

IMSH DAILY

Monday January 23, 2023



JANUARY 21 – 25, 2023 | ORLANDO, FL

A STANDARD OF EXCELLENCE

President-Elect's Message

3

Research Summit

4

Press Box

7

Corporate Roundtable

8

Scholarship Winners

14



Haru Okuda, MD, President SSH

Sunday Plenary Focuses on Excellence

Sunday morning's plenary session at IMSH 2023 opened with a foundation built by this year's Planning Team co-chairs.

"As we look around the room, we are reminded that the field of simulation has come so far," began Jarrod Young. "We've matured from making it up on the fly to setting a new standard for our work, chiseling away to discover the best practices in a relatively unknown landscape. In recognition of the many milestones our professionals achieve, we chose *A Standard of Excellence* as this year's theme."

"As we think about setting a standard of excellence, it all starts with a unified approach," continued Linda Wilson. "In order to share the same mental model, we want to explore what excellence looks like to us. First, we recognize the importance of teamwork and communication in our roles. As we continue to reset this standard of excellence, we must

cultivate our team first approach, and collaborate across professional disciplines."

Sean Cavanaugh elaborated, "Working side-by-side with a common goal, we can set our sights to the future of simulation. We never rest on our laurels. We all feel a drive to test the limits and advance our fields. Excellence is the product of learning from and adapting to failures in our past; we'll achieve our goals when we learn to embrace failure."

"Once we set the fear of failure aside, we must be ready to answer the call to action," Young added. "This is the recognition that each member of our organization has a special skill to bring forward. Until we all step out and answer that call, we will not achieve the standard of excellence that we seek."

Cavanaugh summarized, "We are excited for what's next. There are endless possibilities.

continued on page 4



Sunday's Fun Run/Walk

facebook.com/ssih.org

hashtag #IMSH2023



See the SSH Events App for Schedule Updates



JOIN OUR LEARNING LAB



Sparking the Mind: Ideas for Getting the Brain Prepped for Learning

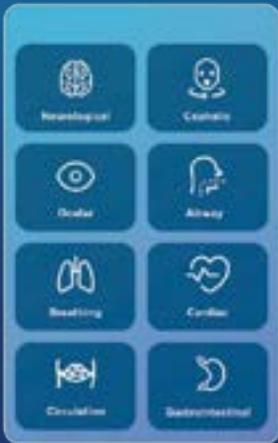
- Design and build effective precourse work for students
- Engage students before in-person sessions
- Foster a learning environment that continues outside the classroom

Monday | January 23 | 10 – 11 AM | Room: 220E

3B Scientific Group
Booth #311

HAL[®] S5301 MR

brings digital educational content into the real world
for an entirely new hands-on training experience.



See it first at
IMSH 2023

Booth #300

January 21st – 25th, 2023



Learn More



Gaumard[®]
Simulators for Health Care Education

Worldwide: +1-305-971-3790

USA and Canada Toll-free: +1-800-882-6655

PRESIDENT-ELECT'S MESSAGE

IMSH 2023—Your Opportunity to ‘Be BOLD’

IMSH 2023 is here! Following Sunday’s Opening Plenary and keynote speaker and the Exhibit Hall grand opening, the energy and excitement of the conference continues.

We have weathered a major paradigm shift in healthcare education during these past years fighting against the COVID-19 pandemic. Healthcare simulation education continues to forge ahead in its many forms to tackle these challenges for humankind as an essential force immersed in our worlds of teaching and learning.

We know the potential of simulation as it has been threaded into the fabric of essential healthcare training and support and validated through sound simulation-based research.

Healthcare simulation education must continue building on demonstrating its value, return on investment, and sustainability as we face diverse challenges towards achieving quality patient care, patient safety, and global workforce mindsets.

Collectively, we must continue our efforts to emphasize simulation outcomes through many essential advocacy pathways, including education, engineering, enforcement, and evaluation.

Given the abundant opportunities at IMSH 2023, how are you making the most of your experience? It is your opportunity to be **BOLD**:

Be bold—dare to be inquisitive and probe for answers and solutions in this exciting IMSH conference environment.

Open your mind to new, fresh ideas and thinking.

Leverage your learning by sharing with colleagues and coworkers both here at the conference and back home.

Dive into the multitude of sessions and presentations, industry trends and innovations, and networking opportunities. Build on your past relationships and make new connections in the global simulation communities.

Our SSH membership needs: **BOLD** solutions; fresh thinking; ambitious entrepreneurs; motivated politicians; and hospital, academic, and healthcare institutional leadership willing to make real sacrifices—all contributing elements to save healthcare and end the crisis in our healthcare workforce globally.

IMSH 2023 is truly a global conference, with many dozens of countries represented among attendees and exhibitors. The consequences of creating accessibility opportunities for resources to our international simulation communities of practice, including accreditation, certification, simulation dictionary, and educational webinars, is of paramount importance. In addition, fostering global alliances and international summits in the future will only strengthen our advancement of simulation in healthcare—all towards a caring, efficient, and effective delivery system for patient and societal care.

Making time to attend IMSH’s social events is a great opportunity to reconnect with old acquaintances as well as foster new collegial simulation global connections. Be sure to reach out to greet



Jayne Smitten, President-Elect



Our SSH membership needs: BOLD solutions; fresh thinking; ambitious entrepreneurs; motivated politicians; and hospital, academic, and healthcare institutional leadership willing to make real sacrifices

your global SSH colleagues. These connections can prove to be very valuable and collaborative, and lead to potential increased member engagement in research and revenue streams.

Embrace the myriad opportunities provided at our largest international healthcare simulation event of the year! I look forward to seeing you at the keynotes and sessions, in the Exhibit Hall, and at the social events.

Aloha!

Jayne Smitten, President-Elect
PhD, Med, CHSE-A, FSSH

IMSHDAILY

IMSH Daily is published live at IMSH 2023 by Tradeshow Media Partners in partnership with SSH and IMSH.

- facebook.com/ssih.org
- @IMSHdaily hashtag #IMSH2023
- society_for_simulation
- LinkedIn.com/company/society-for-simulation-in-healthcare-ssh-society_for_simulation

Editor: Scott Gourley
imshdaily@tsmpartners.com

Associate Editor:
Galia (Gail) Gourley, RN, BSN
imshdaily@tsmpartners.com

Art Director: Kirk Fetzer
kirk@fetzergroup.com

Photographer: Ed Rieker/Rieker Media
riekermmedia@gmail.com

Advertising Sales: Tom Reil
tom@tsmpartners.com

SSH/IMSH: Curtis Kitchen
ckitchen@ssih.org

Publisher: Mark Larson
mark@tsmpartners.com

© Copyright 2023 by SSH/IMSH and Tradeshow Media Partners



Research Summit Makes an Impact

The 2023 SSH Research Summit, the only pre-conference event of IMSH 2023, spanned Friday and Saturday, January 20 and 21, bringing together hundreds of participants in an event described by SSH staff as having never been seen in the healthcare simulation space.



Summit attendees focused on four goals: to establish evidence-based practice guidelines in simulation; to identify gaps in simulation-based research and define research priorities; to create working groups to develop research projects around the identified gaps and priorities; and to disseminate findings during the summit and through publications (SR, GL, methods) in *Simulation in Healthcare*.

Friday afternoon and Saturday morning, participants heard presentations that included findings, recommendations, and research priorities that spotlighted twelve groups of specific topic areas across the simulation space. These twelve groups were: mastery learning/deliberate practice/technical skills; feedback/debriefing; spaced learning/booster training/warm up/just-in-time training; self-guided learning/regulated learning/peer-to-peer learning; team training/non-technical skills training; in situ training (for training vs. process improvement); virtual reality/augmented reality/hybrid; distance simulation; standardized patients; simulation/simulator fidelity (task resemblance of reality); faculty development; and immersive virtual environments for summative assessment purposes.

Saturday afternoon's schedule featured dynamic group breakout sessions for all 12 groups, followed by the moderators from each describing their group's discussions, proposed research priority topics, and questions to address. Those discussions will shape additional conversations that will establish future healthcare simulation practice guidelines.

The number of participants in each group

ranged from 10 to 40.

Following the breakout sessions updates, Dimitrios Stefanidis of the 2023 SSH Research Summit Steering Group reviewed the goals, summarized other "hidden objectives," and described after-summit events.

Stefanidis said the first three goals identified had been accomplished and expressed appreciation to all participants for their "level of involvement and interest."

Regarding the fourth goal, to disseminate findings through publication, he said, "This is still work to do."

Stefanidis continued, "I do want to tell you that there were some hidden objectives, at least in my mind, when we organized this, and I think to some degree we achieved some of these. I thought one was to shake up the field. Then, we find that we're not where we think we are, and we need to get better." He added that other hidden objectives were to promote more collaborative research, go beyond publishing papers, and move the field forward.

"I'm pretty certain a lot of the work that's come out of this will inform future sessions in this meeting next year," Stefanidis said. "And we do hope that some of this eventually may even lead to submissions for proposals for funding, and again, hopefully make an impact."

Sunday Plenary Focuses... *continued from page 1*

And amazing discoveries lie ahead. We've come so far in such a short amount of time. And as we gather together this week, let's celebrate the past. Let's volunteer in the present. And let's create the future."

Young added, "You may have noticed the five individuals in our logo uniting at a common point. These five figures represent the five pillars of our society: administration, education, innovation, operations specialists and research. We want to recognize those individually also volunteering to represent their tracks in the content review process. Without these individuals we would be unable to offer such an exciting and impactful slate of educational opportunities."

The co-chairs also recognized the amazing efforts of myriad individuals who came together create a successful IMSH venue, ranging from content reviewers to the Society for Simulation in Healthcare (SSH) staff.

Matthew Marino, chief executive officer of Education Management Solutions (EMS) provided the plenary introduction for Haru Okuda, MD, President SSH.

Okuda opened on a somber note, referencing another shooting tragedy in the U.S. and acknowledging how the treatment of survivors helps to focus perspective on the importance of the work being performed by those in the audience.

The SSH President then shifted perspective, extending his personal thanks to volunteers and representatives across the organization.

He continued, "I also want to thank all of you in the audience. And I want to thank all the folks joining from home and all those of you who couldn't come last year because you're on the front lines doing the incredible work to support our patients."

Okuda then highlighted recent activities and key initiatives across several areas, including advocacy, global engagement, technology innovation, and the recent launch of the SSH Fund. He capped his remarks with a quick outline of SSH strategic priorities for 2023-2028.

Special emphasis was provided to the areas of accreditation and certification, with several SSH members providing representative examples of how those personal and organizational achievements have created positive impacts.

Jarrod Young then introduced this year's Chad Epps Lecture speaker, Joe Mull, while sharing some thoughts and memories surrounding the positive impact that Chad Epps had on so many.

"Whether it had been for ten minutes or ten years, to know Chad Epps was to feel individually heard, cared for, appreciated, and loved," he said. "Chad's journey in healthcare simulation touched countless lives through his role as a mentor, educator, leader, collaborator, and friend. Here, we highlight Chad's lasting impact which we all stand on today."



Ryan Leak

Monday Plenary Keynote Speaker

This morning's Lou Oberndorf Lecture on Innovation and Healthcare Simulation spotlights motivational speaker and author Ryan Leak at the Monday Plenary Session, beginning at 8:30 am. He will present an inspiring keynote entitled "Chasing Failure."

In a pre-conference video message addressing IMSH 2023 attendees, Leak said, "We were taught as kids to steer away from failure. But here's what I know about every single successful person that we look up to, admire, read about, or follow. They've all failed. They've all had setbacks, rejections, and things just not panning out how they planned. Yet, in spite of all that, they took out a pen and a pad and started taking notes."

Leak continued, "Sometimes, the very thing we've been taught to steer away from is the very thing I believe we should, dare I say, chase. Through my executive coaching practice, I've had the opportunity to work with Fortune 500 executives, professional sports teams, and medical professionals around the world. Through my extensive research with failure, experience with it, and the book I wrote on it, I'm going to take us through the lessons I believe every person can get when they go to 'failure school.' Failure has a class you don't want to miss, and lessons that can change your life."

In his new book, *Chasing Failure: How Falling Short Sets You Up for Success*, Leak blends personal stories, motivating anecdotes, relevant psychology, and practical step-by-step guidance to show how chasing failure just may be the quickest way to success.

Reaching over 50,000 people monthly through his keynotes, Leak has become a sought-after speaker, coach, and consultant with deep domain expertise in empowering leaders to reclaim a new self-awareness that enables them to connect with their people more effectively.

Leak is CEO of the Ryan Leak Group, a leadership development firm in Dallas, Texas.



Today at IMSH

Monday, January 23

Plenary Session – The Lou Oberndorf Lecture on Innovation and Healthcare Simulation featuring Ryan Leak

Plenary Hall – 8:30-9:45 am

Exhibit Hall Open

Exhibit Hall – 9:30 am -4:00 pm

Research Posters Displayed

Exhibit Hall – 9:30 am-4:00 pm

Technology Experiential Area

Exhibit Hall – 9:30 am-4:00 pm

Lunch

Exhibit Hall – 11:00 am -2:00 pm

SimVentors Showcase

Exhibit Hall – 11:00 am-2:00 pm

SSH Corporate Roundtable Learning Labs

Rooms 220C, 220D, 220E – 10:00-11:00 am; 2:00-3:30 pm; 4:00-5:30 pm

See the SSH Events App for schedule and topic updates



Scan Me

for our catalog and a chance to win an iPad!



**Cutting edge solutions
that take students from
the classroom to practice.**

BioDigital XR

Body Interact

Lippincott®
Medical Procedures



**Stop by for a
demo and a
chance to win
an Oculus headset!**



IMSH 2023 and SSH extend a warm welcome to the exhibitors who are new to IMSH this year.

- Medical Harbour ----- [Booth 743]
- Pristine Medical Corp. ----- [Booth 861]
- SIMBOOST ----- [Booth 967]
- KOTOBUKI Medical ----- [Booth 955]
- Monivent AB ----- [Booth 471]
- Neosim AG ----- [Booth 447]
- Simulation Man ----- [Booth 641]
- VEO ----- [Booth 958]
- Acadius ----- [Booth 148]
- AccessVR ----- [Booth 100]
- AVT Simulation ----- [Booth 966]
- Beck Design ----- [Booth 114]
- Best Practice Medicine ----- [Booth 253]
- Defense Health Agency Medical Simulation and Training Program Management Office --- [Booth 251]
- DLH Corporation **Fun Run sponsor** ----- [Booth 249]
- Elearning design center (MedVR Education) - [Booth 150]
- eTrainetc, LLC ----- [Booth 469]
- Engenium Inc ----- [Booth 568]
- Full Code Medical Simulation ----- [Booth 549]
- Intellectus Statistics ----- [Booth 1067]
- Lumis Corp ----- [Booth 962]
- Pedi-Ed-Trics Emergency
Medical Solutions, LLC ----- [Booth 1054]
- PHACON, Inc. ----- [Booth 475]
- RadSim ----- [Booth 446]
- sim2grow, LLC ----- [Booth 146]
- safeMedicate ----- [Booth 347]
- Sim Training Resource ----- [Booth 869]
- Sira Medical ----- [Booth 855]
- Syminar, Inc. ----- [Booth 1055]
- Worldpoint ----- [Booth 947]
- Xennial Digital ----- [Booth 1058]
- University of Missouri –
Shelden Clinical Simulation Center ----- [Booth 1048]

'Press Box' Returns at IMSH 2023

Located in the Exhibit Hall, the "Press Box" is returning for its second year at IMSH. The updated format includes live podcasting from the show floor.

According to Curtis Kitchen, director of marketing for the Society for Simulation in Healthcare (SSH), the concept reflects the reality of today's media climate.

"It's not always about trying to go find your earned media," he explained. "More and more it's producing your own media. And that understanding also

tent is awesome;' and 'thanks for doing this.' So we felt like we hit the right note, which led to discussions of how we might make it better for the second year."

He added, "Part of the reaction to the Press Box came from outside places and organizations, with people saying, 'That's so cool. Maybe we should start doing things like that at our own events?' And that's really great. But it also adds a little bit of pressure to keep ourselves at the front of this new game that we have created."

Reflected at IMSH 2023 is the recognition that the organization can leverage existing content outlets and channels rather than creating their own.

"We talked about it internally on the staff and

the idea of podcasts came up," Kitchen said. "We knew some healthcare simulation podcasts existed out there, and we started to whittle that down a little bit, thinking about how we might optimize that reality. And that led us to invite four industry podcasters to be a part of this year's Press Box."

Accommodating the podcasts led to a redesign of the physical space, with video activities at one end and four podcasters at the other end. The podcasters will be live for a set time each of the three days so that attendees will see the live content being developed.

"In essence it will become a busy hive of people moving in and out with lights and microphones," Kitchen summarized. "It will definitely add a little bit of flair to that corner of the Exhibit Hall."



supported some SSH marketing initiatives in areas like video production."

He said that the Press Box "started as 'a cocktail napkin idea' at SimOps 2021, noting, "At that July 2021 event, I tossed around some ideas with Lance Baily at HealthySimulation.com. I threw around some concepts and ideas from an internal perspective and he threw back some ideas based on his production background. And so the set idea was born. It's just one of those things that seems to check all the boxes."

The first appearance of the Press Box was at IMSH 2022 in Los Angeles.

"The attendee reaction was more than we were hoping for," Kitchen said. "We got a lot of 'that's really neat; that's a very cool addition to IMSH; the con-

Introducing vrClinicals for Nursing

CURRENTLY IN BETA

Immersive Virtual Busy Hospital

Practice Multi-patient Prioritization

Build Clinical Judgment Skills

Prepare Students for Practice

Visit Wolters Kluwer Booth # 747 and Laerdal Medical Booth # 401

Stop by to do an interactive Demo and enter to win an Oculus headset!



The Society for Simulation in Healthcare (SSH) Corporate Roundtable provides a dynamic interface between the simulation industry and emerging academic research while helping to inform the SSH Board of Directors about the activities and priorities of many of the Society's members.

According to Ryan Ribeira, MD, MPH and Chair of the SSH Corporate Roundtable, the group represents "a collection of interested industry representatives in the simulation community," with companies that choose to become part of the Roundtable given the opportunity to attend regular meetings designed to explore a broad range of industry issues.

"Importantly, the chair of the Corporate Roundtable sits on the SSH Board of Directors," he explained. "So, after the Roundtable meets as a group, the chair, and this year that's been me, can then coalesce that group feedback and information and bring that to the Board, so that SSH in general has something of a bead on what is happening within industry and what the needs and concerns are, both with regard to how industry interfaces with the organization as well as just what we see on the horizon for this industry as a whole."

Asked for his message about the wisdom of joining the Corporate Roundtable, Ribeira observed, "Something that might not be apparent, unless you're on the Corporate Roundtable, is that SSH does a phenomenal job of engaging with industry. And that makes sense. Simulation is a space where we have a long history of academic and industry collaborations...There are so many on the industry side who are involved because they are passionate about simulation as an educational modality. And there are so many on the educational side who are very well informed about issues in industry and technology. This might be a long way of saying it, but I think one of the things that might not be apparent until you join the Corporate Roundtable is that SSH really does listen to the voice of industry. And the Roundtable Chair has a seat at the table, on the Board of Directors, just like any other member of the Board. In fact, it might be a more influential seat, since SSH cares so much about the industry voice and I'm the only one there. So the Roundtable provides tons of opportunity to make sure that industry and education are aligned."



Ryan Ribeira, MD, MPH

Corporate Roundtable Leverages Innovation



"I think the important thing is making sure that, as we push forward, industry and academia are synchronized to where academia is aware of what's coming out in industry and industry is aware of the innovations coming out of academia..."

He added, "I think it is worth highlighting that, in the last year, we've been able to help out a lot on issues around advocacy, both within simulation today and also on advocating for the future of simulation technology. SSH has formed an Advocacy Task Force that I've been fortunate to be a part of, and

the members of our Corporate Roundtable have been able to provide input that has been influential in carving out funding for remote simulation and things like that within recent budget allocations, and is helping to push forward a number of pieces of legislation that are, I think, favorable towards the simulation community."

Ribeira continued, "Additionally, we've also been able to advance a proposal with SSH to put together a 'future of simulation' symposium, where industry leaders will have an opportunity to expose SSH leadership and leaders in the educational community to what is coming next in the world of simulation technology. I think that is really going to help make sure that we keep things in sync, and that we're able to continue to partner between academia and industry in an effective way over the next five to 10 years, when we'll probably experience a lot of change in simulation."

Looking toward some of those possible changes, the Roundtable Chair reflected on a broad spectrum of related technologies.

"I don't know if 'Renaissance' is exactly the right word, but I believe that this is a unique time for simulation," he said. "For decades, the simulation industry has provided incremental change, with improvements on existing technologies. However, starting about five years ago, I believe we entered a more transformational period, where we are innovating around the methods in which simulation is delivered, or even the concepts of what constitutes simulation, in ways that we have not seen, really, in decades—possibly since simulation technology proper was introduced in the 50s and 60s. So I really think this is a remarkable period of time."

As more technology examples, he highlighted the impacts of AR, VR, and MR technologies and their impacts on things like manikin trainers.

"I think the important thing is making sure that, as we push forward, industry and academia are synchronized to where academia is aware of what's coming out in industry and industry is aware of the innovations coming out of academia," he said. "That's how we're going to make sure that this doesn't become a scattered, disorganized mess, but that we're able to leverage each other's innovations to advance to the next phase as quickly as possible."

New VR Products from Surgical Science–Symbionix Simulators

Surgical Science – Symbionix Simulators [Booth 411] is highlighting a range of existing and new products in the IMSH 2023 Exhibit Hall.

“At every IMSH we try to introduce new products and show the greatest and latest that we have, which includes a long list of different virtual reality simulators,” offered Ms. Inbal Mazor, vice president for product management and marketing.

One of the new designs that will be highlighted at IMSH is Trauma VR, a mixed reality trauma simulation developed in collaboration with the military medicine community.

“The idea is to provide advanced intubation training that also comprises the pressure of the situation,” Mazor explained. “Of course it provides training on the [intubation] skills, but it also provides the feeling and the experience that you get with the situational pressure. So we

are using a unique technology that combines both the VR environment and a real manikin. It’s really a unique experience.”

Characterizing the combined technologies as “a big change for us,” she added, “I feel it reflects a paradigm shift in general simulation, where we started as more focused on surgery and minimally invasive procedures, but now, with this new technology, we can combine our knowledge of software simulation with manikin-based simulation. I think we can get something really unique in this role. This is the new fit for us and we will be adding more and more content and really grow this product as we do with all our other products.”

Other key technologies and capabilities on display involve robotic surgery simulation and pediatric ultrasound simulation.

“Robotics is a growing field,” Mazor said.

“And without the ability to train and learn the new techniques, it’s even difficult for experienced surgeons to enter this important field. Also, business-wise, it’s important to enter this field. So we are inviting anyone to try our robotics simulation. And we are also inviting people to try our pediatric ultrasound simulation.”

She concluded “We want people to know that we are open for collaboration and we are open to hear their needs. Also, we have no limitation in terms of technology. We don’t see limitations. We try to overcome every limitation because, when you deal with simulation, you need to deal with many barriers. We are trying to mimic real life, which is not really an easy thing.”



VISIT US AT BOOTH #114
AND LEARN HOW YOU CAN WIN
A COMPLIMENTARY FACILITY ASSESSMENT

At Beck design we will work with you to create a programmatic solution that is unique and responds to the technical needs of your building, students, faculty and staff. With offices located in Tulsa, Oklahoma City, and New York, we service clients throughout the United States.

www.beckdesign.com

Langston University Allied Health Facility - Tulsa, OK



Let's
talk about learning
YOU need.

Let's talk SSH EDUCATION

SSH is built on education. It's in our mission. It's what we do. We provide educational resources, events, and opportunities. We provide them to healthcare professionals just like you.

WHAT IS SSH EDUCATION?



SSH Education = Unparalleled, Top-Level Learning

In person and online, SSH provides unparalleled instruction and guidance through its SimSeries program and other webinars, events including IMSH and SimOps, access to research, and additional resources.



SSH Education = Events

IMSH is THE biggest, best event in the healthcare simulation industry. Couple it with SimOps, and SSH, along with its other offerings, is the unquestioned leader in relevant, high-quality events.



SSH Education = Research Info & Resources

An extensive resource library? Check. A living, growing, Knowledge Map? Got that, too. An International Simulation Data Registry? You bet. Those are just three core cogs to the SSH info machine!

WE SERVE BY ...

... fostering education, professional development, and the advancement of research and innovation.

SSH EDUCATION BENEFITS

- ✓ **Exclusivity:** You often will have access to resources and information not found anywhere else.
- ✓ **Head of the class:** You will have tangible, shareable knowledge that makes your own staff & program stronger.
- ✓ **Best of the best:** The instruction you're receiving is coming from the sharpest, most innovative minds in the space.
- ✓ **Accredited learning:** Nearly everything SSH offers is done so with you in mind, offering IPCE hours to help you keep those certifications and credentials you've worked for.



Scan the code to learn more.

Or, visit: ssh.org/Professional-Development

Healthcare Systems M&S Affinity Group Highlights Mission

The SSH Healthcare Systems Modeling & Simulation Affinity Group (HSMSAG) was created in January 2013 to connect professionals who use constructive and computational modeling and simulation (M&S) technology in healthcare systems and human factors engineering and modeling in biological systems.

The mission of the HSMSAG is to support and advocate for the development, improvement, and validation of healthcare system models, simulation, and their components (processes, physiology, human factors) using a

systems engineering approach for the improvement of healthcare safety, education, quality, and cost effectiveness.

Simulation in healthcare predominantly is a training technique that provides a safe environment for healthcare practitioners to acquire valuable experience without patient harm. Adopted from systems engineering, M & S also can be used as a test bed to study the interactions between complex systems and sub-systems and test new process interventions before clinical application. M&S applications have been applied to system biology,

disease mechanisms modeling, drug/device design and development, provider workflow/process, hospital operations, and public healthcare policy at different spatial and time scales. Using systems-engineering based M&S tools, it is possible to have a holistic insight into hospital practice by an objective and quantitative manner. Simulation, forecast, and optimization can be applied to improve the system safety, quality, and efficiency.

Over the last 10 years, the HSMSAG has grown to 3,800 members (one of the largest) on SimConnect, and engages the broad SSH membership

via IMSH face-to-face meetings, the SSH website, YouTube webinars, and social media platforms. The HSMSAG organized the SSH Modeling & Simulation Forum in Los Angeles, preceding IMSH 2018. The Forum enabled stakeholders to explore the broader science and engineering application of M&S within healthcare.

In the last few years during the global COVID-19 pandemic, computer modeling and simulation has been used in various areas

to fight COVID-19, including disease modeling, device design and testing, staffing and supply management, and public health policy implementation. With adoption of emerging technology (Internet of things, digital twin, artificial technology, and machine learning) in healthcare, HSMSAG serves as a venue to facilitate dialogue between healthcare practitioners, trainers, researchers, engineers, industry partners, and policy makers from healthcare and engineering communities.

The Affinity Group members welcome your interest and invite you to connect at IMSH or through the SSH website at ssih.org.



Modeling and simulation applications have been applied to system biology, disease mechanisms modeling, drug/device design and development, provider workflow/process, hospital operations, and public healthcare policy at different spatial and time scales.



Visiting Scholar & Fellowship Opportunities

WISER's Visiting Scholar Program offers customizable programs for healthcare and simulation professionals to develop proficiency with their use of simulation education. The program has accepted simulationists from across the globe as part of long-term Fellowships and shorter-term Preceptorship programs.

WISER's Fellowship program, accredited by SSH, includes structured one- and two-year individualized curriculum. The program received "exemplar" ratings from the SSH Accreditation board for its post-completion relationships to assist alumni once they return to their home institutions with project implementation, accreditation process, and other needs.

All Programs include:

- Customizable Learning Tracks
- WISER Foundation & Course Catalog
- Course Observations
- Course Electives/Lectures/Workshops
- Dual Alignment with UPMC and the University of Pittsburgh
- International Journal Club with SimTiki Simulation Center



Using a Standard of Excellence for Teaching the Infant Hip Exam

Limbs & Things has worked in collaboration with Dr. Joseph Lopreiato in creating a task trainer with curriculum to reduce developmental dysplasia of the hip.



Limbs & Things [Booth 319], along with Joseph O. Lopreiato, MD, MPH, has created the Infant Hip Examination Trainer, a model designed to meet the specific requirements of healthcare professionals training to identify and diagnose developmental dysplasia of the hip (DDH).

DDH is a highly correctable condition when treated early in life. In fact, there is a global understanding that every infant needs to be examined, but a recent study (Pandey RA, Johari AN. Screening of Newborns and Infants for Developmental Dysplasia of the Hip: A Systematic Review. *Indian J Orthop.* 2021;55(6):1388-1401. Published 2021 May 2. doi:10.1007/s43465-021-00409-2) states that “the ideal screening method for DDH is yet to be sought.” Furthermore, there seems to be some ambiguity about how and when the training occurs for practitioners who perform the exam, and even less certainty that validates providers are performing the exam in a way that correctly identifies infants that require treatment.



In practice, it is unclear if there is a standard of care for the DDH exam.

The study noted that without proper training in the performance of the Barlow and Ortolani maneuvers, providers may fail to pick up irreducible dislocation, subluxable hip, and dysplasia without dislocation. Left undetected, these conditions may progress and present later, requiring much more rigorous treatment, including the potential for surgical correction of the hip condition. Practicing pediatricians unfamiliar with the DDH exam were not likely

trained in a facility with standardized policies and pathways for the necessary care of this condition that gets much harder to treat without early intervention.

In practice, it is unclear if there is a standard of care for the DDH exam. A recent survey noted, “10.3% of surveyed pediatricians reported being only ‘somewhat’ or ‘moderately’ familiar with the Barlow and Ortolani maneuvers,” and that “only 50%...practiced in an institution that endorses a care pathway for DDH.” (Taylor IK, Burlile JF, O’Brien K, Schaeffer EK, Mulpuri K, Shea KG. Developmental Dysplasia of the Hip: An Examination of Care Practices of Pediatricians. *J Pediatr.* 2022;246:179-183.e2. doi:10.1016/j.jpeds.2022.02.047).

The study concluded that “there is an opportunity to better distribute and implement DDH guidelines. The large number of pediatrician respondents who would not refer patients to a specialist or order imaging studies appropriately represents an opportunity for education.”

Dr. Lopreiato, a practicing pediatrician and simulation expert, found similar results while teaching pediatric residents. He observed learners performing infant hip exams in the clinic and recognized that their techniques were inconsistent. He noted that when asked how they learned their exam technique, most would say “in medical school,” but could not recall if they ever got feedback on their performance. Dr. Lopreiato and his team altered a toy doll to help demonstrate the proper exam because there was nothing in the simulation market that was able to fully abduct or adduct the hips.

Designed to address this need for training to identify and diagnose DDH, the Limbs & Things Infant Hip Examination Trainer comes with two interchangeable lower leg modules that allow trainees to identify the differences

between normal and abnormal hip pathologies. The lower abnormal hip module’s range of motion gives trainees a realistic representation of: dislocating a hip that is lax in the socket; relocating a hip that is dislocated from the socket, feeling the “clunk” as the procedure is completed; using the Galeazzi sign to identify the visual signs of DDH; and using both the Ortolani Test and Barlow Maneuver on both hip pathologies.

To learn more about this opportunity to improve training in the care of DDH, visit the Limbs & Things booth for a hands-on demonstration.

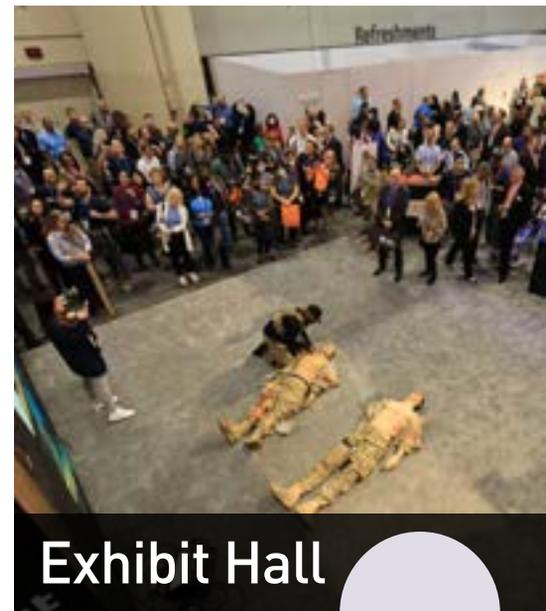


Exhibit Hall

The IMSH 2023 Exhibit Hall is the largest ever, with approximately 140 exhibitors highlighting the latest in healthcare simulation technologies.

Mindfulness and Simulation

By Edwin Ozawa, Chair, SSH Mindfulness Affinity Group

What is Mindfulness?

Dr. Jon Kabat-Zinn gives the most frequently used definition for mindfulness: "Mindfulness is awareness that arises through paying attention, on purpose, in the present moment, non-judgmentally."

Dr. Kabat-Zinn is a molecular biologist credited with helping to introduce mindfulness to the West after extensively studying Buddhist traditions. He also developed the first Mindfulness-Based Stress Reduction program at the University of Massachusetts Medical School and has published extensively on the subject.

I use an abbreviated definition for mindfulness: "The practice of paying attention." It is essential to be selective about what we pay attention to in the present moment.

Meditation practice is like going to the gym for mindfulness. It's how we learn healthy new habits and build our muscles of attention. But the real impact is what we do with improved and enhanced capabilities. That is important.

What Does Mindfulness Have to Do with Simulation?

Having been involved with The Society for Simulation in Healthcare (SSH) for a decade, I have heard public discussions at past IMSH meetings about what an excellent tool for patient safety simulation is. If its utility is merely a tool, then what exactly is the larger goal of simulation?

In my opinion, simulation is about generating self-awareness and insight. I also feel the same about my mindfulness practice, which is not a means to an end, but a tool. Simulation education, like mindfulness, holds a mirror up to ourselves and allows us to observe our thought processes and how we work. Then we can harness curiosity to question and analyze everything we do in the illumination of increased awareness.

There are already publications showing mindfulness improves cognition, compassion, emotional regulation, leadership, resilience, and learning. We already value these concepts as a Society and as a discipline. However, additional ideas we rarely use in simulation include



provider wellness and burnout.

As educators and healthcare providers, we face and manage emerging challenges in healthcare and society. Simulation is genuinely a global discipline because it retains relevance across all cultures and strikes at the heart of being human.

I recently had the privilege of attending a one-week mindfulness retreat in the Hudson Valley region of New York led by Jon Kabat-Zinn. I love how he would start each sitting meditation session with the statement: "Take your seat, take a stand. Meditate as though your life depends on it, which of course, it does."

Indeed, simulation is about

patient safety, but it also allows us to take a stand. Like mindfulness, it is a tool for positive disruption. Both are about questioning and challenging the status quo. When combined with mindfulness, simulation can synergistically effect a positive change in the world.

I encourage everybody to stay curious and work for self-awareness to bring out our best and take a stand to address present and future challenges as they arrive.

And, join the SSH Mindfulness Affinity Group! Contact membership@ssih.org for more info.



Saturday evening's President's Ball.

The SSH Fund



Your gift invests in simulation innovation, advancement, and **excellence**.

Find the right way to donate for you.

Three Awarded IMSH 2023 Scholarships

Each year, deserving healthcare simulation professionals receive scholarships to attend the International Meeting on Simulation in Healthcare (IMSH). The Society for Simulation in Healthcare (SSH) would like to acknowledge this year's scholarship recipients.

The scholarships—the Beverlee Anderson Education Scholarship and Bob Waters Memorial Scholarship (courtesy of the Advanced Initiative in Medical Simulation [AIMS])—each provide IMSH registration and a year of SSH membership, along with other benefits.

Congratulations on this great accomplishment!

Bob Waters Memorial Scholarship (AIMS)

Bob Waters was a gentleman of vision, an energetic voice for what he called “the right thing to do,” and a good friend to the members of SSH.

Bob became an advocate for simulation after seeing a demonstration of simulators at the 2006 American Telemedicine Association meeting. When he was told that no one had any experience going into the offices on Capitol Hill, his eyes sparkled. “That’s where I can help—I’m a lobbyist,” he said.

Bob’s life was cut short by a brain tumor that claimed him at the peak of his career at age 55. To honor his

memory, the AIMS Board and SSH established the Bob Waters Memorial Scholarship Fund to support students in healthcare simulation. To be eligible for this scholarship, applicants must be either a full or part-time student, resident, or fellow.

The scholarship includes:

- Full registration for IMSH
- One year of SSH Student membership
- \$1,500 travel stipend to IMSH 2023



Matthew Petruso, DO
Emergency Medicine PGY-2 Resident
Central Michigan Univ., Saginaw, Michigan
I am proud to be a scholarship recipient this year because:
Simulation has played a huge role in my education. I’m excited to find new and innovative ways to get involved in the field of medical simulation and education!

Beverlee Anderson Education Scholarship

The Beverlee Anderson Education Scholarship Fund provides support to attend IMSH. This need-based scholarship is for healthcare simulationists who would otherwise be unable to attend IMSH. Priority is given to applicants who are first-time attendees of IMSH and from low-budget organizations. Winning applicants are asked to provide a report on their experience at IMSH and how they have incorporated what they have learned.

The scholarship includes:

- Full registration for IMSH 2023
- Registration for one IMSH 2023 post-conference course
- \$1,000 travel stipend to IMSH 2023
- One year of SSH full membership



Albert Muhumuza, MBChB
Faculty Development Coordinator
Mbarara University of Science and Technology,
Mbarara, Uganda
I am proud to be a scholarship recipient this year because:
It is going to be amazing to experience medical simulation at the largest simulation meeting in the world. I look forward to sharing my context of simulation and to see the scope of what is possible. Most importantly I can't wait to share with my team.



Kacey Call, MSN, RN
Nursing Instructor
Simulation Coordinator, Idaho Falls, Idaho
I am proud to be a scholarship recipient this year because:
I love simulation, am excited to connect with other simulationists, and take what I will learn and apply it to our program! I have been involved in simulation programs for the last eight years and love the growth I've seen. I work at a small, but growing and advancing, community college. Our simulation center is amazing, thanks to generous donations and those who built it. I thrive in learning about simulation, implementing positive change, and advancing our simulation center. I look forward to the amazing conference that I think IMSH will deliver.

Thank You to Our Sponsors

Presidential Sponsor



Platinum Sponsors



Gold Sponsors



#SimFit23 Fun Run/Walk Sponsor



Actionable Intelligent Learning

The Data Fusion Engine to Elevate Healthcare

ANYTIME - ANYWHERE

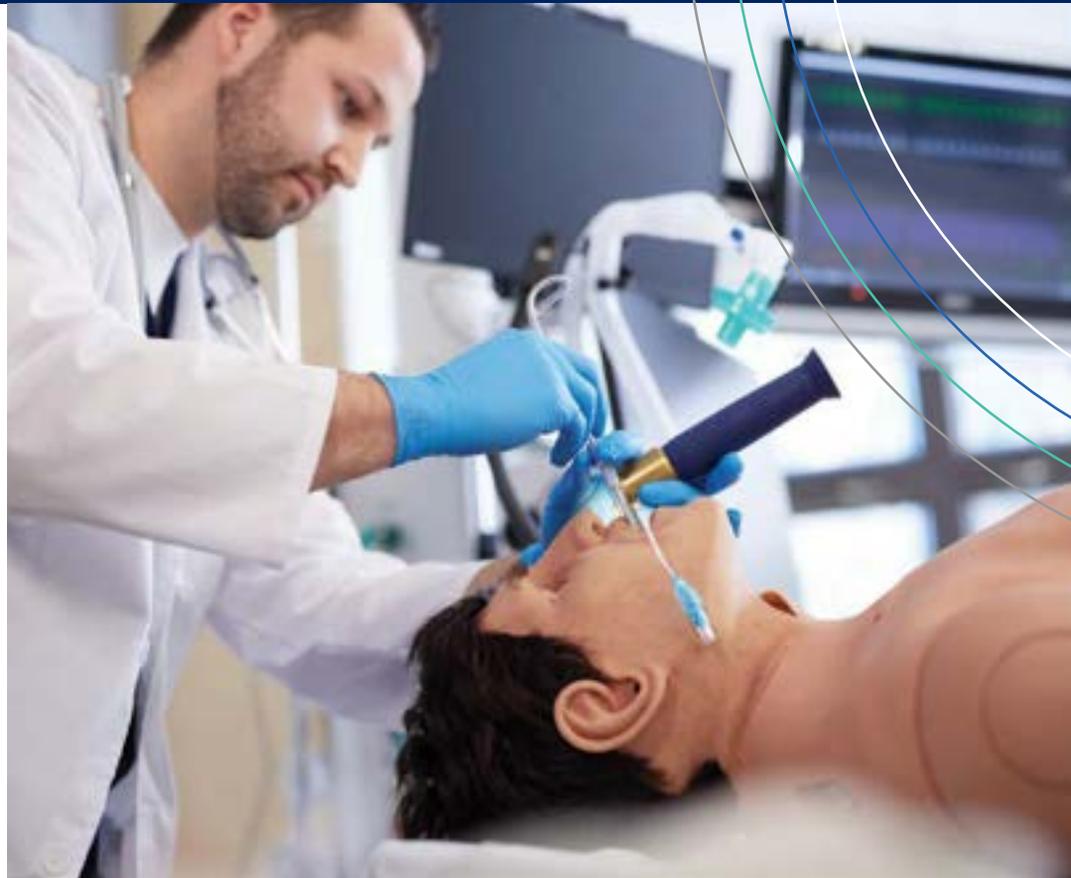
Gaming Engines
Checklists Assessments
Task Trainer Virtual OSCE Online Learning
Program Evaluation **Telehealth**
Virtual Reality Audio/Video Augmented Reality
Clinical Rotation **Virtual Classrooms**
Telesimulation Actionable Intelligent Learning
Haptic Feedback **Clinical Skills**
Manikin Data



Gradebooks
Learning Management Systems
Learner Record Systems Curriculum Mapping
Integrated Dashboards Learner Progress Tracking
Clinical Rotations **Competency Management**
Electronic Health Record

Bridge physical and digital learning at **Booth 101**.

Bring learning to life with advanced simulation technologies from CAE. Use our exclusive combination of digital and physical solutions to deliver lifelike, immersive experiences that accelerate competency development and increase educator capacity.



Want a chance to win a \$100 Amazon gift card?

Stop by **Booth 101** to provide your feedback on the future of simulation. We'll randomly choose one winner each day, Sunday through Tuesday.

Preparing you for the moments that matter.
caehc.co/IMSH23DA

CAE