

IMSH DAILY

Tuesday January 24, 2023



IMSH™

Society for Simulation in Healthcare

JANUARY 21 – 25, 2023 | ORLANDO, FL

A STANDARD OF EXCELLENCE

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SSH's Barry Issenberg presents the Pioneer in Simulation Award to Tore Laerdal of Laerdal Medical.

Monday Plenary Awards Pioneer in Simulation

it our best. But what happens when times get tough, and things don't go well?"

Monday morning's Plenary Session, featuring the Lou Oberndorf Lecture on Innovation and Healthcare Simulation, began with a tone-setting welcome from the IMSH 2023 Planning Committee and concluded with an inspiring message about "chasing failure" from keynote speaker Ryan Leak.

He continued, "As we turn the page to day two, we want to shift the focus. In order to maintain a standard of excellence, we need to become comfortable embracing failure. In order to do that, we must reframe how we view failure."

"Welcome to day two of IMSH 2023," enthused Jarrod Young, Planning Committee co-chair.

"And who better to help us embrace failure than our frontline sim team members," said co-chair Sean Cavanaugh. "Today, we embrace the content theme 'technology.' This focus will highlight the rapidly evolving and newly emerging technological innovations and learning opportunities in healthcare simulation."

"Hopefully, yesterday's plenary concept of 'employalty' resonated with you, and you're already thinking of ways to integrate this into your programs back home. We all want to give

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INCOMING PRESIDENT-ELECT'S MESSAGE

SSH's Impactful Role in Safe and Quality Healthcare

As we approach the final two days of a very successful and dynamic IMSH 2023, I am even more convinced of the transformational and impactful role the Society for Simulation in Healthcare (SSH) will have on the future of global health professions education and practice.

For two decades, my experience with SSH and other partner organizations that promote simulation in healthcare education, research, and innovation has prepared me to serve in the position of President-Elect. I have had the privilege of serving in several positions across the spectrum of SSH, and I have embraced a servant leadership approach that has given me

a holistic perspective of the SSH mission and the team-based, consensus-building approach that is necessary to optimally serve its membership. My service leadership roles include co-chair of the 8th IMSH, and serving as one of the inaugural Associate Editors of *Simulation in Healthcare*. In 2008, I was honored to serve on the Board of Directors, and I was honored to be one of the inaugural Fellows in the SSH Academy of Scholars.

Over the past several years, I have served in numerous senior leadership positions at the University of Miami Miller School of Medicine that have given me a broader understanding of the needs, challenges, and opportunities of working and collaborating with colleagues at all levels, professions, and specialties. My secondary appointments as Professor of Nursing and Health Studies and Professor of Medical Education have expanded my experience and appreciation of the importance of teamwork across the spectrum of education and training, and has involved partnering with colleagues in nursing, engineering, and the humanities. In each of my leadership roles I have worked to encourage diversity of thought, foster a culture of trust and inclusion, focus on others' needs, and support leadership growth and opportunities for others. In addition to currently serving as our institution's Senior Associate Dean for Research in Medical Education, I am proud to serve as the Director of the Michael S. Gordon Center for Simulation and Innovation in Medical Education, one of the Founding Supporters of SSH.

My leadership vision for SSH builds upon those of our current President and incoming President and focuses our work to help SSH expand its purpose to serve the global community of practice to enhance the quality of healthcare. This will require a mindfulness and direct approach to ensure SSH reflects the composition and diversity of backgrounds and ideas that comprise its growing membership. An inclusive and representative SSH that provides opportunities and service to all of its members with the highest standards and ethics will be one that has the greatest impact in fulfilling its mission.

To achieve SSH's lofty mission and purpose, I would like to see it adopt a transdisciplinary approach to facilitate the advancement of research and innovation and foster education and professional and leadership development among its mem-



Barry Issenberg, Incoming President-Elect

bers. Our current world is becoming more dynamic, and its problems are more complex; organizations such as SSH need to provide a leading role for society at large to not only address, but also solve, the challenges that have been identified for more than 25 years, particularly how simulation can translate into improved patient safety and quality healthcare.

Simulation-based healthcare education complements biomedical and clinical translation science when it stretches the outcome measurement endpoint from the simulation center to better healthcare delivery and patient outcomes. This will require that SSH strengthens its strategic collaborations with traditional partners in healthcare academia, and also fosters relationships with other key national and international governmental and non-governmental organizations, as well as industry partners from education, technology, and healthcare, who play an instrumental role in the delivery of safe and quality healthcare. This will necessitate that we integrate simulation more seamlessly into health professions education and practice to ensure learners and providers have greater access to the technology. Together, we need to examine how simulation centers can serve the missions of health professions schools and academic and non-academic health systems. That's when simulation will have a greater potential to make a wide-scale impact on patient care.

I am excited about the future of SSH and look forward to working with you in our mission to serve the global community of practice to enhance the quality of healthcare.

Barry Issenberg, MD
Incoming President-Elect, SSH

IMSH DAILY

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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

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Plenary Speakers Continue Inspirational Messages



Vice Admiral Raquel C. Bono

TUESDAY

Tuesday morning's Plenary Session features the Michael S. Gordon Center Lecture on Medical Education and keynote speaker Vice Admiral Raquel C. Bono, MD, MBA, FACS, who will deliver a story of inspiration, achievement, and success against the odds. The Plenary Session begins at 8:30 am.

As a three-star U.S. Navy Vice Admiral, trauma surgeon, health care disruptor, and executive, Dr. Bono has broken glass ceilings, championed and conquered systemic change, and blazed new leadership paths for the women, men, and minorities who've come after her.

For nearly 30 years Dr. Bono served with honor and distinction as a highly respected Naval Officer and the first woman surgeon in the military to hold the rank of Vice Admiral.

Dr. Bono believes everyone can do "it"—whatever your "it" may be—with the right guidance, encouragement, and support. In her intensely personal and deeply inspiring presentation, Dr. Bono talks about her life and career, and how she continues to find ways to "think and do big" and provide others with the tools and encouragement they need to perform at higher levels. Her message promises to move you—challenging you to find the confidence and courage to believe in yourself and make an impact.

WEDNESDAY

The Closing Plenary Session, Wednesday morning at 8:30 am, spotlights keynote speaker Tan Le, recognized as one of the most influential pioneers in the emerging field of brain-computer interface. An inventor, author, and entrepreneur, she is the founder and CEO of EMOTIV, a San Francisco-headquartered neuroinformatics company.

Born in South Vietnam, Le migrated to Australia as a refugee with her family in 1981. In 1998, she was named Young Australian of the Year for her community work, catapulting her into a prominent role as a social activist and public speaker.

Her numerous other awards include Australia's 30 Most Successful Women Under 30, Most Influential Women in Technology by *Fast Company* in 2010, and *Forbes* 50 Names You Need to Know in 2011. She has been honored by the World Economic Forum (WEF) as a Young Global Leader since 2009 and served on the WEF's Global Future Council on Neurotechnologies. She was also named a *National Geographic* Emerging Explorer in 2013 and received the 2018 Industrial Research Institute Achievement Award.

Le's book, *The NeuroGeneration: The New Era in Brain Enhancement That Is Revolutionizing the Way We Think, Work, and Heal*, was published in 2020.



Tan Le

One of the more engaging elements of the IMSH 2023 Exhibit Hall is SimVentors, where attendees have a one-stop location to not only see all of the "up and coming" inventions, ideas, games, and advances in simulation technology, but vote for their favorite participant.

"What we do here is accept abstracts from across SSH, asking people for all of the brightest and best ideas," explained Erin Baker, chair of SimVentors. "Those ideas are peer reviewed critically, and the top of those ideas is what you're going to see in SimVentors. They're ranked on their approach, their innovation and their impact, which is very similar to the NIH rating scale that they use to rate all of their proposals for health funding."

She added, "This SimVentor Showcase is a unique and powerful resource to showcase the latest in healthcare technologies, inventions and games to an elite group of peers and judges, to share ideas, gain feedback, and transition ideas and inventions to end users.



This is really one of the only places at the conference where you can go and get active feedback to figure out how to transition your ideas, whether you're transitioning them to a sim center, whether they're going to industry, whether they're going to academia, wherever you want to take those ideas. And people that are walking around are going to give you the opinions and the advice to take it to the next level. They're also going to be looking for things that can start collaborations. So, if somebody is doing something similar to you,

this is your way to start those conversations and take these ideas to the next level. We have everything from VR and AR to a tabletop game to some more immersive activities."

She noted that one of the "most special parts" of SimVentors is the low cost / low resource area, where people take something and modify the simulation to fit what they need at a low cost point.

Baker said she has been running SimVentors "for a couple of years now," and is "very excited to be out of COVID and have everybody face to face. An event like this is so much more powerful when people are speaking to each other and when you can see and put your hands on what they've developed."

Fifteen judges rate between eight and ten submissions each, with corroborated ratings from all judges used in determining awards in multiple categories, including a People's Choice Award, to be presented for the first time at IMSH 2023.

Not Too Early to Plan for IMSH 2024

While individual activity is still taking place at the IMSH 2023 registration area in the North Concourse of Orlando’s Orange County Convention Center, some early industry planners are already shifting focus toward the San Diego Convention Center in January 2024.

“Early exhibit sales are good,” exclaimed Olivia Rosace Fleenor, SSH Meetings and Exhibits Coordinator. “As of Monday afternoon, 18 companies have already committed to exhibiting at IMSH in San Diego.”

“We’ve said it before, but one of the things that people have been saying over and over is, ‘We’re back,’” added Judy Larson, SSH Director of Meetings and Exhibits. “People have been waiting to get back and meet in person and enjoy the dynamics of face-to-face contact. You know, the beauty of any exhibit hall is the ability to touch, feel, and look at the product. And with that, we are enjoying our largest meeting ever, based on additional attendee registrations this afternoon.”

SSH began selling advanced exhibit space

for the following year’s IMSH three years ago in San Diego.

Initial sales are open for members of the Corporate Roundtable. Space reservation opportunities will likely open for other interested companies in the June timeframe.

“We’ve sold a lot of space already,” Fleenor said. “And I think it’s important to note that, in the majority of appointments, companies are already increasing the size of their booth spaces.”

“Obviously, with that comes with increased exposure and visibility,” Larson added. “And, with these companies committing to a bigger space a full year in advance, it attests to the fact that innovation and business in healthcare simulation is just booming.”



Today at IMSH

Tuesday, January 24

Plenary Session – The Michael S. Gordon Center Lecture on Medical Education featuring Vice Admiral Raquel C. Bono
Plenary Hall – 8:30-9:45 am

Exhibit Hall Open (Final day)
Exhibit Hall – 9:30 am -2:00 pm

Research Posters Displayed
Exhibit Hall – 9:30 am-2:00 pm

Lunch
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

Wednesday, January 25

Closing Plenary Session featuring Tan Le
Plenary Hall – 8:30-9:45 am

SSH Corporate Roundtable Learning Lab
Room 220C – 10:00-11:30 am



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Awards



With our highest respect and sincere gratitude. Presented at IMSH 2023.

Research Abstract Award Winner

Debriefing Interaction Patterns and Their Effect on Learning Outcomes in Simulation-based Medical Education

Sabine Nabecker, MD, Sandra Abegglen, PhD, Yves Balmer, CRNA, Robert Greif, MD, MME

Research Abstract Award Runner-up

Intraoperative Code Blue: Improving Teamwork and Code Response Through Interprofessional, In-Situ Simulation

Gregory Wu, MD, Lori Podlinski, EdD, Cedar Wang, APN, Debra Dunn, MSN, MBA, Deborah Buldo, DNP, Benedict Mazza, BA, James Fox, Bz, Matthew Kostelnik, Giuseppe Defenza

Research Abstract Award Runner-up

In-Situ Newborn Resuscitation Simulation-based Skill-Training and Changes in Clinical Performance and Perinatal Outcomes: Clinical Observational Study of 10,481 Births

May Sissel Vadla, Robert Moshiro, Paschal Mdoe, Joar Eilevstjønn, Jan Terje Kvaløy, Barikiel Hhando Hhok,i and Hege Ersdal

Operations Specialist of the Year

Chassity Mays

For service and dedication to the Society for Simulation in Healthcare in 2022

Educator of the Year

Elizabeth Wells-Beede

For service and dedication to the Society for Simulation in Healthcare in 2022

Researcher the Year

David Cook

For service and dedication to the Society for Simulation in Healthcare in 2022

Director of the Year

Cara Doughty

For service and dedication to the Society for Simulation in Healthcare in 2022

Technology Innovator of the Year

Adam Blumenberg

For service and dedication to the Society for Simulation in Healthcare in 2022

Presidential Citation

The Patient Safety Working Group of NTSA

In recognition of the steadfast commitment and multi-organizational collaboration to advance simulation in patient safety through policy and government advocacy.

Bob Armstrong

In recognition of his leadership of the SSH Government Advocacy Task Force and his unwavering commitment, leadership, and dedication to advocate for the use of simulation to support patient safety and quality improvement.

Jennifer Calzada

In recognition of her tremendous leadership, determination, and expertise to lead the SSH Development Task Force to launch the SSH Giving Campaign in order to advance simulation-based research and technology in training.

Kathryn Adams

For her over 13 years of unparalleled service to SSH and its members to advance education and training to improve learning and patient outcomes.

SSH Research Summit Steering Committee, Track Chairs, and Working Group Members

In recognition of their dedication to advancing the science of healthcare simulation through collaboration, data, and research.

Juli Maxworthy

In recognition for her tremendous service to SSH during a global pandemic through a safe successful in-person IMSH 2022 and making SSH membership more accessible to all.

The Gail Johnson Award

Mary E. Mancini

Given to an SSH Accreditation reviewer who demonstrates integrity, scholarship, positivity, and leadership.

Service Award

Kelli Bryant

For service and dedication to the Society for Simulation in Healthcare as Media & Communications Committee Chair

Becky Damazo

For service and dedication to the Society for Simulation in Healthcare as Certification Council Chair

Aaron Calhoun

Yue Dong

Ryan Ribeira

For service and dedication to the Society for Simulation in Healthcare Board of Directors

Marie Gilbert

For service and dedication to the Society for Simulation in Healthcare As Chair of the Nursing Section

Royanne Lichliter

Raya Gurevich-Gal

For service and dedication to the Nursing Section

Sergio Bustamante

Marco Maurtua

Erin Blanchard

For service and dedication to the Anesthesia Section

Pooja Nawathe

For service and dedication As Chair of the Pediatrics Section

Marlo Cooper

Bobby Schremmer

Elizabeth Horsley

For service and dedication to the Hospital Based Programs Section

Dr. Thomas Talbot

For service and dedication to the Virtual Simulation Section

Marian Luctkar-Flude and Jane Tyerman

Award for Innovation Virtual Simulation Section

Melissa Morris and Team at Nova Southeastern University

Award for Research Virtual Simulation Section

Amy Daniels

For service and dedication to the Directors Section Education Work Group

Dawn Swiderski

For service and dedication to the Directors Section Mentorship Work Group

Cheryl Camacho

Jilian Sansbury

For service and dedication to the Directors Section Resource Work Group

Michelle Hughes

Emergency Medicine Section Emerging Leader Award

Michael Meguerdichian

Emergency Medicine Section Innovation in Education Award

Ambrose Wong

Emergency Medicine Section Research Award

SimVentors

Impact: STROKE: Keep the Brain Alive in 45 Game Based Learning – **Craig Porter, Julie Sydorr, David Adhansen – Serious Games Category**

Innovation: Lumbar Transforaminal Injection Training with Serious Gaming Module and Simulator – **Mehmet Emin Askoy – Serious Games Category**

Approach: Speedy Feedback: Automated Grading of Post Simulation Written Chart Notes – **William Bond – Technology Innovations Showcase**

People's Choice Award: Development of a Bleeding Arteriovenous Fistula Task Trainer – **Emily Pauw – Low Cost Showcase**

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IMSH 2024 Planning Team Shares Energetic Vision

Even as the liveliness and excitement of IMSH 2023 continues today and tomorrow, planning is already well underway for IMSH 2024, January 20-24, 2024 in San Diego, California.



It's a great place to come to get new ideas!"

Planning Committee co-chairs Cheryl Camacho, MBA, CHSE, paramedic, EMS-I, Teresa Gore, PhD, DNP, APRN, FNP-BC, CHSE-A, FSSH, FAAN, and Jamie Robertson, PhD, MPH, CHSE-A, all agree that one way to describe their vision for next year's event is "energetic."

Although the theme of IMSH 2024 will be officially revealed at Wednesday morning's Plenary Session, Camacho described an

aspect of it as "pushing our profession forward. What is our next step in simulation? That's what we're looking at." Expressing gratitude to the IMSH 2023 Planning Team for this year's meeting and referring to its theme, she added, "We appreciate the pathway that they've set, because we've met that standard of excellence. So now we're growing from here."

Camacho described the conference logo as "energetic, invigorating, exciting, and inspirational." And the co-chairs have even selected the theme's music.

Robertson said, "I think our message really is that IMSH has something for everyone, no matter what your role is in simulation. Whether you're a scientist, educator, operations specialist, engineer, or in a management or leadership position, IMSH has something for you. And we want you to bring whatever it is that you have to the table to share with everyone."



IMSH 2024 Planning Committee co-chairs (l to r) Teresa Gore, Jamie Robertson, and Cheryl Camacho.

Gore added that advocacy will also be emphasized. "Advocacy is about us individually, in our institutions, and in our government, and we want to come up with creative solutions to give to people to advocate."

Robertson said, "It's really about embracing the creativity of the profession. We celebrated a lot of the science and evidence-based aspects this year, and we're going to continue to do that. But we also want people to be inspired to be creative."

Robertson continued, "San Diego is such a great place for that creativity. It's a location that IMSH has been a number of times—it's a fan favorite." She added that there are great opportunities for pre-conference and post-conference events "where they really are embracing creativity and pushing the envelope."

The co-chairs' enticing summary message as they look forward to welcoming you to San Diego for IMSH 2024: "It's a great place to come to get new ideas!"

Past Pioneer in Simulation Recipients

2022 – Debra Spunt

As a Pioneer in Simulation for her extraordinary vision and early work, as a co-founder of the International Nursing Association for Clinical Simulation and Learning (INACSL) and serving as the first president, and for her impact globally, setting the foundation for using simulation in nursing education and other healthcare professions. **awarded posthumously**

2020 – Dr. Daniel Raemer

As a Pioneer in Simulation for his many innovations and accomplishments in advancing the field of simulation and especially for his vision to start a professional simulation society, his efforts to bring it into existence, and his leadership as the founding President of SSH.

2019 – Dr. Ronald Harden

As a Pioneer in Healthcare Simulation for his pioneering work in medical education that has enormous impact around the world, and also in advancing simulation-based education and assessment across the breadth of healthcare professions.

2017 – Dr. David Gaba

As a Pioneer in Healthcare Simulation for his ingenuity, talent, and wisdom in leading the creation of modern day patient simulators, applying principles of crisis resource management to healthcare, and advancing the field through inquiry and scholarship as Founding Editor-in-Chief of *Simulation in Healthcare*.

2016 – Lou Oberndorf, MBA

As a Pioneer in Healthcare Simulation for industrialization of the human patient simulator and other significant contributions to the healthcare simulation industry.

2015 – Dr. Michael Gordon

As a Pioneer in Healthcare Simulation for contributions in life-saving cardiovascular training through the development of "Harvey," the cardiopulmonary patient simulator.

2014 – Dr. Stephen Abrahamson

As a Pioneer in Healthcare Simulation for his work leading to the creation of the 1966 sim one—the first computer-controlled patient simulator.

External Relations Committee Values Affiliate Organization Relationships

As part of the Society for Simulation in Healthcare (SSH) committee structure, the External Relations Committee (ERC) reports to the SSH Board of Directors (BOD) and has particular responsibility for engaging with other organizations, both domestic and international. These include other professional societies, associations, and networks, healthcare practitioners and providers, the simulation industry, governmental agencies, and the public. The ERC ensures that all Society programming with external partners contributes directly to the fulfillment of the Society's mission and goals.

This past year has seen all of us working to adapt in a world affected by the COVID-19 pandemic, and like everyone reading this, we are truly excited to be back to an in-person IMSH. It is an opportunity to reaffirm our international friendships and collaborations in the world of

simulation-based healthcare education.

To this end, the Committee members have worked hard to help SSH realize its mission and goals through a number of activities. Vice Chair Krystle Campbell chaired several meetings involving representatives from the SSH affiliate groups around the world; ERC representatives attended these meetings, sometimes at unusual times of the day and night to accommodate various time zones. The presence of SSH President Haru Okuda with Past-President Juli Maxworthy and President-Elect Jayne Smitten reinforced the importance that SSH places on relationships with our affiliate organizations. We look forward to continuing those conversations in 2023.

Others on the ERC have worked on SSH communications strategy and preparation for IMSH 2023.

We are delighted that our BOD liaison, Jayne Smitten, is now President of SSH, and Committee members have enjoyed the opportunity to work with Jayne. SSH staff support has been excellent from Ashley Grossman, who took over that responsibility from Kathryn Pullins.

Our affiliate numbers have grown, with 32 organizations now associated with SSH. Working together, SSH and its affiliates are committed to advancing the field of healthcare simulation.

The opportunities to develop international and other links by working on this committee are significant and rewarding. If you would like to join us in our work, please get in touch either here at IMSH 2023 or through the SSH website at ssih.org.

The current ERC members are: John Dean (Chair); Krystle Campbell (Vice Chair); Elvera Baron; James Cooke; Samantha Davis; Shannon DiMarco; Susan Hebert; Erica Hinojosa; Ilya Shekhter; Jayne Smitten (Board Liaison).

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SSH Fund 2023 Campaign Goals

By now you have hopefully heard all about the SSH Fund, launched by the Society during IMSH 2023. This annual philanthropic campaign will raise funds for programs that are innovative, transformational, and will advance healthcare simulation to places beyond our current dreams and hopes.

Society membership, both individual and corporate, will be annually surveyed for ideas for the next year's funding programs. Certain programs may be funded year after year, but surveying members will ensure the SSH Fund is always focused on programs and ideas that will provide the biggest opportunities for industry advancement, innovation, and transformation. The ultimate goal of the SSH Fund is to provide *excellence beyond membership*, so Society members will provide valuable input into funding needs and opportunities across the healthcare simulation field.



The ultimate goal of the SSH Fund is to provide excellence beyond membership.”

The 2023 campaign will focus on four programs, which will have funding awarded in 2024.

The first program covers research awards. The Society currently funds two to three early career research awards at \$10,000 each. The SSH Fund seeks to expand funding to experienced researchers and larger multi-institutional studies. Transformational healthcare simulation research can only come from experienced research teams and the SSH Fund seeks to become the go-to source for industry-

advancing research funding. We hope to be able to fund awards as high as \$50,000 in 2024. The 2023 Research Summit identified and discussed 12 domains of research that still have gaps in knowledge. When awarding research funds in 2024 and the future, the Research Committee will focus on these domains.

The second 2023 funding program is the creation of a new SimVentors Innovation Award. The annual technology showcase at IMSH has grown every year in both size and complexity of innovations. This new award hopes to encourage more simulationists to go beyond initial idea conception and through the iterative process to take new or improved technology up to the point of market release.

The third funding program for 2023 will be expanding the capacity of the Beverlee Anderson needs-based scholarships. This program has been funded by the Society in memory of the first Executive Director and annually provides registration, an immersive session, and \$1,000 travel stipend for up to two recipients. The SSH Fund seeks to both expand the number of recipients and increase the travel stipend, to better meet actual costs. The goal of the Fund is to increase travel stipends to \$1,500 for U.S.-based recipients and \$3,000 for international. During 2024, the goal is to award at least two U.S.-based awards and two international awards.

While the Society is a global association, we acknowledge that some international

members struggle to have equitable participation in meetings, when compared to U.S.-based members. The high cost of international travel and the lower resources in some member countries makes full participation difficult. The SSH Fund seeks to provide more opportunities for these members.

Currently these needs-based scholarships are only available for IMSH. The SSH Fund also seeks to also expand needs-based opportunities to SimOps, to better support simulation technology members from low resource institutions or regions.

The final funding program for 2023 is the Chad Epps endowment. After Chad's untimely passing, his closest friends in the Society established an endowment to continue his legacy. Chad was a big supporter of giving people opportunities they might not normally have, and the endowment supports plenary speakers who are new to speaking at the level of a keynote. The SSH Fund is just the type of initiative that Chad would have supported, and we hope you are able to support it as well.

Stop by and see us daily at SSH Central before morning plenaries and during lunch breaks. Or make your pledge or donation today at SSHFund.org.

Jennifer Calzada, MA, MPH, CHSE
SSH Board Director-At-Large 2021-2024;
SSH Fund Chair

Development Task Force: Jamie Robertson, Sylvia Merino, Ryan Riberia, Matt Charnetski, Lilia Chavarria, Nadir Ayrad, Lillian Emler, and Jane Gannon.



Lou Oberndorf's Challenge

If you attended yesterday's Lou Oberndorf's Endowed Lecture, you heard his challenge during his introduction. Lou told IMSH attendees about why he has been the largest individual donor to the Society over the years. He spoke to why he continues to give every year and he spoke to a culture of giving. Most importantly he put forth a challenge for Society members to support the culture of giving and pledge or donate to the SSH Fund during IMSH 2023.

Lou has committed \$50,000 to the Society over four years, beginning in 2023. It is not only the size of Lou's gift that is important, but that he has made a multi-year commitment. This is the culture of giving that we seek to instill in other Society members and the larger community from healthcare simulation, healthcare, and patient safety.

We understand that philanthropic appeals come from all areas of life, from the annual

December red kettles on street corners to members' alumni associations, healthcare specialty societies, and other personal areas of interest. Giving to multiple interests and organizations can be an annual balancing act. We appreciate every dollar donors commit to the SSH Fund and honor that with thoughtful allocation of funds to best meet each program's needs for the following year's awards.

IMSH 2023 is only the beginning of the SSH Fund with many more features and opportunities to come throughout 2023 and into the future.

Great Work Must be Recognized

By David Biffar, MS, CHSOS-A, Editor-in-Chief, STORM



The International Meeting for Simulation in Healthcare (IMSH) is providing yet another tremendously diverse program this year. It is impossible to miss so much new and innovative work from around the world. Much of what we see will become important resources, adding to our operational toolkits and motivating us to reach higher levels of healthcare simulation greatness. This is my fourteenth year attending IMSH and I continue to be amazed by the number of resources I have discovered at this conference. I must applaud all those who have taken the time to present and share their work in developing best practices for experiential learning and creating greater clinical fidelity through technology.

I recently engaged in the grueling task of organizing my image and video libraries, where much of the content comes from outside my own simulation center. Scrolling through files from over the years reflected a sense of evolution in our community of passionate inventors, eager to best represent the healthcare environment. Nowhere is this better displayed than in the IMSH Exhibit Hall, where there is clear evidence of how we have challenged our vendors to improve the technologies available to us. SimVentors has become a perennial extension of the Exhibit Hall, highlighting our desire to enhance the field by developing our own in-house creations. IMSH has refined its programming, and now includes defined "tracks." More than ever, there are a plethora of engaging workshops encouraging attendees to absorb the content most relevant to them. Poster Row is not to be overlooked and is a fan-

tastic place for highlighting new research.

IMSH continues to recognize and award some of the most impactful work at the conference. Just look at how much we have evolved as a field! Much of this growth is because of the continued emphasis we put on standardizing our operational procedures and addressing the limitations of available technologies.

Much like IMSH, the *Simulation Technology and Operations Resource Magazine* (STORM) is a place for showcasing exemplary operational effort. This peer reviewed, electronic journal was created to highlight the outstanding contributions of educational teams in advancing healthcare simulation operations. STORM displays emerging technologies like what you see on display at SimVentors, including detailed descriptions of those technologies and how they were developed and evaluated by subject matter experts. STORM is a place to share the design of novel or specialized training activities that directly impact patient safety or student proficiency, like you'll often see at IMSH poster presentations. The magazine is a great place to share newly developed and implemented policies or procedures and verified best operational practices. We want others to learn from your experiences and easily replicate them at their own institutions, as is the case at an IMSH general education session. Lastly, STORM is where people can share their journeys through healthcare simulation operations, describing professional

development opportunities, unique collaborations, and lessons learned along the way. These kinds of stories are woven through the network of our hard-working and passionate community and are a source of inspiration for others.

Ultimately, STORM is a valuable resource for anyone involved in healthcare simulation operations. It is an alternative to research-specific journals, but all content is still peer reviewed to identify and ensure impactful solutions and high-quality areas of improvement in our field. When we created our submission guidelines, they were compiled with clarity and simplicity in mind, and the submission process is equally as

straightforward.

It is a source of pride that our dedicated governance board, with the support of many SSH staff members, was able to publish the first volume of STORM exactly one year after our first board meeting. And now, just four months later, we are rapidly approaching volume two. It takes a large and enthusiastic team to bring this magazine to life, but it is the simulation operations community that drives us to continue growing this incredible resource.

For more information about STORM, visit our website at <https://www.ssih.org/SSH-Resources/Publications/STORM> or scan the QR code above.

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CAE Delivers Healthcare Training Across the Spectrum

CAE [Booth 101] is utilizing their Exhibit Hall presence at IMSH 2023 to highlight the company's ability to deliver healthcare training from digital cloud applications down to advanced task trainers in local fire stations.

As highlighted by some of the products on display at IMSH, the company is expanding the digital capabilities that have emerged over the last few years. According to Diane Mathe, MSN, RN, CHSE, and CAE Healthcare Academy group leader, the company's emerging programs are addressing a broader digital transformation that has been taking place across healthcare.

"It started when we needed to go for remote learning, which is why we did Maestro EVOLVE, which is instructor led," she explained. "And we were able to hold remote learning sessions using our physiology. Now our new Maestro EMBODY, which is being pre-viewed at IMSH and will be coming out later in 2023, will be self-directed learning. Right now it is geared toward undergraduate nursing, although we plan on expanding that. But it's part of the learner journey. They can do one of these screen-based simulations prior to going into the simulation lab and having a face-to-face hands-on experience. This is just another way to learn. You can take the same scenario that exists on a manikin and you can run it digitally first, or after, and it gives the learner another way to learn about a particular type of pathology."

Although currently directed toward undergraduate nursing, Mathe identified a number of potential growth areas for the learning product, ranging from home health to back-of-an-ambulance settings.

"You might imagine that a patient could be picked up from their living room floor, transported into the back of the ambulance, and then transported into the bed in the hospital," she said.

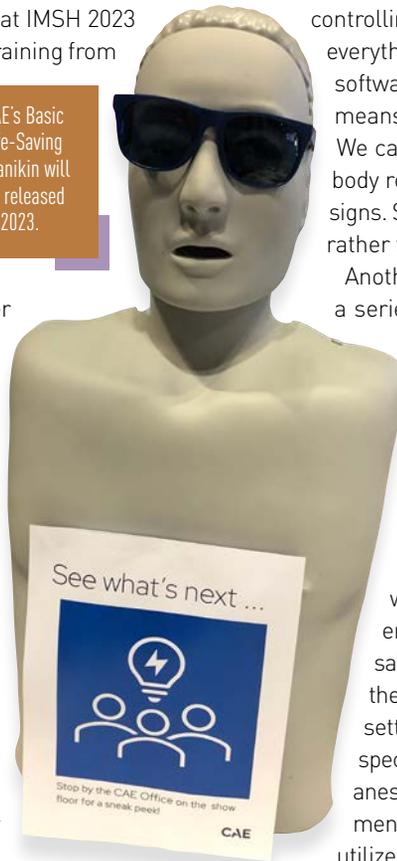
Mathe said that the company is extremely proud of its physiology [model], offering, "We have this physiological model that's been in our company for decades. And so, if I have something that's running, it has automated responses to medications and to physiology. As the instructor, I don't have to be changing all the values. It happens automatically. So it's a very objective way to measure a student's interaction with the patient."

Gary Taylor, global manager of digital sales for CAE, demonstrated some of the current capabilities of the instructor-led Maestro EVOLVE system.

"One of the main things we're trying to focus on is creating opportunities for blended learning," he explained. "People are struggling with their resources. When it comes to physical simulation, they've got more learners than ever before. They only have so much money. And they can only run so many physical simulations. We've got our solutions like Maestro EVOLVE, which means they can augment what they're doing with a digital simulation as well."

He continued, "One of CAE's advantages and unique features is our physiology model. And what that translates into is, instead of a facilitator

CAE's Basic Life-Saving manikin will be released in 2023.



controlling a manikin's heart rate and constantly changing everything for a cardiac arrest, as an example, with our software you just call cardiac arrest. It knows what that means and does it all for you; it's all computer models. We can apply medications and it knows how the human body responds and what that means to the different vital signs. So it frees facilitators up to engage with the learners, rather than frantically trying to control a manikin."

Another exhibit in the CAE booth highlights the latest in a series of continuing enhancements to the company's ultrasound training platform, CAE Vimedix. The new Vimedix 3.4 version now offers new COVID scenarios, the complete maternal anatomy of the second-trimester OB-GYN patient, the ability to create custom measurement presets as well as the ability to generate video-based lessons and easily export images and video.

"Vimedix is here at IMSH because it's what I would consider to be our most dynamic product," enthused Geoff Bates, surgical / ultrasound specialist sales manager for CAE's Healthcare Division. "As far as the clients that would use it, it could serve in a hospital setting where it could service anyone with 12 different specialties or more. So you've got cardiologists, you've got anesthesiologists, you've got all kinds of every department that can utilize it. And the more departments that utilize a simulator, the greater your return on investment."

He added, "This was the first product with which we instituted augmented reality and, in my opinion, it is the one that we've developed the most. It gets the most use out of all of our augmented reality platforms. That's the main reason we have it here. It's just an exciting product."

Another new product that is receiving limited public visibility at IMSH 2023 is the basic life-saving (BLS) manikin.

"We have partnered with a major BLS provider to create a manikin that can work in an 'instructorless' self-directed way," explained Brian Duffield, domestic distribution manager for CAE's Healthcare Division. "The concept is that a student will go to a website and do their online learning on that site. Once they have passed their test online, they will go to a BLS manikin, whether that's at the fire station, or the church, or the gym, or the YMCA, or wherever in the community, and they'll sign up and have the skills portion of that certification performed and evaluated on the manikin itself. They will enter their user ID and password from their online event and then work on the manikin. The tablet walks them through an introduction and then they jump into the skills that are going to be evaluated based on the online class."

Although the BLS isn't slated for release until mid-2023, some pre-production versions are available in a conference room on the Exhibit Hall floor. Mary Beth Kennedy, marketing and communications specialist at CAE Healthcare, said that interested attendees can contact her at **Booth 101** to arrange to see the new manikin.

Monday Plenary Awards Pioneer in Simulation...continued from page 1

Co-chair Linda Wilson highlighted that, based on the success of last year's live stream events, "This year, we're expanding our technological footprint to offer a better opportunity for those who can't be on site," with eight sessions live-streamed, she said. "If you're unable to attend, live recordings of the sessions will be available on demand in the 'IMSH Delivers' collection."

The plenary continued with Barry Issenberg, SSH Incoming President-Elect, presenting the Pioneer in Simulation Award to Tore Laerdal. In his introduction, Issenberg said, "I bet all of us here have been trained in CPR or know someone who has been trained in CPR and understand the impact it can have on saving lives. Indeed, earlier this month, millions

of people witnessed the sudden collapse of football player Damar Hamlin and the impact that CPR had, provided by his trainers and saving his life in a dramatic way. But it's also hard to realize that modern life-saving techniques and resuscitation in other areas were not available before 1960. And there certainly were no modern patient simulators to train people in these life-saving techniques."

tion was a life-changing experience that happened a few years earlier, when his two-year-old son, Tore, nearly drowned and was saved at the very last minute by his father. Since that time, it has been estimated that more than 500 million people have been trained in CPR, most of them on several generations of 'Anne' supplied by a company that was formed called Laerdal Medical. 'Anne' has arguably and undoubtedly become the most well-known patient simulator in the world."

He continued, "Our honoree, Mr. Tore Laerdal, succeeded his father as the head of Laerdal in 1981. And, as we were approaching the end of the 20th century and the beginning of the 21st century, it was recognized that there is increasing attention on addressing medical errors and the opportunity to improve patient safety through simulation-based training and teams. Tore and his colleagues at Laerdal responded to this need by developing a high-fidelity patient simulator that was more affordable and more scalable than the other university-based products that were available at that time."

According to Issenberg, "Like any pioneer, Tore was not satisfied, and he was not done. He realized there were large populations throughout the world of healthcare providers and institutions that did not have access to this new technology, could not afford this new technology, or the simulators or scenarios didn't address the problems or their needs in their communities. In the last decade, Tore, through a not-for-profit subsidiary of Laerdal Medical called Laerdal Global Health, has brought low-cost simulation-based training to birth attendants in low- and middle-income countries around the world. These have the potential of saving hundreds of thousands of lives of mothers and newborns."

He added, "Tore Laerdal was CEO of Laerdal Medical for nearly 40 years, and is now executive chairman. He's also executive director of the Laerdal Foundation, which since its establishment in 1980, has provided more than \$15 million in financial support for research projects related to emergency medicine, including multi-year support to several leading simulation centers throughout the world. It is my honor and I'm pleased



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to bestow upon him the Society for Simulation in Healthcare's highest award as Pioneer in Simulation."

"Thank you so much for this tremendous honor," said Laerdal. "This Plenary is about innovation in simulation, and innovation is most of all about impact. You will see amazing technology and innovations in the Exhibit Hall. But the most significant opportunity for more impact is better implementation of models we already have, and solutions we already have. To achieve that impact, we need collaboration. It's been a wonderful privilege for us to work closely with the Society for Simulation in Healthcare, with many of you in the audience, with many simulation centers represented in the audience, and with many organizations. It's been a privilege to help bring simulation to low resource settings, because 82% of the global population live in low and medium income countries. And it's likely that close to 90% of all preventable deaths and disablement are happening there. I would be remiss if I'm also not mentioning and thanking my very many competent and loyal co-workers for their contributions. Without the help of all of you I would certainly not be standing here."

Following Laerdal's remarks, SSH President Haru Okuda presented Presidential Citation awards, and Lou Oberndorf, also formerly honored by SSH as a Pioneer in Simulation and for whom Monday morning's lecture is named, introduced keynote speaker Ryan Leak, who provided an enthusiastic message, using many personal anecdotes, detailing six lessons about embracing failure and how to use it to propel towards the future.



SSH President Haru Okuda presents a Presidential Citation to Bob Armstrong.

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Issenberg continued, "In Norway, there was a doll maker named Åsmund Laerdal, who had an idea to use his expertise in making children's toys for another meaningful purpose, and developed the first training manikin for resuscitation, 'Resusci Anne,' the world's first patient simulator. Contributing to his motiva-

NeoSim Brings Autonomous Lung Simulators to IMSH 2023

First time IMSH exhibitor NeoSim AG [Booth 447] is highlighting versions of what company representatives describe as “the only autonomous lung simulators on the market.” Additionally, they are using the Exhibit Hall to spotlight the company’s launch of NeoSim North America.

According to Stephan Böhm, an anesthesiologist and intensivist specialized in mechanical ventilation, the idea for their training simulators emerged from the company’s experience with testing equipment, with that experience reflected in the product name TestChest.

“The name TestChest was originally created because we were testing the automatic routines and mechanical ventilators,” he explained. “But there were no testing devices. So we had to come

up with testing routines based on physiology that would simulate with high precision what the ventilator manufacturer would need to test the devices. And then we learned that we had something magic at hand and so we developed it into a device focused on training, but the name is still there.”

Referencing his own medical background, Böhm said, “I’ve given many, many courses in mechanical ventilation. And we realized that we needed a tool with which we could teach people in a reproducible, autonomous way. People can learn by repetition, and we can work with scenarios. So the idea was that we will build a device that behaves like a real patient, both mechanically but also on the gas exchange side.”

He continued, “Now you have a device you connect to a normal

ventilator, just like you would do with a patient with an endotracheal tube. You can just concentrate on your ventilator. You’re not even realizing what’s going on. You cover the simulator in a bed. It has a head exposed and everything looks as real as possible. But in fact, you have a very sophisticated device to simulate different conditions of lung disease, from acute respiratory distress syndrome with a stiff lung, or chronic obstructive disease with more of a resistive component. You just choose the scenario the students have to train.”

Böhm noted that the train-

ing system has been distributed over the last decade. “It’s been distributed slowly and it’s now at quite a few military institutions for training purposes. COVID, of course, made people more aware of the need for mechanical ventilation. And the whole story behind TestChest basically unfolded as people came to realize that we don’t have enough professionals knowing about mechanical ventilation. Now we can come in with that device to help fill the gap,” he said.

In addition to the adult model, the company has developed a newborn baby version.

Echo Healthcare Brings Manikins to Life



With an emphasis on inclusion, Echo Healthcare and Lifecast Body Simulation [Booth 111] are using IMSH 2023 to launch the Gwen manikin, a lifelike representation of a young girl with Down Syndrome.

According to David Halliwell, founding director of Lifecast Body Simulation, a child with Down Syndrome has complex healthcare needs, ranging from head tilt limitations relating to C1 and C2 vertebrae to complex congenital issues. In an effort to embrace the full concept of inclusion, the company worked

with the University of Greenwich in London to build a manikin reflective of those realities.

The process started in February 2022 and the lifelike features were developed through a combination of 3D scanning and life casting of an actual young girl named Gwen living in the United Kingdom.

“The Gwen manikin has all the features of anyone with Down Syndrome,” Halliwell said. “Everyone talks about inclusion, but Gwen is the world’s first inclusive manikin in this respect.”

He noted that future plans are exploring other childhood challenges that should be reflected in lifelike manikin designs.

The company had originally planned to bring the actual model Gwen to IMSH but decided that she would probably prefer to spend several days of family time at a nearby theme park.

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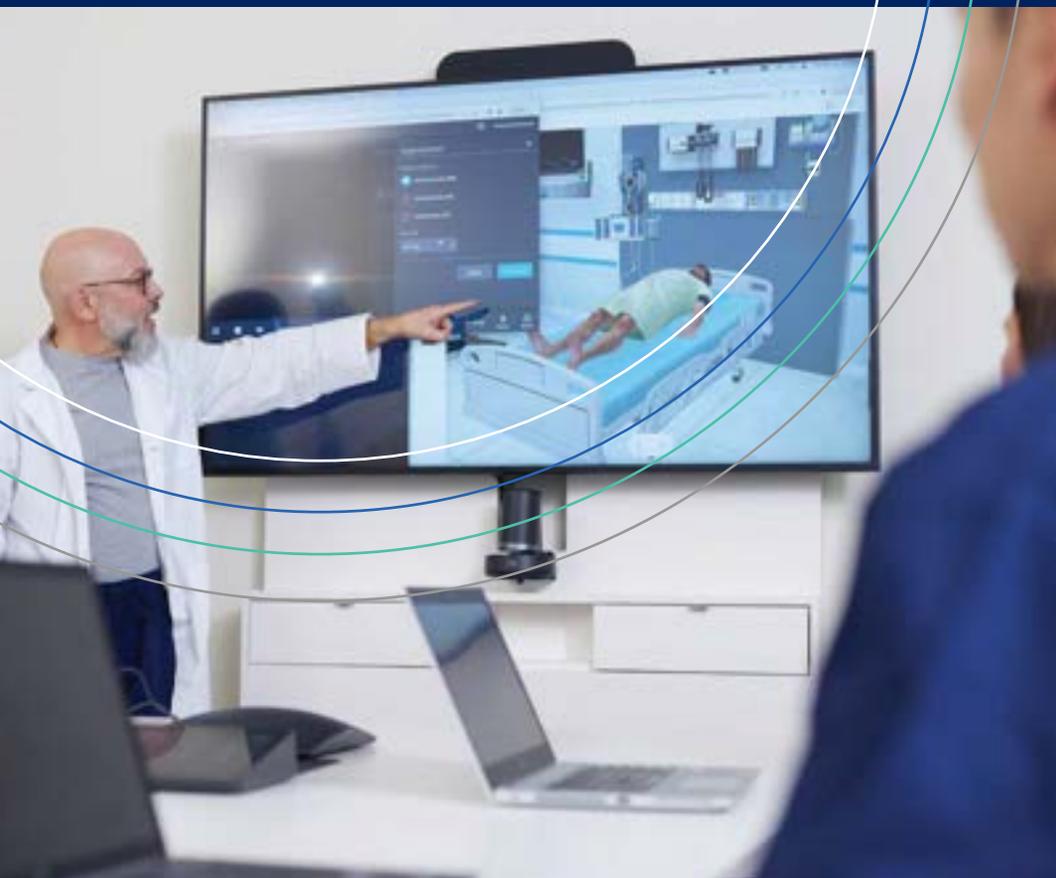
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