Dear Simulation Specialists,

Thank you for joining the largest, most innovative and passionate group of individuals dedicated to supporting healthcare simulation around the world. 2017 is a bright year for us and you, our members. Now in its 7th year, the Gathering of Healthcare Simulation Technology Specialists (SimGHOSTS) has firmly established itself as a global training powerhouse. We serve to connect hundreds of like-minded individuals across four continents to collaborate and learn at hands-on training conferences. We have launched a new website that will allow continued networking and valuable resources for your center any time of the day or night, and we have partnered with other simulation organizations to enhance the diversity of expertise with one goal in mind: to help you deliver the best possible educational experience to your learners and improve healthcare and patient safety.

Every member of the healthcare team is vital to delivering optimal patient care, just as you are critical to creating a consistently positive training environment.

We want to be your advocate in the industry and make sure you are empowered to use your knowledge to deliver cost-effective, user-friendly educational environments that facilitate learning. 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 vendors 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!

Scott Crawford MD, CHSOS

SimGHOSTS President
Assistant Professor/Associate Program Director
Texas Tech University Health Sciences Center El Paso
WHO SHOULD ATTEND SIMGHOSTS 2017: USA?

Anyone responsible for the technical operation of a medical simulation lab including full-time or part-time Sim Techs, or clinical educators tasked with operating the day-to-day of simulation spaces. As well, anyone evaluating medical-simulation based technology should strongly consider attending as leading industry vendors attend. Other meetings are better suited for clinical educators specifically looking to learn how to teach with medical simulation.

Administrators of simulation programs should also consider sending their institution's AV and IT related staff members who are responsible for supporting the simulation program. In our most recent events, staff from AV and IT departments outside of the healthcare simulation program found immense benefit from participating in SimGHOSTS to better understand the needs of their institution's simulation program!

WHAT ARE THE MEETING OBJECTIVES?

- Meet with other Simulation Champions and share best practices
- Network and build long term industry relationships with peers and vendors
- Receive specialised training in:
  - High-fidelity manikin hardware & software operation, maintenance and repair
  - Audiovisual production techniques and debugging
  - Learning Management System troubleshooting
  - IT networking
  - Team leadership and communication techniques
  - Manikin moulage and makeup
  - Basic medical terminology, physiology, pharmacology
  - Healthcare education practices.
  - Much more....
- Discuss and develop professional community needs and standards.

REGISTRATION INFORMATION

SimGHOSTS 2017: USA Register Here!

Pricing
Early-Bird Registration: $473 (Available until July 1st)
Regular Registration: $597
Take advantage of a 10% savings on starting or renewing your annual subscription to simghosts.org -- see page 5 for more details!

Moulage Concepts Pre-Symposium Moulage Workshop: $395 w/kit; $325 no kit
Moulage Concepts Symposium Workshops: $30
J1 Moulage Workshop Double Session: $50
Opening Reception Ticket: $25

Refunds
There are NO refunds after July 1st, 2017.

Other Questions?
Keep informed about the latest information at the SG17USA Event Page.
ABOUT OUR HOSTS

**WakeMed Center for Innovative Learning** is designed to facilitate realistic multi-disciplinary clinical training and education using human patient simulators, educational gaming and other technologies. Funded by The Duke Endowment, the **WakeMed Center for Innovative Learning** offers education for all levels of healthcare providers throughout the region, including:

- WakeMed Health & Hospitals employees
- Wake AHEC students
- Capital Regional Advisory Committee members
- Wake Technical Community College students
- Southern Atlantic Healthcare Alliance (SAHA) affiliated hospitals

The **Center for Innovative Learning** features a nurses station, intensive care/trauma suite and a flexible patient care room that can be used for general medical or birthing. Each area is designed to mimic a typical inpatient unit and features the same technology, supplies, equipment and design found in units throughout a hospital. In the Center, healthcare providers administer treatment to human patient simulators that can bleed, cry, breathe and die.

The goal is to allow clinicians to practice their skills, learn from their mistakes and gain confidence. They also have the opportunity to keep their skills current for those high-risk procedures in which they need to maintain proficiency but rarely have the need to perform.

Based on the concept that "hindsight is 20/20" and that two thirds of the learning process occurs in reflection, the Center for Innovative Learning also features an extensive A/V system where every sound and action is recorded. Following a simulation experience, students and educators go immediately to the debriefing room to review the video and critique themselves.

The **Center for Innovative Learning** provides a unique training environment for healthcare providers and is unique in that it can also take simulation experiences outside the walls of the Center and into the hospital or field to create a realistic environment to meet the needs of the customer. Additionally, the Center offers training to providers across the healthcare continuum, including physicians, nurses, respiratory therapists, and first responders alike.

ACCOMMODATION PARTNER

The Raleigh Marriott City Center is our official accommodations for SG17USA where SimGHOSTS attendees will receive a heavily discounted rate of $149/night.

**Raleigh Marriott City Center**
500 Fayetteville Street Raleigh, North Carolina 27601
(919) 833-1120

Cost: $149/night.
[Book your room for SG17USA HERE](#)

You must book by July 10th to secure this discounted group rate!

The Raleigh Marriott City Center is 15.6mi SE of the Raleigh-Durham International Airport (RDU), and is located within easy access to a plethora of popular downtown Raleigh attractions.

Rooms feature a flat screen tv, marble bathroom, and comfortable workspace. The Raleigh Marriott City Center also offers on site restaurants including Rye Bar & Southern Kitchen and Starbucks, a state-of-the-art fitness center, and an indoor pool.
SIMGHOSTS.ORG SUBSCRIPTION

The learning doesn't stop at SimGHOSTS events! Join 3,000 simulation champions from around the world communicating everyday answering questions, sharing tips, and creating course content!

An Annual SimGHOSTS.org website subscription provides for a huge number of benefits for you and your simulation team:

- **Growing Video Library** - Over 300 recorded hour+ long sessions from previous SimGHOSTS events are immediately available to watch. Topics range from a/v system design to daily utilization increases and from manikin programming to moulage creations. Instantly learn from global experts and leading vendors!
- **New** *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.
- **Increased** *Document Database* - Download community provided templates, example forms, policy and procedure guides, job descriptions, standard operating procedures, tutorials, and more.
- **Contact Database** - Connect with local, regional, national and international peers from our global network of simulation technology specialists
- **Simulation Jobs Board** - Post and read open positions specifically related to healthcare simulation.
- **Professional Development** - Join our growing number of teams dedicated to advancing the field of healthcare simulation technology. Research, Website, Certificate Training, Standards, and Vendor Teams are all examples of current committee teams. Join these or start your own!
- **New** *Online Training Programs* - Subscribers are the only one's to get access to our online training courses covering a range of simulation technology operational topics.

**Special Discount for SimGHOSTS Event Attendees:**
Already half the price of last year's annual subscription -- Now get an extra 10% off your resource subscription by signing up before the end of this SimGHOSTS event! For less than a cup of coffee every month, connect and learn from the global community of healthcare simulation technology specialists.

**Join or Renew during SG17USA event registration!**
Welcome To SimGHOSTS 2017!

Event Information

Event Dates
Pre-Symposium: August 1st, 2017
Main Symposium: August 2nd, 3rd and 4th, 2017

Center for Innovative Learning
WakeMed Health & Hospitals
3000 New Bern Avenue
Raleigh, NC. 27610

Registration:
Early-Bird Rate (available until July 1, 2017) - $473
Regular Rate - $597
Select workshops have additional supply fees; see agenda for more information

Airport:
Raleigh-Durham International Airport
2400 John Brantley Blvd, Morrisville, NC 27560

Accommodation Partner:
Raleigh Marriott City Center
500 Fayetteville Street
Raleigh, North Carolina 27601
(919) 833-1120

Cost: $149/night.

Book your room for SG17USA HERE
Come witness simAlliance – a new collaborative group setting the standard for simulation systems. With a commitment in seamless integration, LEVEL 3 HEALTHCARE, distributors of the deluxe debriefing system SIMSTATION and SIMCORE, the premiere simulation center and learning management software.

SimAlliance sets a new standard in simulation collaboration with a commitment to seamless integration from beginning to end.

Learn more about simAlliance's innovative solutions in healthcare simulation 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.

Working alongside subject matter experts, we serve as the driving force behind numerous consumer-centered innovations that continue to move the medical simulation software markets forward with breakthrough technologies. The results are tangible: greater visibility, usability, marketability, adaptability, scalability, measurement, and ROI.

EMS offers complete turnkey solutions for clinical simulation training environments that include high stakes exams with standardized patients and integration with simulators, audio-video technology, design and planning, engineering, configuration, installation, training, and one-call support for both software and hardware.

Although the success of your clinical simulation program largely relies on educators, 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. Sim tech staff need to interact not only with internal stakeholders but also with external simulation center management companies such as EMS to ensure that: all communication lines are open to make sure needs and requirements are perfectly clear; continuous engagement is maintained before, during, and after a clinical simulation center is built; common ground is established between the educators, planning, and tech staff for successful outcomes.

Since its founding in 1994, EMS has established a reputation for delivering superior and dependable solutions and providing unprecedented levels of customer service and support keeping our customers on the leading edge.

www.SIMULATIONiQ.com
CAE Healthcare

GOLD SPONSOR: CAE HEALTHCARE

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.

LEARN MORE AT WWW.CAEHEALTHCARE.COM
GOLD SPONSOR: LAERDAL MEDICAL

The Laerdal Corporation employs 1,400 people in more than 20 countries and has further international representation through a network of over 50 distributors. All employees are committed to the company ethos of ‘helping save lives’ through the ongoing research, development and supply of innovative products to improve patient outcomes. The Laerdal Foundation based at Stavanger, Norway was established in 1980 to provide financial support to practically orientated research and development in acute medicine. Together with a sister foundation in the US, since 2004, the Laerdal Foundation has supported about 1,500 heart function, brain function, circulation/shock, breathing function, CPR and pre-hospital treatment in Europe and the US with funding in excess of $13m.

The Laerdal Company was established in 1940. During our first two decades, we created innovative toys and books for children. In 1958, the company started to dedicate itself to advancing the cause of resuscitation and emergency care. In 1960, the first patient simulator Resusci Ánne manikin was introduced to the market. A new logo was needed to reflect our mission. Our founder, Åsmund S. Laerdal, chose the image of the Good Samaritan. It depicts the ancient tale of the traveller whose selfless compassion and care saved the life of a total stranger. This became our emblem and our inspiration. Today, Laerdal Medical is dedicated to helping save lives with product solutions, services, and system solutions that support the Chain of Survival. The Good Samaritan logo symbolizes our commitment to every health professional and volunteer who has learned how to save the life of a family member, friend, or stranger in need. The vision of Laerdal is that no-one should die or be disabled unnecessarily during birth or from sudden illness or trauma. Since its creation of the pioneering, and now world famous CPR practise manikin in 1960, the Resusci Anne; many more innovative products have followed to improve and support education for Healthcare Professionals around the world, as well as facilitate the spread of CPR knowledge and skills to the would be Samaritan in the wider lay community. Laerdal has developed break-through technologies that have helped to define its portfolio of simulation, micro-simulation, virtual reality, automated external defibrillators and emergency therapeutic products as reputable market leaders. Other well-known brands include SimMan, SimBaby, SimNewB, HeartStart, Q-CPR, Stifneck, the Pocket Mask and BaXstrap.

LEARN MORE AT WWW.LAERDAL.COM
Tired of substandard sounds?
Try Ventriloscope!

“Any sound, anywhere!” has been the theme of Lecat’s Ventriloscope since its debut at IMSH in 2008. Now in almost 300 institutions in 15 countries, this versatile device has enhanced simulations by putting abnormal sounds on standardized patient actors, but can also be used with ANY mannequin, as well as small and large group teaching. SPs and inexperienced operators can learn to use it very quickly, freeing up the sim tech for more complex tasks. In this way, throughput of the center can increase greatly, with multiple rooms operating simultaneously. It allows for instant comparisons of sounds, aiding differentiation of S3 and S4 gallops for example.

Learn more about Lecat's Ventriloscope here!
Interact Solution is a turn-key video simulation lab for Schools of Medicine, Schools of Nursing, and Healthcare Professionals looking to enhance simulation through innovative teaching techniques for Evaluation and Debrief through video collaborations. This will give programs the capability to observe and grow the current program offerings through a virtual video observation and simulation. This will be a very powerful tool as Educators can use this unique software solution for simulation-based personalized learning with each individual, and will prepare them for real life experiences.

Our current clients have seen tremendous growth in their simulation programs, user’s personal awareness, skill level, and have found our Solution to be unparalleled. Interact Solution offers a unique user friendly online solution for viewing video sessions alongside time-stamped critiques and evaluations for a personal learning for each individual. Your complete AV Solution.

Learn more about Interact Solution here!

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.

Learn more about Simulaids here!
Simulab is dedicated to replicating human anatomy and turning it into realistic, easy-to-use training tools for medical professionals, that help save lives. For 23 years we have been the world leader in soft tissue simulation. With one touch you’ll see our tissues look, feel, ultrasound suture and bleed like real human tissue.

Learn more about Simulab here!

Cardionics is the leader in innovative auscultation simulation and hands-on interactive training systems. For over forty years, Cardionics has been an innovator and leader in auscultation products and services which facilitate and support classroom education, clinical, and tele-health programs in medical institutions and universities throughout the world.

Learn more about Cardionics here!

Vosaic, formerly StudioCode Group, helps researchers, educators, and learners gain insight to improve performance. Vosaic’s suite of video analysis products includes Vosaic Connect, StudioCode, and iCoda. Vosaic Connect helps conduct better debriefs through video by engages learners.

Learn more about Vosaic here!

Formerly known as the specimens division of the Shimadzu Corporation during the Meiji Period, Kyoto Kagaku was founded in 1948 in post-war Japan. Now in the wake of medical advancement, our activities are widely involved in the field of scientific education through development of simulation models and phantoms to support healthcare professionals throughout the world.

Learn more about Kyoto Kagaku here!
OtoSim Inc is the leading innovator in Otoscopy and Ophthalmoscopy training. OtoSim2™, PneumatoSim™ and OphthoSim™ are simulation systems that utilize hand-held devices, libraries of clinical scenarios and a series of interactive self-examinations to improve the learning experience for a student.

Learn more about OtoSim here!

Limbs & Things is a leading developer and manufacturer of medical simulation training products for Clinical Skills, Women's Health and the Surgical specialties. Recognized globally for our superior and comprehensive product offering, our trainers provide a realistic hands-on learning experience for academic and clinical professionals.

Learn more about Limbs & Things here!

Pocket Nurse® is a leading manufacturer and distributor of medical supplies & 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.

Learn more about Pocket Nurse here!

Our Mission is to provide healthcare educators and clinicians with innovative video-driven solutions to effect real and immediate improvement in the delivery of care. Our Vision is to significantly reduce preventable medical errors through the Circle of Safety™. This initiative will unify simulation, in situ, and in vivo education and clinical practice through a single video-driven platform.

Learn more about B-Line Medical here!
KONTEK Systems is an integrator based on creating and delivering technology environments that yield results for our clients. KONTEK is driven by a design/build approach that provides the newest ideas and the highest quality craftsmanship to all of our projects. Since 1988, our focus on higher education and medical environments has led us to create medical simulation environments - where those two disciplines meet.

Learn more about KONTEK here!
### AUGUST 1: PRE-SYMPOSIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>BUS LEAVES FROM MARRIOTT</td>
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<tr>
<td>9:00 AM</td>
<td><strong>FULL-DAY PRE-SYMPOSIUM WORKSHOPS</strong></td>
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<td></td>
<td>P1: 8-HOUR MOULAGE WORKSHOP - $395 / $325</td>
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<td>MOULAGE TECHNOLOGY</td>
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<td>P2: EMS SIMULATIONiQ SPONSORED HACK-A-THON</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td>12:30 PM</td>
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<td>1:00 PM</td>
<td><strong>PRE-SYMPOSIUM WORKSHOPS</strong></td>
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<td>P3: EFFICIENT SYSTEMS DELIVER EFFECTIVE SIMULATIONS</td>
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<td>P4: CAE HEALTHCARE ESSENTIALS OF LUCINA, CHILDBIRTH SIMULATOR</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td>5:00 PM</td>
<td>END OF PRE-SYMPOSIUM WORKSHOPS</td>
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<td>5:15 PM</td>
<td>BUS LEAVES FOR MARRIOTT</td>
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## AUGUST 2 - MORNING

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:15 AM</td>
<td>BUS LEAVES MARRIOTT</td>
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<tr>
<td>7:30 AM</td>
<td>REGISTRATION &amp; EXHIBIT HALL OPEN</td>
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<tr>
<td>8:00 AM</td>
<td>WELCOMING REMARKS</td>
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<td>8:20 AM</td>
<td>PARTNERSHIP, CREATIVITY AND INNOVATION: SUCCESSFUL MANAGEMENT, SUPPORT AND GROWTH IN SIMULATION [SPONSORED BY SIMALLIANCE] BRIAN GILLET, MD</td>
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<td>9:15 AM</td>
<td>BREAK &amp; EXHIBIT HALL OPEN</td>
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<td>10:00 AM</td>
<td><strong>SESSION BLOCK A</strong></td>
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<tr>
<td></td>
<td>A1: INTRO TO MOULAGE - $30</td>
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<td>MOULAGE TECHNOLOGY</td>
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<td>A2: DESIGNING HEALTHCARE SIMULATION WITH AUTODESK FUSION360</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td>A3: UNDERSTANDING THE ADMINISTRATIVE SIDE OF A HOSPITAL-BASED SIMULATION PROGRAM</td>
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<td>MANAGEMENT</td>
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<td>A4: LEGACY TO LLEAP: WHAT THEY DIDN'T TELL YOU</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td>A5: DIY SIMULATOR TECHNIQUES DOUBLE SESSION</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td>12:00 PM</td>
<td><strong>SESSION BLOCK B BY PLATINUM &amp; GOLD SPONSORS</strong></td>
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<td></td>
<td>B1: UNDER THE HOOD OF APOLLO</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td></td>
<td>B2: CONCEPTS IN SCENARIO AUTOMATION AND STANDARDIZATION</td>
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<tr>
<td></td>
<td>INFORMATION TECHNOLOGY</td>
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<tr>
<td></td>
<td>B3: DISCOVER IN-SITU AND MOBILE OBSTETRIC TRAINING WITH SIMMOM®</td>
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<td>SIMULATION TECHNOLOGY</td>
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<td>B4: COMPARING AND CONTRASTING VIDEO CAPTURE TECHNOLOGIES</td>
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<tr>
<td></td>
<td>AUDIOVISUAL TECHNOLOGY</td>
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<tr>
<td>12:50 PM</td>
<td>LUNCH &amp; EXHIBIT HALL OPEN</td>
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AUGUST 2 - AFTERNOON

2:00 PM  HERE TODAY, GONE TOMORROW: THE TECHNOLOGICAL HURDLES WE ALL FACE [SPONSORED BY LAERDAL MEDICAL]
   DR. AMAR PATEL  PAGE 27

3:00 PM  SESSION BLOCK C BY GOLD SPONSORS
   C1: TRAINING FOR TRAUMA MOULAGE WORKSHOP - $30
   MOULAGE TECHNOLOGY  PAGE 28
   C2: ARDUINO FOR THE DIY SIM TECH
   INFORMATION TECHNOLOGY  PAGE 28
   C3: RECORDING YOUR SIMULATIONS: FRAMING THE PERFECT SHOT
   AUDIOVISUAL TECHNOLOGY  PAGE 28
   C4: BUDGETING, EVENT COSTING AND ACCREDITATION WITH EXCEL PIVOT TABLES
   INFORMATION TECHNOLOGY  PAGE 28
   C5: WAKEMED CENTER FOR INNOVATION DOUBLE SESSION
   SIMULATION TECHNOLOGY  PAGE 28

4:45 PM  SESSION BLOCK D BY SILVER SPONSORS
   D2: CONGRUENT MULTISENSORY LEARNING
   SIMULATION TECHNOLOGY  PAGE 29
   D3: VIDEO INTEGRATION 101: HOW TO EXPAND VIDEO SOLUTIONS IN YOUR SIMULATION LABS
   AUDIOVISUAL TECHNOLOGY  PAGE 29
   D4: ARE YOU READY FOR 4K VIDEO?
   MUST KNOW REQUIREMENTS & BENEFITS!
   AUDIOVISUAL TECHNOLOGY  PAGE 29
   D5: NEXT GENERATION OF HOW TO MAKE CRITICAL THINKERS
   GENERAL EDUCATION  PAGE 29

5:30 PM  BUS TRANSPORTATION FOR COMEDY SHOW

6:00 PM  SIMALLIANCE COMEDY SHOW & NETWORKING EVENT  PAGE 30
AUGUST 3 - MORNING & AFTERNOON

7:45 AM  BUS LEAVES MARRIOTT
8:00 AM  SIMULATION TECHNOLOGY AND OPERATIONS - WE ARE STATE OF THE ART [SPONSORED BY CAE HEALTHCARE]

SCOTT CRAWFORD, MD  PAGE 31

9:15 AM  BREAK & EXHIBIT HALL OPEN

10:00 AM  SESSION BLOCK E BY GOLD SPONSORS

E1: UNDER THE HOOD OF LUCINA
SIMULATION TECHNOLOGY  PAGE 32

E2: THE TIME FOR INTERPROFESSIONAL EDUCATION IS NOW. TOMORROW. AND FOR THE LONG TERM!
AUDIOVISUAL TECHNOLOGY  PAGE 32

E3: DISCOVER IN-SITU AND MOBILE OBSTETRIC TRAINING WITH SIMMOM®
SIMULATION TECHNOLOGY  PAGE 32

E4: COST EFFECTIVE AND FUTURE PROOF MEDICAL SIMULATION CENTRE AV SYSTEMS DESIGN
AUDIOVISUAL TECHNOLOGY  PAGE 32

11:00 AM  SESSION BLOCK F

F1: IT TOOLS FOR FOR NON-IT SIMULATION SPECIALISTS
INFORMATION TECHNOLOGY  PAGE 33

F2: STOP THE BLEED FOR THE MASSES
MEDICAL / CLINICAL  PAGE 33

F3: SIMMAN 3G TROUBLESHOOTING
SIMULATION TECHNOLOGY  PAGE 33

F4: SIMULATING POINT-OF-DISTRIBUTION (POD) FOR PANDEMIC ETHICAL FRAMEWORK HIGHLIGHTING ALTERED STANDARDS OF CARE AND ALLOCATION OF SCARCE RESOURCES
SIMULATION TECHNOLOGY  PAGE 33

F5: MANAGEMENT TOPICS DOUBLE SESSION
MANAGEMENT  PAGE 33

12:50 PM  LUNCH & EXHIBIT HALL OPEN UNTIL 3PM - LAST CHANCE!

1:00 PM  MEET YOUR VENDOR OPTIONAL SESSIONS  PAGE 34

V1 - MEET YOUR VENDOR: LEVEL 3 HEALTHCARE
V2 - MEET YOUR VENDOR: LAERDAL MEDICAL
V3 - MEET YOUR VENDOR: CAE HEALTHCARE
V4 - MEET YOUR VENDOR: EMS SIMULATIONiQ
### SESSION BLOCK G

**G1: HEIGHTENING ENVIRONMENTAL FIDELITY THROUGH THE USE OF REMOTE CONTROLLED DEVICES**  
SIMULATION TECHNOLOGY  
PAGE 35

**G2: THE DESIGN AND CREATION OF A MOBILE SIMULATION LAB**  
SIMULATION TECHNOLOGY  
PAGE 35

**G3: INNOVATIVE TECHNOLOGY: DOUBLING THE DISTANCE IN SIMULATION EDUCATION**  
SIMULATION TECHNOLOGY  
PAGE 35

**G4: SAME SIM, DIFFERENT DAY**  
MANAGEMENT  
PAGE 35

**G5: EMS/ACTIVE SHOOTER MULTI AGENCY RESPONSE**  
MOULAGE TECHNOLOGY  
PAGE 35

### SESSION BLOCK H

**H1: MOVING BEYOND MAKEUP TO ADD FIDELITY TO YOUR SIM**  
MOULAGE TECHNOLOGY  
PAGE 36

**H2: SAFETY SHOULD NEVER BE SIMULATED**  
GENERAL EDUCATION  
PAGE 36

**H3: STANDARDIZING SIMULATION OPERATIONS**  
SIMULATION TECHNOLOGY  
PAGE 36

**H4: LOGGING ISSUES USING QR CODES**  
INFORMATION TECHNOLOGY  
PAGE 36

**H5: MOCK IN-HOSPITAL EMERGENCY DRILLS - MAXIMIZE BENEFIT, REDUCE FRUSTRATION**  
GENERAL EDUCATION  
PAGE 36

### SESSION BLOCK I

**I1: SIMULATION MODALITIES, SELECTING THE APPROPRIATE METHOD WILL OFTEN BE THE DIFFERENCE BETWEEN SUCCESS AND DISASTER**  
SIMULATION TECHNOLOGY  
PAGE 37

**I2: GETTING THROUGH THE GRIND (A WAY TO STREAMLINE DAILY OPERATIONS)**  
GENERAL EDUCATION  
PAGE 37

**I3: HOW TO FABRICATE AN I/O PLATE**  
SIMULATION TECHNOLOGY  
PAGE 37

**I4: TECHNIQUES TO ACCOMMODATE MULTI-PATIENT SCENARIOS IN HEALTHCARE SIMULATION.**  
SIMULATION TECHNOLOGY  
PAGE 37

5:00 PM  CLOSING REMARKS & FINAL EVENT SURVEYS

5:30 PM  BUS RETURNS TO MARRIOTT
# AUGUST 4: EXTENDED WORKSHOPS

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<td>7:45 AM</td>
<td>BUS LEAVES MARRIOTT</td>
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<td>8:00 AM</td>
<td>POST-SYMPOSIUM WORKSHOPS</td>
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<td><strong>J1: MOULAGE DOUBLE SESSION - $50</strong></td>
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<td>MOULAGE TECHNOLOGY</td>
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<td>PAGE 38</td>
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<td><strong>J2: SIMULATION PROGRAM EVALUATION:</strong></td>
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<td>USING WHAT YOU HAVE AND USING IT WELL</td>
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<td>INFORMATION TECHNOLOGY</td>
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<td><strong>J3: THE WRITE STUFF</strong></td>
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<td>GENERAL EDUCATION</td>
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<td>12:00 PM</td>
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<td>12:10 PM</td>
<td>FINAL BUS RETURNS TO MARRIOTT</td>
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SimGHOSTS is excited to announce the World’s First Healthcare Simulation “Hackathon”, Gold Sponsored by EMS SIMULATIONiQ. A Hackathon, or “hackfest”, is a design sprint-like event in which creative, technical, and subject matter experts come together to build an innovative project to address a common problem. Hackathons typically last between a day and a week and are usually intended for educational, social, or industry wide purposes.

Over the past several years, the international healthcare simulation community has overwhelmingly requested that SimGHOSTS put on this innovative development workshop to find and solve industry challenges. Thanks to EMS SIMULATIONiQ, this one day event is FREE for all attendees of SimGHOSTS 2017 USA who wish to work with peers to develop a new innovative product, service, or system.

Pre-registration is necessary to secure free bus transportation from the Marriott Raleigh Downtown Hotel which will be held during pre-con workshops August 1st SimGHOSTS 2017 USA at WakeMed Center for Innovative Learning.

Industry experts will lead teams covering key domains healthcare, simulation, business, hardware manufacturing, software development, and moulage. Join EMS SIMULATIONiQ and SimGHOSTS to identify simulation industry wide challenges and help to “HACK” an innovative solution!
P1: 8-Hour Moulage Workshop - $395 / $325

MOULAGE

Bobbie Merica, Moulage Concepts

Come learn to create life-like three-dimensional wounds that can be sutured, debrided, and triaged for a realistic training experience. The presenter will identify SIM-Safe make-up and training techniques to create common Medical, Trauma and All Hazards conditions. Learn to understand moulage wound development when creating soft tissue wounds and accessory moulage utilizing gels, Silifix, latex and waxes. Participants will learn basic, intermediate, advanced and medical-trauma moulage wounds application including surgical dehiscence, ulcers, burns, lacerations and active shooter.

P2: EMS SIMULATIONiQ sponsored Hack-a-Thon

SIMULATION TECHNOLOGY

SimGHOSTS is excited to announce the World's First Healthcare Simulation Hackathon, Gold Sponsored by EMS SIMULATIONiQ. A Hackathon, or hackfest, is a design sprint-like event in which creative, technical, and subject matter experts come together to build an innovative project to address a common problem. Hackathons typically last between a day and a week and are usually intended for educational, social, or industry wide purposes. Over the past several years, the international healthcare simulation community has overwhelmingly requested that SimGHOSTS put on this innovative development workshop to find and solve industry challenges. Thanks to EMS SIMULATIONiQ, this one day event is FREE for all attendees of SimGHOSTS 2017 USA who wish to work with peers to develop a new innovative product, service, or system.

P3: Efficient Systems Deliver Effective Simulations

SIMULATION TECHNOLOGY

Laerdal Medical

Learn how to help meet your faculty and staff’s learning objectives with greater ease. During this hands-on session, Laerdal technicians will introduce you to the tools and techniques they use to keep your simulators running at peak performance. We will begin by demonstrating proper functionality tests utilizing our approved checklists, which participants may keep to use back at their own facility. This will be followed by a discussion on the benefits of our latest software platform, LLEAP, including step-by-step instructions on how to upgrade your simulators and access to the resources needed for successful implementation. The session will conclude with directions on changing common replacement parts.

P4: CAE Healthcare Essentials of Lucina, childbirth simulator

SIMULATION TECHNOLOGY

CAE Healthcare

This four-hour hands-on course will provide participants the basic essentials of using the CAE Healthcare simulators, LUCINA and VIMEDIX OB/GYN. The course will enable participants to have a basic understanding of set-up, power on and off procedures, use of the birthing configurations (prepartum, delivery and postpartum), fluid features, and use of the preconfigured SCEs in the Muse operating platform. The course will enable participants to also perform basic troubleshooting and general care and maintenance on these CAE Healthcare simulators.
PARTNERSHIP, CREATIVITY AND INNOVATION: SUCCESSFUL MANAGEMENT, SUPPORT AND GROWTH IN SIMULATION

Brian Gillett, MD
CEO & Founder of SimCore

SimCore is a collaborative partner from simAlliance; Brian Gillett is an academic Emergency Medicine physician possessing over a decade of leadership experience in the field of healthcare simulation and patient safety. He created and directed the simulation centers for Kings County Hospital, SUNY Downstate College of Medicine and Maimonides Medical Center, during which time SimCore was conceived. As a simulation director, he founded the company with the vision of creating patient safety solutions from within the simulation community.

Dr. Gillett’s presentation will explore new technologies designed to improve healthcare performance through innovative, intuitive, and high impact solutions from within our community. Brian will share how effective and sustainable healthcare interventions must be developed in a genuine partnership with those who will ultimately utilize the systems. For simulation to succeed it has to first be managed and supported in an effective way, and this presentation will show us how through creative approaches and innovative solutions.

Dr. Gillet will also demonstrate lessons for the successful development, growth, and support of staff who operate simulation programs from his numerous administrative roles. Finally, Brian will share key ways members of the SimGHOSTS community can increase the support of their professional development from administrators and clinical faculties from a “grass roots” perspective.
A1: Intro to Moulage - $30

MOULAGE

Bobbie Merica
Moulage Concepts

LEARNING OBJECTIVES

- Identify useful moulage materials
- Demonstrate proper moulage preparation and cleanup techniques
- Describe methods for creating simulated wounds and bodily fluids

A2: Designing Healthcare Simulation with Autodesk Fusion360

SIMULATION TECHNOLOGY

David Escobar

LEARNING OBJECTIVES

- Understand best practices when using CAD software
- Prepare models for 3D Printing
- Demonstrate ROI using CAD and 3D Printing

A3: Understanding the Administrative Side of a Hospital-Based Simulation Program

GENERAL EDUCATION

WakeMed Staff

LEARNING OBJECTIVES

- Discuss CIL’s involvement in quality and patient safety initiatives across the organization.
- Discuss how to manage day-to-day operations in a hospital-based program.
- Discuss the technical aspects and challenges of the CIL.

A4: Legacy to LLEAP: What They Didn’t Tell You

SIMULATION TECHNOLOGY

Nick Brauer

LEARNING OBJECTIVES

- Identify how LLEAP has improved functionality.
- Identify and be aware of potential glitches
- Be able to successfully create a scenario using handlers and trends.

A5: DIY SIMULATOR TECHNIQUES DOUBLE SESSION

Demonstration of the (T-4) Chest Tube Trainer

SIMULATION TECHNOLOGY

Mark Williams

LEARNING OBJECTIVES

- To show how to build task trainers out of old parts.
- To show how incorporating real biological material can provide a more realistic training.
- To show how DIY projects can cut costs for complex trainers.

It’s All About the “Tidal”
How to create realistic tidalizing in chest tubes

SIMULATION TECHNOLOGY

Major John Eggert
Rachel Bailey

LEARNING OBJECTIVES

- Identify the barriers of chest tube simulations
- Demonstrate the process of fabricating a manikin to realistically display chest tube functionality
- Demonstrate fabricated chest tube in use on high fidelity simulator

This "do it yourself" presentation will demonstrate how to apply fabrication to a manikin in order to provide chest tube functionality during simulation. Presenter will demonstrate the steps of connecting common pieces that are readily available in any hardware store, and provide a detailed description of how and why this fabrication provides the necessary tools for chest tube simulations.
B1: Under The Hood of Apollo

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

B2: Concepts in Scenario Automation and Standardization

Explore terminology, concepts, automation, standardization of scenarios, and the role of the operations specialist (simulation technology specialist). Simulator manufacturers each have their own methods for programming scenarios. Some share common terms and concepts, while others are more proprietary. This course discusses concepts and terms presented in Chapter 10 in the book: Healthcare Simulation: The Role of the Operations Specialist, co-authored by H. Michael Young and Valeriy Kozmenko.

LEARNING OBJECTIVES
- Overview of basic terminology and concepts, both common and unique to the various platforms.
- Describe the important role that the SimOps Specialist plays in Scenario Standardization
- Discuss how the SimOps Specialist empowers the Subject Matter Expert through Automation

B3: Discover In-situ and Mobile Obstetric Training with SimMom

Learning to make quick decisions during childbirth can mean the difference between life and death. SimMom® is designed to facilitate training and prepare learners to recognize and respond to potential high-risk births and postpartum complications. Come explore the tetherless design of SimMom with integrated ultrasound technology, accurate birthing anatomy, and interchangeable postpartum modules.

LEARNING OBJECTIVES
- Explain system components and features
- Demonstrate functionality of delivery methods and ultrasound technology
- Understand basic troubleshooting

B4: Comparing and Contrasting Video Capture Technologies

The presentation will examine different camera types and the means to display and record the video captured by those imaging devices. Camera topics will include analog signal cameras, digital signal cameras, and internet protocol (IP) cameras. Live video display will be compared to different streaming protocols.

LEARNING OBJECTIVES
- Identify the major types of cameras used in healthcare simulation
- Describe differences between analog and digital signals
- Describe major video streaming protocols
PLENARY ADDRESS
HERE TODAY, GONE TOMORROW:
THE TECHNOLOGICAL HURDLES WE ALL FACE

Dr. Amar Patel
Director, Center for Innovative Learning at WakeMed Health & Hospitals

One may argue that CGI can be an important part of a film, a video, or even an educational session. So, what is CGI? Do you really understand how valuable things like CGI can be in simulation? Each day, new pieces of technology are introduced to enhance our experiences. Those of us that are innovators want nothing more than the opportunity to use it, while the laggards attempt to justify, analyze, and develop a value plan for adopting it. But, who is right?

There are countless technological hurdles for all involved, and it takes an innovator working with laggards to truly understand what we can and should use today. Utilizing technology in simulation creates a distinct and yet complex environment. Understanding the unique nature of technology and what is available to us will only help push more laggards into innovators. To take our programs to the next level, we must explore the latest technological advances available to us today and where they can bring us tomorrow. Let’s see what the future holds for us all in simulation!
SESSION BLOCK C: AUGUST 2, 3:00 PM - 4:40 PM

C1: Training for Trauma Moulage Workshop - $30

MOULAGE

Bobbie Merica
Moulage Concepts

LEARNING OBJECTIVES

Describe proper moulage preparation techniques

Contrast benefits and disadvantages of different moulage techniques

Describe methods for creating trauma moulage

C2: Arduino for the DIY Sim Tech

INFORMATION TECHNOLOGY

David Escobar

LEARNING OBJECTIVES

Understand the basics of programming using the Arduino IDE

Learn the differences in boards and sensors available for Arduino

Learn how to incorporate Arduino into your next DIY simulation project

C3: Recording Your Simulations: Framing the Perfect Shot

AUDIOVISUAL TECHNOLOGY

Conley Evans

LEARNING OBJECTIVES

Learners will understand the fundamentals of basic composition.

Learners will understand the exposure triangle.

Learners will gain understanding of how to leverage backgrounds and staging to elevate media quality.

Video or still photography has always played a significant role in simulation. This presentation will introduce beginner/intermediate tools that will help create more attractive media component for simulation. This presentation will cover basic composition, the exposure triangle, as well as backdrop and staging. Basic composition includes the Rule of Thirds as well as using a grid to position subject matter in a more appealing format. The exposure triangle references the ideas of depth of field the importance of light, as well as ISO Settings. Finally, backdrop and staging will be discussed as learners focus on capitalizing background as well as using settings to separate the subject from the background.

C4: Budgeting, Event Costing and Accreditation with Excel Pivot Tables

INFORMATION TECHNOLOGY

Sylvia Merino

LEARNING OBJECTIVES

Describe how to manage large volumes of event data using tables and the pivot wizard in Excel

Create quotes and invoices for Simulation Center event services delivered to external entities

Identify institutional strategies and make appropriate financial decisions for sustainability

Many Simulation Centers struggle with the question: “How much should I charge external learner groups for an event at my Sim Center?” Come learn how to calculate event costs and an overall budget using properly constructed Excel sheets, pivot tables and basic cost accounting principles. We will discuss what events you should support by knowing your strategic mission and relationships with external entities. And did you know that all this supports your Center’s Accreditation process? Come learn!

C5: WAKEMED CENTER FOR INNOVATION DOUBLE SESSION

What the Heck is This Called? The First 3 months in a Simulation Center

MANAGEMENT

WakeMed Staff

LEARNING OBJECTIVES

Discuss adult learning theory.

Discuss application of adult learning theories.

Discuss the role of a structured orientation program for new employees.

In their own words, new simulation specialists discuss the challenges they experienced during their transition from bedside clinical practice to the simulation center. This presentation will include: a review of adult learning theory, application to a professional practitioner in a healthcare environment, technology learning curve, role of structured orientation, and how the experienced simulation educator can assist in the transition

Setting the Environment for Simulation: Multimedia and Stagecraft

MOULAGE

WakeMed Staff

LEARNING OBJECTIVES

Discuss the use of props, sets, and other immersive learning tools.

Discuss stage management and its role in simulation.

Discuss the use of and importance of confederates.

Participants will be introduced to creative uses for multimedia and theatrical initiatives in simulation creation and implementation to create more immersive environment for learners. This will include the use of props, sets, multimedia, and other theatrical standbys to ensure learner immersion. Guest presenters with theater backgrounds will discuss stage management, direction of confederates, set design, and prop usage in simulation.
D2: Congruent Multisensory Learning

LEARNING OBJECTIVES

- Describe the basic concepts of “congruent multisensory learning”
- Identify abnormal sound commonly heard in the clinical arena
- Describe the advantages of Standardized Patient operated equipment.

Ventriloscope offers the first and only hybrid physical diagnosis mannequin with cases to use with SPs or student partners. You can even show these to a class of 300 as they experience the proper visual, auditory, emotional, and muscle memory stimuli to diagnose and remember how to assess for critical clinical conditions! You can use any MP3 sound file to simulate any sound, anywhere on a mannequin standardized patient, or class partner. Use it to teach large or small classes practical physical diagnosis techniques.

D3: Video Integration 101: How to Expand Video Solutions in Your Simulation Labs

LEARNING OBJECTIVES

- Describe what audio visual system materials are needed for effective use as a debriefing methodology.
- Demonstrate how to setup these technologies for maximum return on investment.
- Showcase examples of effectively integrated audiovisual systems.

Adding new video recording and debriefing technologies to your simulation labs will dramatically increase the learning outcomes of your program -- but what is the how, where, and what? This course by interact solutions will show you how to setup audiovisual technologies in your program to assist with the discrete coaching of your learners. Participants will learn what AV equipment is required, how this equipment is setup and effectively integrated.

D4: Are you ready for 4K video? Must know requirements & benefits!

LEARNING OBJECTIVES

- Identify needs for effective collaboration with IT departments
- Learn how to calculate infrastructure requirements for 4K upgrade installations.
- Define program learning outcomes and opportunities of 4K video meet them

How many milliliters is that student drawing up? Was the delicate surgical procedure performed correctly? Only the power of 4K recording and debriefing may tell us! 4K recording and debriefing allows simulation programs to extend the benefits of the most life-like video detail commercially available to the learning outcomes of. But what are the challenges of considering this new technology and how can your simulation program overcome then? Find out if 4K is right for you!

D5: Next Generation of How to Make Critical Thinkers

LEARNING OBJECTIVES

- Identify how new levels of realism and technology in simulation alters current training methodologies
- Evaluate how changes in realism and technology will affect expectations for critical thinking in simulation
- Evaluate how realism and technology alters the use of simulation in supporting clinical outcomes.

What new elements can be added to simulation that expands the scope of critical thinking? Simulation has its roots in the ability to demonstrate and apply a skill at an appropriate time to attempt a specific outcome. The real world application of medical treatment is more than just a collection of skills that are applied through a simple matrix. We explore how new improvements in realism and technology in our products are providing an expansive environment for simulation. Clinicians can optimize, the reality of dealing with humans not objects. If we look at human centric versus skills focus simulation, what does that world of training look like, what are the challenges and what are the opportunities? What needs to be done differently and what does this training look like?
WEDNESDAY AUGUST 2, 6:00 PM - 9:45 PM

COMEDY SHOW & NETWORKING EVENT

Join your SimGHOSTS colleagues for a night of laughs at Raleigh's premiere comedy club “Goodnight’s”! This world famous venue for stand-up comedians has been putting on a show since 1983, with dinner & drink specials from its bar & grill. Bus transportation, taco bar dinner and drinks are on us!

5:30PM - Leave WakeMed for Goodnights
6:00PM - 7:15PM Taco Bar Dinner & Drinks
8:00PM - 9:45PM Comedy Show of Laughter
9:45PM - Return Bus to Marriott Downtown

Year after year our attendees ask each other if they were there for “the SimGHOSTS bowling party of 2014 or the Point Break Live show of 2015?”-- well now’s your chance to join us now for the Comedy show of 2017 and see what all the fun is about!

Sponsored by the connectors of innovative solutions: SimAlliance!
This talk will outline the current state of healthcare simulation technology and operations including the many advancements and innovations in this field. This unique specialty within healthcare simulation is the blend of innovator, educator, project manager, stage director, and technology integrator.

Healthcare has phenomenal tools and innovation to improve patient's lives, so it is no wonder that the tools available for training are no less than state of the art as well. Technological innovations in audio and video enhanced teaching, task training devices and computer simulated environments for surgical and team training are just some of the innovations that we must understand and help to develop. Every person in healthcare simulation can work to improve training and provide innovation.

The special focus of groups like SimGHOSTS, INACSL and SSH have pushed the importance of technology and operations within simulation to be recognized, standardized and enhanced. These groups worked together to create a new simulation standard to ensure consistent function and understanding of this diverse role.

Those involved in healthcare simulation around the world can now easily connect, communicate and share ideas and innovation. It seems likely that the next advances in healthcare will be pioneered in the world of simulation.
## E1: Under The Hood of Lucina

**SIMULATION TECHNOLOGY**

- CAE Healthcare

**LEARNING OBJECTIVES**

- Describe techniques for troubleshooting simulator wireless issues
- Describe preventive maintenance procedures
- Demonstrate simulator standard operating procedures

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.

## E2: The Time for Interprofessional Education is Now. Tomorrow. And for the long term!

**AUDIOVISUAL TECHNOLOGY**

- EMS SIMULATIONIQ

**LEARNING OBJECTIVES**

- Describe a virtual web-based platform that supports clinical interprofessional experiences
- Identify the process and tracking of team communication through video conferencing
- Explain the process for implementing a series of interrelated interprofessional experiences.

This presentation will showcase a web-based platform that enables virtual teams from multiple disciplines to collaboratively provide care to a single patient overtime. The ability to accelerate the frequency of IPE events for better collaboration and outcomes; simplify team scheduling; and simulate team communication through video conferencing will also be addressed during this presentation.

## E3: Discover In-situ and Mobile Obstetric Training with SimMom

**SIMULATION TECHNOLOGY**

- Laerdal Medical

**LEARNING OBJECTIVES**

- Explain system components and features
- Demonstrate functionality of delivery methods and ultrasound technology
- Understand basic troubleshooting

Learning to make quick decisions during childbirth can mean the difference between life and death. SimMom is designed to facilitate training and prepare learners to recognize and respond to potential high-risk births and postpartum complications. Come explore the tetherless design of SimMom with integrated ultrasound technology, accurate birthing anatomy, and interchangeable postpartum modules.

## E4: Cost effective and future proof medical simulation centre AV systems design

**AUDIOVISUAL TECHNOLOGY**

- Marcel Schoenenberger

**LEARNING OBJECTIVES**

- Identify how to effectively integrate the AV systems into the Simulation Center facility
- Describe how to make the AV systems user friendly and future proof
- Describe future technologies to effectively communicate with users before, during and after training

Audiovisual systems are an integral component of the learning methodologies used in medical simulation training, and to be effective they must be based on the actual user requirements, able to accommodate all typical training scenarios such as the use of human patient simulators, standardized patients, confederates and assessment programs. This presentation will provide important steps and criteria commonly overlooked when designing integrated AV systems into medical simulation training centers, and provide the audience with useful pointers!
F1: IT Tools for for Non-IT Simulation Specialists

**INFORMATION TECHNOLOGY**

Michael Young
Evan Bartley

**LEARNING OBJECTIVES**

- Learn Connectivity Concepts and Tools
- Learn Major Components of PC
- Learn Concepts in File Management, User Management, Permissions and Sharing

This workshop will allow those without formal IT training to learn many of the basic functions and procedures related to the modern personal computer. Get hands on with systems and learn how to manage files and users, as well as the major components of a computer and basic networking concepts. Even if you use computers all the time, this session will offer specifics and boost confidence in your abilities.

F2: Stop The Bleed for the Masses

**MEDICAL / CLINICAL**

James Colquitt
Kristal Smith

**LEARNING OBJECTIVES**

- Participants will learn how to apply pressure, pack a bleeding wound and apply a tourniquet.
- Participants will be able to build a basic wound packing and tourniquet trainer.
- Participants will be able to deliver the Stop The Bleed course in their own community.

The facilitators in this session will provide training and resources on building a bleeding control model which can be used for mass training exercises in the participants’ own facilities. The second part of the training will be lecture and skills training from the Stop the Bleed program by the ACS. This model offers a creative way to deliver the training on a shoe string budget and can be implemented relatively quickly and easily. The facilitators for this course are EMT/RRT-ACCS and EMT-P trained clinicians who also train their local community on bleeding control. They will provide the resources needed for the course (other than the technology) and as supplies last the trainers will be sent home with the participants.

F3: SimMan 3G Troubleshooting

**SIMULATION TECHNOLOGY**

Nick Brauer

**LEARNING OBJECTIVES**

- Identify SimMan 3G internal and external components that are likely to fail or need regular maintenance.
- Describe how to use LLEAP software to test and adjust various manikin features.

Back by popular demand: Regular maintenance and troubleshooting with SimMan 3G often requires the utilization of software and hardware testing. With the introduction of LLEAP various settings within the operating system have changed or at least the process or location have been altered. As a direct result, various backend troubleshooting tools may be difficult to find initially. Additionally, SimMan 3G is a complex manikin therefore requires regular maintenance and repairs on an as needed basis. In the course, the presenter will introduce internal and external components and will explore a series of problem-solving techniques.

F4: Simulating Point-of-Distribution (POD) for Pandemic Ethical Framework Highlighting Altered Standards of Care and Allocation of Scarce Resources

**SIMULATION TECHNOLOGY**

Yixing Chen

**LEARNING OBJECTIVES**

- Simulation design of a POD exercise for learners to develop and execute
- Evaluate previous POD exercise and discuss the logistics of simulation delivery
- Attendee participation of a live onsite POD exercise

Previous pandemics can create decrease in healthcare providers and life-saving resources. Altered standard of care, prioritization of patients and allocation of scarce resources will require an ethical framework developed and accepted by the stricken community. This presentation will show attendees how to create their own POD simulation involving multiple patients and limited amount of resources. This simulation involves chaos of distributing resources to 40+ people in a short amount of time and resources. This presentation will conclude with a live POD exercise.

F5: MANAGEMENT TOPICS DOUBLE SESSION

**Developing a Culture of Sim-Savvy SMEs**

**MANAGEMENT**

WakeMed Staff

**LEARNING OBJECTIVES**

- Discuss how to develop a culture of Sim-Savvy SMEs.
- Discuss the WakeMed SME program.
- Outline collaborative methods to ensure students have a positive simulation experience.

New national simulation guidelines have recommended the role of facilitators to be undertaken by full time simulation specialists. This topic will explore the transition of a simulation program to the new guidelines and challenges faced along the way. An overview of the newly developed subject matter expert (SME) program designed to incorporate grandfathered SMEs along with SMEs new to simulation. At the end of the presentation participants will gain knowledge of collaborative methods to ensure quality simulation development and experiences.

**Simulation Staffing on a Shoestring: Design and Implementation of a Volunteer Simulator Operator Program**

**MANAGEMENT**

Christen Phillips

**LEARNING OBJECTIVES**

- Describe how to identify, train, and retain a pool of volunteer simulator operators
- Design a simulator operator training course that is specific to institution
- Explain why the support of institutional leadership is vital to the success of a volunteer operator program

Identify and train a volunteer pool of simulator operators from within your institution. This is helpful to institutions that do not have funding for additional full-time employees and/or have a difficult time finding qualified candidates to fill positions. Topics will include, but are not limited to, the development of a simulator operator course; identifying and training potential operators; retention of volunteers; potential pitfalls; and how to gain leadership support.
At SimGHOSTS, we believe Simulation Technology Specialists are the real “end-users”. Wish you could ever sit down with your vendor and share your concerns or your suggestions? Well come join us at this facilitated session to share with your vendor technical and constructive feedback about their products and services.

A mission of SimGHOSTS is to help speed up technology adoption and be a bridge for the medical simulation technical community and manikin manufacturers. Make suggestions to improve software manipulation and hardware utilization. This time is also saved to provide more opportunity to engage with the vendor exhibit area.
G1: Heightening Environmental Fidelity Through the Use of Remote Controlled Devices

SIMULATION TECHNOLOGY

Theo Raaymakers

LEARNING OBJECTIVES

Describe how simple creations can elevate the environmental and functionality fidelity of simulations.

Learners will gain a basic understanding of electronic circuitry including parallel and series circuits.

Learners will get a better understanding of basic product designing and finalizing a product process.

In our simulation center we had the need for a remote PCA pendant. It was essential in order to maintain the high fidelity of our simulations. I took it upon myself to create a remote PCA pendant in which we are able to keep the original functioning button on the PCA pendant, as well as add our own RF remote receiver to the pendant without adding much bulk or obstructive qualities. This allowed the learner to stay within strict healthcare protocols, which was previously impossible.

G2: The Design and Creation of a Mobile Simulation Lab

SIMULATION TECHNOLOGY

Christopher Lazo
Matt Stieber
John Lazo

LEARNING OBJECTIVES

Determining if the creation of a mobile simulation lab is a good idea for your organization.

Designing and building a mobile simulation lab.

Creating a mobile/in situ debriefing system.

This presentation will cover the acquisition and design of a mobile simulation unit. Talking points will include fostering community relationships, modifying mobile platforms for simulation use, overcoming budget restraints, maintaining realism within mobile simulations, and creating a mobile debriefing system. Following discussion, the Parkview Mobile Simulation Lab will be on site for a tour and Q&A.

G3: Innovative Technology: Doubling the Distance in Simulation Education

SIMULATION TECHNOLOGY

Susan Fancher
Stephanie Nidiffer
Evan Campbell
Andi Damewood

LEARNING OBJECTIVES

Understand use of robot technologies used in simulation.

Understand use of robot technologies for inter-professional learning simulation experience.

Demonstrate appropriate manipulation of robot technology and functions.

This workshop will first be a description of robot technology, how it can be used in simulation and how our program has used robots integrated into a simulation educational experience. It will then be a workshop to allow participants opportunity to “test drive” a robot for themselves and to see how this technology feels on the user end for learners at a distance.

G4: Same Sim, Different Day

GENERAL EDUCATION

Rachel Bailey
Major John Eggert

LEARNING OBJECTIVES

Identify the barriers of operational improvements.

Describe the integration of operational process improvements with other team members.

Summarize techniques used to improve functionality and fidelity in simulations.

This presentation will involve the discussion of evolving a simulation center from static verbal simulations to a high fidelity interactive simulation center. Presenters will discuss the various steps taken to improve operations in regards to functionality of equipment, standardization of simulations and fidelity of simulations. Presenters will describe the steps taken to pilot each improvement to ensure that educational objectives were not compromised while operations were optimized.

G5: EMS/Active Shooter Multi Agency Response

MOULAGE

Bobbie Merica
Moulage Concepts

LEARNING OBJECTIVES

Describe the challenges of staging active shooter scenarios.

Identify the materials that can create an active shooter scenarios.

Evaluate the benefits and limitations to staging active shooter scenarios.

The goal of this session is to develop an understanding to introductory MCI staging events and collaborative planning. Participants will learn the basics in MCI moulage application techniques, storage, pre-make and staging procedures. By the conclusion of the presentation, learners will be able to evaluate the benefits and limitations in scenario staging and story progression in MCI events.
H1: Moving beyond makeup to add fidelity to your sim

MOULAGE

Steven Lichtenberg

LEARNING OBJECTIVES

Learn to use silicon to mold reusable moulage pieces

Understand how visuals effect the emotional response to the simulation environment

Learn how to use color and texture to enhance simulation

H2: Safety Should Never Be Simulated

GENERAL EDUCATION

Larry Rascon

LEARNING OBJECTIVES

Describe best practice for Simulation Center policies on sharps, medications, and safety issues

Evaluate regional or institutional safety policies related to materials handling storage and disposal

Integrate policies/procedures for use in center to allow safe handling of hazardous materials.

H3: Standardizing Simulation Operations

SIMULATION TECHNOLOGY

Scott Crawford
Michael Young

LEARNING OBJECTIVES

Define the required elements for Simulation Operations

Describe the necessary components of a SBE program to support SBE programmatic activities

Understand pitfalls of ignoring specific support systems expected for programmatic operations

H4: Logging Issues using QR Codes

INFORMATION TECHNOLOGY

Chris Oliver

LEARNING OBJECTIVES

See the value of using QR codes to log issues with mannequins

Have the knowledge to create a QR code to print on labels

Test and demo some QR codes

H5: Mock In-hospital Emergency Drills - Maximize Benefit, Reduce Frustration

MANAGEMENT

James Colquitt

LEARNING OBJECTIVES

Describe the benefits and limits of surprise and planned drills for staff and process development

Prescribe the appropriate simulation based technology for the in situ training event.

List items (both clinical and process improvement) often missed by educators during the debrief
I1: Simulation Modalities, Selecting The Appropriate Method Will Often Be The Difference Between Success And Disaster

A systematic approach to selecting the appropriate trainer is very important. To often, faculty lacking simulation experience have preconceived ideas on how to best offer simulation to their students. During this session, we will touch on a number of ways to not only deliver simulation, we will give examples of how we use simulation, the success we have and roadblocks we encounter. We will discuss advantages and disadvantages for each modality and what outcomes you can expect from the learner.

LEARNING OBJECTIVES
- Identify the advantages and disadvantages between a variety of simulation modalities
- Describe how different simulation modalities effect the outcome of a learning session
- Determine what is the best simulation modality to use in your simulation center

Brian Wallenburg

I2: Getting Through The Grind (A way to streamline daily operations)

This presentation will focus on how to streamline daily operations in your Simulation Center. Using the Western Michigan University School of Medicine's simulation program as an example, presenters will discuss how the simulation center uses and manages its inventory, calendar, and simulation equipment. This will include a review of the center's organizational chart and analysis of each tech's roles and responsibilities. There will be a demonstration of using Microsoft Outlook to give technical staff all the information they need for their work day as well as a review of the system used to have a new hire ready to contribute by the end of week one.

LEARNING OBJECTIVES
- Identify different ways of organizing and managing your inventory.
- Analyze your staff and determine the best way to make them productive.
- Compare and contrast different ways to train and cross train your team to be ready for any circumstance.

Mark Williams

I3: How to Fabricate an I/O plate

During this presentation the audience will go thru process of making their own replacement I/O (Intraosseous infusion) plate for unspecified mannequins. The presentation will go thru all the steps required to build the I/O as will the audience. At the end of the presentation the audience will be able to demonstrate their skills learned the presentation. Session will end with a Q&amp;A and a copy of the presentation.

LEARNING OBJECTIVES
- Demonstrate skills and knowledge of DIY trainer construction
- Identify methods to source out materials
- Describe the process of fabricating I/O parts

Chris Oliver

I4: Techniques to accommodate multi-patient scenarios in healthcare simulation.

This presentation overviews our institution's effort to incorporate multi-patient scenarios in an undergraduate nursing curriculum and the adaptations we used to make it successful. Our nursing students are expected to provide care for multiple patients at once and we seek to provide a realistic environment where interaction with patients is seamless and transparent. This transition presents logistical and technological challenges that require creative solutions with new and existing equipment.

LEARNING OBJECTIVES
- Define the need behind multi-patient simulation
- Identify technical modifications to a current simulation lab to accommodate multi-patient simulations.
- Identify common technical obstacles of implementing multi-patient simulation.

Evan Bartley
LEARNING OBJECTIVES

Explain the steps of a trauma assessment.

Discuss how to create a functioning arterial bleed at a minimal cost.

State how advanced moulage can be used as an intentional distraction.

In House, Low Cost Methods to build a Surgical Ultrasound Biopsy Course, through the Use of Medical Simulation - $25

MOULAGE

Aleksandra Wojtowicz
Benjamin Veenstra, MD
Jose Velasco, MD

LEARNING OBJECTIVES

To understand the importance of ultrasound.

To create an ultrasound surgical curriculum, incorporating open pancreatic biopsy model.

To construct a low cost, replicable and realistic model for open ultrasound pancreas needle biopsy.

This presentation will demonstrate and allow participants to get hands on with a DIY ultrasound model. This low cost, replicable and realistic model for ultrasound of the pancreas was designed to help residents develop and perfect their biopsy and operative ultrasound skills. Using chicken breast and intravenous tubing, as our pancreatic ducts, and olive pits as cysts and masses, learners will get to make and test out their very own models.

J2: Simulation Program Evaluation: Using What You Have and Using it Well

INFORMATION TECHNOLOGY

Edward Rovera
Kathleen Shea

LEARNING OBJECTIVES

Determine their simulation program quality assurance requirements.

Differentiate between program efficiency and program effectiveness.

Evaluate some of the functions of MS Access, MS Excel, and MS Outlook.

Ongoing program evaluation is necessary for program justification, budget and resource planning, meeting accreditation standards, and simulation research. Program evaluation is time consuming and costly for organizations to produce and maintain, more over there is a gap in the published literature of how of how schools of nursing have evaluated simulation programs (Coffman, Doolen, & Llasus, 2019). Our presentation will assist simulation managers to identify their program evaluation goals, create a robust evaluation using resources already available to them within their organizations. We will evaluate some of the functions of MS Excel, MS Outlook, and MS Access that might benefit your simulation program utilization management and research requirements. The workshop will provide detailed instruction and a hands on workshop component to demonstrate designing a simulation program evaluation plan, developing the data dictionary, piloting data collection methodologies and developing a reporting strategy.

J3: The Write Stuff

GENERAL EDUCATION

Rachel Bailey
Scott Crawford

LEARNING OBJECTIVES

Describe the general format of abstracts

Demonstrate skills needed to technically write abstracts, proposals, and presentations

Develop a process to conceptualizing and implementing from abstract to presentation

This course will demonstrate skills in technically writing abstracts, proposals and presentations. Participants will learn key concepts in technical writing including sentence structure, tone and format. Participants will develop and demonstrate writing an abstract, turning that abstract into a proposal, and turning the proposal into a presentation. Learning the technical skills of writing will allow the division of simulation operations and the technicians that run the operations the opportunities to get involved in research, conference presentations and project management.