoot moulage is a low-cost high fidelity innovation that primarily utilized on-hand resources to meet the stated goals.
Learning Objectives:
Identify needs not being met by existing moulage resources.
Illustrate the process used to create an effective moulage clubfoot.
Examine possibilities for use at simulation operation specialist’s own institutions.
Building a simulation program and amassing the right people to run it are challenging tasks and the many inherent variables make it difficult to define one strategy for tackling this project. At LHSON Simulation, we gathered our team members and grew our program through a thoughtful approach that focused on traits and duties rather than titles and roles. Every simulation program, regardless of its physical size or scope of activities, has certain jobs that need to be completed and roles that need to be performed. However, how these responsibilities are apportioned and to whom, does not need to abide by some pre-determined title or job description.

We found it helpful to consider three lines of service essential to running a successful simulation center: administration, operations, and education/training. These lines do not run parallel to one another; rather, they intersect at multiple points, as each goes about fulfilling necessary duties and responsibilities. Some of the work performed under administration centers upon management, policy creation & execution, oversight, and foresight. Within operations there is a focus on the technical & mechanical aspects of simulation, as well as logistics. Finally, the education/training line is concerned with those functions that directly impact the participants in simulation.

Jeanne Carey
Jeanne is the director of simulation at Baylor University Louise Herrington School of Nursing (LHSON) in Dallas, TX and has been involved in simulation-based education (SBE) for nine years. She is a certified simulation educator (CHSE) with experience in all aspects of simulation, including the development & implementation of new SBE activities, training of simulation facilitators, and recruitment & management of standardized patients (SP). Jeanne and the LHSON Sim Team created the Two-Heads-Are-Better-Than-One (2HeadsR>1™) strategy for role assignment in simulation.
B1 Connecting with the AV in your Simulation Environment for the Non IT/AV SOS - Ron Repasy
This session will help the Simulation Operations Specialist with little or no AV experience resolve challenges commonly found in the simulation environment. Topics include the basic types of audio-visual equipment, terminology, and managing various types of AV signals, common connector types, when they are used, and how to interconnect medical equipment and audio-visual equipment. I will also briefly discuss PC monitor resolutions and configurations. The session will conclude with an open discussion and Q&A.
Learning Objectives:
Identify common audio and video challenges that occur in the simulation environment.
Manage and convert different types of signals and connectors.
Utilize technologies in your existing environment to increase the efficiency of daily simulation activities.

B1 Low Cost CCTV System for Healthcare Simulation Recording and Debriefing - Naren Bhimsan
This presentation will review the successful creation of a CCTV recording system using a simple home PVR/NVR that allowed for remote viewing while recording and manipulation of each channel during debriefing.
Learning Objectives:
Demonstrate impact of using simple devices for AV capture with high fidelity uses.
Demonstrate a simple system for AV transfer to remote viewing rooms.
Demonstrate the impact of separating participants from observers in a scenario.

B2 Rebuilding and Sustaining an Organizational Foundation to Support Simulation in Academia - Carrie Eaton
This presentation will identify barriers and facilitators to university staff's use of technology to build a foundation of simulation organization. The information presented will help identify free and sharable resources for sustaining an organized foundation for simulation support and facilitator development. Through maximizing the use of the application SharePoint, our simulation center has been able to enhance faculty knowledge, skills, independence, and confidence in simulation.
Learning Objectives:
Describe the process of maintaining an organized technical foundation using One Note and rebuilding the system in SharePoint.
Discuss the challenges and successes of obtaining faculty buy-in when rebuilding an existing organizational infrastructure to support simulation.
Review the collaboration between a simulation director and healthcare simulation technology specialist in establishing consistency and accountability across the nursing curriculum on four campuses.

B2 Leveraging your IT Staff for Simulation Buy In - Malcolm Whyte
Does your IT group live in a silo away from your sim lab? Find out the benefits of collaborating with your IT staff. Learn how one center developed Group Policy Objects (GPOs) to customize their environment around simulator software requirements, introduced firewall rules for their simulators, and imaged every Windows device running simulator software on the campus domain.
Learning Objectives:
Develop a broad understanding of how a campus IT network works with simulation centers.
Review documentation from Laerdal and Gaumard about firewall policies which will allow for a secure campus environment.
Assess a simulation center and identify strategies to secure the network and simulator devices.
**CONCURRENT SESSIONS**

**BLOCK B**

**B3 Using the Revised INACSL Standards of Best Practice: Simulation - Chassity Mays**
The INACSL Standards of Best Practice are revised every several years to reflect the latest evidence. INACSL Representatives will provide an overview of the standards and lead a discussion with participants on strategies for incorporating and operationalizing the Standards into a simulation program. Learning Objectives: Name the titles and key elements of the INACSL Standards of Best Practice: SimulationDescribe examples of operationalizing the INACSL Standards of Best Practice: SimulationReflect if the INACSL Standards of Best Practice: Simulation are correctly executed at their institution

**B4 Integrating SPs into Simulation: Safety Considerations**
This session will cover practical examples of implementing SPs into traditional task trainer, simulator, and telemedicine activities, while discussing safety considerations for the SPs. Learning Objectives: Discuss the ASPE SOBPs as they relate to safety. Describe practical methods of implementing SPs into other modalities of simulation. Provide examples of how to efficiently recruit and train SPs for activities.

**B5 Novice to Expert: A Competency-Based Orientation For Novice Healthcare Simulation Technology Specialists - Merona Hollingsworth, Jessica Ockimey, Branden L. Ford & Juan Gonzalez**
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 for their roles. This presentation will address that issue by describing how we train sim techs and introduce various models for training. We will also review how to apply best practices and measurable outcomes that can be tailored for any center's needs.
Learning Objectives:
Review current roles and responsibilities of the simulation technician per institution guidelines.
Uncover challenges of implementing a competency-based orientation and methods to implement strategies to overcome those barriers.
Develop educational plan for orientation of intermediate to experienced simulation technicians.

**B6 Baylor University Louise Herrington School of Nursing Simulation Facilities 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.
CONCURRENT SESSIONS

BLOCK C

C1 One Simulator - Many Patients - Gabe Treuhaft, Laerdal Medical
Nursing Anne Simulator is a modular platform consisting of a variety of accessories and interchangeable parts to create a variety of simulated patients and provide unique training opportunities. This hour-long session will take you through many of the modular components of this platform.
Prerequisite required for this workshop: Familiarity with Nursing Anne simulator.
Learning Objectives:
Identify simulator module features.
Understand how to install each module.
Demonstrate operations of the simulator and system components.

C2 From Start to Finish, the Multi-Patient Event - Angela Hoenig & Stacey Haywood, Nasco Simulaids
In this session, groups will participate in a multi-patient event. Each group will be provided with props to prepare and treat their patient(s). The groups will be able to simulate monitoring, request results of tests, and interact with the facilitator questions.
Learning Objectives:
Moulage and prepare patients related to specific diagnosis.
Create patient interview questions and assessment objectives.
Identify and implement patient care plan.

C3 Active Learning Using Video Debriefing - Mary Hoppe, Intelligent Video Solutions.
This presentation will cover the topics of promoting best clinical practice, creating a learning environment for self-reflection and ensuring your students are practice-ready upon graduation.

C4 MedVision Demonstration
Details to follow

C5 Echo Healthcare Demonstration
Details to follow
Which Simulation Conference Has
The Best Opening Reception?

Think you know your manikins from your mannequins? Form a team or join one on the night and put your trivia knowledge to the test!

The Opening Reception starts at 6.30pm at Blue Light in the Deep Ellum entertainment district of Dallas. In between three entertaining rounds of trivia you can strategize with your team or mix and mingle with fellow attendees. Prizes will be awarded to the highest scoring teams. We'll make sure you are well fed to keep those neural circuits firing. Drinks are available for purchase at the bar.
PLENARY ADDRESS

You Can Simulate Anything, But Shouldn't

Presented By Dr Scott Crawford

Simulation is one of the most powerful tools available in medical education. We have numerous studies showing the benefit and efficacy of simulation as a way to improve learning, procedural skill, and patient safety. Even with all of the potential benefits of simulation, the hardest lesson in simulation is learning when not to use it, or identifying how to change your approach to improve learning and the take home message. Standards have been written and publications look better with positive results, but not all educational approaches in simulation have been successful. This presentation will outline best-practices for simulation and discuss when you might encounter problems in the implementation or takeaway from simulation and how to address these potential problems.

Dr Scott Crawford MD, FACEP, CHSOS

Dr. Scott Crawford is Director of the Training and Educational Center for Healthcare Simulation (TECHS) at Texas Tech University Health Sciences Center (TTUHSC) El Paso. He is Associate Professor in the Department of Emergency Medicine at the Paul L. Foster School of Medicine at TTUHSC El Paso. He has presented both in the US and internationally on topics related to audio/video design, information technology, and simulation operations. He has served as a reviewer and author for standards of best practice and conference presentation topics related to simulation and technology education. He is also Editor of the textbook Comprehensive Healthcare Simulation: Operations, Technology, and Innovative Practice.
CONCURRENT SESSIONS

BLOCK D

D1 Cost Effective Simulation Solutions - Ryan Stambro, Matthew Needler, Dane Rogers & Chassity Mays
This presentation will cover innovative low-cost solutions for intravenous (IV) pump cheaters, cricothyroidotomy trainers and simulated skin. A background description of how each low cost solution was developed and examples of use in high-fidelity simulation will be provided.
Learning Objectives:
- Identify the advantages of using 3D printing to develop low cost, high fidelity task trainers.
- Describe how to create a low cost replaceable skin for a variety of task training events.
- Identify the advantages of using an Alaris Pump "Cheater" for simulation education.

D1 Creative Engineering in the Simulation World - Robert Vega & Tanya Cleveland
We will discuss, handout samples and present videos on some of the many devices we have been able to improve in our simulations through the creative engineering process of Form-Function-Quality-Creative Engineering. We will show how we applied these guidelines to improve the fidelity and to extend the life of the product, while saving money.
Learning Objectives:
- Analyze designs of an existing device and identify potential for modifications.
- Apply the four basic creative engineering guidelines to simulation devices or supplies.
- Explain how creative engineering can increase the useful life of a modified device or system.

D2 Bringing Trauma to Life - Zackary Wade
A presentation on methods and techniques of creating more realistic trauma in the world of mass casualty and disaster training. During this presentation we will explore to a certain degree, how artificial wounds can physically bleed or at least give the idea, along with other various types of trauma related injury. Not only will we touch on different wounds, but as well as some possible cost efficient methods for the low budget specialist. If done the right way, it can look just as good.
Learning Objectives:
- Analyze designs of an existing device and identify potential for modifications.
- Apply the four basic creative engineering guidelines to simulation devices or supplies.
- Explain how creative engineering can increase the useful life of a modified device or system.

D3 Escape Room Development from the Operations Perspective - Ryan Strambo & Chassity Mays
This presentation will discuss the Healthcare Simulation Technology Specialist role in developing objectives, clues, and hints for an escape room simulation.
Learning Objectives:
- Describe the operation specialist role in developing an escape room for simulation.
- Develop and embed clues and hints in collaboration with the educational facilitator.
- Implement an escape room activity in your Simulation Center.
D4  The In Situ Simulation Experience: Navigating the Obstacles - Lynne Madori, Kay Martin & Sarah Kennedy

Obstacle courses can come in many ranges of difficulty, from physically demanding to mentally exhausting. Developing the hospital-based In Situ Simulation Experience program was no different for a group of nursing and simulation educators at the Children’s Medical Center of Dallas. After identifying a large knowledge gap with clinical staff, this team set out for the trek of a life time - developing a multidisciplinary in situ simulation program. This presentation explores the obstacles, solutions and drivers that were encountered by the team and the results they have achieved on their journey so far.

Learning Objectives:
- Discuss the rationale for implementing a hospital wide in situ program and identify a use case for one’s facility.
- Provide examples of obstacles, solutions, and motivators in the design and implementation of an in situ simulation program.
- Highlight ideas to promote sustainability including logistical challenges and early stage impact as a result of qualitative data to date.

D5  Writing for Publication: You can do it! - Suzan Kardong-Edgren & Julie Greenawalt

An experienced journal author and a past simulation journal editor will discuss the process of writing and publishing journal manuscripts. The writing process, from idea generation, to the submission process, handling reviewer comments, will be discussed. This presentation is geared to novice writers.

Learning Objectives:
- Describe 3 criteria an editor looks for in a manuscript for publication.
- Describe 3 steps to successful publication of a manuscript.
- Envision writing up one idea as a manuscript for publication.

E1  Lights, Camera, Action: Video Production Basics for Instructional Video Creation - Amy Follmer

Training videos add value to simulation, from procedural skills pre-work to expert modeling of events for education and debriefing purposes. Find out what’s important during video planning and some equipment needed to get started in video production. Learn tips and tricks for video recording and video editing to increase the effectiveness of videos. Work with a group to create a short instructional video using free software.

Learning Objectives:
- Describe the process of video production planning including definition of video goals, audience, and delivery method.
- Identify basic elements of scripting, storyboarding, video recording, and video editing.
- Create a storyboard, script, and first cut of a short instructional video.

E2  Setup 101: Creating Visual ‘Quick Start Guides’ - Lauren O’Niell

Setting up for a simulation can be a chaotic and stressful experience for Healthcare Simulation Technology Specialists. This interactive 110-minute workshop will introduce the ‘Quick Start Guide’ format of setup guides. Learners will analyze a simulation case, identify elements important for setup, and construct those elements into a visual setup guide. Each learner will leave with a solid understanding of the process of creating an effective setup guide.

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

D6  Baylor University Louise Herrington School of Nursing Simulation Facilities Tour

See B6 for details.
CONCURRENT SESSIONS

BLOCK E

E3 Using Technology for Better Moulage - Steven Lichtenberg
Newer technology has enabled moulage to be built faster and more consistently. This workshop will explore some of the techniques used to build better simulations. In this workshop you will be able to build sample pieces for use and re-use, moving beyond silicon to printed decals that are quick and easy to use, 3-D transfers allowing for very thin durable moulage, and replacing plaster casts with 3D printed molds for additional durability.

Learning Objectives:
Discuss the relative benefits of different materials including silicon, printed decals and 3-D transfers.
Understand the relative merits and concerns with each material.
Using multiple techniques including 3D printed molds, printing and decal making and 3-D transfer techniques, build several different moulage pieces.
Discuss when each is appropriate and why. Identify additional materials that have come on the market and how they fit into your center and your moulage kits.

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.

E5 Moulage: Bridging the Gap in Simulation (repeat) - Bobbie Merica, Moulage Concepts
The addition of Moulage creates realistic training scenarios that mimic situational responses and are specialized to training outcomes. Realistic moulage, when used in the training paradigm, creates a powerful story when combined with simulators and interactive, odorous, three-dimensional wounds. Learn to engage participants and heighten the training scenario by providing the non-verbal story - that which must be seen, felt, heard and even smelled.

E6 UT Southwestern Simulation Facility Tour
The UT Southwestern Simulation Center brings the future of health care education to today's students and practitioners. With the doors opening on Sept. 4, 2018, the 49,000-square-foot Simulation Center embarked on its vision to improve patient care delivery by encouraging the development of innovative ways to train health care providers, and by centralizing simulation-based activities on the University of Texas Southwestern's campus for all specialty areas and disciplines. As the Center looks to the future, it aims to push the boundaries of innovation, lead through best-practice simulation-based education, and to be a champion of campus-wide simulation adoption in academic health care centers.

Come join a fun, dynamic tour, where participants will receive a hands-on experience of the two-story center, led by UTSW expert simulation staff. Staff will highlight lessons learned since inception while encouraging a collaborative discussion between all participants.

The tour will include seeing the following:
- Intensive Care Unit
- Trauma Bay/Emergency Department
- Two full-sized Operation rooms
- 20 Outpatient/Clinic Rooms
- 6 inpatient, hospital suites
- 1 Labor and Delivery room
- Innovative expansive technician space with Six 3D printers

The tour will end with a ten minute question and answer session led by UTSW simulation experts, representing the specialties of simulation educators, specialists, and administration with the aim to foster an international simulation learning community and build lasting relationships.
PLENARY ADDRESS

Improving Training of Military Healthcare Professionals: Defense Medical Modeling and Simulation Office

Presented By Ruben Garza, Kaz Mezsaros, Joe Ruisi and Jerry Gomez

DMMSO will provide an overview of History of Medical Simulation, overall Medical Modeling & Simulation in the DoD, establishment and organization structure of the office, Defense Health Agency transition of Medical Treatment Facilities from the Services and overview of the Service simulation programs of AF, Navy and Army.

Mr. Ruben Garza is a GS-14, Chief of the Defense Medical Modeling & Simulation Office (DMMSO) that resides in the Defense Health Agency, Education & Training (J7) Directorate, and location at Ft. Sam Houston, TX. He serves as the key advisor, consultant, and subject matter expert on administrative support initiatives in dealing with medical modeling & simulation.

Mr. Kazmer Meszaros is the Implementation Manager for the Defense Medical Modeling and Simulation Office (DMMSO) under the Defense Health Agency (DHA) and is passionate about training healthcare providers to deliver safe, effective, patient-centered care.

Mr. Joseph Ruisi (GS-13) is the Deputy Chief/Administrator, Medical Modernization Division, Air Force Medical Modeling and Simulation Training (AFMMAST) Program for Headquarters, Air Education and Training Command (AETC) Surgeon General's (SG) Office on JBSA Randolph, TX. In this position, he oversees plans & programs, and advocates for, and executes program initiatives to enhance AETC medical future technology capabilities.
CONCURRENT SESSIONS

BLOCK F

F1 Introducing a Low-cost, Low-resource Solution for Audio-visual Capture of Simulation Events - Jon-Michael Wallace
This presentation will demonstrate the development of a low-cost AV recording and storage solution which uses a Microsoft Office product readily available to numerous facilities and educational units along with ManyCam® software. Audio visual capture and data storage solutions for healthcare simulations are in a constant state of change causing them to be expensive and quickly obsolete. This presentation will provide participants with a viable option to costly proprietary solutions.
Learning Objectives:
Analyze sustainability of their own AV solutions.
Explore common low-cost applications available to achieve AV capture and storage of video data.
Examine policies needed to implement low-cost AV solutions.

F2 Effective Strategies to Repair, Maintain, and Update Simulation Technology - Amy Follmer
Upkeep of simulation technology equipment and infrastructure in a simulation center is a daunting task. This course shares strategies and communication systems implemented by ZIEL to support maintenance of simulation technology in 45,000 sq. ft. of simulation space.
Learning Objectives:
Identify systems for communication of causes, repair processes, and resolutions of technical issues for shared knowledge and future troubleshooting.
Develop a plan for completing daily, weekly, monthly and quarterly simulation center maintenance tasks.
Describe strategies for installing and testing software and hardware updates.
Understand the reasons why making casts saves time in the long run.
Explain the skills necessary to build casts and use them repeatedly.
Demonstrate the ability to design and make multiple moulage products through these techniques.

This presentation will explain the HomeGrown Solutions initiative that is a collaboration between NLN and INACSL. Simulationists are invited to learn more about the program and in this session will explore how to submit a Solution, describe criteria in which HomeGrown Solutions are chosen for website publication, and finally disclose how an author would be selected to present at the HomeGrown session at INACSL.
Learning Objectives:
Describe the HomeGrown Solutions program and give examples.
Explain the step by step process of submitting an idea.
Describe criteria in which HomeGrown Solutions are chosen for website publication and being asked to present at the HomeGrown Session at INACSL.

F3 Mass Casualty Exercises: Victim Planning and Prep - David Shablak & William Belk
This lecture will discuss lessons learned in planning for a large scale mass casualty exercise that involves police, fire, EMS, and hospital systems.
Learning Objectives:
Recognize the challenges associated with mass casualty simulation planning.
Discuss the importance of preplanning and drafting a realistic event schedule.
Create a mass casualty simulation plan specific to the participating agencies and local resources.

F4 Operation Escape Lab - Sherri Kerney
The use of game-based learning in healthcare education has grown to include the use of the “escape room.” We expanded the concept of using clues, puzzles and codes to escape an entire practice lab. Nursing students worked together to complete ten skills practice stations that included strategically hidden clues, developed to reinforce key concepts and muscle memory. This presentation will discuss design and implementation of operation escape lab.
Learning Objectives:
Participants will understand how to use the escape room concept for learning.
Participants will develop ideas about incorporating escape room concepts into their own scenarios.
Participants will develop escape room scenarios on a low budget.
**BLOCK F**

**F5 Promoting Safety and Security in Simulation Centers**
- Barbara Sittner, Anup Patel, Amy Daniels & Crystel Farina

Safety and security issues are areas of concern for simulation programs. Policies and procedures are requisites for addressing these issues. The workshop focuses on increasing awareness of safety and security issues that may be encountered at simulation centers and strategies to address these issues.

Learning Objectives:
- Explore safety and security issues that may occur in simulation centers.
- Discuss challenges to managing safety and security issues encountered in simulation centers.
- Formulate strategies to reduce the incidence of safety and security issues in simulation centers.

**F6 Community Action Poverty Simulation as Interprofessional Education**
- Kamal Sandhu & Dr. Laura Kunkel

The original Community Action Poverty Simulation (CAPS) was designed to help participants understand the realities of poverty, to sensitize those frequently dealing with low-income families, as well as to create a broader awareness of the realities of poverty. We present to the audience our experience of modifying CAPS to provide an added inter-professional education (IPE) component.

Learning Objectives:
- Develop an enhanced understanding of the Community Action Poverty Simulation (CAPS).
- Identify the role of focused pre-briefing and debriefing in implementing CAPS as an IPE activity.
- Examine ways to modify and merge CAPS learning objectives with IPE core competencies.

**F6 Intelligent Simulation: Integrating Artificial Intelligence into Simulation Education**
- Jennifer Roye, Erica Hinojosa & Joselyne White

The use of artificial intelligence (AI) in healthcare simulation is on the rise. AI ranges from customized remediation after a screen-based simulation to manikins that "learn" to respond to questions from students. AI provides the ability to individualize learning and assessment, both of which are core components of the simulation experience. The use of AI in the simulation curriculum, however, poses some challenges, both pedagogical and ethical. Benefits and challenges will be discussed.

Learning Objectives:
- Define the concept of Artificial Intelligence (AI).
- Describe the educational value and benefit of using AI in the simulation curriculum.
- Discuss the challenges associated with the use of AI in the simulation curriculum.

**F7 Baylor University Louise Herrington School of Nursing Simulation Facilities Tour**

See B6 for details.
CONCURRENT SESSIONS

BLOCK G

G1 LLEAP Simplicity, Laerdal Scenario Design Made Easy - Brian Wallenburg
This is a hands-on workshop to develop new Laerdal LLEAP programming skills. Attendees will leave this session having created their own scenario using the The HUB format. You will also be given a handout that includes step-by-step instructions to create your own scenarios.
Learning Objectives:
Either learn or advance one's skills using SimDesigner. Design a working LLEAP scenario using The HUB method. Gain confidence in scenario design skills.

G2 That’s Sim? Exploring Simulation Modalities - Christie Singbusch & Beverly Price
What do you think of when you hear the word simulation? Is it expensive manikins that breathe and talk or that give CPR feedback? Did you know simulation is much more than this? High fidelity manikins are one type of simulation modality, but there are several others! With so many options, it can be difficult to determine which method to use. This presentation will describe various simulation modalities, discuss how to select the appropriate modality for your needs, and describe examples.
Learning Objectives:
Compare and contrast various simulation modalities. Recommend appropriate simulation modalities based on simulation needs and available resources. Explain the rationale for use of a particular simulation modality.

G3 Effective Troubleshooting for Physicians and Healthcare Professionals - Malcolm Whyte
As the simulation world becomes more refined, domains in healthcare simulation, such as IT, AV, and healthcare become increasingly more complex. Professionals who are side-stepping from their main industry into the Sim Tech role are finding challenges and steep learning curves. In this session a healthcare professional will learn common troubleshooting procedures to resolve issues with technical software and hardware.
Learning Objectives:
Understand common technical issues, their causes and how to solve them. Describe the basic components of a computer using the analogy of the human body. Compare and contrast troubleshooting techniques and healthcare management algorithms.

G4 You Want My Manikin Where? Establishing and Operating an In Situ Simulation Program - Matt Steiber & Adam Fisher
While in situ simulation training can be of significant benefit to learners, it often presents a new set of challenges to the simulation team. This session will explore the many elements you should consider when planning an in situ training session, such as staffing, cost, transportation, and wear and tear on your manikins and other equipment.
Learning Objectives:
Discuss the many barriers to working within a non-traditional simulation lab or center and how to overcome those barriers. Outline in detail equipment needs, required personnel and safety considerations of working outside of a controlled environment. Examine the costs associated with in situ training and ways to overcome them.

G5 Got Interns? The Mutual Benefits of a Simulation Internship Program - Erica Hinojosa
Some simulation centers are challenged to keep up with the demands of simulation with a limited number of employees. This presentation will define, discuss, and identify the utilization of interns in a simulation center.
Learning Objectives:
Identify opportunities and benefits for interns and simulation programs that may arise from the implementation of a Simulation Internship Program. Describe potential challenges to implementing an internship in a simulation center. Provide examples of how to develop an internship in a simulation center.

G6 Baylor University Louise Herrington School of Nursing Simulation Facilities Tour
See B6 for details.
CONCURRENT SESSIONS

BLOCK H

H1 Tech Hack: 3D Printing Solutions for Small Projects in Simulation - Joselyne White & Erica Hinojosa
Due to the limited market and frequent repairs to equipment, the need for a fast and inexpensive way to fix problems in simulation is growing. The goal of this presentation is to introduce basic concepts of 3D design and additive manufacturing for the use of creating solutions in healthcare simulation.
Learning Objectives:
Identify the potential uses of 3D printing for small projects in a simulation center.
Describe 3D printing software options for novice to advance users.
Analyze cost, limitations, resources, and differences with 3D printing.

H2 Course Development and Planning for Advanced Practice Providers - Lauren Young
This presentation will discuss four stages critical to the success of providing an Advanced Practice Provider course involving lecture and skills. Following these four critical stages will ensure a timely, cost effective quality product that can be easily replicated.
Learning Objectives:
Describe the four stages of course development.
Describe strategies for preparing, testing and evaluating courses prior to implementation.
Discuss approaches to course development and implementation with peers.

H4 Copy/Paste Yourself! The Art of Lifecasting for Medical Simulation - William Belk & David Shablak
Lifecasting is the process of creating a three-dimensional copy of a living human body through the use of molding and casting techniques. In this course, students will learn the steps of lifecasting and gain hands-on experience while they create one or more realistic body parts to keep for their collection. The information gained from this session will allow learners to leave with a solid understanding of the lifecasting process and apply it to their own practice in healthcare simulation.
Learning Objectives:
Review the materials used in lifecasting as well as their costs, strengths, weaknesses and applications.
Explain the step-by-step process of casting and molding a human subject.
Apply the techniques learned in a hands-on lifecasting lab experience.

H5 Escape Rooms: Simulation Based, Healthcare Themed, Gamification, and You - Matt Charnetski, Katherine Byrd, Lori Lioce & Todd Dadaleares
Escape rooms have become all of the rage recently. Family and friends are gathering in record amounts to test their wits against the puzzles, codes, and challenges in these events around the world. Shockingly enough, these activities translate into the learning and practice of all sorts of hard and soft skills that can be used in the delivery of healthcare, working in healthcare teams, and in patient interactions. In this hands on workshop, participants will learn the ins and outs of putting together a simulation-based, healthcare themed escape room. Logistics, supplies, sample rooms and puzzles, no nook or cranny is safe!
Learning Objectives: Compare and contrast the strengths and weaknesses of different escape rooms relative to the needs of health professions education.
Collaborate in small inter-professional groups to create an escape room flow that can be implemented at their home institutions.
Apply lessons learned from participants and presenters to integrate with other presentations from SG20USA creating a escape room lesson plan for future use!

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CONCURRENT SESSIONS

BLOCK I

I1 Learn, Link Lead to a Preventative Maintenance Program - Billie Paschal & Amy Wise
Implementing and maintaining a Preventative Maintenance program for education and hospital-based simulation centers is essential to ensure reliable simulation delivery. Creating and implementing such initiatives can be a daunting task but is achievable if approached in a systematic way. In this workshop we will link usage, needs, equipment and vendor documentation. Learn what needs to be considered for each stage to develop a short, mid and long term maintenance plan. This knowledge will lead to creating a comprehensive preventative maintenance program that will meet the accreditation requirements and industry standards of best practice. Learning Objectives:
- Determine the appropriate time frame per Simulation Usage for a Preventive Maintenance Program
- Create a checklist based on Simulation usage and time frame (short, medium, and long term)
- Describe the supplies and tools needed for implementing and maintaining a preventative maintenance program

I2 How to Use the SimGHOSTS Capability Framework: Writing Position Descriptions, Performance Plans and Training Plans - Kirrian Steer
The SimGHOSTS Capability Framework for Healthcare Simulation Technology Specialists has been developed from researching hundreds of position descriptions from around the world and consultation with experts. In this workshop you will learn how to use the framework to plan simulation team roles, write position descriptions, and develop performance and training plans to support team or individual development. Learning Objectives:
- Define healthcare simulation technology roles and performance descriptors.
- Identify key indicators for progression from novice to expert.
- Develop key documents for team management in healthcare simulation technology roles.