SimTechs are the primary operators or ‘end-users’ of simulation based technology and are quickly becoming the defacto program representatives regarding all future simulation-related technology purchases.

SimGHOSTS.org
SimGHOSTS proudly introduces Level 3 Medical as the Platinum Sponsor of 2014 USA Event. Sponsoring both the Opening Keynote address and the Opening Reception, Level 3 Medical is looking to powerfully connect with the SimGHOSTS international community. SimGHOSTS President James Cypert will present on the importance of bringing in basic research methods in support of the professional development of Simulation Techs. He will begin a conversation about community focus and topics for future research and invite a networking dialog to establish collaboration opportunities for designing, conducting, collecting, writing, and submitting well-formed research.

The goal of this year’s keynote address is to provide some of the basic tools, resources, and methods for providing evidence-based practice for simulation technologists, ascertaining cogent research topics, and identifying collaborative opportunities, and establishing working relationships to achieve higher levels of dialog from and with the technician community. As well, the event team has added a special plenary panel Friday morning to dive deeper into the Level 3 Medical build-out of the Cedars Sinai Simulation program. Be sure to stop by their booth to learn how they can help your simulation program too! In the mean time, visit http://www.l3av.com/ to learn more now!

About Level 3 Medical:

The medical division of Level 3 has been providing advanced multimedia solutions in minimally invasive surgical environments and simulation centers since 2007. This Phoenix based medical engineering group has pioneered designs in telehealth, live HD video distribution, recording, archiving, content management and media retrieval systems for medical universities, teaching hospitals and simulation labs. Level 3 Medical’s core competency is integrating the myriad of medical, simulation, broadcast and professional technology into a seamless, easy to use system or application. Our approach is to work directly with our clients to understand their use case and apply technology to improve efficiency, workflow, profitability and/or learning. Examples of our applications include; intraoperative surgical suites, digital O.R.’s, nursing simulation centers, procedure rooms, 3D visualization facilities, clinical AV networks, campus-wide central recording systems and video conferencing initiatives for collaboration and critical decision making.

Level 3 Medical was founded as a division of Level 3 Audio Visual who has been well established in the commercial industry since 1996. Level 3 AV had been working with a major medical university on their classroom presentation technology when they were presented with a challenge from the Dean of Anatomy. Level 3 AV was asked to design and build a cordless, wireless, mobile HD video cart for their anatomy lab. The Dean and his faculty had several uses in mind for this cart but its main purpose was to capture high definition video from a student’s cadaver, transmit that video to an AV head end, store and meta-tag the captured video while simultaneously transmitting the video back out to twenty, high definition, LCD monitors dispersed around the lab as well as to a secondary lab located across the campus. A secondary purpose of this cart was for the creation of video text books that could be produced and stored online as an additional reference for the medical staff and students.

The creation and use of this cart was a major success for both Level 3 Medical as well as the University. Level 3 Medical realized they had just created one of, if not the first ever, high definition telemedicine carts and, for the University, use of this cart was shown to increase both test scores as well as enrollment.

Level 3 Medical is a customer focused group of medical engineers trained in the process of applying current technology to existing medical work spaces, medical training centers and simulation labs.
Now entering its fourth year, SimGHOSTS Event Director Ryan Eling is pleased to announce that the American College of Chest Physicians will host its 2014 North America-based meeting. The hands-on training event is a unique training meeting which allows for direct peer-to-peer and vendor engagements with the real “end-users” of simulation-based technology. Join your international technical-based professional community to launch and develop your medical simulation career.

SimGHOSTS, aka The Gathering Of Healthcare Simulation Technology Specialists, is a 501(c)3 non-profit organization which started in 2011 that is specifically dedicated to empowering the growing international community of healthcare simulation technology specialists through: hands-on training events, online resources and professional development support.

The 2014 “SimGHOSTS” event will provide a meeting place for you to exchange ideas and network with technical peers as well as receive specialized training in manikin hardware repair & software programming, audiovisual equipment debugging, IT infrastructures, moulage makeup, team communication & leadership techniques, medical physiology and much more. As well, meet with simulation-based vendors to engage with the latest in healthcare education technology.

For the past three years, SimGHOSTS has continued to see increased attendance by the international community of Simulation Technology Specialists at the annual hands-on training events. With a mission to connect the world’s growing population of simulation technology professionals together, the non-profit organization’s leadership has continued to engage in relationship building with organizations inside and outside the United States. Seeing a continued presence by Australian Simulation Technicians and Administrators at the annual USA event, the SimGHOSTS leadership and 2014 Meeting Team, led by Event Director Ryan Eling, also announced a second SimGHOSTS 2014 meeting taking place this June 25-27th at the University of the Sunshine Coast in Queensland, Australia. Learn more at the SG14 Australia Webpage.

Organization Website: http://www.SimGHOSTS.Org
Twitter Account: @SimGHOSTS
SimGHOSTS 2014 USA Event Host: The American College of Chest Physicians (CHEST)

The American College of Chest Physicians is here to help chest medicine professionals optimize every clinical decision they make. You can count on them to connect you to the most forward-thinking programs in clinical medical education, to new skills and knowledge that allow you to advance your career, and to a community of innovative problem-solvers who will inspire and energize you. CHEST understands what the day-to-day practice of pulmonary, critical care, and sleep medicine demands, and we’re with you every step of the way, focused on helping you deliver the best possible care to your patients. Their mission is to champion the prevention, diagnosis, and treatment of chest diseases through education, communication, and research. The American College of Chest Physicians is the global leader in advancing best patient outcomes through innovative chest medicine education, clinical research, and team-based care.

Ed Dellert, senior vice president of clinical education, informatics and research at CHEST, shared: “The American College of Chest Physicians (CHEST), which became the first-ever medical association to earn SSH accreditation in 2013 for its clinical simulation program, is excited to host this premier event, serving as an essential connection for professionals who are advancing patient care through the use of simulation in health care. We look forward to sharing our brand new Innovation, Simulation, and Training Center with the diverse audience of attendees, who are at the leading edge in using simulation for education, testing, and research in health care.”

CHEST’s Mission: To champion the prevention, diagnosis and treatment of chest diseases through education, communication and research. CHEST’s Vision: The American College of Chest Physicians is the global leader in advancing best patient outcomes through innovative chest medicine education, clinical research, and team-based care.

Quick Facts about the American College of Chest Physicians:
- Established in 1935
- 18,700 members worldwide, across 100+ countries
- Provider of clinical education for clinicians in pulmonary, critical care and sleep medicine
- Publisher of CHEST journal, a premier peer-reviewed publication with more than 350,000 readers each month
- CHEST Annual Meeting each October is the world largest clinical chest medicine event—attracting 5,000+ professional attendees
- First medical association with a simulation education program accredited by the Society for Simulation in Healthcare

Learn more about CHEST at: http://www.chestnet.org/
CHEST Twitter: https://twitter.com/accpcheest

The SimGHOSTS Leadership especially wishes to thank Chad Jackson for his work to connect SimGHOSTS and the international community of simulation technology professionals to CHEST. His vision and support have been instrumental for the success of amazing learning event!
Gold Sponsor:

B-Line Medical makes software that helps healthcare professionals and educators improve the delivery of healthcare. Focused on the capture, debriefing, and assessment of medical training and clinical events, B-Line Medical specializes in the delivery of robust, yet easy-to-use web-based solutions. Our software has helped over 300 top hospitals, medical schools, and nursing programs in 12 countries operate and manage their training and QI programs more effectively.

“Simulation Technicians are the backbone of any program, from troubleshooting simulator equipment to maintaining networks and fielding interesting end user requests. But when sim techs do their jobs well, they’re invisible! We see you, sim techs of the world. We see you even when you’re under a pile of cables, or covered in fake blood.” – Sandy Yin, Marketing Strategist @ B-Line Medical

B-Line Medical supports the growth, education, and innovation of this community. SimGHOSTS is a great example of the many ways we want to encourage knowledge-sharing, professional growth, and creative collaboration. We think that advancing the profession of the simulation technician helps advance simulation itself because it saves time, increases organization, and enables scalability and creativity in simulation programs. Advancing simulation helps us all to achieve the overarching goal of improving healthcare education, thereby improving patient safety.

B-Line Medical is a leader in medical simulation technologies specifically designed to capture and evaluate training activities. Our core company philosophy centers around enhancing training and improving patient safety by providing powerful tools for data capture, visualization, and analysis. To date, our easy to use solutions have helped over 300 top hospitals, medical schools, and nursing programs in ten countries manage their training more effectively. With a 98% client retention rate and the ability to integrate with the broadest range of devices in the industry, B-Line Medical is a trusted partner for delivering healthcare training. Join the community: Share your opinions, tips, and ideas on Twitter (@blinemedical), Facebook (www.facebook.com/blinemedical), and LinkedIn (https://www.linkedin.com/company/b-line-medical)!

B-Line Medical Sponsored 2014 “How-To” Video Contest

This year, B-Line Medical continues its support of Simulation Technician innovative by sponsoring a new “How-To” Video Contest. This year, B-Line Medical has expanded the video competition topic to include not just DIY projects, but also any operational success stories you want to share through your video “how-to”. Pick up a camera and share with us your best “how-to” tactics for any of these topics:

- Simulation operations
- Orientation procedures
- Policy & Procedure development
- DIY projects you built
- Video productions
- Moulage creations
- Faculty education
- Or anything else you can teach a sim lab “how-to” on!

The goal is to clearly, concisely and creatively demonstrate to other Sim Techs “how-to” do something that will increase efficiency or realism in their labs. $1000 in prizes will be awarded by B-Line Medical in two categories: Community Choice Award and Board-Selected Grand Prize. Videos will not be judged on production quality as much as ability to demonstrate and teach others how to replicate your how-to success story! For a complete list of rules and to enter your video today, visit the SimGHOSTS 2014: USA page!
Gold Sponsor:

Laerdal, one of the world’s leading providers of Healthcare Solutions, is dedicated to helping save lives with products and services for Simulation, Airway Management, Immobilisation, Basic and Advanced Life Support, Patient Care and Medical Education.

Laerdal is pleased to serve all healthcare providers and educators, from the lay rescuer to medical professionals. Their vision is that no one should unnecessarily die or be disabled during birth or from sudden illness or trauma.

Laerdal has a global focus on achieving this vision through four key areas:

1. Reaching more laypeople with CPR training – by developing easy to use, affordable, self-directed and personal CPR training products designed for CPR at home, for the whole family.
2. Providing better healthcare and training through simulation – Laerdal’s commitment to development and refinement of the patient simulation portfolio. Increased support services and networking through educational events helping unite simulation educators.
3. Helping Babies Breathe in developing countries – A Laerdal Global Health initiative personally driven by Tore Laerdal involving the development of a low cost obstetric and newborn care and resuscitation product with the philanthropic ambition of helping developing countries significantly reduce infant, child and maternal mortality.
4. Improving the quality of CPR – by supporting trained rescuers with live CPR coaching devices which allows guidelines compliant CPR to be delivered consistently throughout the chain of survival.

Laerdal Sponsored Plenary Address: Sim Tech Apprenticeship in the UK

Presented by Jane Nicklin and members of the Hull and East Yorkshire Hospitals NHS Trust

Guests from the United Kingdom will discuss an initiative that is the first in the UK and provides an opportunity to start an exciting career in one of Yorkshire and the Humber’s simulated healthcare learning environments. The goal of this apprenticeship will be to achieve nationally accepted qualifications that will be recognised by employers and support career progression in science and technical roles.

The presentation will outline: the recognition of the national need for more proficient technical professionals, the recruitment of numerous government bodies, the planning of the apprenticeship and the implementation of the apprenticeship in its first year. The presenters will also share what change this apprenticeship should bring and what the global simulation technology specialist community can learn from the UK’s project.
Who Should Attend SimGHOSTS 2014?
Healthcare Simulation Technology Specialists ("Sim Techs"), or those permanently responsible for the technical operation and maintenance of a high-fidelity healthcare simulation lab. Although the event is open to everyone, SimGHOSTS is designed for technology specialists or those responsible for the physical day-to-day operations and maintenance of simulation equipment and labs.

The SimGHOSTS event is hands-on training for healthcare simulation technicians (or sim lab operators) needing to successfully operate a medical simulation lab. Other events are better suited for those responsible for clinically educating learners through simulation.

What are the SimGHOSTS Sim Meeting Objectives?
- Meet with other Simulation Technicians and share best practices
- Network and build long term industry relationships with peers and vendors
- Receive specialized 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 and the latest in healthcare education practices.
- Discuss and develop professional community needs and standards.
- Much more....
WorldPoint is a worldwide distributor dedicated to advancing healthcare training by providing innovative products, outcome-based curriculum and most memorable customer service to our network of instructors in their efforts to save more lives. WorldPoint provides Advanced Simulation Training Solutions, CPR Support Supplies, as well as, educational materials from leading manufacturers around the world. WorldPoint offers educators a unique collaboration with our Clinical Simulation Specialists, who are highly dedicated to your success. Our Clinical Simulation Specialists are able to simplify your search for simulation solutions by utilizing a wide range of major manufacturers. Our specialists offer a unique ability to present a wide selection of simulation solutions based on specific educational targets; such as: advanced life support, trauma, obstetrics, geriatric, pediatric, surgical, assessment, recognition, debriefing and CPR. Our Clinical Simulation Specialists also present solutions based on your preference, budgetary guidelines, technique and specific training goals. Our consultative approach is focused on providing a comprehensive package to best suit your training needs. We will help you achieve your goal of realistic training, resulting in enhanced learning and improved patient care and outcomes. Allow our knowledgeable team to assist your efforts in creating the best training environment.

Gaumard provides innovative simulators for emergency care, nursing, OB/GYN, and surgery worldwide as part of our global commitment to healthcare education. In 2004, Gaumard introduced the first of its growing family of “Tetherless” simulators, which now includes three HALs, NOELLE®, Susie®, two Pediatrics, and two Newborn simulators. All are controlled from a wireless tablet PC.

CAE Healthcare delivers leading-edge simulation training 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 surgical simulators, including the gold standard HPS patient simulator, iStan, Caesar, VIMEDIX and CathLabVR. Ask about Nurse Residency the subscription solution to help hospitals assess staff competency and LearningSpace, the center management solution.
Official SimGHOSTS 2014 Hotel Accommodations

Staybridge Suites Hotel & Sheraton Hotel
The Staybridge Suites and the Sheraton Hotel will both share as the official accommodations for SG14USA. The first 50 attendees to register at the StayBridge will enjoy a slightly more affordable rate and ability to walk to the CHEST center. Discounted room reservations through special online link will be available through the SimGHOSTS.org website SG14 USA Accommodations page within the second week of April just after SimGHOSTS registration opens. Pools, Fitness centers Breakfast and free wifi are available at both locations. The Sheraton also has a lobby bar and is across the street from the SimGHOSTS Opening Reception.

The Staybridge location in the Chicago area provides plenty of entertainment, as well. The Metra train takes you downtown Chicago within minutes, perfect for those planning an evening out in the city. Glen Club Golf Course, revered as one of the best in the state, is just one mile away, as is Kohl Children’s Museum and its fabulous educational exhibitions. Guests won’t want to miss the annual Ravinia Music Festival, either. Planning an extended stay in Glenview? This hotel offers the amenities to accommodate your busy schedule. You can work out in the Fitness Center and take care of laundry for free, 24 hours a day. Free Wi-Fi access makes it easy to keep up, and the heated, indoor pool helps to ease your worries. Book a suite today, and come “Get Comfortable!”

The Sheraton Chicago Northbrook is the newest hotel on the North Shore. 161 beautifully appointed Northbrook accommodations that feature warm décor and amenities that will make your stay relaxing and leave you feeling pampered. Opened in October 2008 our hotel has ranked in the top 5% of all Sheraton Hotels in North America for guest satisfaction. Our hotel offers complimentary high speed wireless in every guest room and all common areas of the hotel. Our beds have the unmatched comfort of the Sheraton Sweet Sleeper bedding with crisp white linens and pillow-top mattress. 37” flat screen TVs, large bathrooms with luxurious Shine for Sheraton bath amenities are just a few more finishing touches you’ll experience and enjoy.

Special Hotel Rate
$110/night - StayBridge Suites
Walking Distance; Only 50 Rooms Available

$149/night - Shertan Hotels & Resorts
Free 5 minute Shuttle
http://www.sheratonnorthbrook.com/
**Travel**

As CHEST’s guest you are eligible for discounts from their travel partners. To receive discounts, book your airline tickets online through Association Travel Concepts, contact your own travel agent, or call the travel partner directly and reference the contract numbers.

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**Association Travel Concepts**

atcmeetings.com/accp
800/458-9383
404/260-3467

Click “Start Fare Search!” under Members to build an online profile and make airline reservations.

**United Airlines**

800/521-4041
Zcode: ZR7P Agreement code: 567840
If booking online, enter ZR7P567840 (no spaces) in the OFFERCODE field of the main flight search box.

**Avis Rent A Car**

Domestic: 800/331-1600
International: 918/664-9600
Contract #: J100002

**Transportation**

**General Directions**

CHEST Global Headquarters is 20 miles north of Chicago, about 2 miles east of Interstate 294 (the Tri-State Tollway), and 2 miles west of Interstate 94 (the Edens Expressway). Patriot Boulevard is accessed from Willow Road to the north and Lake Avenue to the south. If you drive to CHEST Global Headquarters, you’ll find that there is ample parking available. View driving directions here: http://trainingcenter.chestnet.org/Location-Travel/Travel

**Taxi Service**

It’s easy to pre-book a cab to pick you up at any downtown Chicago location; either of Chicago’s major airports, O’Hare and Midway; or a Metra train station. When you pre-book a suburban cab, you will receive a flat rate and avoid additional charges from city cabs. Plan your taxi trip to CHEST Global Headquarters based on these estimates:

- **From O’Hare:** 25 minutes - $27 plus gratuity
- **From Midway:** 50 minutes - $53 plus gratuity
- **From Downtown Chicago:** 35 minutes - $44 plus gratuity
*Taxi rides may take longer during rush hour or bad weather. Pre-book a cab by calling 847/255-9614 or going to the American Taxi website.

**Metra Train**
No need to worry about Chicago traffic, just hop on the Metra Milwaukee District North Line, and you will arrive less than a mile from CHEST Global Headquarters. The Metra line begins at Union Station in downtown Chicago, and the closest stop to CHEST Global Headquarters is the Glen of North Glenview Station. Trains depart approximately every hour (with additional trains during rush hour), and fare is $4.75 each way. Find your closest station and a schedule at metrarail.com.

**Pace Bus**
If you need to get around the northern suburbs, or if you’re looking to take a bus from the Metra station, Pace offers service nearby to CHEST Global Headquarters. The route 423 bus line stops at both Glenview Metra stations and also stops minutes away from CHEST Global Headquarters. Fare is $1.75 for each ride. Note that buses run every 40 to 45 minutes on weekdays only, and schedules do not coincide with train schedules exactly. Find a map and schedule at pacebus.com.

**Visiting Without a Car**
Visiting without a car may be a feasible option for you. Our recommended hotels are the Sheraton Chicago Northbrook and Staybridge Suites Chicago—Glenview. The Sheraton offers a shuttle to CHEST Global Headquarters, and Staybridge Suites is within walking distance. CHEST Global Headquarters and both of the recommended hotels are located near The Glen—a business district filled with shops, restaurants, and entertainment options.

**Airport Cab-Shares**
To encourage shared taxis, the SimGHOSTS will post an online document for attendees to share their arrival and departure times for both airports. We hope this helps attendees to coordinate taxis to and from the event.

**Meals**
ALL breakfasts will now be served at Official Accommodations. They will be full buffet style and are included in the price of hotel reservation. All attendees are invited to opening reception Dinner Wednesday evening but must RSVP during registration. Attendees arriving early for the full-day advanced trauma moulage workshop August 5th will also receive lunch. Afternoon half-day workshop participants on August 5th are not provided meals.
Registration Costs (All prices in US Dollars)

Pre-Symposium Workshop (August 5th):
Advanced Moulage Workshop (8:00AM-5:00PM): $500.00 $350 Only $299 for first 30 Signups!
Laerdal Beginner Programming + Hardware Basics Session (1:00PM-5:00PM): $75.00
Gaumard Beginner Programming + Hardware Basics Session (1:00PM-5:00PM): $75.00
SimGHOSTS Planning Workshop: Creating Formal Training for Our Community (1:00PM-5:00PM): FREE

Main Symposium (Full Day August 6th and 7th, Half Day August 8th):
Early-Bird Registration (while supplies last): $375.00 per person.
Standard Registration: $475.00 per person.

Registration also includes:
- Opening Reception Party Wednesday Night
- Access to the vendor hall.
- Opportunity to enter B-Line Medical’s “D-I-Y Video Contest”
- Meals as described above.
- Free transportation to and from official accommodations
- One year subscription to SimGhosts.Org (Currently valued at $135.00 USD).

Courses with Additional Fees:
Intro to Moulage 101 – Basic (2 Hours): $20
Intermediate Moulage Workshop - Intermediate (4 Hours): $125
Task Trainer Development: Creating a Physical Interface to Your Computer - Advanced (4 Hours): $15
Fundamentals of Mold Making and Casting for the Sim Tech - Advanced (4 Hours): $15

Registration Process
For this event, registration will be handled online through an external event management system. Visit http://www.simghosts.org/simghosts-2014-usa for registration link. Payment options include check invoicing and credit card.

Refunds & Other Policies
All policies posted on the 2014 SimGHOSTS: USA event page. Partial registration refunds are available until July 22nd, 2014. There are NO refunds after July 22nd, 2014.

Other Questions?
Check the FAQ online at http://www.simghosts.org/simghosts-2014-usa/
The latest version of this brochure will always be available there as well.
Email SimGHOSTS Event Director Ryan Eling with questions: Ryan@SimGHOSTS.org
The Gathering Of Healthcare Simulation Technology Specialists

SimGHOSTS 2014 USA - Pocket Nurse® Scholarships

The Gathering of Healthcare Simulation Technology Specialists (SimGHOSTS) has partnered with POCKET NURSE® to provide scholarships to the 2014 USA Event August 5th through 8th at the American College of Chest Physicians in Northbrook, Greater Chicago IL (http://www.chestnet.org/). Learn more about this meeting designed to specifically support Simulation Technology Specialists at SimGHOSTS.org!

Pocket Nurse® (www.PocketNurse.com) is the world’s leading supplier of healthcare education products and a proud supporter of those operating medical simulation. This year, Pocket Nurse® continues its “Founding Sponsorship” of the SimGHOSTS meeting by providing two $1500 non-transferable scholarships to individuals/institutions in need. These scholarships are designed to support participation in the development and advancement of those operating a medical simulation lab through the payment of conference registration, travel and accommodation costs.

Eligibility

The Pocket Nurse® Scholarships are open to all healthcare simulation technology specialists (“Sim Techs”), or individuals responsible for operating and maintaining the equipment of a medical simulation lab. Priority will be given to first time attendees who are currently employed at a not-for-profit simulation lab (part or full-time), and those without significant financial support from their employer.

Application Process

1. Applicants must submit the following information via online form (http://bit.ly/1fYbPzI) by April 30th, 2014.
   - LinkedIn Profile link (if none, email resume / CV)
   - 150 - 300 word essay on why you wish to attend SimGHOSTS 2014
   - 250 - 500 word essay highlighting your background in simulation technology, current position responsibilities, as well as current and long-term goals for your simulation technician career.
2. Email a .PDF scanned signed letterhead from your direct supervisor stating the financial circumstances underlying your application for the POCKET NURSE® Scholarship to ryan@simghosts.org.

Election and Awards

Scholarship applications will be reviewed by SimGHOSTS staff based off the submitted documents. Awards will be provided to applications that clearly demonstrate an immediate need to support your program’s simulation team.

Scholarship winners will be notified via email by May 7th, 2014 and are required to respond and accept this award by May 14th, 2014. Participants will be provided a special link for registering for the 2014 USA meeting at CHEST.
SimGHOSTS 2014 Opening Reception Dinner & Bowling Hall

SimGHOSTS leadership wishes to thank Level 3 Medical for sponsoring this one of a kind opening reception event with dinner, drinks and bowling for the entire audience!

Visit http://www.l3av.com/ to learn more about this year’s Platinum & Opening Reception Sponsor

Join us Wednesday evening after Day 1 of the main event at Pinstripes for an entertaining evening full of bowling, bocce ball, flat-bread pizzas and drinks! We’ll have 18 bowling lanes and 3 bocce courts available for attendees and everyone’s first drink is on the house! Network with old friends, meet new friends, and bowl for 300! Entrance is included with main symposium registration.

Learn more about Pinstripes at www.pinstripes.com
SimGHOSTS 2014 Pre-Symposium Workshop Courses on August 5th:

Half-Day Afternoon Pre-Symposium Courses (August 5th):

**Vendor Specific Beginner Programming and Hardware Basics**
Vendor Technical Instructors
Tuesday August 5th 1:00PM-5:00PM AFTERNOON Session
Session Length: 4 Hours
Bus Transportation to & host hotel provided.
Lunch not provided.

*CAE HEALTHCARE TRACK – (Additional $75 Course Fee Required)*
*GAUMARD TRACK - (Additional $75 Course Fee Required)*
This hands-on learning session is designed for novice or beginner Simulation Technology Specialists to get direct experience with these manikin manufacturing brands. Topics will include an introduction to vendor-specific programming, high-fidelity manikin product hardware, and available technical support services. Courses are taught by official vendor technical and educational representatives. Get your feet wet with these introductions to the industry’s leading vendor manikin technologies!

**Laerdal Advanced Simulator Care and Maintenance - Advanced**
4 hours
Vendor Technical Instructors
Laerdal’s SimMan 3G patient simulator can help educators achieve the optimal training environment with the most realistic outcomes possible. Developing the skills and knowledge to keep SimMan3G performing optimally is imperative to simulation. This intermediate to advanced course is designed to cover proper care and maintenance for SimMan3G that supports a rigorous training environment. Participants will learn how to perform basic care, cleaning, software updates, and troubleshooting. Examples of hands-on parts and assembly replacement will also be covered. Participants will be able to identify key SimMan 3G focus areas for periodic evaluation and maintenance. Hands on opportunities will depend on class size. Shuttle service to and from Sheraton.

**FREE Half-day Pre-Symposium Development Workshop**
Course Summary (August 5th)

**SimGHOSTS Planning Workshop: Creating Formal Training for Our Community**
Tuesday, August 5th: 1:00 PM - 5:00 PM
Session Length: 4 hours
Bus Transportation to & host hotel provided.
Lunch not provided.

Encouraged by comments by the SimGHOSTS community over the past year, Board Chair Scott Crawford has been researching the ways in which our organization could create formalized training for Simulation Technology Specialists.

SimGHOSTS is a passion-driven organization and we survive based on the participation of our community to reach our goals. This workshop will be your opportunity to get involved and help SimGHOSTS achieve something unique. Support your profession today by helping to identify and develop our standards and build research programs.
NEW Full-Day Pre-Symposium Course Summary (August 5th):

Moulage Mastery - Theatrical Trauma for the Advanced User

Tuesday, August 5th: 8:00AM – 5:00PM
Session Length: 8 Hours
Additional Course & Materials Fee Required: $350 - Only $299 for first 30 Signups!
Shuttle Transportation to & from host hotel Provided. Lunch Provided.
Must have completed previous full day comprehensive Trauma Moulage Workshop, or have equivalent experience.

Are you familiar with moulage? Would you consider your moulage skills beyond the standardized user? Then we have a course for you! This advanced techniques workshop is designed for the user who isn’t afraid to take their training scenarios outside the standard training paradigm, introducing dramatic training wounds such as:

- Degloving
- Suturing wounds
- Amputation
- Avulsion
- Frost bite
- High profile disease processes such as Krokodil, MERS, Measles & MRSA

This Moulage Mastery course incorporates the newest products to the moulage market while taking your trauma moulage to the next level. Incorporating moulage gels, silifix, SIM-Safe series & Blindblood to name a few, Moulage Mastery workshops are designed to train participants in the comprehensive use of building and incorporating high trauma moulage into the training scenario. Participants will learn to create, store and reuse interactive, three dimensional wounds that can be accessorized, triaged, sutured, debrided and drained creating authentic training exercises that mimic life like scenarios.

Designed for the advanced user, Moulage Concepts Moulage Mastery workshop is designed to take the training scenario to the theatrical trauma level. This hands-on course assists the participant in creating theatrical trauma and realism in simulated training scenarios. Utilizing best practice techniques, participants will be taught to advanced and accessory moulage as indicated by real life medical, nursing, pre-hospital and mass casualty training situations and response such as degloving, sutured wounds, amputation, avulsions, and high profile disease processes such as Krokodil. Moulage Mastery workshops are designed to train participants in the comprehensive use of building and incorporating moulage into the training paradigm, assisting the learner in “bridging the gap” between simulated training exercises and life events. Participants will learn to create, store and reuse interactive, three dimensional wounds that can be triaged, sutured, debrided and drained creating teaching scenarios that enhance symptom assessment, injury recognition, stress inoculation and supportive decision making while providing authentic training exercises that enhances skill retention.

Course includes a 30 minute review.
Bronze Sponsors

Cardionics

Through the development of unique, interactive and experiential systems, for more than 40 years Cardionics has been an innovator and leader in auscultation products and services that facilitate and support classroom education, clinical and tele-health programs in medical institutions and universities worldwide.

EMS

EMS is an industry pioneer in clinical skills and simulation-based solutions for healthcare training environments. Our SIMULATIONIQ™ provides a single integrated platform with a full spectrum of options for mid- to large-size simulation centers, one room set-ups, and portable and mobile solutions. From audio-visual hardware and software to management, evaluation, and mobile device access, SIMULATIONIQ enables institutions to leverage their full simulation efforts to drive tangible results.

Surgical Science

Surgical Science, the unmatched global leader in medical simulation training, offers the highest quality and most innovative virtual reality surgical education tools to fulfill our mission of providing validated, targeted and efficient training in the most true-to-OR scenarios possible.

Kb Port

Kb Port, a Pittsburgh based technology company, specializes in providing a multitude of software development and multimedia solutions for clients medical simulation. Kb Port works closely with clients to develop software applications that fit their needs. The ambition and motivation of the SimGhosts community go hand-in-hand with Kb Port’s philosophy.

Pocket Nurse®

Nurse owned and operated since 1992, Pocket Nurse® is committed to providing quality cost-effective medical supplies and equipment. With > 8,500 products we assist Educators teach Healthcare Curriculum or fully equip Clinical Simulation Labs. Customers can order from the catalog or our customer-friendly website. Exceeding expectations is our primary goal!

Simulab

Since 1994, Simulab has been committed to providing medical simulators and task trainers to the medical education community. By collaborating with leading educators worldwide, leveraging its 20 years of experience, and bringing a specialized knowledge of materials and manufacturing processes to the medical industry, Simulab has become the market leader in the development of realistic and affordable solutions for a wide array of educational needs.

Medical Shipment

Medical Shipment is a premium supplier of simulation nursing supplies and equipment. We strive to provide extraordinary customer service and value our personal relationships with each customer. Our goal is to ensure your complete satisfaction with each order. We carry an extensive range of products and services that will fit the needs of all educational programs. We look forward to building new, long-lasting relationships with each educator.

Limbs & Things

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.
OtoSim Inc offers Otoscopy and Ophthalmoscopy training & simulation systems. Through hands-on simulation devices, databases of clinical scenarios, and enhanced interactivity between the instructor and student(s), OtoSim training systems enable trainees to quickly & effectively develop confidence in their practical otoscopy and ophthalmoscopy skills to excel in the clinical environment.

Turning Technologies is the leading provider of instructional, assessment delivery and data collection solutions. Our products include industry-recognized response systems proven to enhance meetings, trainings and events with interactive presentations. Response technology allows speakers to ask questions and receive real-time participant feedback with handheld clickers or mobile devices. Systems are powered by TurningPoint® polling software that directly integrates with PowerPoint®, polls with any application using a floating toolbar and offers self-paced testing. Results instantly display on screen and are collected in detailed reports. Track participant data or poll anonymously to gather honest feedback. Our solutions not only collect and organize volumes of critical information otherwise gathered by manual methods, but are proven to increase retention, engage participants and immediately assess understanding. Generate reports with customizable views, export into several formats and integrate with popular learning management systems. Ensure that content is resonating and learning objectives are met. Employ expert content with ExamView, the number one assessment software in the world that enables the development and delivery of tests compatible with publisher content, including over 300 adult learning and trade manual titles. For high-stakes testing environments, Triton is a highly secure, technology-enabled data collection system that combines the simplicity of paper testing with the efficiency of computer-based testing. Implement for certifications, license testing, evaluations and standardized exams. Product offerings also include remote meetings, web-response options and multi-site polling. Transform presentations into exciting, collaborative experiences that involve audiences, spark additional dialogue and allow all participant responses to be counted.
About the Courses at SimGHOSTS 2014 USA

SimGHOSTS is primarily designed to provide hands-on training to simulation technology specialists, or those who operate the technology of a healthcare simulation lab. This year the 2014 Event Team, led by Ryan Eling, redesigned the training course structures to be more topic and level specific. To that end, the SG14 event will feature the following six tracks, delineated by color:

- **A/V Courses:** BLUE
- **Simulation Technology Courses:** PURPLE
- **General Educational Courses:** GREEN
- **Moulage Courses:** ORANGE
- **Medical Training Courses:** RED
- **Management Courses:** GREY
- **IT Courses:** BLACK

While a session may touch on different areas, the event team feels it has successfully placed all SG14 courses in their primary track. Within these tracks, courses will also be delineated by levels which include beginner, intermediate and advanced. The following considerations were posted to those submitting courses as a way of self-selecting the appropriate audiences:

**Beginner: Little to no previous experience (Less than a year of experience):**
- Medical: I know that the body has a variety of tubes and glands
- Video: I can press record on a video camera
- Sim Tech: There are robots that can do stuff. Like, medical stuff.
- IT: Computers do lots of amazing things. I don’t know how.
- Education: Teaching is hard and involves lots of tests
- Management: I don’t know how to keep my office organized.
- Moulage: I think ketchup is great for fake blood.

**Intermediate: Knowledge & experience with (Suggested around 2-3 years of experience):**
- Medical: I have a general understanding of physiology, pharmacology and healthcare.
- Video: I can download video onto a computer and make a simple, edited movie
- Sim Tech: I can run a basic scenario on a simulator, which I programmed myself.
- IT: My family and friends rely on me to fix their computers. I can, most of the time.
- Education: I have taught a basic course or two (at a conference or school).
- Management: I run team meetings and assign tasks to members (and tasks get done.)
- Moulage: I can make simple wounds and moulage as long as I have instructions

**Advanced: Educated and now could train others with my Experience (4+ years of experience):**
- Medical: I am a practicing healthcare professional (or I was at one time).
- Video: I make professional quality video regularly.
- Sim Tech: I can program, run and troubleshoot complicated, branching scenarios.
- IT: I install OS’s, hardware and reconfigure networks easily.
- Education: I have taught semester-long courses or intense training (ACLS, A+, etc).
- Management: I am (have been) responsible for an entire institutional team or office
- Moulage: Moulage is lots of fun and I am always developing new ways to make effects.

As Sim Techs come with such a wide range of skillsets in different categories, we hope that this new structure helps you to select the right courses. Attendees will need to select their desired courses DURING online registration. This will help event staff better manage the overall event. Please note that since the SimGHOSTS event continues to expand in attendance and previous audiences have requested more content we have duplicated some courses to provide for more opportunity to be trained in your specific needs.
SimGHOST Busters
2014 Sim Tech Troubleshooting Competition!

Are you a master technician of the simulation arts? Know you have what it takes to become the Highlander of SimGHOSTS? Then grab your packs and sign up to solve our 2014 “Ghosts in the machine” challenge with the all new “SimGHOST Busters” Simulation Technician Troubleshooting competition. Sign up for the competition during the survey portion of your SimGHOSTS 2014 USA event registration.

The Challenge:
Participants will have 10 minutes to diagnose and repair multiple system issues in a clinical simulation room dealing with any of these topics:
- Simulator mechanics
- Patient voice
- Simulator software
- Patient monitor
- IV and other medical equipment
- Moulage
- Etc.

Participants will be judged on speed, number of fixes completed successfully, creativity and professionalism. All participants will have the same issues to troubleshoot during the first round.

Competition Schedule
- **Wednesday, August 6:** 12:00 PM - 3:30 PM [Qualifying round #1]
- **Thursday, August 7:**
  - 9:30 AM - 1:00 PM [Qualifying round #2]
  - 4:00 PM - 4:45 PM [FINALS]

The Finalists will be the top three participants as judged by the Competition Coordinator and the SimGHOSTS Board. Final competitions will be live streamed to the main auditorium, where the entire SimGHOSTS audience can cheer you on!

Prizes:
- **Grand Prize:** Free Registration to SimGHOSTS 2015!
- **2nd Place:** Annual Subscription to Amazon Prime
- **3rd Place:** Signed Cast Photo From GhostBusters Movie

Questions? Ask Ryan at ryan@simghosts.org.
SimGHOSTS 2014 Main Symposium Courses (Organized by Time)

During the main event Sim Techs will have to decided which courses are their priority. Some courses are repeated in the afternoon to provide attendees with the most opportunity to attend their ‘must have’ courses. This section highlights those blocks that will require Sim Techs to make a choice by listing out course descriptions to help make the selection choice easier.

Wednesday August 6th

6:30 - 7:30  Breakfast served at hotels (Shuttles from Sheraton)

7:00 - 8:00  Registration Open, Vendor Exhibit Hall Open & Morning Coffee

8:00 - 8:30 Opening Remarks from SimGHOSTS Board

8:30 - 9:50  SimGHOSTS 2014 Keynote address sponsored by Level 3 Medical

Level 3 Medical Sponsored SimGHOSTS 2014: USA Keynote address

“Of Mice and Geeks: Elevating the Dialog Through Research”
James Cypert, California Baptist University
Interim President, SimGHOSTS

“By seeking and blundering we learn.”
-Johann Wolfgang von Goethe

When the concept of “research” for the typical geek invokes images of Gandalf at Minas Tirth frantically searching through the hordes of scrolls and tombs looking for information about the One Ring. For others, it could be an image of Master Yoda and Obi-Wan in the Jedi Temple discovering the betrayal of Anakin. That imagery aside, research is fundamentally exactly this, a search for the truth of any matter, and research can be done by anyone.

In fact, we all conduct research at various levels. The issue at hand however, is how does one go about conducting research that is acceptable to others that is well-formed, and answers definitively any given question.
With that in mind the purpose of this session is to explore the basic research methods for the simulation technician.

**The learning objectives of this keynote are:**
1. Acquire knowledge about basic research methods
2. Identify the core components conducting of research
3. Discuss possible topics for SimGHOSTS community research focus
4. Identify individuals in the community that can be used as resources for research

James will present basic research methods that everyone can apply, then begin a conversation about community focus and topics for future research. To wrap up the session the facilitator will invite a networking dialog to establish collaboration opportunities for designing, conducting, collecting, writing, and submitting well-formed research.

The goal is to provide some of the basic tools, resources, and methods for providing evidence-based practice for simulation technologists, ascertaining cogent research topics, and identifying collaborative opportunities, and establishing working relationships to achieve higher levels of dialog from the community.

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**Wed MORNING Optional Block A (10:00 - 11:50)**

**Intro to Moulage 101 – Basic**
- Additional Supplies Fee - $20
- 110 Minutes
- Bobbie Merica
- MoulageConcepts.com

In this introductory Moulage course, participants will learn the role of moulage and its effective use in enhancing realism in simulated nursing scenarios. Utilizing best practice techniques, participants will create beginner and accessory moulage that will enhance their clinical simulation cases. Join us for an introduction in basic moulage application, removal and sustainability of simulators in addition to time saving tips on creating, applying and storage of created wounds. Utilizing simulator safe (SIM-Safe) make-up, blood, and common materials, participants will have the opportunity to explore moulage materials, tools and tricks of the trade enabling them to creating training scenarios that look, sound, feel and smell like the real thing.

**A/V TRACK: Audiovisual System Design**

**Simulation in Any Setting: What to Look For in a New Space with B-Line Hardware - Basic**
- 50 Minutes
- B-Line Medical Staff

What should you look for when setting up mobile A/V systems for your hospital-based or “in-situ” simulation recordings? Using Ultra portable SimCapture units from B-Line Medical, this course will share best practices for any type of room, including camera angle and placement, microphone...
The Gathering Of Healthcare Simulation Technology Specialists

A Unique Approach to a Versatile AV System  - Intermediate
50 Minutes
Mark Johanneck
University of Wisconsin Clinical Simulation Program
The creation of a new university hospital based clinical simulation program that was intended to serve all hospital departments as well as the greater university and community needs in a limited space required a highly robust audio visual system. We were able to create a customized AV system by meeting with our projected core users in advance to learn what functionality was required and that which would be nice to have. This allowed us to build a system that satisfied the needs of our users and still fit within our budget.

This discussion and demonstration of a unique combination of AV technologies at the University of Wisconsin Clinical Simulation Program offers remarkable flexibility and expands the boundaries of data and video streaming, capture, display and distribution, both inside and outside the simulation facility. The AV system also enables real-time, remote or post-simulation observation of learning and assessment. We used the Jupiter digital signage system along with Marshall cameras and encoders to expand the capabilities of our existing CAE Learning Space simulation center management system. These companies had never worked together previously so we were the first to create this configuration of products which posed some unique challenges but has lead to a very positive outcome and highly functional and flexible AV system. This discussion will hopefully help people determine appropriate AV technologies to meet their needs and generate new ideas for existing programs.

MANAGEMENT TRACK
Two 50-minute courses that explore defining and refining what it means to be a simulation technology specialist

Medical or Non-Medical: Is That the Question?  - Intermediate
50 Minutes
Rachel Bailey, Tom Lemaster and Elise Adams
Cincinnati Children’s Hospital
The simulation technician is a relatively new role within simulation-based education programs, but it is quickly expanding in response to the growth of the field. There are many obstacles in recruiting for a simulation technician. If the facility that is recruiting for a simulation technician position does not understand the scope of work, it can be difficult to recruit the right individual.

Considering that simulation technicians come from varied backgrounds, it can be difficult to decide which of those backgrounds is the best fit for the role. We believe we have developed a process to assist in making the best possible decision in the hiring process. Our process can be used regardless of the background of the candidates to assess not only their abilities based on the core task of a simulation technician but also their critical thinking and problem solving skills.

This presentation will discuss the history of the process (including potential recruiting obstacles and tips to overcome them) and take the participants through the steps of determining the right competences for the right backgrounds using a simulation experience. Additionally, we will show participants how to assess the unique skills that are critical to becoming a successful simulation technician. The task that simulations technicians are required to perform most frequently is equipment set-up and break down. We will also demonstrate how that task can be assessed with the potential applicant who may or may not have a
medical background. Finally we will discuss the notion that it does not matter what background you come from if the applicant can demonstrate critical thinking skills, the drive to learn and the ability to recognize process improvement opportunity.

**Professional Development for the Simulation Technician - Intermediate**
50 Minutes
Tom Lemaster
Cincinnati Children’s Hospital
As the positions and added to programs and the profession of simulation technician continues to evolve, there is a need for Simulation Technicians to develop professionally. The need to be marketable in the growing job field will lead to improved job satisfaction and a rewarding career. This presentation will investigate what are the opportunities for professional development of the simulation technician. How to develop objectives and implement an individual learning plan will be presented. Participants will also be able to discuss the possibilities, benefits and potential roadblocks of a professional development plan with a program director from a large Midwest simulation program. The sessions will also discuss the cost-benefit of professional certifications such as EMS related courses.

**Manikin Preventative Maintenance 101 - Intermediate**
110 Minutes
Hans Lamkin
HealthPartners Institute for Education and Research
As technology advances and simulation equipment becomes more and more advanced, preventative maintenance is mandatory for optimal operation. Equipment can be expensive and many organizations do not have financial resources for frequent replacement of equipment that can cost upwards of $200,000. With a market that is booming and expected to increase its worth by 19.6% from $790.1 million in 2012 to a projection of $1930.5 million by 2017, preventative maintenance (PM) is essential for the longevity of our equipment. By maintaining a regular PM schedule, one can troubleshoot existing issues and anticipate potential future concerns through diligent inspection of parts, identification of frayed wires, leaking air compressors… the list could go on and on.

This workshop will begin with an overview of challenges that can occur with healthcare simulation technology and equipment. To visually illustrate the damage that occurs from a lack of PM, we will share photographs of catastrophic failures and improper care and or use. Simulation is growing at an accelerated rate. Simulators are increasingly being used as a learning modality to improve health care delivery without any risks to patients. An increase in use results in more wear and tear to the equipment. Just like our cars require scheduled maintenance, so does simulation equipment to ensure optimal operation. We will share and provide a hands-on opportunity for participants to learn and identify common troublesome areas within mannequins and task trainers which tend to fall victim to normal use. We will discuss how many of our actions or inaction promote the destruction of our equipment before their expected life expectancy.

Included in the discussion on how to properly care for simulation equipment will be more specific information to preserve and promote optimal equipment performance. For example, information on which chemicals are safe to use on the exterior of the equipment as well as within the interior will be covered in this workshop. Participants will learn the improper use of food products can destroy the equipment where as the proper use of lubricant and adhesives will allow for optimal function and utilization. Having a comprehensive understanding of how to properly manage the equipment that simulates body fluids is crucial to preserving and maintaining equipment to achieve optimal performance.
Vignettes in Simulation Facility Design - Basic
110 Minutes
Matthew Guinta and Richard King
Harley Ellis Devereaux, Architects
Experience becoming part of an interprofessional, simulation center design team. A series of exercises expose your team to a variety of common planning and design issues including locating your center, selecting and sizing functional components, and configuring space. Prioritizing and building consensus completes your mission. Decision making, discussion and idea sharing will hone design skills for application to your center’s unique needs.

Using the OSCE format, interprofessional teams of participants will engage in, and rotate through three hands-on stations designed to build key skills in simulation facility design. Each station simulates experiences and design issues encountered in the real world, requiring collaboration, prioritization and unanimous group consensus in decision making. After all the teams have completed the stations, participants will reconvene to share their team’s experiences, ideas and results in a comprehensive debrief.

The workshop plan is to divide a group of participants into unique, equal sized, interprofessional teams who stay together and rotate through all three stations. Small groups of 4-6 provide enough diversity to stimulate ideas, yet encourage active involvement by all members. A knowledgeable facilitator will provide instructions and materials at each station, guide activities, and stimulate thoughtful and informed decision making through each 15 minute session.

Station one will display a large site map of an academic medical facility, highlighting advantages and disadvantages of four available, marked sites. Learners will be provided information about each site including square footage, floor plan, access issues, ownership, existing infrastructure, current users and condition of buildings, along with stakeholder interests. Teams will compare and contrast the sites and agree to two sites suitable to the team.

Station two will engage learners in developing a sample space plan through unanimous consensus, incorporating typical functional components of a simulation center. Functional elements will be identified and provided as colored squares, with a grid representing space allocation. Elements such as simulation rooms, debrief areas, storage, break room, control room, reception area, offices and conference space will be selected, sized, and arranged by the team within a defined grid to create their team’s “test fit”. The second phase of this engaging decision making process mimics typical budgetary restraints that require the team to cut their defined size by 1/3 (going from 12 to 8 squares). Tough choices will be required to recreate a consensus space plan which is amenable to diverse stakeholder needs.

Station three highlights room design, human factors, and arrangement of smaller scale functional components to accommodate flow of data, equipment, and people through the center. Decisions regarding access, visibility, storage and staging will be made using a worked example to demonstrate changes in design over time. The teams will reconvene for a facilitated debriefing.

Audio Issues: Theory, Practice and Post-Production - Intermediate
110 Minutes
Mark Skipper, University of Alabama at Birmingham
Todd Dadaleares, Maine Medical Center
The goal of this workshop will be to provide a hands-on experience to help learners identify common audio issues, suggest methods for fixing those issues, and discuss strategies on how to improve the realism of live and recorded simulation audio using the best hardware and software.
Common issues to be discussed include, but aren’t limited to: background noise; the entire video, or a single participant, is too loud or too quiet; the video and audio are out of sync, equalization, choosing the best microphone, pre- and post-processing.

Goals for the workshop:
• Recognize common audio problems -- not only that there is a problem, but what the problem is
• Understand common audio-editing tools, including Digital Audio Workstation (DAW) software as well as common tools such as compression, noise gates, high- and low-pass filters, and EQ, and know how to determine which tool is the best tool for the job.
• Learner will be able to understand the nature of audio, how it travels, what causes feedback and how microphones and speakers work.
• Learner will be able to discern differences in microphone types - based on technical specifications - and to properly choose correct microphones/mixers or equalizers for particular productions. Participants will understand how and why certain sounds can or can’t be recorded well and why.
• Learner will walk away with knowledge of audio data compression types, their strengths and weaknesses and also understand what analog audio compression is and how, why, when and where to potentially use it in simulation productions.
• Learner will gain an understanding of the importance of excellent audio and clear, controllable, “compressed” vocals in medical simulation. Participants will understand the need for the best audio quality possible and how to assess when additional gear and techniques might be required.
• Learner will acquire knowledge about audio mixers, some audio gadgets, live voicing techniques and the importance of vocal performance commitment.
• Learners will leave with a list of recommended vendors, equipment and materials for researching about and recording audio in multiple forms.

12:00 - 1:30  Lunch & Exhibit Hall open

Enjoy lunch and take a moment to meet with our vendor sponsors in our exhibition space.

Wed. AFTERNOON Optional Block B (12:45 - 1:20)

Meet Your Vendor! Feedback from the Tech’s Perspective
35 Minutes
(Choose one)
• LAERDAL
• B-LINE
• Exhibit Hall

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.

Wed. AFTERNOON Optional Block C (1:30 - 3:20)

Fundamentals of Mold Making and Casting for the Sim Tech - Advanced
Additional Course Fee Required: $15 (Space Limited to 15 People - See Course Restrictions Below)
110 Minutes
Chad Jackson, MS, RRT, CCMEP
Director, CHEST Clinical Simulation and Innovation Center
This session is primarily reserved for experienced Simulation Technicians who have attended SimGHOSTS events before. In this hands on session, experienced simulation technicians will learn the necessary steps and techniques to actually make a mold out of silicone. This includes making or preparing a model, protecting the model and the mold, and casting the mold. While their molds are curing, attendees will see a variety of molds designed and made by CHEST to innovate in their simulation laboratories over the years, and what lead to their development, and the outcomes from those educational products. Next, attendees will separate their molds, remove the models and cast resin into their made molds. While the castings are curing, CHEST staff will discuss a variety of molding and casting agents for the experienced simulation technician to use in their own labs. Finally attendees to this workshop will remove their casts and admire their work. Attendees of this workshop will take home their molds and casts following the conclusion of this seminar.

Understanding the Simulation Technician ...And the Survey Says - Intermediate
110 Minutes
Rachel Bailey, Tom LeMaster and Rami Leventhal
Cincinnati Children’s Health Center
This presentation will discuss a research based survey taken by simulation technicians regarding their background, duties within their job and how they are orientated. The same survey has been given participants involved in operations other than simulation technicians to compare the results. This will be a collaboration of simulation technicians and operations to discuss the difference in survey results and bridging the gap between both fields.

This panel presentation will begin with a brief introduction followed by a survey to all participants. This survey will be completed by using Qualtrics. Data collected by Qualtrics will be compared to the sim tech survey results. Facilitators will review with the participants the results of both surveys. Gaps in the knowledge in sim tech roles will be identified by participants. Course participants will be divided into work groups lead by course facilitators to identify three possible solutions. All work groups will come together to present their findings. This will be an interactive session where sim techs have the opportunity to be heard. After findings there will be a brief question and answer session.

After completing this course participants will be able to:
• Describe a detailed survey involving simulation technician’s daily task
• Discuss the differences between a simulation technicians perspective on their field verses the perceptions of others.
• Describe three Knowledge gaps between the actual role of the sim tech and the perceived role

Cinematography 101 - Basic
110 Minutes
Lance Baily
SimGHOSTS
Lights. Camera. Action! SimGHOSTS Founder and film-maker Lance Baily is excited to provide a hands on workshop to get you “behind the camera” and directing your first “big picture”! This course will introduce the basic fundamentals of storyboarding, digital cinematography, lighting, and basic audio recording. Use these basic video production techniques to create Sim Lab orientations, promotional material or training tutorials. Lance brings seventeen years of video production experience to your day, ranging from small wedding videography to editing television pilots with Tom Hanks. Learn Lance’s hard-earned production secrets through hands-on exercises accomplished by small groups. Have a camera? Bring it! Footage will be saved for those engaging in next day editing class.

Laerdal Basic Simulator Care and Maintenance - Basic
110 Minutes
Vendor Technical Instructors
Product performance directly impacts simulation goals and objectives. To ensure equipment works in the best possible way, this beginner to intermediate course is designed to cover general care and maintenance of Laerdal low fidelity simulators. Participants will learn how to perform proper cleaning; software updates, general troubleshooting, and parts replacement. These focus areas are the foundation to keeping systems available and ready when simulators are called into action. The following Laerdal simulators will be covered: SimMan, SimJr and SimBaby. Hands-on opportunities will depend on class size.

SIMULATION TECHNOLOGY TRACK
Two 50-minute courses focusing on simulator technology and innovation.

Labs, X-Rays, and Pictures Oh My! Incorporating Media Files into your Scenarios to Increase Fidelity - Basic
50 Minutes
Scott Wilson
Carolinas Health Care
After this course, the participant will be able to:
• Create at least three forms of media files to be used in a scenario using their operating system.
• Identify the most appropriate method of displaying media files during a scenario at their simulation center.
• Describe at least one back-up or contingency plan for displaying media files if the scenario as written doesn’t work in order to ensure continuity of the scenario.

Incorporating media files into a scenario can create higher fidelity and help suspend disbelief if performed correctly and displayed at the right time and place. X-rays, lab values, ECG’s, ultrasounds, and other files are important aspects of both real life healthcare as well as running a good scenario. This is to the point that learners have come to expect these items or they lose confidence in their learning experience. Unfortunately, vendors often do not teach users how to do this when programming a scenario during education courses. Attendees of this lecture will learn about methods of use with software platforms as well as several back-ups plans that can also be used while doing mobile or in-situ simulation scenarios. This course is designed for novice scenario programmers who do not have a lot of experience with their operating system.
During this podium presentation, I will demonstrate to the participants how to create these media files, sources to find them, how to insert them into various simulation scenario platforms, and some alternative or back-up options in case their primary options fails or they are doing mobile/in-situ simulation that does not allow for their traditional method.

**Creating Manikin Movement to Enhance Realism - Intermediate**

50 Minutes  
Roger Chow  
St. Michael's Hospital

Walking into a simulation theatre, it may be highly realistic with genuine medical equipment and supplies. But when learners see the “patient”, aka the manikin, it is the most artificial component. If the “patient” is awake, then we can give him a human voice which is very powerful and engaging. Creating movement for the “patient” has always been a limiting factor. This movement system helps to a degree and can be applied quite effectively.

The presentation will be about a pneumatic movement system and the movements that can be created for a manikin. It will break down the system components to illustrate how to build this movement system. Finally, the system will be demonstrated, allowing attendees to try it out.

I plan to create and show a short video that will demonstrate the effectiveness of the “movement” system. It will provide examples so the viewers will have context with the situation and type of manikin movement associated. The video will show manikin “seizing”, “retching”, “gagging”, and “vomiting”. Following the video, I’ll use powerpoint to illustrate how to make this movement system. Using photos and text, I’ll describe how to put the system together and how I implemented it into a stretcher.

**MEDICAL TRACK**

Two 50-minute courses exploring the interplay between clinical topics and simulation.

**Breaking Down the Jargon: Understanding Clinical Scenarios for the Non-Clinical Technician - Basic**

50 Minutes  
Tara Johnson and John Ehlers  
Carolinas Health Care

**Objectives:**

- Develop a scenario template that allows the technician to understand the scenario.  
- Create a set-up checklist that prepares the technician for the scenario  
- Execute a better simulation experience for everyone involved

As a simulation technician you have to be able to navigate in the clinical world. In order for your simulations to run smoothly it’s important to understand how the scenario will progress, what expectations there are for your learners, and what set-up is required. Using a scenario template and set-up checklist will break down what you need to know. We will start off our presentation by presenting a short humorous video of the frustrations a new technician feels when working with simulation scenarios and not fully understanding the clinical jargon. We have two example scenario templates and a set-up checklist that we will share. The templates help you understand changes in vitals, patient outcomes, and learner objectives.

It also gives you a section to enter radiology, lab values, and other media files that are pertinent to the scenario. The set-up checklist includes items such as moulage needs for the mannequin and other
supplies learners might use such as, medications, IV fluids, and oxygen devices. These templates are used with a variety of user groups such as beginning nursing students, graduating nursing students, medical students, and residents. We want to show how using these simple tools will benefit the technician in programming and running scenarios as well as creating a better workflow. Using templates and checklists are one way you can keep your head above the fluid bolus.

**Inside the Mind of a Healthcare Simulation Educator - Basic**
50 Minutes
Joseph Crain
Cedars Sinai Medical Center

**Learning Objectives:**
- To understand that all of the knowledge, skills, and affect are directed to the well being of the patient
- To experience first hand the complexities involved in creating a simulation experience that touches all components.
- The learner will be able to explain the importance and identify situations related to the web of patient care.

This session involves the concept, design, development and implementation of a simulation scenario. Emphasis is on immersion in the total environment and not merely the skill objectives for a particular group. The participants will learn how to be involved in creating this atmosphere for patient safety and how to enhance certain aspects in the practical aspects of creating the “web.”

We will start with a group discussion on the key points of the “web” of patient care. Learners will explore the dynamics and the complexities related to implementation in the simulation setting. In the web the patient is surrounded by these four key points - the medical, sociological, psychological, and pharmaceutical. The patient is suspended in the interaction and communication of these components.

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**Wed. AFTERNOON Optional Block D (3:30 - 4:20)**

**Equipment Sourcing & Procurement - Intermediate**
50 Minutes
Lance Baily
SimGHOSTS

Taught by SimGHOSTS Executive Director & Founder Lance Baily. Back in 2009 on his first day as Director of the Clinical Simulation Center of Las Vegas - Lance was told by the Nevada State government he had just two weeks to spend $1,000,000 on new medical simulation equipment. Strangely -- spending money is no easy task! How did the program select which equipment to buy? What negotiating tactics ensured the best prices? What hurdles did Lance encounter and how were they overcome? Topics covered include: stakeholder identification, administrative support, high-speed equipment selection process, how to cut through purchasing department red tape, writing competitive exception forms, vendor selection tools and negotiation strategies, inventory management considerations, donation opportunities, benefits and challenges with 3rd party bidders, and more. If you are looking to rapidly outfit a sim center this is the course for you!
Inventory Management Strategies - Intermediate
50 Minutes
Lizzy Wooley, EMT-B
Simulation Technician, Baylor University Medical Center at Dallas, TX
SimGHOSTS

Learning Objectives:
• Discuss inventory management in the medical simulation field.
• Describe the financial aspects of inventory management
• Design a continuous or periodic review inventory-control system in Excel.

Most of medical simulation centers started as small that they’ve missed the opportunity of adapting the well-managed inventory system. However, as these centers grow rapidly, the implement of the effective inventory system became necessary. The medical simulation inventory management is different from the typical storage management in clinical environment with direct patient care. Simulation centers don’t dispose every item has been used and tend to keep the expired products.

In this course, Lizzy Wooley, Simulation Technician at Baylor University Medical Center (Dallas, TX), will share her experiences on starting the new inventory management with the self-created Excel form. Also, attendees will share their own experiences and the ideas on the inventory management.

Worldpoint’s Hyper-realistic Simulation with Cut Suit
60 Minutes
Worldpoint Instructors

The Human- Worn Surgical Cut Suit is a simulation product that can be used for education and training scenarios. The “Cut Suit” is the most realistic way to simulate the effects of severe traumatic events on a live human while allowing first responders and physicians to safely perform real procedures on a live human - from the point of injury, to treatment en route, and transition of care to surgical intervention. The surgical cut suit can provide hands on experience by presenting real life scenarios in a flexible, safe, controlled environment. The suit allows not only practice for skill training and evaluation but also the stress level associated with performing a task. This presentation will include a scenario in which an injury requiring surgical intervention occurs. The injury may include the intervention of a cricothyroidotomy, chest tubes, hemorrhage control, and/or peritonitis requiring living packing. This will be prefaced by an explanation of the event causing the trauma and then how the medical team will need to intervene. The plan is to have audience participation to assess and treat the patient. Once the medical intervention portion is completed a brief portion will be used to explain the goals and capabilities of the surgical suit as a training tool. The objectives of this course is how implementation of the surgical suit can be beneficial in the following ways; 1. Improving skills and enhancing confidence 2. Stress desensitization 3. Practicing teamwork, communication and leadership. The floor can then be opened up for questions, comments and discussion.

Virtual Simulation Desktop Infrastructure (VMware) - Intermediate
50 Minutes
Ferooz Sekandarpoo, SimGHOSTS
Chris Olivier, University of British Columbia

We have a rural simulation program in where we have clinical instructors (Physicians) whom provide training on our mobile mannequins. We provided them with the Muse software & licenses to install the application on their personal devices to be able to build the scenarios at home on their own time schedule for an upcoming training session.
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Problem
- Getting non-technical users to install and manage software on their personal devices.
- Physicians would have to call CAE technical support on how to install the software, how to uninstall the software and reinstall the software for any upgrades that may have happened since the last time they used the software. Trying to arrange a time for the CAE and Trainers’ time to coordinate a time to provide support is a painstaking process.
- We only acquired 6 licenses for the CAE Muse software so if there were other trainers we didn’t have enough licenses
- If the instructors upgrade their devices (laptops), and/or the hard drives crashed the license would be lost and another one would have to be purchased as CAE had no way of deactivating the current license.

Conclusion
- You can see how we took a frustrating situation with all parties involved (Instructors, CAE technical support, and local IT support) and not to forget the administrative nightmare with licensing issues and made it a more seamless experience for the end user.
- As an IT person I only had to deal with the CAE technical support directly. Since these are virtual machines all I need to do is update/upgrade one device and clone it 5 more times.
- We now have full control of all the licenses. We are in the process of using this for or iStan & PediaSim.
- We have plans in the future for creating a VDI for SimMan3G.
- This presentation will provide solution using our creative thinking of Virtual Simulation Desktop Infrastructure (VMware).

DIY Forum
50 Minutes
SimGHOSTS Community Members
ASPiH Representatives
This open forum will give attendees the opportunity to come and share their DIY projects, including custom moulage, IT hacks, video wizardry and simulator innovations. Attendees will get to browse around and chat with the DIYers on hand. If you wish to have your project included in the DIY Forum, please contact Ryan Eling at ryan@simghosts.org

SimMan3G & SimMan Essential PM Certification overview - Intermediate/Advanced
50 Minutes
Laerdal Technical Instructors
This informational session is an introduction to the Preventative Maintenance Certification course offered by Laerdal Medical. The Certification class is to train participants on the skills they will need to test functionality and perform Preventive Maintenance on the high fidelity SimMan3G line. Learning Objectives: Perform disassembly and reassembly of all PM kit provided Maximize service utilities and when to use each application Participants will obtain the skills and knowledge to test and update utilities. They will also learn when and how to perform SOM software update (restore utility) and to program laptops for optimal lab performance. PM kits are designed to replace parts before they wear out. Tools to help convince administrators: Able to perform Preventive Maintenance and basic trouble shooting without compromising Warranty. Limit down time and have better control over maintenance scheduling Able to purchase otherwise unavailable parts. Why it will help you: Offers freedom to maintain simulator with limited external support & empowers locals staff to utilize simulator to its fullest potential.
4:30 - 5:00  Daily Surveys and Closing Remarks
5:00 - 5:30  Shuttles to Sheraton
6:00 - 9:00 Opening Reception Dinner at Pinstripes Bowling across from Sheraton Hotel

Thursday August 7th
6:30 - 7:30  Breakfast served at hotels (Shuttles from Sheraton)
7:00 - 8:00  Coffee and Vendor Exhibits open
8:00 - 9:20  Laerdal Plenary Session

Laerdal Plenary Address: Development of the Apprenticeship role of the Clinical Skills and Simulation Technician in the UK

Presented by Jane Nicklin and members of the Hull and East Yorkshire Hospitals NHS Trust

Guests from the United Kingdom will discuss an initiative that is the first in the UK and provides an opportunity to start an exciting career in one of Yorkshire and the Humber’s simulated healthcare learning environments. The goal of this apprenticeship will be to achieve nationally accepted qualifications that will be recognised by employers and support career progression in science and technical roles.

The presentation will outline: the recognition of the national need for more proficient technical professionals, the recruitment of numerous government bodies, the planning of the apprenticeship and the implementation of the apprenticeship in its first year. The presenters will also share what change this apprenticeship should bring and what the global simulation technology specialist community can learn from the UK’s project.
Thurs. MORNING Optional Block E (9:30 - 11:20)

Gaumard Advanced Repair and Preventative Maintenance - Intermediate
110 Minutes
Gaumard Scientific Staff
Get hands on as we open up various high-fidelity manikins and learn how to maintain and repair these complex systems. Hands on experience will involve Noelle, Hal, Pediatrics, and our Green Airway Trainers. Learn the most common debugging techniques to better understand the mechanics behind the Simulators. Learn how to properly calibrate to ensure each feature is working effectively before you simulation starts. Tips and tricks of various simulators and task trainers will also be offered. Courses taught by official vendor technicians and educators.

Sim Techs will walk away with the knowledge to properly operate a Gaumard Simulator. You will also have the knowledge to troubleshoot certain issues and narrow down a problem and replace a specific part if needed. Some of the items the Sim Tech will be working on are troubleshooting issues related to ECG, a leak in simulator, clogged tubing from using an incorrect moulage product or not flushing out properly, troubleshooting and replacing failed modules, using the debug and diagnostics windows to expose certain issues, replacing failed or leaking components like eyes and speakers, battery location and replacement on most simulators and checking for leaks in IV arms and replacing certain models of IV arms, also providing tips and tricks to remove and replace the arm skin. Sim Techs will also receive a certificate of completion this year for the Advanced Repair and Preventative Maintenance class to bring back to their facility and hang on the wall of their simulation center. Question and answer session will be offered towards the end of the class. A time to discuss potential issues and product suggestions will also be allowed.

MOULAGE TRACK
Two 50-minutes sessions that demonstrate advanced moulage and realism-enhancing techniques.

Building an Ultra High Fidelity PICU Simulation for Orienting Nurses - Intermediate
50 Minutes
Todd Dadaleares
Maine Medical Center
This presentation will detail the process for building a two stage simulation event that was created to enhance learners orientation to pediatric post open heart patients. Because these simulations are for new nurses to go through the process of admitting a post open heart pediatric patient to the unit, the details infused into the cases are extremely important and the reality factor is very high. Some of the realistic factors include:

- using three different types of smart pumps that are all programmed and running simulated drugs with appropriate dosings
- bloodwork that is labeled exactly as it is at Maine Medical Center
- presentation of the child and how much equipment is present on bed when they present at MMC PICU

Presenter will also cover the creative workarounds and enhancements used to make the baby:

- bleed on cue from his mediastinal chest tubes
• divert infusions to appear that they are going into different access sites
• appear as if baby is being paced by real pacemaker
• appear as if baby is presenting a dynamic Central Venous Pressure number
• and more

Mr. Miyagi’s Solution to Cutting Costs: Smooth On, Smooth Off - Basic
50 Minutes
Laura Cragg, Kisha Choice and Dawn Swiderski
Carolinas Health Care
Objectives:
• Describe the use of innovation to create models that will meet learner needs while staying within a budget
• Explore the versatility of SmoothOn products
• Demonstrate the realism of center made task trainers compared to commercially made models

Cost constraints in a simulation center can be a problem when purchasing expensive commercial task trainers. Replacement parts increase unwanted costs on an already limited budget. Our innovative solutions will demonstrate that there are ways to get around the high costs. We have developed many models that work as well as the commercial trainers currently available. We will demonstrate our Central Venous Adjunct Trainer (CVAT) for central line placement practice, wounds that can be packed or used with a wound vacuum, an ostomy which can be used on a manikin for moulage, a gastrostomy tube care task trainer and others which have been created for many levels of learners. Our models are realistic, helping to retain the user buy-in which is another benefit to learners. We will discuss the lessons we learned along the way and how we have been able to turn some unintentional outcomes into useful products. Through the recycling of used products such as skins that we created for one user group, we will show how they can be reused and adapted for a completely different training procedure. By describing how and why our innovations were developed we will hopefully inspire ideas that will benefit other centers as well. This session will help defend participants against high costs on a tight budget.

SimGHOSTS’ Family Therapy: Building bridges among Professionals
110 Minutes
James Cypert
SimGHOSTS
Mishra (1996) offers a salient definition of trust as, “one party’s willingness to be vulnerable to another party based on the belief the latter party is competent, open, concerned and reliable” (p.267).

Within this understanding of trust, this session will be a facilitated open forum exploring the often unspoken frustrations between disparate disciplines and professionals. This extended conversation will be placed in the context of the interpersonal processes that focus on empathy first, sharing expectations second, and then arriving at collaborative decisions that involve everyone on the team.

Learning Objectives:
• Acquire insight into the perspectives of fellow professionals from various disciplines
• Compare and contrast various experiences to gain understanding and build empathy between disciplines
• Explore, evaluate what each specialty can offer each other
• Develop an appreciation for what the other disciplines offer promoting empathetic responses towards all members of a given interdisciplinary team.
• Define trust as an interpersonal process
• Identify the antecedents of interpersonal trust
• Synthesize interpersonal trust and its influence on autonomy, job satisfaction, affective commitment,
Pulp Non Fiction: Pharmacology and Arrhythmia for the Sim Tech - Basic
110 Minutes
Tom Lemaster, Rami Leventhal and Rachel Bailey
Cincinnati Children’s Hospital
This session will be an interactive workshop presentation. The course will investigate core knowledge of common medications used during simulations including the expected and unexpected responses required of the simulator.

After completing this course participants will be able to:
• Discuss common medications and the response of the simulator used in medical and trauma simulations. Recognize the relationship between the identified cardiac arrhythmia and associated code medications
• Describe the physiological effects of common medications used during a simulation for intubation (RSI)
• Describe the causes of 2 common cardiac arrhythmias and desired treatment
• Identify cardiac arrhythmias used in simulation and adjust simulator software accordingly.
• Demonstrate understanding of physiological changes caused by cardiac arrhythmias.

Facilitators will demonstrate and describe the physiological responses of the simulator to medications as they are administered. Simulation technicians will learn to anticipate the unexpected requests from educators and understand the reasons behind the request. The pharmacologic response of cardiac medications including epinephrine, adenosine, Amiodarone and dopamine. Intubation mediations we be discussed including common paralytic medications of succinylcholine, Rocuronium and Vecuroium. We will also discuss sedation and seizure medications. Lidocaine will be discussed as a protectant in head injury patients. Emergent respiratory drugs will be discussed including albuterol and IM epinephrine. In addition we will discuss black box concerns of medications, common errors made by learners and appropriate simulator responses. Participants will see first-hand how to change vital signs “on the fly” based upon the medication given.

Additionally, this presentation will explore basic knowledge and recognition of cardiac arrhythmias that are displayed on patient ECG monitors and defibrillators. Teaching Simulation Technicians how to easily recognize cardiac arrhythmias and the desired treatment for the arrhythmias will allow them to better understand the pathophysiological changes on the heart due to an arrhythmia. By applying this knowledge to human patient simulation, Simulation Technicians can better prepare and operate the simulators who are experiencing a cardiac event during a simulation scenario. The session will conclude with a ten minute question and answer.

Releasing the Full Power of SimMan3G – Automatic Mode with a Manual Override - Intermediate
110 Minutes
Brian Wallenburg & Cole Boeve
University of South Dakota
At the Parry Center for Clinical Skills & Simulation at Sanford School of Medicine of the University of South Dakota, we have developed and implemented an innovative approach to programming SimMan3G scenarios that we called “The HUB.”

This approach has several important features that even the seasoned SimMan3G scenario programmers
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will appreciate:

• very simple programming concept - it can be easily mastered by both novices and experienced SimMan3G scenario developers
• allows for development of very dynamic clinical scenarios without compromising the ease of use of the simulator
• virtually closes the communication gap between the technical simulator operator and clinical faculty

When we were challenged by our clinical faculty to provide flexibility in simulation scenarios, we developed a scenario programming concept that we called “The HUB.”

The scenario starts with the “Baseline” state that represents the patient’s initial profile, and automatically advances itself to the state called “The HUB.” The unique feature of “The HUB” is that it does not change any physiologic parameters in the scenario and rather serves as the starting point for the half of the transitions and the destination point for the other half.

To advance the scenario from “The HUB” (starting point) to any of the states we need to trigger an appropriate transition such as “Go To State 1.”

After reaching the state and executing all the changes programmed in that state, the scenario automatically initiates a time laps-based transition “Go Back To The HUB” (“The HUB” is the final destination point in this transition.)

The beauty of this approach is that after reaching any state in the scenario, the scenario automatically returns to “The HUB.”

Learning Objectives:

• Illustrate a simple, yet effective programming concept that can be mastered by both novice and experienced SimMan 3G scenario developers.
• Demonstrate a methodology that allows for development of very dynamic clinical scenarios without compromising the “ease of use” of the simulator.
• Provide a mechanism designed to close the communication gap between the technical simulator operator and clinical faculty.

Fabricating For The Sim Lab: Tools, Materials and Techniques For Building Props For Your Simulations - Intermediate

110 Minutes
Allen Sutphin
Wake Forest Innovations Center for Applied Learning

In an effort to achieve greater buy-in from our learners, simulation technicians are tasked with adding as much realism to our scenarios as possible. Special effects and props are key elements to achieving that realism, but they can be expensive and difficult to obtain. These props and effects can be made quickly and inexpensively and still provide the realism that our learners are looking for. This presentation will introduce inexpensive hand tools and materials for creating some of these effects along with the techniques used to construct them. This presentation will combine a podium presentation, demonstration of fabrication techniques and a hands on workshop that will allow attendees to use simple hand tools and easily obtained materials to build both simple and complex props and effects.

Learning Objectives:

• Familiarization and use of the tools used to build constructs like penetrating objects, remotely controlled mass fluid loss, damaged tissue and other effects. Sources for these tools will be included as part of the presentation.
• Familiarization and use of the materials used to construct penetrating objects, remotely controlled mass fluid loss, damaged tissue and other effects. Sources for these materials will be included as part of the presentation.
• Familiarization and use of some of the techniques used to construct penetrating objects, remotely controlled mass fluid loss, damaged tissue and other effects. Techniques will be demonstrated as part of the presentation and learners will have the opportunity to apply these techniques.
• General discussion with the potential for building on the fly props and effects and exploring other fabricating techniques depending on the interests of the attendees.

11:30 - 1:00 Lunch in Exhibit Hall (Last Chance for Vendors!)

Enjoy lunch and take a moment to meet with our vendor sponsors in our exhibition space.

Thursday AFTERNOON Optional Block F (1:00 - 2:50)

Advanced Video Editing Techniques - Advanced
110 Minutes
Lance Baily
SimGHOSTS

In the pacing of video editing, 7 seconds is an average shot length. At 30 Frames Per Second, that means 210 frames pass in front of the viewer’s eyes during just one shot. If even one of those frames is off, there can be massive unintended consequences for the message to your audience. With this course you will see how small, almost invisible changes, can lead to big impacts for the quality and message of your video pieces.

For almost twenty years Lance has spent countless hours with linear tape decks and non-linear editing computers piecing together thousands of videos ranging from 11-second lightsaber duels to 90-minute drag racing dvds. Specializing in documentary production since university, Lance has powerfully connected his film-making background to medical simulation through lab orientations, promotional materials, interviews, product/service demonstrations, tutorials and more. Depending on course size we may also provide workshop time for building your own advanced edit using FCP.

During this lesson, Lance will showcase Apple’s Final Cut Express to:
• Explicate the continuity of editing theory and how to skilfully break it
• Highlight time-saving shortcuts for reviewing, selecting and editing.
• Point out key audio issues and last-minute fixes
• Demonstrate his editing process for a HealthySimulation.com video segment and show complicated
• Cover timing, flow, storyboarding, graphics, sounds, fades, cuts, transitions, brightness hacks, mattes, intros, outros, publishing, titling, and more.

Essentials of CAE LearningSpace
110 Minutes
Taught by Vendor Technical Instructors
Audiovisual performance capture is an inescapable component of today’s simulation environments. This interactive two-hour course invites participants to engage in hands-on training with LearningSpace, CAE Healthcare’s comprehensive audiovisual and center management system. Participants will be designing a basic evaluation tool, setting up a simulation activity, and running their newly created activity ‘live’. “If you are looking for new A/V systems with learning management features, this is the course for you!

A/V TRACK: Simpler Recording Solutions
Two 50-minute sessions focusing on audiovisual technology.

Assessment in Nursing -GoPro is Not Just for Extreme Sports! - Basic
Jean Halpern and David Jiang
SUNY Orange
Have you ever wanted to assess your students doing tasks or skills in a simple, cost effective way? On-the-spot video creation using a GoPro or similar device could be your answer! This presentation will outline the methods used in a pilot program by SUNY Orange’s Nursing Department to document student skills assessment for high-stakes testing. In addition, the program helps in mentoring new faculty and improves inter-rater reliability. A pilot project was developed by Jean Halpern (Nursing Faculty) and David Jiang (Sim Technician) to assist in the evaluation of nursing students third time high-stakes skills testing. The pilot was conducted during the fall 2013 semester and was extremely successful. As a result of the project, the nursing department plans on fully implementing the use of this technology to record all skill evaluations. The learning objectives of this presentation will be to: 1. Discuss the rationale for utilizing the GoPro as a method of video capturing student performance in a high-stakes situation 2. Demonstrate setting up a GoPro in a skills testing environment and utilizing the GoPro app on an iPad or other mobile devices for live feedback 3. Discuss how the video is used to improve inter-rater reliability among the faculty The knowledge gained from this presentation will allow educators to apply this technology to further improve student assessment. The SUNY Orange presentation will include a power point slide show, viewing of a video clip of an actual skill assessment, and demonstration of setting up a GoPro using an iPad for live preview. The advantages and disadvantages, costs, and future plans will also be discussed. A question and answer period will follow.

Building your own AV solutions on a budget - Intermediate
50 Minutes
Scott Crawford - Instructor – Texas Tech University Health Science Center El Paso campus
EM Physician – University Medical Center, also change “Simghosts” to “SimGHOSTS Board Member SimGHOSTS
Simulation instructors record simulation sessions to facilitate debriefing and to assess successful completion of required tasks during a case. Pre-designed and installed audio/visual systems are outside of the budget for many small or just-opening centers. This course will include a tutorial on how to implement a low-cost audio/video solution for recording and debriefing. We will demonstrate and discuss special features of several cameras, audio equipment, and recording devices, along with hardware-triggering devices.

Learning Objectives (by the end of this session, learners should be able to):
• Participants will be able to identify the specific features needed for an AV system at their facility and then design an appropriate solution for those needs.
• Identify the limitations at their center for implementing an AV solution.
• Design and select individual components and technology for their AV system and determine if they can accomplish the task logistically and financially.
Fabricating For The Sim Lab: Tools, Materials and Techniques For Building Props For Your Simulations - Intermediate

110 Minutes
Allen Sutphin
Wake Forest Innovations Center for Applied Learning

In an effort to achieve greater buy-in from our learners, simulation technicians are tasked with adding as much realism to our scenarios as possible. Special effects and props are key elements to achieving that realism, but they can be expensive and difficult to obtain. These props and effects can be made quickly and inexpensively and still provide the realism that our learners are looking for. This presentation will introduce inexpensive hand tools and materials for creating some of these effects along with the techniques used to construct them. This presentation will combine a podium presentation, demonstration of fabrication techniques and a hands on workshop that will allow attendees to use simple hand tools and easily obtained materials to build both simple and complex props and effects.

Learning Objectives:
• Familiarization and use of the tools used to build constructs like penetrating objects, remotely controlled mass fluid loss, damaged tissue and other effects. Sources for these tools will be included as part of the presentation.
• Familiarization and use of the materials used to construct penetrating objects, remotely controlled mass fluid loss, damaged tissue and other effects. Sources for these materials will be included as part of the presentation.
• Familiarization and use of some of the techniques used to construct penetrating objects, remotely controlled mass fluid loss, damaged tissue and other effects. Techniques will be demonstrated as part of the presentation and learners will have the opportunity to apply these techniques.

General discussion with the potential for building on the fly props and effects and exploring other fabricating techniques depending on the interests of the attendees.

Simulation Internship: Making the Leap from Technician to Manager - Intermediate

110 Minutes
Michelle Zahn, Jennifer Livingston, Cindy LeDonne, Kimberley Hernandez and Chris Alonzo
University of Illinois at Chicago

With limited personnel resources, the decision was made to utilize simulation technicians in an increased leadership role. A six month internship was conducted with three existing simulation technicians. The simulation interns (simterns) were given additional training on advanced programming, mannequin maintenance, scenario scripting, and program logistics, among others. Every week, the simterns were scheduled for additional hours, outside of their normal simtech duties, where they were used as staff extenders in completing many of these necessary tasks for the simulation center. Additionally, they were each dedicated as a point person on specific programs. With this increased responsibility, they gained confidence in dealing with learners, peers, and faculty. On a bi-weekly basis, each simtern met with center management to discuss their progress and set personal goals.

The results of the internship will be discussed with emphasis on the effectiveness of the program. Some limitations of the internship were scheduling, identifying clear limitations in the new roles, and financial impact. Main benefits of this program for the simterns were an increased breadth of knowledge and leadership experience. For the center, the program led to more standardized simulation programs,
requiring less manager oversight, and improved relationships with faculty clients.

Our panel will discuss the development of this simulation internship used at our center which resulted in three potential managerial candidates. At the end of the presentation attendees will be able to: describe necessary first steps to implementing a simulation internship, discuss the pros and cons of using simterns, and evaluate sim center needs to determine the benefit of using a simternship to create a pool of future leaders.

Sim Tech Profession Development Workshop - Follow-Up to Pre-Symposium
110 Minutes
Scott Crawford, James Cypert and Ferooz Sekandarpoor
SimGHOSTS
This session will be a continuation of the pre-symposium workshop, “SimGHOSTS Planning Workshop: Creating Formal Training for Our Community” and will allow attendees to:
• Receive a report of what was accomplished during the pre-symposium session
• Ask questions of the SimGHOSTS leadership about the pre-symposium session
• Break into small groups to continue the work of developing formal SimGHOSTS training

Thursday AFTERNOON Optional Block G (3:00 - 3:50)

Team Meetings
SimGHOSTS is a non-profit organization currently pending tax exempt 501(c)3 status. The mission for The Gathering of Healthcare Simulation Technology Specialists Organization and annual meeting is to provide technology specialists within the healthcare simulation field with a community dedicated to developing and sharing resources, knowledge, training and standards for fostering excellence in the operation of healthcare simulation.

For 2014 - 2015, SimGHOSTS is looking to expand the meeting size and support the development of key resources requested by this international professional community. We believe that Sim Techs are the primary operators or ‘end-users’ of simulation based technology and are quickly becoming the defacto program representatives regarding all future simulation-related technology purchases.

Due to the community feedback from our previous meetings, we have provided dedicated time for various teams to meet. This includes the leadership team, 2015 event planning team and vendor relations team. SimGHOSTS is dedicated to empowering Sim Techs to develop what they need - so lend your voice and help guide our profession!

Team Meeting Options During this Time include:
Team Meeting - Fundraising
Discuss innovative sources of funding to help enable SimGHOSTS to grow in 2015 and beyond!

Team Meeting - 2015 Meeting
Support the SimGHOSTS organization 2015 meeting team. Help to secure location, develop meeting structure, oversee course proposal submissions, create special events, and support 2015 meeting!

Team Meeting - Vendors & Vendor Liaison Support
The SimGHOSTS organization would like to hear from you and our vendor sponsors. Help to secure future sponsors and discuss the SimGHOSTS Vendor Council.
Team Meeting - Website
Support our community by improving our web presence. Help manage blog posts, host webinars and participate in our LinkedIn group.

Team Meeting - Hospitals
Do you work at a hospital-based simulation center? Help SimGHOSTS learn how to serve your needs better by discussing the challenges and opportunities you see at your facility.

Team Meeting - Higher-Education
Do you work at a university or college? Help SimGHOSTS learn how to serve your needs better by discussing the challenges and opportunities you see at your facility.

4:00 - 4:50 Special Event
SimGHOST Busters - 2014 Sim Tech Troubleshooting Competition Finals!
After two days of participants running through our simulated troubleshooting exercise, we all get to watch our finalists compete for prizes!

4:50 - 5:10 Group Photo, Survey and Closing Remarks
5:15 Shuttles to Sheraton

Friday August 8th
6:30 - 7:45 Breakfast served at hotels (Shuttles from Sheraton)
8:00 - 9:00 Level 3 Medical Closing Plenary

Level 3 Medical - Overview of a Sim Lab Buildout - Intermediate
60 Minutes
Russell Metcalfe-Smith, Simulation Manager, and four members of the system integration team from Level 3 Medical Designs, Brad Peterson (CEO), Jeremy Elsesser (CTO), Alfredo Salinas (Medical Design Engineer) and Brent Durbin (Project Manager).
This presentation will focus on the planning, building and technology integration involved in the recently completed Women’s Guild Simulation Center for Advanced Clinical Skills in Los Angeles, CA. A panel discussion, led by Level 3 Medical Designs (L3MD) and the manager of the simulation center, Russell Metcalfe-Smith, will provide an in-depth overview on the importance that pre-construction planning, simulation design, and integration of AV technology had on the project’s success. This overview will include technology challenges the team faced, lessons learned and what they would do differently the next time as
well as surprise benefits gained that were unexpected. Three of the learning objectives covered will be:
1) Defining and building the simulation planning team.
   a. Why is this important to your success?
   b. Who should participate?
   c. Why should they participate?
   d. What objectives should you define and target?
2) Identifying your simulation needs.
   a. What educational objectives does your center have/need?
   b. What equipment or technology will be needed to support your simulation?
   c. What technology currently exists?
   d. Who are your clients? i. Internal. ii. External.
3) Unifying and integrating disparate technology to create a single, easy to use control platform.
   a. What technology needs to be integrated?
   b. Recording simulations for immediate or future playback.
   c. Touch panel use, control and administration of the simulation.
   d. Control room design and functionality.
   e. Seamless switching of multi-format video equipment.
   f. Transmission of simulation for downstream participants/educators.

Our five member panel includes, Russell Metcalfe-Smith, Simulation Manager, and four members of the system integration team from Level 3 Medical Designs, Brad Peterson (CEO), Jeremy Elsesser (CTO), Alfredo Salinas (Medical Design Engineer) and Brent Durbin (Project Manager). Together this team will discuss the center’s needs from a technological and educational viewpoint as well as how they utilized AV technology to enhance learning, create clinical realism while making simulations easy to record, administrate and stream. If you are planning a new simulation center or discussing upgrading your current one you will learn first-hand how to formalize a pre-construction planning team, use technology to create realistic simulations, incorporate touch panel control of your simulations, avoid costly mistakes due to a lack of planning, avoid the acquisition of expensive and/or unnecessary equipment and how to make your simulations easy to plan and administer for the Sim Tech.

Friday MORNING Optional Block H (9:00 - 1:00)

Networking 101: Fundamentals of Networking Workshop for the Simulation Technologist - Intermediate
4 hours
James Cypert
SimGHOSTS
“One day soon the Gillette Company will announce the development of a razor that, thanks to a computer microchip, can actually travel ahead in time and shave beard hairs that don’t even exist yet.” – David Barry

There are few applications of simulation technology that do not require the use of an underlying network infrastructure. Whether you acknowledge it or not, the networks that our simulation equipment operate in require attention, because to ignore it is to ignore the potential it has to solve many problems, or become the source of many issues. From ensuring that disparate nodes on the network exist on the same subnetwork to avoiding enterprise infrastructure compromise by introducing shadow IT technologies or greynet applications, this course intends to make known some of the fundamental concepts of networking,
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while providing some hands on training in its implementation and configuration for the purposes of simulation.

The course will use systems with Gaumard and Laerdal software as a focal point of network utilization, configuration, and troubleshooting techniques. The course is a combination of hands-on and lecture/discussion.

Learning Objectives:
- Define the function of networks
- Identify the function and characteristics of local area network (LANs)
- Identify the function and characteristics of wide area networks (WANs)
- Understand addressing used on a network
- Describe various network technologies
- Differentiate between internet, intranet, and an extranet
- Understand wireless technologies and the WLAN standards and security methods
- Understand the function and benefits of virtual LANs (VLANs)
- Describe characteristics and use of TCP diagnostic tools, including ping, tracert, pathping, telnet, ipconfig, and netstat
- Identify remote access tools
- Describe the function of Dynamic Host Configuration Protocol (DHCP)

Intermediate Moulage Workshop - Intermediate
Additional Course Fee Required $125
4 hours
Bobbie Merica
Moulage Concepts
Are you “new” to moulage? Are you interested in creating training scenarios that engage your participants? Moulage Concepts intermediate workshop is designed to advance the skill-set of the beginning and intermediate moulage designer in creating realism in the simulated medical & trauma training scenario. Utilizing best practice techniques, participants will learn advanced-beginner, intermediate and accessory moulage skills in addition to short-cuts that will assist them in incorporating moulage into the training paradigm. Learn to create, store and reuse interactive wounds that can be triaged, debrided and even ruptured to support your simulation training scenarios while enhancing symptom assessment, injury recognition, stress inoculation and supportive decision making. “Bridge the Gap” between simulated and clinical experiences by joining us in this intermediate Moulage training course!

Medical training for the non-medically trained - Basic
4 hours
Scott Crawford, SimGHOSTS
Amanda Anaya, Texas Tech University Health Sciences College
Simulation is used across the medical specialty to increase knowledge, train problem solving skills and demonstrate proficiency in a variety of complex clinical scenarios. How can I communicate and understand what is happening in a complex medical scenario if I didn’t go to medical School?

Medicine has complex terminology and an unfathomable breadth and depth of knowledge. To communicate with these learners becoming familiar with their terminology and the basics of resuscitation care is essential.

This course will provide an overview of the most commonly used medical terms, diseases and acronyms
to help you understand the material being presented. Why doctors and nurses give the care they do and break down the language and terminology barrier that medicine has built up.

At the completion of this course you will be able to communicate more clearly with learners and facilitators and design scenarios more effectively using triggers and cues that learners are taught to see in live patient interactions. You will be able to predict learner actions based on clinical scenarios and understand team member communication that was previously complicated by terminology or descriptors outside of the vernacular.

At the completion of this course learners will be able to:

• Identify how medical personnel view and interpret vital signs; and understand how any why we treat them.
• Learn the most common disease entities and how they are managed with medication and physical interventions.
• Identify the acronyms and terminology that serve to obfuscate the medical literature and communication within the medical system so that you can communicate with learners and educators on their terms.

Successful simulation requires that learners, educators and staff understand upfront how scenarios will operate. Grab a camera and share with the global SimGHOSTS community a video that explains operations and orients learners and staff to your center! You could explain proper video recording techniques, an orientation to a simulator, or any other demonstration of proper lab operation.

Task Trainer Development: Creating a Physical Interface to Your Computer - Advanced

Additional Course Fee Required: $15 (Space Limited to 15 People - See Enrollment Restrictions Below) 4 Hours
Chad Jackson, MS, RRT, CCMEP
Director, CHEST Clinical Simulation and Innovation Center
This session is primarily reserved for experienced Simulation Technicians who have attended SimGHOSTS events before. In this hands on session, experienced simulation technicians will learn the necessary steps and techniques to actually make a physical task trainer, and connect it to a computer to provide feedback to the learner and the instructor using it. Learners will be provided several ideas to interface task trainers or build trainers for various simulation modalities, and actually make a choice to interface them with a computer. Using MS PowerPoint or Adobe Captivate, learners will make a simple computer environment that will capture feedback from the learners when they appropriately or inappropriately use the task trainer. Next participants will solder the interface together, and "smoke-test" their connections, and interface it to a microcontroller to provide feedback to the computer. Finally, attendees will write the programming and debug it as necessary to see their task trainer performing as desired, giving appropriate feedback when used.
**Tue. 8/5** Block L HALF 103 R HALF 103 Conf 133/134 Conf 135/136 Rm 132 Comp Dry/Wet Lab Vendor Hall Sim Rooms

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<th>Time</th>
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<tr>
<td>0630 - 0730</td>
<td>Breakfast @ Hotels</td>
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<tr>
<td>0730 - 0800</td>
<td>Registration</td>
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**Moulage Mastery - Theatrical Trauma for the Advanced User**
*(Lunch Provided)*

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<th>Time</th>
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<tr>
<td>1630 - 1700</td>
<td>Closing Remarks &amp; Day-1 Responses</td>
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**Wed. 8/6** Block L HALF 103 R HALF 103 Conf 133/134 Conf 135/136 Room 132 Comp Dry/Wet Lab Vendor Space Sim Rooms

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<tr>
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<td>0700 - 0800</td>
<td>Welcome &amp; Orientation</td>
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<tr>
<td>0800 - 0830</td>
<td>Keynote Address by SimGHOSTS President James Cypert Sponsored by Level 3 Medical</td>
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**LUNCH & VENDOR EXHIBITS OPEN**

"SimGHOST Busters" TroubleShooting Competition Qualifying Rounds

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<tr>
<td>1800 - 2100</td>
<td>Level 3 Medical Opening Reception Dinner &amp; Bowling @ PinStripes (Across from Sheraton)</td>
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Vendor Hall Closed
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<td>0700 - 0800</td>
<td>Vendor Exhibit Hall Open &amp; Morning Coffee</td>
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<td>0800 - 0830</td>
<td>Laerdal Plenary: Sim Tech Professional Development in the UK</td>
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Group Photo, Closing Remarks & Day 2 Responses