2016 Symposium: UNITED KINGDOM & EUROPE

JULY 18 - 20, 2016

ST GEORGE’S ADVANCED PATIENT SIMULATION CENTRE
LONDON
Dear Simulation Specialists,

Thank you for joining the largest, most innovative and passionate group of individuals dedicated to supporting healthcare simulation around the world. 2016 is a bright year for us and you, our members. Now in its 6th year, the Gathering of Healthcare Simulation Technology Specialists (SimGHOSTS) has firmly established itself as a global training powerhouse. We serve to connect hundreds of like-minded individuals across four continents to collaborate and learn at hands-on training conferences. We have launched a new website that will allow continued networking and valuable resources for your center any time of the day or night, and we have partnered with other simulation organizations to enhance the diversity of expertise with one goal in mind: to help you deliver the best possible educational experience to your learners and improve healthcare and patient safety.

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

We want to be your advocate in the industry and make sure you are empowered to use your knowledge to deliver cost-effective, user-friendly educational environments that facilitate learning. Thank you for taking the step to make yourself a better facilitator, educator and team member by joining us in our quest. We hope you meet someone new, reignite your passion for simulation and share your experiences with the world!

Please take your time here to learn something new and meet with other members, both novice and veteran. We hope you discover, as we have, that Simulation Specialists are friends you want to meet and keep. Our conferences are unique to the world of simulation because we connect you directly with vendors to learn how to use and service their products. Make sure to take advantage of this opportunity to learn tips and tricks directly from the source.

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

Welcome to SimGHOSTS!

Scott Crawford MD, CHSOS
SimGHOSTS President
Assistant Professor/Associate Program Director
Texas Tech University Health Sciences Center El Paso
WHO SHOULD ATTEND SIMGHOSTS-ASPIH 2016?

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

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

WHAT ARE THE MEETING OBJECTIVES?

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

REGISTRATION INFORMATION

SimGHOSTS-ASPiH 2016 Register Here!

Pricing
Early-Bird Registration: £275 (Available until June 15th)
Regular Registration: £385
*Note: Annual website subscription is no longer included in registration price. However, during the event registration you may sign up to renew or start an annual subscription at an additional 10% off. For more details about subscription benefits see page 4.

CAE Healthcare Introduction to Apollo and Vivo (July 18th) - £20
TraumaFX Comprehensive Moulage Workshop (July 18th) - £75

Included Meals
Continental Breakfast and Lunch served July 19th-20th.

Refunds
There are NO refunds after June 15th, 2016.

Other Questions?
Keep informed about the latest information at the SG-ASPiH16 Event Page.
ABOUT OUR HOSTS

The St George's Advanced Patient Simulation Centre GAPS is an inter-professional training facility at St George's Hospital, London. We use simulation and other educational tools and techniques to help healthcare teams achieve their full potential. Our centre includes two full-immersion high-fidelity simulation suits, a fully-equipped skills lab, part-task trainers and a post-graduate dental and micro-surgery unit. We provide in-house and external mobile simulation and support for satellite simulation groups. We are based in London, SW17 and have been in operation for more than 17 years.

Our mission statement is to enhance patient care through learner-centred simulation and skills training. We design and deliver high quality programmes which recognise the essential place of multi-professional teams in the delivery of healthcare. We provide a full range of simulation-based training from high-fidelity full-immersion for real teams to part-task skills development exercises for individuals.

We work to place patient-safety at the heart of St George's and the wider health community. Our approach is evidence-based and aligned to service needs. We aim to improve practice and reduce error, strengthening an institutional memory by expanding the opportunities for participation in our programmes for all staff involved in patient care.

We continually evaluate the impact of what we do for our learners and engage in research into the learning process. We do this with the objective of increasing the value of our work for our learners and learners in general and will always treat them and data they have provided with respect, confidentiality and in accordance with the guidelines provided by the NHS, the Integrated Research Application System and the Declaration of Helsinki.

ACCOMMODATIONS

PELICAN HOTEL & RESIDENCE
203 Blackshaw Rd, London SW17 0BZ, United Kingdom
+44 20 8725 2297

The Pelican is immediately adjacent to GAPS, but space is limited. Reserve your room ASAP at this convenient location!

Book online here!

HOLIDAY INN EXPRESS LONDON - WIMBLEDON SOUTH
200 High Street Colliers Wood, London SW19 2BH, United Kingdom
+44 20 8545 7300

Holiday Inn Express is a 10-minute walk to GAPS. Space is limited; 30 rooms available for SG-ASPiH guests. Contact Barbara at sales@exhiwimbledon.co.uk

GAPS IS LOCATED ADJACENT TO TOOTING BROADWAY STATION ON THE LONDON UNDERGROUND
SIMGHOSTS.ORG SUBSCRIPTION

The learning doesn't stop at SimGHOSTS events! Join 2,000 simulation champions from around the world communicating everyday answering questions, sharing tips, and creating course content!

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

- **Growing Video Library** - Over 200 recorded hour+ long sessions from previous SimGHOSTS events are immediately available to watch. Topics range from a/v system design to daily utilization increases and from manikin programming to moulage creations. Instantly learn from global experts and leading vendors!
- **New* Weekly or Daily Newsletter** - Follow all the latest updates with a weekly newsletter of blog and forum topics.
- **Forums Discussion Groups** - Ask questions, gather answers, search for previous conversations, and share your successes on the only permanently saved forums dedicated to the operation of simulation technology.
- **Increased* Document Database** - Download community provided templates, example forms, policy and procedure guides, job descriptions, standard operating procedures, tutorials, and more.
- **Contact Database** - Connect with local, regional, national and international peers from our global network of simulation technology specialists
- **Simulation Jobs Board** - Post and read open positions specifically related to healthcare simulation.
- **Professional Development** - Join our growing number of teams dedicated to advancing the field of healthcare simulation technology. Research, Website, Certificate Training, Standards, and Vendor Teams are all examples of current committee teams. Join these or start your own!
- **New* Online Training Programs** - Subscribers are the only one's to get access to our online training courses covering a range of simulation technology operational topics.

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

Join or Renew during SG-ASPiH16 event registration!
Welcome To SimGHOSTS-ASPiH 2016!

Event Information

Event Dates
Pre-Symposium: July 18th, 2016
Main Symposium: July 19th and 20th, 2016
@ St. George's Hospital in London

Registration:
Early-Bird Rate (available until June 15, 2016) - £275
Regular Rate - £385
Select workshops have additional supply fees; see agenda for more information
Limited quantity of discounted student day passes available.

Airports:
London City Airport (LCY)
London-Heathrow (LHR)
CAE Healthcare is a medical simulation company with a mission to improve healthcare education and patient safety. We design and build products for patient simulation, surgical simulation, ultrasound simulation and clinical simulation management. Our global adjunct faculty and clinicians develop medical simulation scenarios for medicine, nursing, health sciences, hospital systems and the military.

Our commitment to quality, lean manufacturing and world-class customer service is unmatched, allowing us to deliver innovative healthcare simulation training products and solutions to our customers in more than 60 countries around the world. From full motion flight simulators to simple part-task trainers CAE are passionate about technology and innovation.

It is amongst the Gathering of Healthcare Simulation Technology Specialists we feel free to discuss, demonstrate and educate on our new and existing platforms but also to fuel our inspiration to meet the needs of all those working in the field of healthcare simulation.

LEARN MORE AT WWW.CAEHEALTHCARE.COM
GOLD SPONSOR: SIMNEXT

As a member of the OSF Healthcare and Jump Trading network of brands, SIMnext is the team of product architects developing new technology and product solutions to leverage within our corporate structure and to license to the healthcare industry through our network of manufacturing and distribution partners. Because OSF is a working healthcare enterprise and is continually generating new patient data, we are able to provide data-driven and fully tested product solutions that offer the most realistic and portable simulation in the market.

Our partners are facing a changing healthcare landscape that is becoming more and more accepting of simulation technologies and is beginning to look for the next generation of product solutions as the industry continues to expand. SIMnext is a medical simulation brand, and we will concern ourselves with the issues and challenges facing our partners in healthcare simulation and training, as well as those impacted by issues in the industry. Our unique access to patient data and industry expertise offer us unique insights, and we will always strive to use this advantage to the benefit of our partners and the healthcare industry.

This is an exciting time for simulation training. As new simulation innovations develop in healthcare and in outside industries, the industry will continue to expand and offer new challenges as well as new opportunities for growth. There are new trails to be blazed and ideas to pursue that will make healthcare around the world stronger and more effective. The SIMnext team of the experts and our network of partners are committed to providing thought leadership wherever and whenever possible to expand the value of simulation and improve patient outcomes across the industry.

LEARN MORE AT WWW.SIMNEXT.COM
SIMStation is a European manufacturer of Audio-Video debriefing systems, suitable both for fixed simulation centres and mobile in-situ trainings. Our mission is to provide innovative, simple-to-handle systems with highest quality standards; thus giving our clients the possibility to take their simulation programme to a new level of effectiveness.

SIMStation provides a very easy-to-use monitoring and recording software with highest video and audio quality and almost zero delay in live transmission, completed by innovative tablet-based apps for annotation and debriefing. Moreover, the integration of our hardware in simulation centers couldn’t be easier, as it only requires a single network cable connection between the training, control and debriefing rooms.

We have been implementing our systems in major simulation centres throughout Europe since 2012, including London, Paris, Munich, Zurich, Luxembourg, Vienna and Bucharest.

Learn more at www.simstation.at

Laerdal Medical is a global corporation dedicated to helping save lives through the advancement of the cause of resuscitation and emergency care. The vision of Laerdal is that no-one should die or be disabled unnecessarily during birth or from sudden illness or trauma.

Since its creation of the pioneering, and now world famous CPR practise manikin in 1960, the Resusci Anne; many more innovative products have followed to improve and support education for Healthcare Professionals around the world, as well as facilitate the spread of CPR knowledge and skills to the would be Samaritan in the wider lay community.

Laerdal has developed break-through technologies that have helped to define its portfolio of simulation, micro-simulation, virtual reality, automated external defibrillators and emergency therapeutic products as reputable market leaders. Other well known brands include SimMan, SimBaby, SimNewB, HeartStart, Q-CPR, Stifneck, the Pocket Mask and BaXstrap.

Learn more at www.laerdal.com/gb/
Gaumard Scientific Company has designed and marketed simulators for healthcare education for more than 60 years worldwide. The military emergency medical services major teaching hospitals and nursing schools recognize Gaumard products for their innovation in simulation of the prehospital obstetric and gynecology surgical and nursing care segments.

In 2000, Gaumard launched their revolutionary family of Noelle maternal and neonatal care simulators that changed the way training is conducted. In 2004 Gaumard were the first to develop the use of fully tetherless technology with the introduction of the family of HAL simulators. In 2014 the company presented Victoria its most advanced mobile maternal/fetal simulator as part of the Noelle family. Gaumard manufactures its products at its world headquarters in Miami.

The company sells simulators through its own representatives in North America and through 200 distributors in 70 countries.

Nordic Simulators Oy is a Finnish company, which is specialized on simulation training facilities and audiovisual technology for recording the events. We utilize 3-D modeling while designing the functional, state of the art simulation premises, using the latest AV-technology to capture video and sound. As an efficient, modern learning tool, simulation is perfect training method for medicine/healthcare, rescue, military and security education.

Our experience in designing, planning and executing simulation facility projects ensures the best result, both from technological and pedagogical aspect. With the latest technology and our skilled staff, Nordic Simulators Oy is offering high quality and functional simulation experiences to our customers.

Simulab is a practical engineering and manufacturing company—with a bit of mad scientist thrown in for good measure. Our goal over the past 22 years has been to create easy-to-use, portable, affordable, and clinically-relevant substitutes for both animal and human subjects used in medical training.

And we have succeeded.

TraumaMan® and CentraLineMan™ are the most widely used trainers, worldwide, in their respective fields. But the best is never good enough. Simulab is constantly pushing the bounds of human realism. Our mission is to create a human mimic so perfect that participants will feel truly immersed—in every procedural training. Each day we get a little closer.
BUG-BUSTERS TECH TROUBLESHOOTING COMPETITION

Are you a master specialist of the simulation technology arts? Know you have what it takes to become the Highlander of SimGHOSTS? (There can be only one). Then grab your packs and sign up for the “Bug-Busters” Simulation Technician Troubleshooting competition. Sign up for the challenge during the survey portion.

THE CHALLENGE

Participants will have 10 minutes to diagnose and repair multiple system issues in a clinical simulation room dealing with 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, as well as have chances for points via trivia questions.

COMPETITION SCHEDULE

Bug-Busters rounds will take place on July 19th and 20th during morning and afternoon breaks, as well as during lunch.

Final Round will take place at the end of the day on July 20th, 5:00 PM - 6:00 PM during our Awards Ceremony.

The Finalists will be the top participants as judged by the Competition Coordinator and the SimGHOSTS Board. Final competitions will be livestreamed the main auditorium, where the entire SimGHOSTS audience enjoy the thrills of the finals!

PRIZES

Grand Prize: Free Registration to SimGHOSTS 2017 Event

2nd Prize: £70 Amazon Gift Card

3rd Prize: £35 Amazon Gift Card
JULY 18: PRE-SYMPOSIUM

1:00 PM  REGISTRATION OPEN

1:00 PM  PRE-SYMPOSIUM WORKSHOP
P4 - TRAUMAFX COMPREHENSIVE MOULAGE COURSE - £75
MOULAGE TECHNOLOGY

P2 - SIM TECH CAREER BOOSTER
MANAGEMENT

P3 - AN INTRODUCTION TO APOLLO AND VIVO (EXTENDED) - £20
SIMULATION TECHNOLOGY

5:00 PM  END OF PRE-SYMPOSIUM WORKSHOPS
<table>
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<tr>
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<tr>
<td>8:00 AM</td>
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<td>8:30 AM</td>
<td>WELCOMING REMARKS</td>
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<td>9:00 AM</td>
<td>TO BOLDLY GO - THE PAST, PRESENT, AND FUTURE OF HEALTHCARE SIMULATION</td>
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<td>10:00 AM</td>
<td><strong>SESSION BLOCK A</strong></td>
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<tr>
<td></td>
<td>A1 - APPLYING TECHNOLOGY, SOFTWARE AND GOOGLE APPS TO SIMULATION</td>
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<td>INFORMATION TECHNOLOGY  PAGE 19</td>
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<td>A2 - HOW CAN WE ENGAGE FACULTY IN SIMULATION BASED LEARNING?</td>
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<td>A3 - EXPLORING THE POSSIBILITIES FOR DRONE CAMERA USE IN MENTAL HEALTH SIMULATION</td>
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<td>AUDIOVISUAL TECHNOLOGY PAGE 19</td>
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<td>A4 - PALLIATIVE CARE ‘SIMULATED END OF LIFE SCENARIOS’ - THE MOULAGE ARTISTS ROLE.</td>
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<td>B2 - SIMGHOSTS: A NEAR-TECH EXPERIENCE</td>
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<td>B4 - GIVING SIMMAN A VOICE – THE USE OF COMPUTER GENERATED SPEECH</td>
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<td>B1 - DASHING TO EMBED SIMULATION IN TRUST CULTURE</td>
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<td>B3 - IMPROVING THE FIDELITY OF MENTAL HEALTH SIMULATION</td>
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<td>MOULAGE TECHNOLOGY  PAGE 20</td>
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<td>12:00 PM</td>
<td>LUNCH &amp; EXHIBIT HALL OPEN</td>
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<td></td>
<td>V1 - MEET YOUR VENDOR: CAE HEALTHCARE</td>
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<td>V2 - MEET YOUR VENDOR: SIMNEXT</td>
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<td>1:00 PM</td>
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<td>G1 - AN INTRODUCTION TO APOLLO AND VIVO - CAE HEALTHCARE</td>
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<td>SIMULATION TECHNOLOGY  PAGE 22</td>
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<td>G2 - #THERESANAPPFORTHAT: USING APPS TO TRAIN CLINICIANS</td>
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2:00 PM  SIMNEXT: DIY PROJECT SHOWCASE & POSTER EXHIBITION

3:00 PM  SESSION BLOCK C

C2 - FULL BODY MOULAGE FOR EMERGENCY TRAUMA SIMULATION

MOULAGE TECHNOLOGY  PAGE 24

C3 - VIRTUAL REALITY WORKSHOP: THE TOOLS YOU NEED TO DIVE IN

INFORMATION TECHNOLOGY  PAGE 24

C4 - TRAUMAFX MOULAGE DIY CASSIM FORUM - £12

MOULAGE TECHNOLOGY  PAGE 24

C1 - ROTHERHAM COLLEGE: GROWTH BY UTILISING STUDENTS & NHS

SIMULATION TECHNOLOGY  PAGE 24

5:00 PM  CLOSING REMARKS & GROUP PHOTO

7:30 PM  OPENING RECEPTION & NETWORKING EVENT  PARTY BUS!
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<td>8:00 AM</td>
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<td>WELCOMING REMARKS</td>
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<td>GETTING TO THE &quot;WHY&quot; IN SIMULATION</td>
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<tr>
<td>10:30 AM</td>
<td>D1 - SIMULATION CENTRE DESIGN WITH CAE HEALTHCARE</td>
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<td>SIMULATION TECHNOLOGY PAGE 27</td>
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<td>D3 - PLUG’N SIMULATE - SET UP A HIGH-END AV RECORDING &amp; DEBRIEFING SYSTEM IN JUST 15 MINUTES?</td>
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<td>AUDIOVISUAL TECHNOLOGY PAGE 27</td>
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<td>D2 - THE THINGS THAT NOBODY SHOWS YOU (UNTIL TODAY): LAERDAL</td>
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<td>D4 - DEMONSTRATION OF A NOVEL ADJUNCT TO CHEST TUBE SIMULATION TO ASSESS POST-INSERTION TROUBLESHOOTING - SIMNEXT</td>
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<tr>
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<td>E2 - INTRODUCING THE Q-SYS AUDIO SYSTEM INTO HEALTHCARE SIMULATION</td>
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<td>E1 - THEN, NOW AND THE FUTURE!</td>
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<td>MANAGEMENT PAGE 28</td>
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<td>E3 - LOCKED UP: THE ROLE OF TECH IN MENTAL HEALTH SIMULATION ON SECURE PSYCH. UNIT</td>
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<td>AUDIOVISUAL TECHNOLOGY PAGE 28</td>
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<td>E4 - RESEARCH CONCEPTS FOR THE HEALTHCARE SIMULATION TECHNOLOGY SPECIALIST</td>
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<td>12:30 PM</td>
<td>LUNCH &amp; EXHIBIT HALL OPEN</td>
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<td>1:30 PM</td>
<td>VIRTUAL REALITY – HOW VISR:VR ARE PUSHING THE BOUNDARIES</td>
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<td>2:30 PM</td>
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### JULY 20 - AFTERNOON, CONT'D

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<tr>
<th>Time</th>
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<tr>
<td>3:00 PM</td>
<td><strong>F3 - TRAUMAFX MOULAGE LIVE TUTORIAL SESSION - £12</strong></td>
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<td>MOULAGE TECHNOLOGY</td>
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<td><strong>F2 - THE ESSENTIAL AUDIO BOOTCAMP - AN INTRODUCTION TO AUDIO TOOLS</strong></td>
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<td><strong>F4 - THE GROWTH AND DEVELOPMENT OF A REGIONAL SIMULATION TECHNICIAN COMMUNITY AND ANNUAL COLLABORATIVE EVENT</strong></td>
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<td><strong>F1 - MODDING YOUR SIMSUITE ON THE CHEAP...</strong></td>
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<td>5:00 PM</td>
<td><strong>BUG-BUSTERS FINALS &amp; AWARDS CEREMONY</strong></td>
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PRE-SYMPOSIUM WORKSHOPS: JULY 18, 1:00 PM - 5:00 PM

**P2 - Sim Tech Career Booster**

**MANAGEMENT**
Room Assignment TBA

- Chris Gay
- Stuart Riby

**LEARNING OBJECTIVES**
- Learn about Job descriptions and what they mean
- Learn about abstract writing and academic ways of working
- Learn about how to super charge your job with networking, training and behaviour

Job descriptions - look at group jds and critique them, showing how jobs are scored and pay bands are assigned; Abstract writing and Academic work - how to write abstracts to enter for conferences, and how to introduce academic thinking into your daily work; Education and training - a run down of standards and which training packages are out there for simtechs; Networking and how to do it - tips on how to use networking to help with your role; Essential SimTech behaviours - a run down of habits that will contribute to a happy and challenging sim tech career

**P3 - An Introduction to Apollo and Vivo - £20**

**SIMULATION TECHNOLOGY**
Room Assignment TBA

- CAE Healthcare Representatives

**LEARNING OBJECTIVES**
- CAE Healthcare Representatives

This hands-on course will review the most common tips and tricks for identifying and resolving issues with patient simulators. Lessons learned can be put to use across the full array of patient simulators. This session will include setting up, breaking down, cleaning and maintenance and further "under the hood" exploration to both of these new hardware and software platforms from CAE Healthcare.

**P4 - TraumaFX Comprehensive Moulage Workshop - £75**

**MOULAGE**
Room Assignment TBA

- TraumaFX Representatives

**LEARNING OBJECTIVES**
- Identify moulage techniques suitable for live role players or manikins.
- Describe possible uses for SIMWOUNDS and SIMSCULPT
- Explain bruising moulage techniques

This is an intensive 4-hour session concentrating on 3 key casualty simulation skills, focusing on live active demonstrations and group and individual practical sessions, using quality products and clever techniques, all make-up effects can be used on role play actors or mannequin patient simulators.

- Session 1; Bruising and Swelling Applications
- Session 2; SIMWOUNDS & SIMSCULPT Applications, Blood Effects
- Session 3; Flash Burns and Blisters

These extended sessions allow participants to get an in-depth, hands-on experience on a particular topic.

Space is limited for these exciting and informative workshops!
Bio: Lance Baily is an innovator and thought leader in the world of healthcare simulation. Using his background in digital media production and EMS fire fighting, as well as his work as a Simulation Technology Specialist, Lance founded several of the world's leading websites, organizations, and events in the field of healthcare simulation. Lance also served as the inaugural Director of the Nevada System of Higher Education's massive multi-institutional Clinical Simulation Center of Las Vegas. Desiring to make a global impact, Lance founded what has become the world's most-read medical simulation resource website: HealthySimulation.com.

Never satisfied with the status quo, Lance went on to create SimGHOSTS.org, a non-profit organization that supports professionals in the healthcare simulation industry through hands-on training events, online resources, and professional development. Because of overwhelming global demand, SimGHOSTS now operates four annual events, including ones in the United States, the United Kingdom, Australia, and the United Arab Emirates. SimGHOSTS has also forged successful affiliations with simulation organizations all over the world, including SSH, ASPE, ASPIH, Simulation Australia, and IPSS. In a drive to create excellence, SimGHOSTS has recently partnered with INACSL to develop a new professional competency standard for the position of Healthcare Simulation Technology Specialist.

Lance continues to be a change-maker and innovator in the field of healthcare simulation. All of his projects and efforts are based on a core belief: that emerging technology can create community and empower people to solve bigger problems faster.

Abstract: In his best selling book Outliers, Malcolm Gladwell examines the factors that contribute to high levels of success. Gladwell considers why the majority of Canadian ice hockey players are born in the first few months of the year, how Microsoft co-founder Bill Gates achieved his extreme wealth, and why the Beatles became one of the most successful musical acts in human history. Throughout his book, Gladwell theorizes how historical and cultural circumstances can pave the way for such phenomenal success.

What can the healthcare simulation industry learn from a similar exploration of its own past, present, and future? Simulation Evangelist Lance Baily has applied Gladwell's theories to our industry and will explain why his projects, including HealthySimulation.com and SimGHOSTS.org, have made such huge global impacts in just five short years. By understanding the core truths behind the success of these projects, participants will take away valuable arguments they can use to advocate for the expanded use of simulation in their own home institutions.

Finally, Lance will explore how the historical and cultural forces that are now in motion will transform healthcare simulation as we know it from a small community of early-adopters to a universal standard embraced by all.
A1 - Applying technology, software and Google apps to simulation Centre teaching, learning and management

Using a variety of information technologies and computer software, the Simulation Team at MacEwan University created a series of educational applications that fostered instructor teaching, enhanced student learning, and improved the Simulation Centre management functions. The presenter will demonstrate software uses including Adobe, Google Apps and Office Tracker as they were applied to various projects. Strategies for change in order to leverage these technology benefits are outlined.

LEARNING OBJECTIVES

Apply technology methods that will allow for the creation, gathering, distribution to multimedia virtual labs.

Understand how to use office tracker to set up lab booking system.

Set up a Student Booking Request System using google apps- google form, site, drive etc.

A2 - How Can We Engage Faculty in Simulation Based Learning?

Engaging Faculty in simulation based learning is a challenge for all simulation centres. The reasons for the challenge are multifactorial and include a lack of awareness, poor understanding of simulation, perceived complexity, cost and fear. This presentation suggests some ways to address these challenges by offering some simple solutions around marketing, engagement with simulation equipment providers, educating faculty and simulation centre staff and research opportunities.

LEARNING OBJECTIVES

To recognise the importance of engaging faculty in simulation

To list the barriers to engaging faculty in simulation

To offer solutions to the problem of engagement and benefit your centre

A3 - Exploring the possibilities for drone camera use in mental health simulation

Following a donation from The Worshipful Company of Information Technologists (WCIT) in January 2015, Maudsley Simulation were able to purchase an Unmanned Aerial Vehicle (drone), and have since been exploring how the use of this technology might allow the boundaries of mental health simulation training to be expanded. We would like to share our experiences to date; of planning a scenario with a drone camera, some of the challenges we have faced along the way, our technology choices, as well as some of the footage we have captured.

LEARNING OBJECTIVES

To gain an understanding of the technical and logistical challenges of using a drone camera in simulation training

To gain an understanding of the legal restrictions imposed on drone operation

Increased confidence and knowledge in the planning of a simulated scenario using a drone camera

A4 - Palliative Care ‘Simulated End of Life Scenarios’: The moulage artists role.

The team at Rotherham College has created a series of palliative care scenarios for use training students and clinicians on end-of-life care. Come learn about the moulage and theatre techniques they use to help teach compassion, sensitivity and safety for these difficult situations.

LEARNING OBJECTIVES

Kelly Carr
B1 - DaSHing to embed simulation in Trust culture

**MANAGEMENT**
Room Assignment TBA

Liam Wilson

**LEARNING OBJECTIVES**
Understanding of the challenges faced in management of a new simulation hub

Tips and tricks on how to embed simulation within a Trust culture

Importance of advanced preparation for a successful business plan

I took up the challenge of introducing and sustaining across a large district hospital spread over 3 sites as Clinical Simulation Project Lead. I will like to share how I led the simulation team that worked very hard to embed multi-disciplinary professional training utilising simulation as educational tool. The other daunting task was to submit a business plan at the end of the year to make this post as permanent one. Numerous challenges, teamwork to overcome hurdles, sharing of successes and failures and finally progress so far is discussed below.

B2 - SimGHOSTS: A Near-Tech Experience

**SIMULATION TECHNOLOGY**
Room Assignment TBA

James Cypert

**LEARNING OBJECTIVES**
Participants will identify and categorize the major components of the Technology Acceptance Model (TAM).

Participants will synthesize an understanding of Technology Acceptance Model (TAM) as a founding principle for the developing a professional simulation team in healthcare education and simulation environments.

Participants will compare and contrast the various roles that make up a quality simulation team and identify specific methods to acquire and maintain the skills and expertise required for successful implementation.

Despite the tremendous advances in technology; acceptance by the end user is not a foregone conclusion. Behavioral intent to use a technology can present a large barrier to an innovations effective and efficient implementation. This course explains the use of the Technology Acceptance Model (TAM) and how a skilled and competent Healthcare Simulation Technology Specialist can overcome barriers to technology implementation. James will share endeavors and course designs that seek to enhance the skills, knowledge, expertise of the professional simulation community. Providing comprehensive overview of the TAM and how it applies to the professional simulation community, James will explain the in terms of tasks, capabilities, and skill sets what is required to effectively and efficiently produce and operate successful training and education through healthcare education/simulation environments.

B3 - Improving the fidelity of Mental Health Simulation (and how it affects the learning)

**MOULAGE TECHNOLOGY**
Room Assignment TBA

Gareth Evans
Kiran Virk
James Pathan

**LEARNING OBJECTIVES**
Technical and logistical challenges of recreating a wide variety of environments with limited space.

Sourcing props on a limited budget, creative ways to add realism to scenarios

The value and affects of realistic set dressing and moulage on the learning outcomes of mental health scenarios

Maudsley Simulation strive to create a wide range of realistic, mental health-focused, scenarios that look, sound, feel, smell like the real thing. Our aim is to create immersive environments to enhance the learning objectives of our courses. This can be a challenge on a limited budget and with the limited space of our Sim centre, but the rewards are improved fidelity and greater learning. We would like to share the various creative ways we have found to enhance the realism of our scenarios, some of the pitfalls we have encountered and some of the positive affects our efforts have had.

B4 - Giving SimMan a Voice, Ai the use of computer generated speech

**SIMULATION TECHNOLOGY**
Room Assignment TBA

Clare Sullivan

**LEARNING OBJECTIVES**
To learn how to create computer generated vocals

To become familiar with developing custom speech for SimMan

To become more familiar with SimMan programming

SimMan comes with a list of pre-recorded speech options. These are useful but limited in the range of phrases SimMan can say. Planning phrases and arranging an actor to record new phrases can be time consuming. Through the use of online speech generation and the programming software which comes with SimMan, a larger range of custom phrases can easily be generated and input into SimMan scenarios.
At SimGHOSTS, we believe Simulation Technology Specialists are the real “end-users”. Wish you could ever sit down with your vendor and share your concerns or your suggestions? Well come join us at this facilitated session to share with your vendor technical and constructive feedback about their products and services.

A mission of SimGHOSTS is to help speed up technology adoption and be a bridge for the medical simulation technical community and manikin manufacturers. Make suggestions to improve software manipulation and hardware utilization. This time is also saved to provide more opportunity to engage with the vendor exhibit area.
G1 - An Introduction to Apollo and Vivo - CAE Healthcare

SIMULATION TECHNOLOGY
Room Assignment TBA

CAE Healthcare Representatives

LEARNING OBJECTIVES

This hands-on course will review the most common tips and tricks for identifying and resolving issues with patient simulators. Lessons learned can be put to use across the full array of patient simulators. This session will include setting up, breaking down, cleaning and maintenance and further "under the hood" exploration to both of these new hardware and software platforms from CAE Healthcare.

G2 - #theresanappforthat: Using apps to train clinicians - SIMnext

INFORMATION TECHNOLOGY
Room Assignment TBA

SimNext Representatives

LEARNING OBJECTIVES

At the end of this learning event, the learner will identify a current training that can transform into an app.

At the end of this learning event, the learner will innovate a new mode of education.

At the end of this learning event, the learner will build a plan to apply new technology to traditional training.

Technology continues to transform and influence healthcare equipment training. A growing workforce of new age innovators fill our institutions and it is vital for the training and education we provide to be as transformational and influential as is expected. A large Midwestern healthcare system invested their efforts to develop an innovative, immersive, mobile training platform for new and novice clinicians.
DIY PROJECT SHOWCASE & POSTER EXHIBITION
SPONSORED BY

A chance for you and your colleagues to share projects, programs, best practices and more! We’ll be handing out an audience-selected "People's Choice" Award as well as an SG-ASPiH "Best In Show" Award.

Poster & Project Submissions still being accepted here!
C1 - Rotherham College: Growth By Utilising Students & NHS

**MANAGEMENT**
Room Assignment TBA

**Kelly Carr**

**LEARNING OBJECTIVES**
Recognise the benefits and impact of partnerships for both sectors. Further Education Media Hair and Make-up departments and the NHS.

Appreciate the importance of sharing professional practice and creating work experience opportunities for college students.

Appreciate the benefits of implementing Clinical Simulation/Moulage into FE and HE Curriculum.

Sharing good practice via two presentations from the team at Rotherham College!

Part 1: Further Education College partnerships with NHS Clinical Simulation Departments. The Rotherham College Media Hair and Make-up department Journey- ‘Moulage for Manikins’

Part 2: The use of Prosthetic overlays for manikins in simulation – Ageing, Burns, Stroke, Trauma Injuries, Anaphylaxis, Self Harm.

C2 - Full body moulage for emergency trauma simulation

**MOULAGE TECHNOLOGY**
Room Assignment TBA

**Todd Dadaleares**

**LEARNING OBJECTIVES**
How to access under the skin of hi fi simulators to create swelling or believable internal injuries and what to use for materials specific to the case.

How to approach moulage like an artist-by matching color expertly.

How to clean up a very messy, moulaged simulator in time for a quick turnaround-using appropriate, specialized materials.

Learn to create intensely realistic moulage for a full body trauma patient. Learners will be provided insight on creating facial swelling, bruising, malformations of bone and bloodied, burned skin. Using SimMan3G as our model simulator, moulage skills will be demonstrated live while supported with videos and images of other traumatized high fidelity simulators. Learners will work in teams to moulage sections of a multi-traumatized patient. Silicone wound creation for adhering to mannequin and specialized blood materials will be used. A color study and matchup will take place to create appropriately, fresh hematomas, bleeding and bruising.

C3 - Virtual Reality Workshop

**SIMULATION TECHNOLOGY**
Room Assignment TBA

**Chris Gay**
**Stuart Riby**
**VISR:VR Team**

**LEARNING OBJECTIVES**
What Virtual reality can be used for

What VR tool are available to simtechs

How to get started in VR

A workshop on virtual reality covering the following points- Intro to VR VR in Healthcare VR experiences (hands on) Using VR properly (hardware, software and pedagogy) Content Creation Introduction Content Creations Sessions Content Creation Demos Summary and close Attendees of the workshop may be given a free SG ASPIH Branded Google Cardboard Headset

C4 - TraumaFX Moulage D1Y CASSIM Forum - £12

**MOULAGE TECHNOLOGY**
Room Assignment TBA

**TraumaFX Representatives**

**LEARNING OBJECTIVES**
Practical open forum session, meet the Trauma FX team take part in demos, opportunity to get hands on with the products and discuss your CASSIM requirements:
PARTY ON THE BUS!
We'll be riding the bus around London, seeing the sights and stopping at a few locations for photo opportunities. It will be a great way to see the city without bothering with walking or the Tube!

NETWORK & CELEBRATE OUR COMMUNITY
One of SimGHOSTS' and ASpiH's goals is to bring people together, forging connections to create national and international partnerships. Our evening reception and party offers SG-ASPiH16 attendees the chance to get to know others working in healthcare simulation technology, all while having some fun!

KARAOKE & DRINKS!
We'll have drinks to enjoy as we cruise, as well as karaoke!

Tickets are £20 for an evening full of fun and sightseeing!

WOO HOO! PARTY TIME!

TUESDAY, JULY 19, 7:30 PM - 9:30 PM
SIMGHOSTS PLENARY ADDRESS
GETTING TO “WHY” IN MEDICAL SIMULATION

Framed as a philosophical discussion, Getting to “Why” in Medical Simulation poses questions about “What” keeps simulation engaging, “Where” advances in simulation are headed and “Who” we are as simulation specialists. Todd will share his career arc through 12 years of experiential growth and tie together the motivation and reasoning behind a simulation education career path.

Clinical success stories will be linked to the preparation of the specialist, the technology used and “How” steering scenarios toward learning objectives brings educational events to life for all involved — including the simulation specialist. Conceptual questions will be asked and answered about “Why” we think simulation even matters and “Where” we find methods to teach with it.
## SESSION BLOCK D: JULY 20, 10:30 AM - 11:20 AM

### D1 - Simulation Centre Design with CAE Healthcare

**MANAGEMENT**

Room Assignment TBA

CADE Healthcare Representatives

**LEARNING OBJECTIVES**

This course will take a look at considerations that should be taken when designing and developing your simulation centre. How can you utilise the space available efficiently and how can other features such as audio visual systems feature.

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### D2 - The Things That Nobody Shows You (Until Today):

**Laerdal Medical**

**SIMULATION TECHNOLOGY**

Room Assignment TBA

Laerdal Medical Representatives

**LEARNING OBJECTIVES**

Of course we have all read the directions for use from cover to cover. We remember every word the engineer uttered during the commissioning of the equipment. Well for those of us that haven,Äôt or don,Äôt, this session should come in handy. The Laerdal Services Team will run through a selection of hints and tips to enable you to get the best out of your simulator. It will include items that defiantly are not in the DFU!

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### D3 - Plug’n Simulate – Set Up A High-End AV Recording & Debriefing System in Just 15 Minutes?

**AUDIOVISUAL TECHNOLOGY**

Room Assignment TBA

SimStation Representatives

**LEARNING OBJECTIVES**

SIMStation's aim is to set new standards in the field of audio-video recording and debriefing for simulation. Our clients agree that in AV quality and ease-of-use, SIMStation outperforms even the most complex AV installations in fixed simulation facilities. Moreover, you won't believe how extremely easy SIMStation is to set up at any training location. SIMStation is not only the ideal choice for in-situ trainings, but also for fixed simulation centers who are considering affordable AV-systems. In this session our team will demonstrate how the SIMStation system can be set up in 15 minutes, followed by a live, multi-room, mobile simulation scenario and a debriefing, controlled by SIMStation's unique and innovative debriefing tablet including live audience feedback. Must attend course for those looking for in-situ and new A/V recording systems!

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### D4 - Demonstration of a novel adjunct to chest tube simulation to assess post-insertion troubleshooting - SIMnext

**SIMULATION TECHNOLOGY**

Room Assignment TBA

SIMnext Representatives

**LEARNING OBJECTIVES**

Chest tube drainage devices are a common therapy for patients in and out of the hospital setting. Clinicians are traditionally taught about troubleshooting the device at the patient’s bedside during a rarely-occurring troubleshooting event. ideally, clinicians should be proactively prepared to respond in these rare events. Simulators paired with our reactive drainage device trainer provides the learner a realistic troubleshooting experience. This experience provides the learner with real-time feedback based upon the chosen intervention. This novel approach to training allows learners to make potential errors or delays in care in a safe learning environment.
E1 - Then, now and the future!

Clinical Skills and Simulation Technicians/Technologists in the UK have come a long way in the last 3 years - numbers are growing, networking is having a greater impact through groups, forums and social media, professional registration is on the horizon, technicians are at last being recognised as faculty and not just part of the facility........ however the journey is only just starting!

LEARNING OBJECTIVES

- Have a greater awareness of the organisations, groups, networks and individuals that are supporting technicians
- Help identify and access training courses, sessions appropriate to the role
- Better understand the opportunities and routes towards professional development and registration

Jane Nicklin

E2 - Introducing the Q-Sys Audio System into Healthcare Simulation

At the Hull Institute of Learning and Simulation (HILS) we have recently had a major upgrade to our audio system with the aim to enhance the live viewing, debriefing and management of the audio within our scenarios. Q-Sys - a professional audio system previously used for theme parks, stadiums, shopping centres etc - is the first installation of its kind within healthcare simulation. We will discuss why we felt the need to upgrade, the challenges before during and after the installation, how it works for users and ourselves (Technicians) and how it has improved the simulation experience in our centre.

LEARNING OBJECTIVES

- To show the improvement of having an improved audio experience can have on the learning experience within simulation training.
- To once more show the positive effects of allowing the technical specialists seek out and integrate new technologies and processes.
- To learn about the professional audio system Q-Sys - positives, challenges and everything inbetween.

Stuart Riby
Chris Gay

E3 - Locked Up: The role of tech in mental health simulation on a secure psychiatric unit

Part 1: We would like to demonstrate the positive outcomes achieved by a series of 'in situ' mental health simulation sessions on a secure psychiatric ward. Part 2: As this process was labour intensive for, and highly reliant upon the tech team, we would like to share our reflections on the challenges and merits of running such training in these environments.

LEARNING OBJECTIVES

- Understanding of the potential value of in situ simulation in secure psychiatric settings
- Understanding of the challenges faced in planning and delivering in situ simulation training in difficult and unpredictable environments
- Understanding how to prepare for and overcome such challenges in these environments and other similar settings

Chris Attoe
Kiran Virk
James Pathan
Gareth Evans

E4 - Research Concepts for the Healthcare Simulation Technology Specialist

Research is not something limited to only the sciences, anyone who desires to get a deeper understanding of a topic or concept. Each of us do research in various ways, it can be to help us be creative, to find a way of doing something, to buy a house, to find the best product. However, the research concepts covered in this course are based on principles that are systematic, recorded properly, and are peer-reviewed so that we can be more confident in the quality of what is reported. The participants will be guided through some peer-reviewed research articles that relate to simulation and technology. Topics will range from how to find research, how to review research properly, and how to assess and interpret what is being reported in research articles, and then identify ways to use research to support...
PLENARY ADDRESS
VIRTUAL REALITY - HOW VISR:VR ARE PUSHING THE BOUNDARIES

Based on the campus of The University of Hull, VISR:VR provides complete Virtual Reality Solutions.

Alumni of Microsoft Ventures (VISR developed the SDK for VR applications for Windows phones) and closely aligned with Google (we design and manufacture most of the google cardboards in the UK), we are working to democratise this brave new visual medium and bring it as quickly as possible to a mass audience.

Creating content in filmed and CGI mediums:
1) Filmed - we have already developed our own 360 camera rig and are now prototyping an affordable VR camera
2) CGI – VISR is underpinned by videogame developers

In effect we are making virtual reality a reality.

Our aim is to disrupt how we currently see the world by using our own technologies.

Come and ask our global experts how VR is going to open up a whole new world of possibilities.
## F1 - Modding your simsuite on the cheap...

**SIMULATION TECHNOLOGY**  
Room Assignment TBA  

**Paul Wilder**

**LEARNING OBJECTIVES**

- How to make a handful of specific effective modifications to your simsuite
- Setting off creative thinking in other ways to improve your sim suite
- Thinking clearly about what would improve fidelity in your sim sessions

This presentation will show you a handful of the simple, cheap but effective modifications and enhancements we have made to our simulation suite at Frimley Park Hospital to allow us to get the best out of running high-fidelity simulations in it. All of these will be shown with photos and explanations to allow you to easily replicate them in your centre, if you haven’t already come up with something better yourself!

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## F2 - The Essential Audio Bootcamp: An introduction to audio tools: Microphone to mixer to amplifier

**AUDIOVISUAL TECHNOLOGY**  
Room Assignment TBA  

**Todd Dadaleares**

**LEARNING OBJECTIVES**

- Learning how audio is transmitted, stored and projected will improve your ability to share information with learners. Learner communication is a key aspect to healthcare simulation objectives. Capturing, reviewing and improving this communication will decrease errors and improve patient outcomes. Demonstrating how learners are performing and interacting is of vital importance to outcomes in a simulation session and of equal or greater importance than video observation in many encounters.

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## F3 - TraumaFX Moulage Live Tutorial Session - £12

**MOULAGE TECHNOLOGY**  
Room Assignment TBA  

**TraumaFX Representatives**

**LEARNING OBJECTIVES**

- Tutorial session in the creation of simulated injuries utilising the Trauma FX SIMSLEEVES demonstrating and executing the make-up and finishing touches to give the desired simulation from our, Nursing & Woundcare Range, SIMWAXES, SOFT PUTTY & SIMSCULPT:

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## F4 - The Growth and Development of a Regional Simulation Technician Community and Annual Collaborative Event

**MANAGEMENT**  
Room Assignment TBA  

**Gayle Mackie  
Scott Rudnicki-Bayne  
Michael McCrossan**

**LEARNING OBJECTIVES**

- This presentation proposal aims to encourage and guide the regional clusters of technicians working around the United Kingdom. The Scottish region have collaborated successfully for nearly four years and have established a close working relationship between simulation centres. We would like to share our experiences of developing our community and inspire confidence in other technical champions around the country in developing their own networks.
- To share the success and growth of the Scottish regional simtech community
- To demonstrate the use of social media and online forum for network development
- To encourage further membership and collaboration between networks