Dear Simulation Specialists,

Thank you for joining the largest, most innovative and passionate group of individuals dedicated to supporting healthcare simulation around the world.

2018 is a great year for all of us. Now in its 8th year, the Gathering of Healthcare Simulation Technology Specialists (SimGHOSTS) has firmly established itself as a global simulation training partner.

We are proud to have signed 10 international affiliations with the Society for Simulation in Healthcare SSH, INACSL, ASPIH, PASSH, IPSS, Simulation Australia, ASPE, SimONE, HiMSS, Patient Safety Movement and collaborated with 3 SESAM conferences last year in Lebanon, Singapore, and France.

We are here to serve and connect hundreds of like-minded individuals to collaborate and learn at our hands-on training conferences. In 2018 we are building our research focus in our work achieve our mission and vision. We have already established a great team and have two research projects underway to gain a better understanding of issues that affect us all as a community.

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 aim 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 quality learning.

Thank you for taking the step to make yourself a better facilitator, educator and team member by joining us in our quest. We hope you meet someone new, reignite your passion for simulation and share your experiences with the world! Please take your time here to learn something new and meet with other members, both novice, and veteran. We hope you discover, as we have, that Simulation Specialists are friends you want to meet and keep.

Our conferences are unique to the world of simulation because we connect you directly with our vendor industry partners to learn how to use and service their products. Make sure to take advantage of this opportunity to learn tips and tricks directly from the source.

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

Welcome to SimGHOSTS!

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

The SG18USA 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 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 SG18USA Program includes:
- High-fidelity manikin hardware & software operation, maintenance and repair
- Audiovisual system design and integration, operation, and troubleshooting
- Learning Management System troubleshooting
- IT networking
- Team leadership and communication techniques
- Moulage, staging and DIY creations.
- Basic medical terminology, physiology, pharmacology
- Healthcare education practices.
- Virtual environments and 3D image rendering

WHO SHOULD ATTEND SG18USA?

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 30 USD $495
Regular - USD $625

Pre-Conference Workshops:
CHSOS Readiness Review Course $275
Introduction to Moulage $200
Advanced Moulage $200
Full Day Moulage - combines Introduction and Advanced workshops $350
Exploring Laerdal Software Applications - SimPad PLUS vs. LLEAP $75
CAD Design for Beginners $75

Take advantage of a special membership discount to SimGHOSTS at only $54. That's a saving of 10%. See page 8 for details of membership benefits

Refunds
Refunds are available until June 30th 2018. Partial refunds are available after this date. Registrations are transferable.

HOST: The University of Tennessee Health Science Center

The Center for Healthcare Improvement and Patient Simulation (CHIPS) is a world-class, 45,000-square-foot, standalone simulation facility located at the University of Tennessee Health Science Center (UTHSC) in Memphis.

CHIPS is dedicated to improving healthcare training and positively affecting patient safety. Students from the six colleges at UTHSC – Dentistry, Graduate Health Sciences, Health Professions, Medicine, Nursing, and Pharmacy – participate in activities at CHIPS. CHIPS is also a resource to UTHSC residency programs and UTHSC’s local clinical partners.

LEARN MORE ABOUT UTHSC HERE
SimGHOSTS has partnered with The DoubleTree by Hilton Memphis Downtown as the official hotel for SG18USA. This hotel is located in the heart of Memphis's downtown and is only minutes away from the venue and things to do.

**DoubleTree by Hilton Memphis Downtown**

The DoubleTree by Hilton Memphis Downtown serves as the official accommodation space for SG18USA! Located at 185 Union Avenue, Memphis, TN, 38103, this modern hotel puts you right into the heart of downtown Memphis. Across the street from the AutoZone Ballpark (where the opening reception will be taking place), this downtown Memphis hotel is just three blocks from historic Beale Street’s blues clubs and restaurants. Each room features the Sweet Dreams Bed by DoubleTree with a plush top-mattress and premium linens, armchair with ottoman, work desk, coffeemaker, FM/AM clock radio with mp3 connection and a flat-panel TV with HBO, pay movies and, most importantly FREE Wi-Fi! Other amenities also include a large outdoor pool, gift shop, ATM, newsstand and safe-deposit box. SimGHOSTS have negotiated for free breakfast for all event attendees and parking is available for $26 per night. The link and discount code for making your hotel reservation are provided in your registration confirmation email.

**La Quinta Memphis Downtown**

As an alternative to the Doubletree we have also arranged accommodation at La Quinta Memphis Downtown. Please call 1-901-522-2383 and ask for the SimGHOSTS rate. This is $148 per night plus taxes and includes parking, breakfast, wifi and an area shuttle.
TRANSPORTATION

FROM MEMPHIS INTERNATIONAL AIRPORT (MEM) TO HOTEL
The closest airport to both the hotel and venue is the Memphis International Airport. MEM features a variety of transportation options to the hotel.

**By Car:** MEM offers rental car stations for almost every major rental company such as Alamo, Hertz, Enterprise and more. Rental cars are located in Ground Transportation center on the lowest level of Terminal B. Taxis are located just outside of Terminal B and Uber and Lyft pickup points are located outside Terminals A,B and C. Wheelchair-accessible providers are available.

**Airport-to-Hotel Shuttle Service:** Memphis International provides shuttle services to many area hotels, including the DoubleTree Memphis Downtown host hotel. The shuttles are located in the baggage claim area near the exits, look for overhead signs indicating the location for hotel shuttle stops. Check out the airport's official website for a list of all participating hotels.

**Public Transportation:** The airport is an official Memphis Area Transit Authority (MATA) bus stop and busses run every hour. MATA Bus #64 picks up about every hour Monday through Friday from 6:17 am to 10:42 pm, with hourly Saturday pickups from 7:02 am until 9:02 pm Sunday pickups take place hourly between 7:02 am and 7:02 pm. Check MATA's official website for full bus schedules.

BETWEEN HOTEL AND UTHSC

The UTHSC campus is located approximately 1.1 miles away from the hotel, which translates to about a 20 - 30 minute walk. However, if you don't want to walk, some transportation options are available to/from the hotel and venue:

**Shuttles:** SimGHOSTS is providing free shuttles to and from the official site hotel and the venue at the beginnings and ends of each conference day.

**Trolleys:** MATA provides a system of Trolleys for Memphis's downtown. There is an adjacent station a little ways from the hotel where you can board the Madison Avenue Line and take that directly to the conference venue.

**Parking:** If you are bringing your own car, or choosing to rent a car, parking is available at the venue.
SIMGHOSTS SUBSCRIPTION

The learning doesn't stop at SimGHOSTS events! Join 3,000 simulation champions from around the world communicating every day answering questions, sharing tips, and creating content! During registration, you will have the option to join or renew a 12 month subscription to SimGHOSTS for just $54 - a 10% discount!

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!

**Weekly or Daily Newsletter** - Follow all the latest updates with a weekly newsletter of blog and forum topics.

**Forums Discussion Groups** - Ask questions, gather answers, search for previous conversations, and share your successes on the only permanently saved forums dedicated to the operation of simulation technology.

**Document Database** - Download community provided templates, example forms, policy and procedure guides, job descriptions, standard operating procedures, tutorials, and more.

**Simulation Jobs Board** - Post and read open positions specifically related to healthcare simulation.

**Online Training Programs** - Exclusive to subscribers is access to our online training courses covering a range of simulation technology operational topics.

JOIN OR RENEW DURING SG18USA EVENT REGISTRATION
Level 3 Healthcare together with SIMStation Europe and North America are returning as Platinum sponsors of SimGHOSTS USA 2018! Level 3 Healthcare are an award winning audiovisual system integration company working with hospitals and simulation facilities worldwide and are the exclusive distributors of SIMStation in the US.

The Level 3 Healthcare team includes a customer-focused group of medical engineers trained in the process of integrating current audiovisual technology to medical work spaces, clinical training centers and simulation labs. They provide advanced multimedia solutions in OR’s, ER’s, ED’s and medical education centers. Level 3 Healthcare have pioneered designs in large anatomy labs, dental training facilities, telehealth initiatives, live HD video distribution, 3-D surgical theaters, recording, archiving, content management and video media retrieval systems. Their competency is integrating the myriad of medical, simulation, broadcast and professional technology into a seamless, easy to use system, curriculum or application to improve efficiency, workflow and learning.

SIMStation was founded in 2011, with a background of 20 years’ experience as a professional service company in the fields of multimedia software, as well as broadcasting and stage media technology. They design and develop highly innovative audio-visual systems for medical simulation, and advise simulation and training centres on the planning and implementation of simulation-technology facilities. As technicians and enthusiasts of medical simulation, with our mobile and stationary AV installations, SIMStation see it as their duty to set a new standard in the field of audio-visual debriefing through increased operational quality and ease, and as a result facilitate more effective debriefings for everyone.

Find out more about Level 3 Healthcare and SIMStation here
CAE Healthcare is a healthcare training partner of choice, delivering leading-edge simulation-based solutions to hospitals, physicians, nurses, students, emergency responders and the military around the world.

With a mission to improve patient safety and outcomes, CAE Healthcare develops each product in partnership with clinicians and clinical educators whose aim is to ensure physiological accuracy and educational relevance.

Visit the CAE Healthcare booth to learn about our advanced patient, imaging and interventional simulators, evidence-based curriculum and audiovisual solutions for simulation center management and debrief.

Ask about the CAE Healthcare Academy’s professional services and our turnkey training solutions.

Find out more about CAE Healthcare here
Whether you're running a single simulation event or thousands, EMS' SIMULATIONiQ™ uses the latest web-based technologies to simply and seamlessly capture, organize, and analyze the full spectrum of your clinical skills and mannequin-based simulation efforts.

EMS offers innovative solutions for clinical simulation training environments, integration with simulators, audio-video technology, design and planning, engineering, configuration, installation, training, and one-call support for both software and hardware.

As simulation management technology and methodology become more sophisticated, it is important for sim tech staff to be an ongoing partner for planning, maintenance, and problem solving. To optimize center operations, sim tech staff need to interact not only with internal stakeholders but also with external simulation management companies such as EMS to see that: all needs and requirements are met; continuous engagement is maintained before, during, and after a center is built; and common ground is established between educators, planning staff, and IT, ensuring successful outcomes.

For 25 years, EMS has led the industry with a reputation for superior and dependable solutions, unprecedented levels of customer service, and innovation that keeps our customers on the leading edge.

Find out more about SIMULATIONiQ here
Laerdal is dedicated to our mission of Helping Save Lives. For more than 50 years, Laerdal has remained a world leader for healthcare education, training, and therapy solutions.

In collaboration with renowned researchers and prominent partners, Laerdal develops products, programs, and services designed to increase survival, improve patient outcomes and reduce medical errors.

Trusted to build competence of healthcare providers, educators, and lay rescuers, our evidence-based solutions address the changing needs of healthcare organizations. By implementing what has been shown to work within the areas of resuscitation, patient safety, and global health, we believe we can help save 500,000 more lives, every year.
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.

Heart and Lung sounds can be synchronized to the pulse and breathing of a mannequin or SP. Low cost and easy to use. You can even use any MP3 file you own on our device!

Increase throughput of your sim center by having the SP operate the device while freeing the sim tech to do other activities.

Check out our full sound library of heart, lung, bowel, vascular, and percussion files and our new line of products too. Increase the reality of all your mannequin and SP scenarios quickly and simply!

Simulaids began producing trauma moulage products in the town of Woodstock in 1963. The first order was received and we were on our way. Simulaids’ moulages were the first commercially available wounds for EMS practice.

Since our formation, we have led the industry with many firsts which include: “Sim” in our name, CPR Baby manikins, Fire and Water Rescue Manikins, intubation heads manufactured of silicone, hand held Personal Data Assistants for controlling patient simulators, and new silicone moulages offering realistic details and a lifelike feel.

Simulaids is proud to currently offer patient simulators controlled by the iPad.
Health Scholars was founded by healthcare professionals who recognized the need to advance immersive education and clinical training effectiveness. Our mission is to improve patient safety via the delivery of experiential learning and advanced simulation to nurses, physicians and team-based healthcare staff via a single, future ready education platform. One that is easy to use, is scalable across a health system, and more effectively manages, delivers and analyzes clinical learning programs.

The Health Scholars One™ blended learning platform delivers advanced learning technologies, methodologies and the best mix of modern and engaging content, including virtual reality simulations. It improves the efficiency of delivering blended learning programs along with the effectiveness of education to enable confident care. Health Scholars is headquartered in Denver, Colorado and has clinical and support operations embedded in the Jump Trading Simulation and Education Center in Peoria, IL.

Echo Healthcare is a progressive health care simulation and technology company, focused on improving educational experiences through innovation. By providing a level of service never before seen in the industry, Echo Healthcare promises to deliver on the commitment of putting customers first! With over 20 years of medical simulation experience, the team at Echo Healthcare understands that customers need products and services that meet today's demand. Echo Healthcare is proud to represent select global brands that are aligned with our mission to improve patient care through education. To learn more, check us out to see how we are redefining service excellence and innovation!
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

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.

Click Here to Learn More

KbPort is a software and hardware development company, with 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

Interactive Solutions, Inc. (ISI) is an audio visual integrator with over 20 years’ experience designing, installing and supporting custom AV solutions with a specialty in medical simulation labs. ISI is uniquely qualified to serve simulation lab projects that require custom audio visual integration across the country.

Click Here to Learn More
VirtaMed is the world leader in high-fidelity virtual reality simulation for training of minimally invasive diagnostic and therapeutic interventions in orthopedics, urology, and OB/GYN. VirtaMed also creates customized simulators for medical associations and medical device companies using original instruments and anatomic models for realistic tactile feedback.

Click Here to Learn More

B-Line Medical is a patient safety company focused on solutions designed to help manage healthcare simulation centers and supplement hospital quality improvement initiatives through recording, debriefing, data, and operations management. Since our founding in 2004, we have amassed over 500 clients in almost 40 countries around the world and are more dedicated today than ever to delivering a product that helps mold the future of medical education.

Click Here to Learn More

OtoSim Inc, is a leader in otoscopy and ophthalmoscopy simulation systems. This year, we will be showcasing our new otoscopy simulation products; OtoSim Educators Portal and OtoSim Mobile, along with our existing products OtoSim 2, PneumatoSim and 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

Curtis Life Research (CLR), established in 2015, is a medical device company that engages in the research and development of hi-fidelity medical simulators for life-saving treatments. Our first product, EigenFlow went on sale in 2015 and is used in over 20 hospitals nationwide. In 2018, CLR partnered with SimAction to become the exclusive distributor of SimSeize / SimDefib a simulated seizure training device.

Click Here to Learn More
TraumaSim® has been providing medically accurate products and services designed to simulate traumatic injury and medical conditions for the training and assessment of medics and healthcare professionals since 2008. The use of simulation in modern healthcare and emergency training is a vast and growing industry as students in healthcare are no longer able to simply access clinical placements for practice of skills.

Click Here to Learn More

Stop by to experience a hands-on demo of the Simbionix LAP Mentor laparoscopic surgical simulator. 3D Systems offers a complete line of training simulators that include the 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 healthcare@3dsystems.com

Click Here to Learn More

7-SIGMA Simulation Systems
7-SIGMA Simulation Systems (7S3) is proud to present the 7S3 Modular, High Fidelity Airway Trainers and other airway management training models with conformable sensor technology. 7S3 Modular Airway Trainer is unparalleled in realistically simulating intubation. Modular construction allows a versatile training system that translates into superior patient care, training many pathologies and complications. Medical professionals state that using the 7S3 trainers: “Closely simulates my actual live intubations” and “These trainers are a must have for practicing plus verifying simulation education”

Click Here to Learn More
TUESDAY, JULY 31: PRE-CONFERENCE

8:15 AM - BUS DEPARTS DoubleTree by Hilton Memphis Downtown Hotel

9:00 AM - MORNING PRE-CONFERENCE SESSIONS (INCL. BREAK) Details page 26
P1 CHSOS Readiness Review Workshop $275 *FULL DAY SESSION*

P2 CAD Design for Beginners $75

P3 Introduction to Moulage Workshop $200 /P5 Add Advanced Moulage for only $150

12:30 PM - LUNCH BREAK

12:45 PM - BUS LEAVES DoubleTree by Hilton Memphis Downtown

1:30 PM - AFTERNOON PRE-CONFERENCE SESSIONS (INCL. BREAK) Details Page 26-27
P4 Advanced Moulage Workshop $200

P5 Combined Introductory and Advanced Moulage Workshops $350

P6 Exploring Laerdal Software Applications - SimPad PLUS vs. LLEAP $75

5:00 PM - PRE-CONFERENCE WORKSHOPS END

5:10 PM - BUS RETURNS TO HOTEL
WEDNESDAY AUGUST 1 - CONFERENCE DAY 1

7:00 AM - BUS DEPARTS DoubleTree by Hilton Memphis Downtown Hotel

7:15 AM - REGISTRATION & EXHIBIT SPACE OPEN

8:00 AM - WELCOME AND OFFICIAL OPENING

8:20 AM - KEYNOTE PRESENTATION
More Than Just a SimTech - An Open Opportunity
David Escobar - Director of Simulation, Level 3 Healthcare

9:25 AM CONCURRENT SESSIONS BLOCK A - Platinum and Gold Sponsors
A1 Networked Audio Visual Systems - EMS (INT)
AV and IT Track
Session details page 29

A2 SimMan 3G and SimMan Essential Fundamentals: Performing Updates - Laerdal (BEG)
Simulation Technology Track
Session details page 29

A3 Under the Hood of Ares - CAE (BEG)
Simulation Technology Track
Session details page 29

A4 Measuring Competency Based Medical Education: Using Artificial Intelligence to Analyze Curriculum - EMS (INT)
Simulation Technology Track
Session details page 29

10:15 AM MORNING BREAK & EXHIBIT SPACE OPEN
10:45 AM CONCURRENT SESSIONS BLOCK B

B1 Crack the Code: Utilizing Visual Basic to Make Medication Labels and More (INT)
AV and IT Track
Session details page 30

B2 Sculpting, Casting and Molding Workshop $40 (BEG)
Moulage and Simulated Patient Track
Session details page 30

B3 3D Virtual Reality, 3D Printing, and Beyond: Novel Simulation of the Shoulder Intraosseous Infusion (ADV)
Simulation and Technology Track
Session details page 30

B4 From an Excellent Center to a Center of Excellence - Clinical Simulation in the Developing World (INT)
Operations and Management Track
Session details page 30

B5 Data Capture from Simulation Technology: What Can I Capture and How Can I Use it? (INT)
Simulation Technology Track
Session details page 31

B6 The Clinical Technician’s Guide to Operating Simulation (BEG)
Medical/Clinical Track
Session details page 31

B7 Simulation Infrastructure Design Guidelines (INT)
Operations and Management Track
Session details page 31
WEDNESDAY, AUGUST 1 - CONFERENCE DAY 1

12:45 PM LUNCH BREAK & EXHIBIT SPACE OPEN

2:00 PM - CAE GOLD PLENARY
Medical Students vs. Virtual Reality
Dr. Chad Epps

3:00 PM - AFTERNOON BREAK AND EXHIBIT SPACE OPEN

3:30 PM - CONCURRENT SESSIONS BLOCK C
C1 AV 101 - AV Concepts for the Non IT/AV Simulation Tech Specialist (BEG)
The Rise of No-Code Platforms and the Democratization of Serious Game Solutions for Health (BEG)
AV and IT Track
Session details page 33

C2 Custom Simulation Innovation: Designing Your Specific Needs (INT)
Simulation Technology Track
Session details page 33

C3 "Touching" The Realistic Possibilities of Moulage (BEG)
Moulage and Simulated Patient Track
Session details page 33

C4 UTHSC CHIPS Tour (BEG)
Operations/Management Track
Session details page 33

C5 Kids- They're Not Just Tiny Adults: The Essentials for Pediatric Simulation (INT)
Medical/Clinical Track
Session details page 34

C6 Mental Simulation: An Untapped and Cost-Effective Resource to Cultivate Safe and Accurate Decision Making (ADV)
The Role of Simulation in Knowledge Translation of Resuscitation in Undergraduate Medical Education (ADV)
Education Track
Session details page 34
WEDNESDAY, AUGUST 1 - CONFERENCE DAY 1

4:30 PM - CONCURRENT SESSIONS BLOCK D - Silver & Gold Sponsors
D1 Adding to AI: Patient Profile Design, Expanding the Intelligence of Patient Communication Simulators - Simulaids (INT)
Simulation Technology Track
Session details page 35
D2 Absolute Realism...No Stickers - Lecats Ventriloscope (BEG)
Simulation Technology Track
Session details page 35
D3 Under the Hood of Lucina - CAE (BEG)
Simulation Technology Track
Session details page 35
D4 Redefining High Fidelity: What it means to your practice - Echo Healthcare
Simulation Technology Track
Session details page 35
D5 Is your Simulation Program Future Ready? - Health Scholars (BEG)
Simulation Technology Track
Session details page 35

5:30PM - CLOSE/BUS RETURNS TO HOTEL

6:30 PM - OPENING RECEPTION: Memphis Redbirds game at AutoZone Park

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

7:30 AM - BUS DEPARTS  DoubleTree by Hilton Memphis Downtown Hotel

7:45 AM - EXHIBIT SPACE OPEN

8:30 AM - DAY 2 ANNOUNCEMENTS

8:45 AM - GOLD SPONSOR EMS PLENARY LECTURE
Brittney Wilson, The Nerdy Nurse

9.50 AM - CONCURRENT SESSION BLOCK E
E1 DIY Simulated Patient Electronic Health Record: An Introduction (INT)
Simulation Technology Track

E2 Replacing IV Tubing for Pediatric Manikins (BEG)
Simulation Technology Track

E3 Your AV Integrated Sim Center and How to Support It (BEG)
AV and IT Track

E4 Staffing Overhaul in Simulation Centers (INT)
Operations & Management Track

E5 UTHSC CHIPS Tour (BEG)
Operations & Management Track

E6 Preparing Students for a Better Simulation Experience (BEG)
Benefits of Team-Based Multi-Level Professional Simulation-Based Training (BEG)
Education Track

E7 A Day in the Life: Creating a full day Simulated Clinical ER (INT)
Education Track

10:45 AM - MORNING BREAK & EXHIBIT SPACE OPEN
11:15 AM - CONCURRENT SESSION BLOCK F

F1 Enhancing Fidelity Through Sensory Perception (INT)
Moulage Track

F2 Conquering the Growing Need for SPs and Coordination in Simulation Programs (INT)
Operations and Management Track

F3 Sculpting, Casting & Molding Workshop $40 (BEG)
Moulage Track

F4 Building a Winning TEAM with TeamSTEPS: A Novel Approach to IPE Simulation (BEG)
Education Track

F5 Arduino for the Simulation Technician $75 (INT)
AV and IT Track

F6 Poster Presentations & Innovation Showcase (BEG)

F7 How to Innovate in your Simulation Center (BEG)
Professional Development Track

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Session details page 41

1:00 PM - LUNCH & EXHIBIT SPACE OPEN

2:00 PM - LAERDAL GOLD PLENARY LECTURE
Using xAPI to Collect Learning Data from Simulations - Chad Jackson, CHEST

Lecture details page 42

3:00 PM - AWARDS CEREMONY

3:10 PM - AFTERNOON BREAK & EXHIBIT SPACE OPEN
THURSDAY, AUGUST 2 - CONFERENCE DAY 2

3:40 PM - CONCURRENT SESSION BLOCK G
G1 Parkview Mirro Advanced Simulation Laboratory Video In-Situ Debriefing Systems (VIDS) (INT)
AV and IT Track
Session details page 43
G2 Taking Hi-Fidelity Simulation from South Africa to Tanzania (INT)
Simulation at 30,000 Feet: High Stakes Critical Transport Evacuation Exercises (BEG)
Education Track
Session details page 43
G3 "Can I have that back?" A Beginners Guide to Reusing Clinical Supplies in Simulation (BEG)
Use Materials You Already Have to Make Hybrid Simulations More Realistic (INT)
Operations and Management Track
Session details page 43
G4 Teach What You Can, Recruit What You Cannot Teach (INT)
Operations and Management Track
Session details page 43
G5 UTHSC CHIPS TOUR (BEG)
Operations and Management Track
Session details page 44
G6 Evaluating Simulation Technology for Purchasing Decisions (INT)
Simulation Technology Track
Session details page 44
G7 A Review and How to Operationalize the Revised INACSL Standards of Best Practice: Simulation 2018
Operations & Management Track
Session details page 44

4:40 PM - CONCURRENT SESSION BLOCK H
H1 Virtual Field Trauma Triage (ADV)
IT and AV Track
Session details page 44
H2 Experience and Lessons Learnt from Realistic Simulation Events (BEG)
Moulage Track
Session details page 44
H3 The Effect of Repeated Simulation Experience on Undergraduate Students' Self-Confidence (INT)
Sentinel Events and Simulation (INT)
Education Track
Session details page 44
H4 Quick Tips for Implementing the PEARLS Framework in Your Debriefing (INT)
Education Track
Session details page 45
H5 Associate degree in Healthcare Simulation Technology: Standardizing the profession
Professional Development Track
Session details page 45
H6 UTHSC CHIPS Tour (BEG)
Operations and Management Track
Session details page 45

5:40 PM - BUS RETURNS TO HOTEL
FRIDAY, AUGUST 3 - CONFERENCE DAY 3

7:45 AM - BUS DEPARTS DoubleTree by Hilton Memphis Downtown Hotel

8:30 AM - CONCURRENT SESSION BLOCK I
I1 - Programming with Trends and Handlers in LLEAP (INT)
Simulation Technology Track

I2 - 3D Virtual Reality, 3D Printing and Beyond: Novel Simulation of the Shoulder Intraosseous Infusion (ADV)
IT/AV Track

I3 - Building a Winning TEAM with TeamSTEPS: A Novel Approach to IPE Simulation (BEG)
Education Track

I4 - The PADDIE+M Approach to Scenario Design (INT)
Education Track

I5 - L3HC Sponsored Panel: Professional Development - The Simulation Operations Specialist Responsibility and Opportunity Path (BEG)
Professional Development Track

I6 - Effective Leadership and Management in Simulation Technology (INT)
A Practical Approach to Emotional Intelligence and Difficult Conversations (INT)
Operations and Management Track

10:30 AM - TO ERR IS HUMAN: A PATIENT SAFETY DOCUMENTARY
Special screening

12:30 PM - EVENT CLOSES

12:45 PM - BUSES RETURN TO HOTEL AND MEMPHIS INTL AIRPORT
**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**
1. Learn the components of the certification process. The workshop introduction will focus on exam prerequisites, the application process and the study resources available. The casual format encourages interaction.
2. Identify your exam content strengths and weaknesses. The CHSOS exam blueprint will be the basis for discussion about the content. Instructors will focus on the five knowledge domains of the exam: concepts in healthcare and simulation, simulation modalities and technologies, healthcare simulation program practices/processes/procedures, professional role development, and instructional design theory.
3. 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.

Facilitator: Matt Charnetski

**P2 CAD Design for Beginners**
This is beginners, hands-on course designed to teach healthcare simulation technicians/specialist how to use the power of Autodesk Fusion360 (CAD) to design or improve training devices for use in simulation scenarios. No previous experience using CAD or 3D printing is required. Course will focus on fundamentals and best practices with using the software. Skills covered will include Sketches, Rendering, Exporting for 3D printing, and more.

Facilitator: David Escobar

**P3 Introduction to Moulage**
Moulage improves the outcome of training by adding realism to health care scenarios and forcing participants to face realistic injuries and situations in a controlled learning environment. Moulage in nursing, medicine, paramedical and allied health simulations improves learning and take up of skills. During this introductory workshop we will teach techniques suitable for live role players or manikins. This workshop will cover simple techniques used to create injuries and the application and presentation of premade wounds.

Facilitator: Nola Pearce

**P4 Advanced Moulage**
Moulage improves the outcome of training by adding realism to health care scenarios and forcing participants to face realistic injuries and situations in a controlled learning environment. Moulage in nursing, medicine, paramedical and allied health simulations improves learning and take up of skills. During this workshop we will teach more advanced moulage techniques. Prerequisite is the TraumaSim Moulage Course.

Topics covered include bone creation, freehand sculpting of more complex wounds, open fractures, skin flaps and problem solving.

Facilitator: Nola Pearce

**P5 Introduction and Advanced Moulage**
Combine both moulage sessions for a full day workshop for just $350 - a saving of $50

Facilitator: Nola Pearce
P6 Exploring Laerdal Software Applications - SimPad PLUS vs. LLEAP

Come learn about the solutions designed to meet the specific needs of your Simulation Lab. Focusing on the LLEAP and SimPad PLUS applications, participants will be able to identify the key differentiating functionalities of the two platforms and have the opportunity for hands-on exploration.

Learning Objectives:
• Explain operation and navigation of LLEAP Simulation Homepage
• Identify unique features of SimPad and LLEAP platforms
• Explain operation and navigation of SimPad PLUS and system settings

Facilitators:
Rami Leventhal, Steve Ospina, Anthony Spadaro
KEYNOTE ADDRESS

MORE THAN JUST A SIM TECH - AN OPEN OPPORTUNITY

David Escobar EMT-I, CHSOS
Director of Simulation
Level 3 Healthcare

David joined Level 3 Healthcare in January 2017 and just over a year later was appointed Director of Simulation. David has over 10 years' experience as an Emergency Medical Technician (EMT-I) and is a Certified Healthcare Simulation Operations Specialist (CHSOS).

A familiar face at SimGHOSTS events, David was involved in the first ever Hackathon at the 2017 event and was part of the host team at the 2015 event. He has presented on 3D printing in simulation, produced several educational videos that can be found on LinkedIn, and has consulted on simulation center build-outs.
CONCURRENT SESSIONS

BLOCK A

A1 Networked Audio Visual Systems - Mark Jarvis
The presentation will explore how networking technologies and topologies are impacting audio-visual system design and implementation. Topics will include basic network architecture, types of video capture and recording devices, and developments in distributing audio and video signals over standard Ethernet networks.

A2 SimMan3G and SimMan Essential Fundamentals – Performing Updates - Rami Leventhal, Steve Ospina & Anthony Spadaro
Focusing on SimMan 3G and SimMan Essential simulators, this hour-long session will demonstrate how to make required operating system, software and manikin updates to help ensure your simulators are always running at optimal levels. Maintaining the latest system versions is the foundation to keeping equipment available and ready when simulators are called into action.
Learning Objectives:
Describe the process of performing LLEAP and manikin updates
Discuss the importance and steps to updating Windows operating system
Review calibrating of blood pressure cuff and flow meter

A3 Under the Hood of Ares - Alexander Rondero
This hands-on course will review the most common tips and tricks for identifying and resolving issues with patient simulators. Lessons learned can be put to use across the full array of patient simulators. This session will include mannequin troubleshooting, access, maintenance and tips.
Learning Objectives:
Describe techniques for troubleshooting simulator wireless issues
Describe preventive maintenance procedures
Demonstrate simulator standard operating procedures

A4 Measuring Competency Based Medical Education - Using Artificial Intelligence to Analyze Curriculum - Lynn Welch
A hands on demonstration and lecture on innovative Artificial Intelligence driven solutions for migrating medical education programs to a Competency Based Medical Education (CBME) model. Real world examples of the power of machine learning to harvest assessment data across multiple subsystems including education curriculum assessments such as BlackBoard and ExamSoft and active simulation based practice (including A/V). Automate data mapping against core competency measurements such as Entrustable Professional Activities (EPAs), Body Systems, or Skills. Leverage existing data to create a machine learning driven proactive monitoring system for learner performance, creating learner remediation plans and reviewing individualized learner “fingerprints” of competency mastery across all educational phases.
B1 Crack the Code: Utilizing Visual Basic to make Medication Labels and More - Stephanie Swanson
Simulated medications can be a large part of preparing for a simulation. At ZIEL we have developed a formulary and program to standardize and automate our medication labeling process, saving time and rework. This session will give an overview of the ZIEL process as well as have an opportunity to get familiar with the SimuLabels program code for troubleshooting. Each participant will leave with a copy of the medication program to implement in their facility. All skill levels welcome.
Learning Objectives:
- Understand how a centralized formulary for simulated medications can positively impact the quality of programming delivered in their facility.
- Utilize the VBA program to create customized medication labels on demand for simulation events.
- Evaluate and discuss opportunities to apply automation to other aspects of technical operations.

B2 Sculpting, Casting and Molding Workshop - Nola Pearce
This workshop is for more advanced moulage technicians who wish to create replicable silicone wounds. This workshop will not have adequate time to demonstrate painting of the finished product but will cover information on this process. We will be using skin safe silicons and professional grade products.
In a 2 hour period we will cover:
- Products, tools and techniques to sculpt a simple wound
- Products and tools to create a reusable silicone mold from the sculpt
- Products and techniques to make a silicone cast from the mold.
Participants will have time to create a small basic mold to keep. The final cast from the participants mold is unlikely to be set in time for the completion of the session but will be available for collection later.

B3 3D Virtual Reality, 3D Printing, and Beyond: Novel simulation of the shoulder intraosseous infusion. - Yixing Chen
As shoulder intraosseous infusion (IO) popularity continues to rocket in clinical setting, more and more healthcare providers are being trained every day to provide proper shoulder IO procedure. Using CT scans from a cadaver, the University of Toledo (UT) have developed a 3D Virtual Reality (VR) rendering of proper and improper visualization of shoulder IOs. To help learners practice, UT developed 3D printed task trainers that can be attached to a common high fidelity simulators.
Learning Objectives:
- Learn how to develop 3D medical models using CT scans
- Identify the steps involved to develop 3D printed task trainers
- Compare simulation techniques for shoulder IO

B4 From an Excellent Centre to a Centre of Excellence - Clinical Simulation in the Developing World - Numair Shahpur
This workshop provides insight into how the ‘Clinical Simulation’ body of knowledge, and associated practices and beliefs held in developed countries requires translation to the contexts of the developing world. It also provides a unique insight into lessons being learned, challenges being faced and innovations developed, as one Centre edges towards international accreditation and excellence.
Learning Objectives:
- Understand the transition healthcare professionals must make as they become specialists in clinical simulation
- Understand the challenges of introducing new systems, technological, educational and managerial, within the context of a university with established norms and ways of doing things
- Understand the cultural dimension to models of simulation education practice and how these require adaptation from culture to culture
**B5 Data Capture from Simulation Technology: What Can I Capture and How Can I Use It? - Billie Paschal & Rachel Bailey**

Learn about the data that is collected by different technologies found in a simulation centre, identify how to extract it and discover how it can be used for troubleshooting, research, budgeting, assessment, quality improvement and more.

**Learning Objectives:**
- Understand the range of data that is collected by technology used in simulation settings.
- Learn how to extract and collate data from simulation technology.
- Provide examples of simulation data being used for research, quality improvement and patient safety.

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**B6 The Clinical Technician's Guide to Operating Simulation - Scott Crawford**

This workshop will allow participants to practice and review their medical care knowledge in order to understand what their participants experience during sim. Workshop attendees will review the combination of medical case stimuli and resultant pathophysiology that direct participant actions from the other side of the glass. The workshop will review 5 cases from each of 5 common chief complaints sets (chest pain, shortness of breath, abdominal pain, altered mental status, and pelvic pain/vaginal bleeding) to give healthcare simulation technology specialists hands-on review to make their sims better and more realistic. Workshop participants will review common pathology and medical care considerations with instruction on clinical application.

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**B7 Simulation Infrastructure Design Guidelines - Ferooz Sekandarpoo**

In 2004, the University of British Columbia (UBC) Faculty of Medicine (FoM) initiated its Distributed Medical Program (DMP), the purpose of which is to provide equal access to medical teaching and training for students, residents, and practicing physicians across Province of British Columbia. The Distributed Medical Program DMP is made possible by technology-enabled learning spaces located at university sites (UNBC, UBCO, UVic, and UBC) as well as clinical education facilities located across the province. Many of these spaces are also videoconference (VC)-enabled and are connected to each other via the central VC Bridge, all of which rests on a dedicated network specifically designed to support quality of service high-definition videoconferencing.

The FoM has created infrastructure guidelines for technology-enabled learning spaces based on industry best practices and extensive organizational experience developed since 2004. For every type of technology-enabled learning space there exists an associated Simulation and Audiovisual Infrastructure Design Guideline document with high-level information functional requirements. The Simulation Design Guidelines are intended to encourage and facilitate conversation between designers and the UBC FoM project team to confirm that all designs match the intended use of the space.

**LEARNING OBJECTIVES:**
- Identify the requirement for simulation infrastructure at the planning stages.
- Learn the full functional requirement of a state of art simulation centre.
- Learn about hybrid simulation facility design to support new technologies for years to come.
Medical Students Vs. Virtual Reality

Learn how Medical Students interact with Virtual Reality using the CAE’s Vimedix AR and HoloLens. Understand the visual information the Medical Students obtain and relate that to the knowledge they learned during their assessment of patient care.

Chad Epps MD
Executive Director of Healthcare Simulation
Center for Healthcare Improvement and Patient Safety,
University of Tennessee Health Science Center

Chad Epps, MD trained in Anesthesiology at the Mount Sinai Medical Center and completed a fellowship in Human Patient Simulation at Mount Sinai’s Human Emulation Education and Evaluation Lab for Patient Safety and Professionalism. He joined UTHSC in 2016 as the Executive Director of Healthcare Simulation. As a fellow, faculty, and director of simulation he has been active in simulation education, research, assessment, and center management since 2004. He has successfully implemented high quality interprofessional simulations across both Universities and Health Systems. Dr. Epps is a past President of the Society for Simulation in Healthcare and in the past served as Chair of the Council on Accreditation of Healthcare Simulation Programs. He is published in the areas of simulation-based interprofessional education and co-edited the recently released textbook Defining Excellence in Simulation Programs (Lippincott Williams & Wilkins, 2014).
**CONCURRENT SESSIONS**

**BLOCK C**

**C1 AV 101: AV Concepts for the Non IT/AV Simulation Tech Specialist - Ron Repasy**
This presentation will explore the basic concepts of Audio-Visual equipment and terminology, including managing different types of audio/video signals, interconnecting various types of audio-visual and medical equipment, working with monitor resolutions and configurations, and setting up a basic digital signage system to display daily events and photos. The presentation will conclude with an open discussion.

**Learning Objectives:**
- Discuss common AV equipment and terminology
- Identify common connectors and what they are used for
- Learn how to manage and integrate different types of signals

**C2 Custom Simulation Innovation: Designing your specific needs - Tyler Burks, Ben Whitaker & Teldra McCord**
Working in a simulation center requires a degree of resourcefulness and out of the box thinking to successfully meet all objectives. The need for simulation innovation in one's own department is required at almost all levels of simulation centers. During this presentation, we will cover multiple innovation techniques, such as 3D prototyping, A/V setup, and molding and casting. To accompany our discussions we will showcase some of our own designs and solutions, and talk about the cost savings that result from homegrown creativity.

**Learning Objectives:**
- Define and understand what custom innovation is and how it can save your center money.
- Describe the importance of innovation and creativity in the field of Interprofessional Healthcare Simulation.
- Identify different styles of innovation and how to implement them in their own Simulation Centers. (3D print, artistic, collaborating with other departments/resources)

**C3 “Touching” the Realistic Possibilities of Moulage - Zackary Wade**
Just how real can moulage become when we strive for more? Discover how a process of trial and error and application of artistic skills has led to the creation of a variety of simulation teaching resources requested by faculty and clinicians.

**Learning Objectives:**
- Discuss how silicone falls into play in a world of medical moulage.
- Identify that not everything needs to be functional but must have a purpose.
- Prepare for coping with trial and error along with expectations.

**C4 UTHSC CHIPS Tour**
The University of Tennessee Health Science Center (UTHSC) serves as the state’s flagship, public academic health system. UTHSC’s mission is to bring the benefits of the health sciences to the achievement and maintenance of human health, with a focus on the citizens of Tennessee and the region, by pursuing an integrated program of education, research, clinical care and public service.

UTHSC has proven it is driven to achieve its mission with the creation of the Center for Healthcare Improvement and Patient Simulation (CHIPS). The CHIPS program serves as the campus-wide simulation program dedicated to improving healthcare training and positively affecting patient safety. CHIPS services students across six colleges at UTHSC- Dentistry, Graduate Health Sciences, Health Professions, Medicine, Nursing, and Pharmacy—as well as the UTHSC residency programs and local clinical partners.

During the SimGHOSTS 2018 US event, attendees will get to take a guided tour of this world-class, 45,000-square-foot, standalone simulation center. CHIPS encompasses the use of many modalities of simulation education. Some of the tour highlights will be stops in the Home Environment, Skills Labs, Virtual Reality Suite, Labor and Delivery, Simulated Operating Room, and the Simulated Pharmacy, as well as stops in the control rooms and back-stage prep/storage areas.
**CONCURRENT SESSIONS**

**BLOCK C**

**C5** Kids - They’re Not Just Tiny Adults!: The Essentials for Pediatric Simulation - Carrie Norwood & Brittany Cameron
This program will cover details specific to pediatric simulation. Topics to be covered will include pediatric anatomy and physiology, pediatric equipment needs, as well as manikin and equipment modifications necessary to conduct realistic simulations in a healthcare environment.

Learning Objectives:
- List equipment necessary for pediatric simulation.
- Explain 3 key differences in pediatric simulation versus simulation in adults.
- Apply weight based calculations in the care of pediatric patients.

**C6** Mental simulation: an untapped and cost-effective resource to cultivate safe and accurate decision making - Teresa Camp-Rogers
Cognitive psychologists have demonstrated the effectiveness of mental simulation in other disciplines such as first responders and the military. This presentation explores the utility and limitations of mental simulation for healthcare provider training.

Learning Objectives:
- Understand the structure and function of mental simulation and how other disciplines have used it successfully.
- Describe the cognitive psychology evidence supporting use of mental simulation.
- Recommend innovative strategies for using mental simulation to cultivate better decision making among healthcare provider in training.

**The Role of Simulation in Knowledge Translation of Resuscitation in Undergraduate Medical Education - Teresa Camp-Rogers**
Approximately 50 years after emergency medicine became a specialty, education in resuscitation has finally been included as a competency requirement for undergraduate medicine. In 2014, the AAMC and AACOM published guidelines on how to accomplish acute care training and assessment, but there are several limitations. This podium presentation will address the current limitations, discuss current evidence on best practices, and propose suggestions for the future.

Learning Objectives:
- Understand the current national recommendations for acute care evaluation and management to be taught to all undergraduate medical students, regardless of specialty.
- Describe the limitations in the current national recommendations.
- Recommend future directions for consensus and best practices for simulation training in acute care for medical students.
BLOCK D

D1 Adding to AI: Patient profile design, expanding the intelligence of Patient Communication Simulators - Angela Hoenig & Rush Goodson
Building patient scenarios within the Patient Communication Simulator cloud-based program. Our program allows you to create charts using Google Docs, build initial state for patient, create checklists, set up learner objectives, and many more features to include adding questions and responses specific to your design. Prior to SIMGHOSTS you will be provided with access to a patient profile, and cheat sheet to allow you to explore the ease of patient design.
Learning Objectives:
Participate in designing of patient scenario and building of states; including description of patient profile, age, gender, and language.
Authoring content by adding questions and answers specific to your communication needs.
Understand the sharing concept of the cloud based program for group design.

D2 Absolute realism...no stickers - Laura Andrews & Chris Redman
Why choose the Ventriloscope for your simulation stethoscope? The world may have become more high tech, but the anatomy and physiology of human beings hasn't changed. We have designed our simulation stethoscope called Ventriloscope to help learners identify abnormalities on patients, in association with human interactions. Our device is intentionally designed to be simple to use while providing the greatest technological reliability, at an affordable cost. Learn how to use ventriloscope for hybrid simulations in this interactive workshop
Learning Objectives:
Operate the Ventriloscope and simulate sounds anywhere on an SP or mannequin
Conduct realistic SP OSCE cases with judicious use of abnormal sounds
List the advantages of congruent multisensory learning and hybrid simulation.

D3 Under the Hood of Lucina - Alexander Rondero
This hands-on course will review the most common tips and tricks for identifying and resolving issues with patient simulators. Lessons learned can be put to use across the full array of patient simulators. This session will include mannequin troubleshooting, access, maintenance and tips.
Learning Objectives:
Describe techniques for troubleshooting simulator wireless issues
Describe preventive maintenance procedures
Demonstrate simulator standard operating procedures

D4 Redefining High Fidelity: What it means to your practice - George Thompson
This session will begin with an open and transparent discussion which will be interactive in nature reflecting on the current definition of fidelity. Utilizing specific technology we will ask that you consider expanding your horizons to include some non-traditional definitions of “high fidelity”.

D5 Is Your Simulation Program Future Ready? - Chris Ingwalson & Jennifer Paul
The Health Scholars team will demo our commercial VR product, Fire in the OR™ Virtual Reality Simulation. It is a room-scale VR application designed to simulate key scenarios related to surgical fires, a high-risk scenario that can be difficult to simulate, even in high-fidelity simulation centers. As participants get a hands-on demo, Health Scholars will highlight VR content development best practices, share evidence on the effectiveness of using VR simulation, and present options for integrating VR content into your own sim center. We’ll also discuss how Health Scholars One™ Blended Learning Platform is enabling sim centers to deploy and track VR learning content.
Learning Objectives:
Experience the Fire in the OR virtual reality simulation
Review VR content best practices and evidence on the effectiveness of VR in simulation
Compare options for integrating VR content into a simulation center.
Memphis Redbirds vs Sacramento River Cats

Join us at AutoZone Park, conveniently located directly across from the DoubleTree by Hilton Downtown Memphis Hotel. Enjoy a BBQ dinner and an opportunity to mix with fellow attendees on the Third Base Party Deck, with an unbeatable view of the big game. Drinks are available for purchase from the bar. The Opening Reception begins at 6.30pm and the game starts at 7.05pm.
You Are What You Tweet:  
A Healthcare Simulation Professional's Guide To Social Media

Despite that fact that social media is has become a intertwined with our everyday lives, many healthcare professionals struggle with avoiding its pitfalls and maximizing its benefits. In this session, you'll gain confidence in using social media to enhance your personal brand or highlight your business service. The session's focus will be on teaching healthcare-specific best practices. You'll also learn about search engine rankings, why they matter to healthcare professionals, how they are impacted by social media, and receive clear guidance on how to impact them. Social media is a powerful tool that you can use to make a huge impact. This session will
• Outline “Rules of Social Media”
• Define search engine rankings, why they matter to healthcare professionals, how they are impacted by social media, and how to fix them
• Provide healthcare-specific social media best practices

Brittney Wilson, BSN, RN,
The nurse behind The Nerdy Nurse, is an award-winning author and blogger, international keynote speaker, and an influential social media personality in the nursing, technology, and healthcare IT communities. Brittney's goal is to help others gain confidence in the digital world through her unique vision of technology empowerment. Her passion for informatics and innovation in healthcare is unmatched. She is a devoted patient, nurse, and technology advocate. She is also the author of The Nerdy Nurse's Guide to Technology and co-author of The Nurse's Guide to Blogging. She blogs about nursing, technology, health IT, and other healthcare topics at thenerdynurse.com.
CONCURRENT SESSIONS

**BLOCK E**

**E1 DIY Simulated Patient Electronic Health Record: An Introduction - Ronald Streetman, James McTiernan & Dr Carman Turkelson**

Do you have a need for an affordable Electronic Health Record (EHR) in your Simulation Center? If so, this presentation will demonstrate a fully functional DIY EHR customized to meet the unique needs of today's learners. Participants will have the opportunity to explore how, using basic web scripting languages such as HTML and PHP, a fully customizable EHR can be created with little or no experience at little to no cost. Plus, hear advantages of this solution over lower-fidelity EHR methods.

Learning Objectives:
- Describe the need for a fully customizable Do-It-Yourself (DIY) Electronic Health Record (EHR) to facilitate realism and enhance learning during Simulation-Based Learning Experiences (SBLE).
- Compare this DIY EHR to low-fidelity options as a fully functional, customizable low-cost solution to enhance realism, environmental fidelity, and learning in a simulated setting.
- Demonstrate how to develop and implement an EHR in an academic or acute care simulation center to create a fully immersive SBLE.

**E2 Replacing IV Tubing for Pediatric Manikins - Peter Haugen & Aaron Simpson**

In this presentation cost saving techniques that will keep pediatric manikin IV arms and trainers running appropriately will be discussed. Rather than purchasing new arms or trainers, simply replacing the tubing inside of these tools can be beneficial. This presentation will include identifying when to replace, strategies for extending the lifespan of pediatric manikin IV arms, and where to access resources.

Learning Objectives:
- Identify the resources needed to replace IV tubing inside pediatric manikin arms and task trainers.
- Simplify ease of use of pediatric IV trainers.
- Improve longevity for pediatric IV arm task trainers.

**E3 Your AV Integrated Sim Center, and How To Support It - Evan Bartley**

So - you've made or are considering an investment into a fully integrated, full-featured sim center for observing, capturing, debriefing, distributing, and assessment of all the different simulation modalities that your center users can dream up, with all the bells and whistles. But that takes a lot of technology! How are you going to support it to keep it up and running?

Learning Objectives:
- Identify and discuss AV technologies in use today
- Discuss how different support models can address staffing, budgeting, and technology issues of maintaining a simulation center
- Discover how to leverage your existing IT infrastructure and forecast support needs to improve support of your integration and/or potential upgrades.

**E4 Staffing Overhaul in Simulation Centers - Rachel Bailey**

This presentation will involve discussing the importance of a staffing overhaul in simulation centers. Presenters will introduce a new method of staffing simulation centers that will provide professional growth and development to both educators and technologist.

Learning Objectives:
- Discuss needs of a simulation technology specialist in a center
- Describe the process of broadening the sim tech role to include consulting and collaborating with content experts in simulation design
- Discuss the incentives of having multiple simulation technology specialist within simulation centers

**E5 UTHSC CHIPS TOUR**

The University of Tennessee Health Science Center (UTHSC) serves as the state's flagship, public academic health system. UTHSC's mission is to bring the benefits of the health sciences to the achievement and maintenance of human health, with a focus on the citizens of Tennessee and the region, by pursuing an integrated program of education, research, clinical care and public service.

UTHSC has proven it is driven to achieve its mission with the creation of the Center for Healthcare Improvement and Patient Simulation (CHIPS). The CHIPS program serves as the campus-wide simulation program dedicated to improving healthcare training and positively affecting patient safety. CHIPS services students across six colleges at UTHSC-Dentistry, Graduate Health Sciences, Health Professions, Medicine, Nursing, and Pharmacy- as well as the UTHSC residency programs and local clinical partners.

During the SimGHOSTS 2018 US event, attendees will get to take a guided tour of this world-class, 45,000-square-foot, standalone simulation center. CHIPS encompasses the use of many modalities of simulation education. Some of the tour highlights will be stops in the Home Environment, Skills Labs, Virtual Reality Suite, Labor and Delivery, Simulated Operating Room, and the Simulated Pharmacy, as well as stops in the control rooms and back-stage prep/storage areas.
**BLOCK E (cont.)**

**E6 Preparing Students for a Better Simulation Experience** - Linda Curley  
Novice faculty members tend to feel that the less you prepare students for a simulation the better their experience will be. In fact, the opposite is true. We will discuss barriers to learning during simulations and ways to enhance the pre-briefing to achieve better outcomes. This includes tips and tricks of the trade to allow your simulations to delve beneath the surface of learning and achieve higher levels of pedagogical understanding.  
**Learning Objectives:**  
Understand the importance of pre briefing  
Perform an orientation to the environment  
Begin to enhance existing simulations in your curriculum to improve pedagogical learning.  

**E7 A Day in the Life: Creating a full day Simulated Clinical ER** - Amy Wise & Miranda David  
What happens when your nursing program loses another clinical site? You improvise and create one better than what they lost of course! Come find out how we evaluated the situation, created a set of 10 patients to run 4 hours at a time with histories, labs, orders to carry them through the day. Challenging the students to critically think, prioritize patients, and incorporate their scope of practice with an innovative and fresh look at the future of simulation. See the process in motion of initial thought and programming to final product including hearing about what the students have to say about the experience!  
**Learning Objectives:**  
Identify need for Simulated clinical space in rural areas where clinical sites are limited.  
Create an innovative 8hr simulated Emergency Department clinical experience to fulfill clinical requirements using high fidelity simulators  
Implement ED experience for the Associates degree nursing student to learn critical thinking, prioritization, and implementation of skill set.  

**BLOCK F**

**F1 Enhancing Fidelity Through Sensory Perception** - David Mathews & Shelby May  
The intermediate moulage workshop aims to present innovative ways to bridge fidelity gaps of simulation experiences. This two part workshop will include a didactic session to review intermediate moulage techniques such as color theory in make-up application, set design, and innovative techniques for creating rashes and bruises. The hands on portion of this workshop will provide learners with the opportunity to practice applying printed samples of rashes and bruises.  
**Learning Objectives:**  
Describe various levels of sensory perception and how to stimulate those perceptions to create high fidelity in simulation experiences.  
Learn innovative techniques that will allow for faster, more efficient application of moulage and cleaner simulations.  
Gain hands on experience practicing the application of printed bruises and rashes.  

**F2 Conquering the Growing Need for SPs and Coordination in Simulation Programs** - Dena Higbee & Grace Gephardt  
As traditional technology-based simulation programs gradually incorporate Simulated Participants (SPs) into their programs, the role of the Simulation Technician often grows as well. It is not uncommon that a Sim Tech is asked to step into the role of an SP on short notice to fill an absence, or to participate in a simulation as an “extra” in the scenario. Although we all take one for the team on a regular basis, best practices established by the Association of Standardized Patient Educators (ASPE) when using SPs will be shared as a resource to help inform smoother implementation of SPs into simulation scenarios. A case template will also be shared that helps to develop a simulation scenario that encompasses the needs of both technology-based simulation and human simulation.  
As Sim Techs encounter a high level of involvement with SPs in programs, tips for helping with the coordination of SP programs will be discussed. Just-in-time training techniques will be introduced and demonstrated, as well as best practices of working with SPs and keeping an adequate cohort to meet learning objectives will also be discussed. Groups will compare and share how they can use technology to assist with the coordination of programs.
CONCURRENT SESSIONS

**BLOCK F (cont.)**

**F3 Sculpting, Casting and Molding Workshop - Nola Pearce**
This workshop is for more advanced moulage technicians who wish to create replicable silicone wounds. This workshop will not have adequate time to demonstrate painting of the finished product but will cover information on this process. We will be using skin safe silicones and professional grade products. In a 2 hour period we will cover:
- Products, tools and techniques to sculpt a simple wound
- Products and tools to create a reusable silicone mould from the sculpt
- Products and techniques to make a silicone cast from the mould
Participants will have time to create a small basic mould to keep. The final cast from the participants mould is unlikely to be set in time for the completion of the session but will be available for collection later.

**F4 Building a Winning TEAM with TeamSTEPPS: A Novel Approach to IPE Simulation - James Cypert**
This course covers the details of TeamSTEPPS with a focus on the integration of those principles into Interprofessional Education and Simulation. Utilizing the TeamSTEPPS program DYC has successfully made it a core requirement for all 8 of its individual health care programs and has developed IPE scenarios that focus on preparing students to become champions of collaborative practice.

Learning Objectives:
- Describe the essential tools and strategies of TeamSTEPPS
- Formulate various methods of employing TeamSTEPPS into IPE based Simulation Scenarios
- Discuss the applications of TeamSTEPPS as a core requirement of all general education to lay a solid foundation for student success

**F5 Arduino for the Simulation Technician - Chad Jackson**
In this interactive hands on workshop, you will get your own Arduino Board and accessories and learn how to program it. Arduino is one of the most widely used micro-controllers in use today. In this two hour session, you will learn about the Arduino board, the IDE (Integrated Development Environment), and making your own Sketches (programs) to use.

Learning Objectives:
- Learners will be able to demonstrate initiating an Arduino board, launching the IDE and programming basic sketches.
- Learners will be able to demonstrate inputs and outputs in sketches, and program them to work with switches, LEDs and MOSFET control.
- Learners will be able to describe how to use these skills to incorporate these new knowledge and skills to a variety of simulation situations.

**F6 Poster Presentations & Innovation Showcase**

**Poster Presentations**

**Two Heads are Better than One: An Innovative Approach to Role Assignment in Healthcare Simulation - Jeanne Carey**
The traditional method of role assignment in healthcare simulation, portioning nursing duties among multiple students, allows students to divide and conquer, rather than prioritize and delegate. Utilizing the Two-Heads-are-Better-than-One strategy requires students to think aloud, discuss differences of opinion, and come to an agreement, to provide care to the simulated patient; thus, providing clinical faculty a new perspective for assessment of critical thinking skills.

**Using a Green Screen to develop Computer Based Simulated OSCE stations for National Board Examination - Dr Faisal Rahim**
Many universities around the world have now adopted objective structured clinical examination (OSCE) as an assessment method for competencies assessment as a part of summative assessment. A modification of the standard or traditional OSCE station may lead to various formats of OSCE stations. We used green screen technology to enhance AVs in simulated OSCE stations, for testing purposes for National Examination Board (NEB) at National university of Medical Sciences (NUMS).

**Using an Online Response System to Maintain Engagement of Debriefing Room Observers During Clinical Simulation - Xavier Agee**
Students observing their peers in the debriefing rooms are usually left unattended and may become distracted and lose engagement. Some instructors have developed various tools in an effort to hold the attention of the observers, such as providing worksheets for the observers to complete while in the debriefing room, however, these worksheets result in static learning. An alternative is to use an online response system. Instructors can send questions to the students in the debriefing room about what is happening live during the simulation and receive instant feedback that can be used for discussion during debriefing.

**De-stressing the Workplace - Ismael Qasem**
My purpose is to show how a workplace that is involved in simulation can have acceptable forms of fun and laughter throughout the day without disrupting workflow and efficiency. Laughter is a form of stress relief and many of the professions we work with daily are in areas of high stress. This presentation will also describe ways in which simulation center staff can relieve stress of their own with examples of group activities they can implement themselves.
**F7 How to Innovate in your Simulation Center - Kirrian Steer**

Innovation is a buzzword that can be found in most strategic plans but are you really innovating or are you just keeping up? Learn how to stimulate creative thought and identify why some great ideas never see the light of day. This workshop will provide participants with an opportunity to explore and utilise tools, techniques and strategies for generating, developing and pitching their ideas to get more support for innovation in their simulation program.

**Learning Objectives:**
- Use brainstorming techniques to generate ideas for innovation.
- Use the SCAMPER tool to identify creative ways to increase the use of an underutilised item/space within the simulation center.
- Formulate and practice a 3 minute proposal for your innovation.

**F6 Poster Presentations & Innovation Showcase**

**Poster Presentations**

**Indiana University Purdue University Columbus Simulation Center’s Accreditation Journey and Virtual Reality Modality Addition - Shannon Love**

This presentation will describe the Society for Simulation in Healthcare (SSH) accreditation process of the Indiana University Purdue University Columbus (IUPUC) Simulation Center. The IUPUC Simulation Center was granted SSH Full Accreditation in Teaching and Education during the Fall of 2017. A component of this accreditation is simulation modality. A simulation modality addition to our curriculum in the Spring of 2017 is virtual reality simulation.

**Innovation Showcase**

**A novel adapter for branching ECG signals to two monitors - Bryan Cotton**

Simulation manikins have one set of snaps or pads to interface with an external monitor, which does not allow two separate monitors to display the manikin electrocardiogram (ECG) tracing. A simple and economical system has been devised to branch each electrocardiogram (ECG) lead to two different monitors. A branching ECG lead system can be constructed in minutes utilizing equipment that simulation labs have available while keeping expenditures at a minimum.

**Custom Simulation Innovation: Designing your specific needs - Tyler Burks**

See session C2 page 31

**Fully immersive interactive 360 degree videos on your smartphone - Thomas Judd**

Technology advancements allow a smartphone to be converted into a virtual reality headset. We have developed an app that can deliver fully immersive interactive virtual reality scenarios, allowing the user to be fully immersed in a virtual reality simulation scenario. These virtual reality simulations can be used to compliment current simulation technology, allowing access of high fidelity simulation to users on their smartphone.

**Printing Humerus IO for Metiman - Yixing Chen**

Learn about the process of 3D printing a humerus head that fits into a CAE metiman’s injection pad for intraosseous training. Shape slicing, material, print speed, print fill, print size, print orientation will be discussed and demonstrated.
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**USING xAPI TO COLLECT LEARNING DATA FROM SIMULATIONS**

In this address, Chad will discuss how CHEST uses xAPI for their live, Difficult Airway Management course. During the course, physicians practice intubation techniques on high-fidelity medical simulators as instructors observe how they perform the procedure via a checklist on an iPad. Previously, only the data from the iPad was transferred to the physician’s transcript in the LMS, and the data stored in the mannequin was unusable. Using xAPI, the simulator’s data was able to be transferred to the LMS using Watershed’s learning record store (LRS). During the session, Chad will share the technical details, best practices, and lessons learned from CHEST’s experience with xAPI.

Chad Jackson MS, RRT, FCCP  
Vice President of Innovation and Development  
CHEST, American College of Chest Physicians

Chad provides leadership and guidance to the development, direction, coordination and management of all innovation activities at CHEST. This includes promoting innovation activities across the entire organization including discovering, prototyping, incubating and accelerating offerings that create opportunities for CHEST. He contributes to the CHEST mission through the development of these leading edge educational activities, products and programs that enhance the member and organization experience. These activities, experiences and products may include developing international training programs, corporate innovations, novel medical product development as well as other business opportunities for CHEST.

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**BLOCK G**

**G1 Parkview Mirro Advanced Simulation Laboratory Video In-Situ Debriefing System (VIDS) - Shea Noonan**
This presentation is focused on providing the healthcare simulation community with a cost-friendly, high quality, portable mobile video debriefing and in-situ system. The Parkview Mirro Advanced Simulation Laboratory Video In-situ Debriefing Solution (Parkview VIDS) is an established multi-camera recording system, customized for simulation scenarios, that allows for simulations to be recorded and video debriefed in a variety of environments. Learning Objectives:
- Understanding the utility of a portable, multi-camera, in-situ and debriefing system for locations outside of a laboratory.
- Discover the ability of this system to reach ALL healthcare workers by running simulations in real-life, everyday work environments, instead of in a static laboratory.
- Discern the cost of constructing, and options for customizing, the system to meet the requirements of any individual healthcare simulation center.

**G2 Taking hi-fidelity simulation from South Africa to Tanzania - Naren Bhimsan**
The most effective learning is through a combination of classroom teaching of content and simulator-based practicing. However, given the current high costs of travel to centres of high-fidelity simulation, especially for poorer countries, we decided to take the same training to these countries instead. In Oct 2017 we successfully transported our hi-fidelity paediatric simulators from South Africa to Tanzania to train 44 Anaesthetists on the MEPA (managing emergencies) course over 4 days. Learning Objectives:
- Explore the role of high fidelity simulation in emergency training
- Describe the experience of cross country collaboration and sharing of expensive resources
- Demonstrate impact of training across borders

**G3 “Can I have that back?” A beginners guide to reusing clinical supplies in simulation - Todd Hillman**
Have you wondered what to do with items after a simulation? Have you considered the money you could save if you didn't have to purchase new items for every activity? In this presentation I will cover what I've learned on reusing, and extending the life of items used in your center. I will show what is being used in my center to re-pack and re-purpose items.

**Use Materials you Already Have to Make Hybrid Simulations More Realistic - Jennifer Weeks**
In hybrid simulations, we utilize standardized patients, task trainers and mannequins simultaneously. In this presentation, I will show you 5 examples of wearable moulage I have made for my sim center without spending a huge sum of cash. I will bring my creations for show and tell and also show you what I spent versus what it would have cost had I bought these items instead of making them myself.
Learning Objectives:
- Appreciate the value of hybrid simulation.
- Learn to use your existing resources in ways other than what they were originally intended.
- Learn cost effective ways to increase realism in your simulations.

**G4 Teach What You Can, Recruit What You Cannot Teach - Rachel Bailey**
The need for simulation training has grown and with that growth, the need for skilled simulation technologist has increased. Simulation centers often struggle who to hire and what background to look for to fill a position that combines healthcare, audio visual, engineering, and information technology. Many simulation centers require a medical background before they require a background in technology. Simulation Center educators are clinically licensed to teach healthcare, but few have a technology background, so one would ask why simulation centers are requiring a background that any educator in the center could teach a technologist? This presentation will focus on the needs of a center and how to appropriately recruit a technologist that fits those needs.
Learning Objectives:
- Identify the recruiting obstacles for a simulation technician role and how to overcome those obstacles
- Discuss the needs of a center and skillset of a technologist
- Demonstrate an ability to pinpoint an applicant's process improvement potential in a medical environment, regardless of their background.
**BLOCK G (cont)**

**G5 UTHSC CHIPS Tour**
During the SimGHOSTS 2018 US event, attendees will get to take a guided tour of this world-class, 45,000-square-foot, standalone simulation center. CHIPS encompasses the use of many modalities of simulation education. Some of the tour highlights will be stops in the Home Environment, Skills Labs, Virtual Reality Suite, Labor and Delivery, Simulated Operating Room, and the Simulated Pharmacy, as well as stops in the control rooms and back-stage prep/storage areas.
See session E5 on page 33 for more information.

**G6 Evaluating Simulation Technology for Purchasing Decisions**
- Kirrian Steer & Amy Wise
Simulation professionals have significant influence or decision-making responsibilities regarding purchase of simulation technology. This interactive presentation details an approach to evaluating technology to ensure that the needs of all stakeholders are considered and that a strong business case exists for the purchase.
Learning Objectives
Perform a purchasing needs analysis
Design and use an evaluation tool
Prepare a concise purchase request or business case.

**G7 A Review and How to Operationalize the Revised INACSL Standards of Best Practice: Simulation 2018 - INACSL**
With the release of the revised INACSL Standards of Best Practice in November 2016, and the Simulation Operations Standard in 2017, there have been limited opportunities to learn about the new Standards and how to apply them. INACSL Representatives will provide an overview of the standards and lead a discussion with participants for incorporating the Standards into a simulation program.
Learning Objectives:
Prepare simulationist with the most up to date knowledge of theory and practice related to the INACSL SoBP
Discuss implementation strategies for the INACSL SoBP
Examine case studies and examples of application of the INACSL SoBP

**BLOCK H**

**H1 Virtual Field Trauma Triage - Yixing Chen**
LVC sims are often difficult and expensive to setup and execute. Using VIR environment to simulate field triage training allows the participant(s) to explore throughout the virtual scene the size of approximately 1 city block and appropriately within the timeframes allowed and ensure they themselves remain safe on a scene with hazards embedded in the scenario. This virtual sim have a high turn around with no setup or teardown without sacrificing immersion. A mobile version is being developed.
Learning Objectives:
Discuss and demonstrate the benefits of VIR simulation
Identify the resources needed to develop a VIR simulation
Discuss how this VIR is developed

**H2 Experience and Lessons Learnt from Realistic Simulation Events - Nola Pearce**
Moulage expert Nola Pearce will share her tips, tricks and lessons learned in over 10 years involvement in staging highly realistic simulations including:
- Plane, train and automobile accidents
- Industrial accidents
- Bushfire and natural disaster injuries
- Terrorist attacks
- Military injuries

**H3 The Effect of Repeated Simulation Experience on Undergraduate Students’ Self-Confidence - Koukab Algharibi**
The purpose of the study was to explore the effect of repeated simulation experience post debriefing on the students’ self-confidence. We applied new teaching methodology in nursing simulation, which is repeated simulation experience, then measure the students confidence post debriefing.
Learning Objectives:
Understand the structure of nursing simulation based the theoretical framework
Apply new teaching methodology in nursing simulation
Adopt and integrate the new teaching modality in nursing education through simulation.

**Sentinel Events and Simulation - Linda Curley**
Using simulation to educate student nurses about the prevention of adverse and sentinel events is tremendously important. There is such a reliance on technology and systems that many nursing students and novice nurses cannot foresee how medical errors can occur. This lack of foresight and critical thinking can be corrected with experience and knowledge gained during simulation experiences. If you cannot imagine it happening, it is more difficult to prevent the error from occurring.
Learning Objectives:
Recognize a potential adverse event in patient scenarios
Practice communicate techniques to decrease the risk of medical errors
Discuss how to prevent knowledge based errors and technical failures.
CONCURRENT SESSIONS

BLOCK H (cont)

I1 Programming with Trends and Tandlers in LLEAP - Nick Brauer
LEAP programming styles vary from person-to-person and may also depend on scenario complexity. The workshop will explore various programming methodologies including trends, handlers, images, labs, etc. Trends and Handlers are valuable but often overlooked tools for automating scenario progression and manikin responses. This workshop will take LEAP users through the process of creating a “semi-automated” scenario.*NOTE* Course participants MUST have experience programming scenarios in LLEAP. This course is not suitable for beginners.
Learning Objectives:
Using LEAP - Sim Designer, participants will be able to program a scenario utilizing “Create Theme and Scenario” Participants will understand how to create handlers and trends and know how they are utilized in a scenario. Participants will know the importance of and how to embed images, videos and labs

I2 3D Virtual Reality, 3D Printing, and Beyond: Novel simulation of the shoulder intraosseous infusion. -- Yixing Chen
As shoulder intraosseous infusion (IO) popularity continues to rocket in clinical setting, more and more healthcare providers are being trained every day to provide proper shoulder IO procedure. Using CT scans from a cadaver, the University of Toledo (UT) have developed a 3D Virtual Reality (VR) rendering of proper and improper visualization of shoulder IOs. To help learners practice, UT developed 3D printed task trainers that can be attached to a common high fidelity simulators.
Learning Objectives:
Learn how to develop 3D medical models using CT scans
Identify the steps involved to develop 3D printed task trainers
Compare simulation techniques for shoulder IO

I3 Building a Winning TEAM with TeamSTEPPS: A Novel Approach to IPE Simulation -- James Cypert
While it is an overstatement to say that debriefing is where the learning happens, having a plan and the skills needed to run a great debriefing can put your simulations on a whole different level. Operations specialists are playing an increasing role in every avenue of the design, implementation, and delivery of simulation events. Come learn the fundamentals of the PEARLS Debriefing Framework and add to your skillset to deliver high quality, efficient, and effective simulations!
Learning Objectives:
Discuss the elements used in the PEARLS Framework of Debriefing Use the three pathways within the framework to follow learner needs in debriefing Discuss the applications and obstacles present in each step and pathway of the PEARLS Framework

I4 Quick Tips for Implementing the PEARLS Framework in Your Debriefing - Matt Charnetski
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I5 Associate degree in Healthcare Simulation Technology - Standardizing the profession- Joe Crain
WSU-Tech has inaugurated the first of its kind, comprehensive Associate of Applied Science degree in Healthcare Simulation Technology. The goal is to specifically train the next generation of simulation specialists across the board, in all aspects of simulation development, operation, and management. Topics include conceptualization, scope and intent, development, special skills, future applications, and articulation with Bachelor degree programs in Health Sciences and Education.
Learning Objectives:
Understand the development required and involved for a comprehensive HST training program
Comprehend the rationale behind the multiple disciplinary approach included in the degree
Explain the development and applications of both the AAS and the BAS prepared Healthcare Simulation Technical Specialist and Simulation Educator

I6 UTHSC CHIPS Tour
During the SimGHOSTS 2018 US event, attendees will get to take a guided tour of this world-class, 45,000-square-foot, standalone simulation center. CHIPS encompasses the use of many modalities of simulation education. Some of the tour highlights will be stops in the Home Environment, Skills Labs, Virtual Reality Suite, Labor and Delivery, Simulated Operating Room, and the Simulated Pharmacy, as well as stops in the control rooms and back-stage prep/storage areas.
See session E5 on page 33 for more information.
I5 Professional Development & Standards for the Simulation Operations Specialist -- Scott Atkinson
This is a panel discussion using Poll Everywhere to engage in rich discussion and data collection on the professional development, education, certifications, certificates, degrees, and continuing education available to the Healthcare Simulation Technology/Operations Professional. The information collected will help us establish a matrix path for educational opportunities and professional development specifically designed for the individual. Many current and/or prospective Healthcare Simulation Technology/Operations Professionals find it difficult to decide what educational path is best. In reality it is different for each individual person. Not one program, certificate, certification, or week long course is right for everyone.
Session objectives:
Scope professional development and education options
Summarize common elements of position descriptions
Describe Healthcare Simulation industry role expectations

I6 Effective Leadership and Management in Simulation Technology -- Rachel Bailey
Does having a degree or certification make you professional? Does a management position make you a leader? Healthcare Simulation Technology Specialists can be professionals and leaders regardless of their position title and resume. Professionalism, management and leadership are learned, demonstrated and achieved by making a conscious decision to hold ourselves to a behaviour standard during our tenure as healthcare simulation professionals.
Learning Objectives:
Identify leadership barriers of simulation technology
Provide examples of leadership and management in Simulation Technology
Discuss methods of communication that allow others outside of simulation to understand your skillset

A Practical Approach to Emotional Intelligence and Difficult Conversations - Matt Charnetski
Emotional intelligence has been a hot topic in management and interpersonal communication circles for the last few years. Developing high levels of emotional intelligence has been shown to more directly map to individual and team performance. Start the path toward greater understanding of the role that emotions play in our work and communicative life with this practical course on applying basic skills to demonstrate emotional intelligence and navigate difficult conversations.
Learning Objectives:
Discuss the application of emotional intelligence and difficult conversations tools in a professional setting
Determine the relevance of emotionally intelligent techniques in interpersonal communication
Discuss different situations in your own work environments and how to approach them suavely
The #3 leading cause of death in the United States is its own health care system. 1.7 million Americans experience a preventable mistake during medical care, and these mistakes lead to many as 440,000 deaths annually. Directed by the son of late patient safety pioneer, Dr. John M. Eisenberg, To Err Is Human is an in-depth documentary about this silent epidemic and those working quietly behind the scenes to create a new age of patient safety. Through interviews with leaders in healthcare, footage of real-world efforts leading to safer care, and one family’s compelling journey from victim to empowerment, the film provides a unique look at the future of our healthcare system’s ongoing fight against preventable harm.

The screening will be followed by a panel discussion

View the trailer and learn more about To Err Is Human at www.toerrishumanfilm.com