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VIRTUAL MEETING • **AGENDA**

# 2021 ACS Surgical Simulation Summit

March 11-12, 2021

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Blended Surgical Education and Training for Life®

## THURSDAY, MARCH 11

ALL TIMES CENTRAL (CT)

8:30–9:00 am  
30 minutes**Virtual Coffee Get Together**9:00–9:15 am  
15 minutes**Opening Session**Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, *Director, American College of Surgeons, Division of Education, and Chair, ACS Program for Accreditation of Education Institutes*David B. Hoyt, MD, FACS, *Executive Director, American College of Surgeons*John T. Paige, MD, FACS, *Director, LSU Health, New Orleans School of Medicine Learning Center and Recorder, Annual ACS Surgical Simulation Summit*Gordon A. Wisbach, MD, CAPT, MC, USN, *Surgical Director, Bioskills & Simulation Training Center Naval Medical Center San Diego, and Chair, Program Committee of the AEI Consortium*9:15–9:35 am  
20 minutes**State of the AEI Program: 2021**

Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME

9:35–10:05 am  
30 minutes**Keynote Address: Leading When Everyone Is Watching**Julie A. Freischlag, MD, FACS, FRCSEd(Hon), DFSVS, *Chief Executive Officer, Wake Forest Baptist Health and Dean, Wake Forest School of Medicine; ACS President Elect*10:05–10:30 am  
25 minutes**Break**10:30–11:15 am  
45 minutes**Innovations in Simulation-Based Education “Shark Tank”**

Learn about four pre-selected innovative projects under development in simulation centers around the world. The session offers innovators a forum to present preliminary research and developments on simulators, curricula, and technology even though there may not yet be outcomes data to support its widespread adoption. Modeled after the popular show “Shark Tank,” simulation sharks (i.e., experts) will be on hand to provide feedback, offer recommendations, and potentially take a “bite” at one or more of the projects for future collaboration.



**Moderator:** Deborah M. Rooney, PhD, *Director, Education and Research in Simulation, University of Michigan Medical School and Co-Chair, Program Committee of the AEI Consortium*

**Augmented Reality Training May Decrease General Surgery Intern’s Procedural Times**David Hampton, MD, Meng, *University of Chicago Medicine, Department of Surgery, Section of Trauma and Acute Care Surgery***Simulation Training with Tele-Feedback Achieves a Higher Rate of Student Approval Than a Traditional Bootcamp on Technical Procedures Examination**Francisca Belmar, MD, *Pontificia Universidad Católica de Chile***In Person Versus Online Suturing and Knot Tying Skills Training during the COVID Era**Juan Tellez, BSc, *University of Texas Southwestern Medical Center***Beef Tongue Surgical Simulation Model for Posterior Vaginal Repair**Elisabeth Sappenfield, MD, *Hartford Hospital***Sharks:**Rajesh Aggarwal, MBBS, MA(Cantab), PhD, FACS, FRCS, *Chief Growth and Strategy Officer, Panda Health*  
Carla M. Pugh, MD, PhD, FACS, *Professor of Surgery, Stanford University; Director, Technology Enabled Clinical Improvement Center*Deborah M. Rooney, PhD, *University of Michigan Medical School*Robert M. Rush, Jr., CoL (Ret.), MD, FACS, *Trauma Medical Director, PeaceHealth St Joseph Medical Center*

## THURSDAY, MARCH 11 Continued

11:15–11:30 am  
15 minutes

### Break

11:30–12:30 pm  
1 hour

### Papers Session I

Five cutting-edge scientific podium presentations will be featured during this oral abstract session. All work being presented is from original research, not previously published or presented. Judges will select the best podium presentation from Papers Session I and II, and the winner will be given the Best in Show Award at the end of the meeting on Friday.

**Moderator:** Robert B. Lim, MD, FACS, FASMBS, *Vice-Chair of Education, Surgery, Oklahoma University School of Medicine Tulsa*

#### **Toward Objective Assessment of Robotic Lobectomy: Initial Characterization of Clinical Tasks Through Video Annotation and Metrics From A Novel Kinematic and Video Data Recorder**

John Lazar, MD, *MedStar Georgetown University Hospital*

**Discussant:** Lana Schumacher, MD, *Massachusetts General Hospital (MGH)*

#### **Central Line Training for First-Year Residents: Isolating Steps Instead of Learners**

Ingrid Schmiederer, MD, *Stanford University*

**Discussant:** Daniel J. Vargo, MD, FACS, *Utah Center for Innovation and Simulation in Education (UCISE)*

#### **Checklists for Procedural Evaluations, Checkpoints for Evaluators**

Ingrid Schmiederer, MD, *Stanford University*

**Discussant:** Robert M. Rush, Jr., COL (Ret.), MD, FACS, *PeaceHealth St Joseph's Medical Center*

#### **More with Less: Improvement in Student-Led Debriefing Quality in Student Operating Room Team Training Using a Revised Teamwork Assessment Tool**

John Paige, MD, FACS, *LSU Health New Orleans*

**Discussant:** Nehal Khamis, MD, PhD, MHPE, *King Saud University*

#### **Special Advanced Modular Manikin™ Study**

Kyle Checchi, MD, *Naval Medical Center San Diego*

12:30 pm–1:30 pm  
1 hour

### Break

1:30–2:30 pm  
1 hour

### Papers Session II

Five cutting-edge scientific podium presentations will be featured during this oral abstract session. All work being presented is from original research, not previously published or presented. Judges will select the best podium presentation from Papers Session I and II, and the winner will be given the Best in Show Award at the end of the meeting on Friday.

**Moderator:** Robert B. Lim, MD, FACS, FASMBS, *Oklahoma University School of Medicine Tulsa*

#### **Development of a Laparoscopic Surgical Skills Simulation Curriculum: Enhancing Resident Training Through Directed Practice and Closed-Loop Feedback**

Brendan Lovasik, MD, *Emory University*

**Discussant:** Jennifer Choi, *Indiana University School of Medicine*

#### **Diverse Surgeon Workforce: Quantifying Gender Differences in Technical Approach to Promote Awareness and Facilitate Training**

LaDonna Kearse, MD, *Stanford University*

**Discussant:** Gladys L. Fernandez, MD, *Bay State Simulation Center*

## THURSDAY, MARCH 11 Continued

### Papers Session II (Continued)

#### Improving Team Communication During Venovenous Bypass

Julie Hartman, DC, MS, *UIHC Center for Procedural Skills & Simulation*

Discussant: Cate Nicholas, MS, PA, EdD, *Clinical Simulation Laboratory at the University of Vermont*

#### Minding the Robotics Gap: A New Curriculum to Equip Surgical Trainees for Emergencies in Robotic Surgery

Eileen R. Smith, MD, *Washington University Institute for Surgical Education (WISE)*

Discussant: Gyeung Isiah Lee, PhD, *American College of Surgeons*

#### Skill Acquisition Beyond FLS; Advanced Training in Laparoscopic Suturing (ATLAS) Enhance Laparoscopic Suturing

Dimitrios Athanasiadis, MD, *Indiana University School of Medicine*

Discussant: Dmitry Nepomnayshy, MD, MS, FACS, *Lahey Center for Professional Development and Simulation*

2:30–2:45 pm

15 minutes

### Break

2:45–4:30 pm

1 hour 45 minutes

### American College of Surgeons and American Society of Anesthesiologists Collaborative Session with Breakout Groups

New this year is a joint session with the American Society of Anesthesiologists (ASA) that will address the unique value of simulation centers that are accredited by the ACS or endorsed by the ASA within the context of providing optimal care to patients and optimal education to learners at all levels. Perspectives of surgeons and anesthesiologists will be presented during interactive sessions and the breakout groups will define unique opportunities to promote collaboration across the two specialties.

#### Orientation to the ACS-AEI and ASA-SEN Sites

Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, *Director, Division of Education, American College of Surgeons*

Randolph H. Steadman, MD, MS, *Carole Walter Looke Centennial Chair, Anesthesiology and Critical Care, Houston Methodist Hospital*

#### The Value of Receiving Education and Training at a Simulation Center: Perspectives from a Surgeon and an Anesthesiologist

Bosseau Murray, MD, *Simulation Center Co-Founder and Research Director, PennState College of Medicine*

Dmitry Nepomnayshy MD, MSc, FACS, *Associate Professor of Surgery, Tufts Medical School, Program Director General Surgery, Director for Simulation and Professional Development, LHMC*

#### ACS/ASA Survey Results

Deborah M. Rooney, PhD, *Director, Education and Research in Simulation, University of Michigan Medical School*

#### Overview of the Breakout Groups: How Do We Restore and Advance the Value of Simulation-Based Training for the Future?

Robert V. Rege, MD, *Professor of Surgery, Associate Dean for Undergraduate Medical Education, UT Southwestern Medical Center*

Jeffrey B. Cooper, PhD, *Founder and Executive Director Emeritus, Center for Medical Simulation, and Professor of Anesthesia at Harvard Medical School and MGH Department of Anesthesia, Critical Care, and Pain Medicine*

#### Lessons Learned and Next Steps

Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME

Randolph H. Steadman, MD, MS

## FRIDAY, MARCH 12

9:00–9:05 am  
5 minutes

**Welcome**

Gordon A. Wisbach, MD, CAPT, MC, USN, *Surgical Director, Bioskills & Simulation Training Center Naval Medical Center San Diego, and Chair, Program Committee of the AEI Consortium*

9:05–10:35 am  
1 hour 30 minutes

**AEI Fellows: Future Leaders in Simulation-Based Surgical Education**

This session features presentations from ten Fellows at ACS-accredited surgical simulation fellowship programs. Our talented group of budding researchers will describe their in-progress work and ongoing projects. Feedback from the audience is encouraged.

**Moderator:** Robert M. Sweet, MD, FACS, *Professor of Urology, Surgery, and Bioengineering; Chief, Division of Healthcare Simulation Science; Executive Director of WISH and CREST; Medical Director, Kidney Stone Center, University of Washington*

**AEI Fellows:**

Taylor Coe, MD, *MGH Learning Laboratory*

Chalerm Eurboonyanum, MD, *MGH Learning Laboratory*

Augustus Gleason, MD, *Lahey Center for Professional Development and Simulation*

Ashley S. Hafer, MD, *National Capital Region Simulation Consortium*

Joel Patrick Harding, MD, *UC Davis Center for Simulation and Education Enhancement*

Kristen Jogerst, MD, *MGH Learning Laboratory*

Joseph Lin, MD, *UCSF Surgical Skills Center*

Lauren Poniowski, MD, *WWAMI Institute for Simulation in Healthcare (WISH)*

Autumn Sacklow, MD, *Clinical Simulation Laboratory at the University of Vermont*

Taylor P. Williams, MD, *University of Texas Medical Branch Laboratory for Surgical Training, Assessment and Research (LSTAR)*

10:35–10:50 am  
15 minutes

**Break**

10:50–11:50 am  
1 hour

**Panel Session: Now What? The Pandemic Is Over, How Do We Use Simulation to Train Our Learners Going Forward?**

**Moderator:** Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, *Director, Division of Education, American College of Surgeons*

**Speakers:**

Daniel B. Jones, MD, MS, FACS, *Professor of Harvard Medical School and Vice Chair of the Department of Surgery at Beth Israel Deaconess Medical Center; Chief of the Division of Bariatric & Minimally Invasive Surgery and Director of the Carl J. Shapiro Simulation and Skills Center*

Boa Nasri, MD, *Clinical Research Fellow, Carl J. Shapiro Simulation and Skills Center*

Deborah M. Rooney, PhD, *Director, Education and Research in Simulation, University of Michigan Medical School and Co-Chair, Program Committee of the AEI Consortium*

11:50 am–12:00  
noon  
10 minutes

**Awards for the Best in Show**

Deborah M. Rooney, PhD, *Director, Education and Research in Simulation, University of Michigan Medical School and Co-Chair, Program Committee of the AEI Consortium*

Gordon A. Wisbach, MD, CAPT, MC, USN, *Surgical Director, Bioskills & Simulation Training Center Naval Medical Center San Diego, and Chair, Program Committee of the AEI Consortium*

## FRIDAY, MARCH 12 Continued

12:00-12:05 pm  
5 minutes

### Closing Comments for Scientific Program

Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, *Director, Division of Education, American College of Surgeons*

12:05-1:00 pm  
55 minutes

### Break

1:00-2:00 pm  
1 hour

### Management, Operations, Research, and Education (MORE) Programming— Effective Staffing Followed by MORE Breakout Rooms

Intended for all simulation center personnel (for example, directors, administrators, managers, coordinators, simulation specialists, educators, researchers, and engineers, as well as physicians and surgeons), the MORE track focuses on current themes in the constantly evolving management and operations of medical simulation centers and provides an interactive forum to exchange ideas, views, and methods.

**Moderator:** Jesika S. Gavilanes, MA, *Oregon Health & Sciences University (OHSU) Mark Richardson Interprofessional Simulation Center (MRISC)*

#### Speakers:

Jeffrey D. Howells, MS, MBA, *LSU Health Sciences Center at Shreveport*

Megan Sherman, MAEdhD, *WWAMI Institute for Simulation in Healthcare (WISH)*

Elena An, MS.HCA, *Oregon Health & Sciences University (OHSU) VirtuOHSU Surgical Simulation Training Center (VSSTC)*

2:00-2:15 pm  
15 minutes

### Break

2:15-3:30 pm  
1 hour 15 minutes

### Zoom-In Session: Interactive Focus Groups on MORE-Related Topics

*Four virtual networking breakout sessions on emerging themes in administration and management.*

#### Facilitators:

Darlene Bourgeois, EdD, MSN, RN

Kathy Johnson

#### **M (Management)**

**Speakers:** Melinda Klar, RN and Julie Hartman, DC, MS, CCRP, CHSE

#### **O (Operations)**

**Speakers:** Crystal Bencken, MSN, RN, CEN, CPEN, CHSE and Melissa Cappaert, MA

#### **R (Research)**

**Speakers:** Tamara Owens, PhD and Dawn Swiderski, MSN, RN, CCRN-K, CHSE, FSSH

#### **E (Education)**

**Speakers:** Joe Crutcher, DHSc and Lisa Satterthwaite, RPN, ORT



## Julie A. Freischlag, MD, FACS, FRCSEd(Hon), DFSVS

Wake Forest Baptist Health | Wake Forest School of Medicine  
Chief Executive Officer and Dean

Julie A. Freischlag joined Wake Forest Baptist Medical Center in April 2017 as chief executive officer (CEO). Consistently ranked among the nation's top 50 medical centers, Wake Forest Baptist includes Wake Forest Baptist Health, a growing, multihospital health system and physician network, the state-of-the-art and highly competitive Wake Forest School of Medicine, and Wake Forest Innovations, its technology transfer, commercialization enterprise. As CEO, she has the overall responsibility for the Medical Center's clinical, academic and innovation enterprises and its annual operating budget of \$3.0B. On July 1, 2017, Freischlag became the interim dean of Wake Forest School of Medicine and was formally appointed as dean on February 1, 2018.

Dr. Freischlag has published more than 250 manuscripts, abstracts, and book chapters. She has received numerous teaching awards, an achievement award from the Department of Veterans Affairs, and was elected to the National Academy of Medicine in 2015. She was selected to the 2019-2020 Best Doctors in America. She was named a *Triad Power Player* and Most Admired CEO in 2018 by the Triad Business Journal. In addition to serving in various national and international leadership roles, she has mentored students, residents, and young faculty and is a frequent speaker on topics ranging from her expertise in vascular diseases, teamwork and patient safety, leadership and work-life balance to women succeeding in health professions. Dr. Freischlag has dedicated her career to serving as a role model for her students and is a respected colleague across health professions, a strong community leader, and a national voice for improving health and health care.

In addition to her responsibilities as CEO and dean, she continues to see patients in the department of vascular and endovascular surgery and serves on the boards the Aga Khan University Board of Trustees, University of Illinois Health Advisory Council, University of Pittsburgh School of Medicine Board of Visitors, the American Association of Academic Health Centers Board of Directors, the Association of American Medical Colleges Board of Directors, the American Hospital Association's The Changing Workforce Task Force, the *Vascular Cures* Scientific Advisory Board, the National Institute of Health's Clinical Center Research Hospital Board, and the *JAMA* Editorial Board. Dr. Freischlag serves on the board of Piedmont Triad Partnership, Winston-Salem Business, Inc., Winston-Salem Chamber of Commerce and the Winston-Salem Alliance.

A Fellow of the American College of Surgeons (ACS) since 1991, Dr. Freischlag has served in various leadership roles within the organization. She served as an ACS Governor (2000-2006) and an ACS Regent (2006-2015), among other leadership positions. Dr. Freischlag is currently the 2020-2021 President-Elect of the ACS.

# ON-DEMAND POSTER PRESENTATIONS

Posters can be viewed at [facs.org/aeisummit](https://facs.org/aeisummit)

Joseph Crutcher, DHS

*Ascension Providence Hospital*

**Staff Attitudes Toward Medical Students During Operating Room Clerkship**

Lacy Gee, DNP

*Naval Medical Center Portsmouth*

**Using Simulation to Teach Perioperative Nursing Skills**

Faiz Tuma, MD, MEd, EdS, FACS, FRCSC

*Central Michigan University College of Medicine*

**Introduction of Advanced Surgical Tasks Simulation for General Surgery Residency Training**

Faiz Tuma, MD, MEd, EdS, FACS, FRCSC

*Central Michigan University College of Medicine*

**Distance Scientific Conferencing Platforms at the COVID-19 Pandemic Social Physical Distancing**

Faiz Tuma, MD, MEd, EdS, FACS, FRCSC

*Central Michigan University College of Medicine*

**Teaching Using Imagery Thinking Approach with Animated Infographic**

Faiz Tuma, MD, MEd, EdS, FACS, FRCSC

*Central Michigan University College of Medicine*

**Topic-Specific Learning-Progress-Based Teaching**

William Yi, MD

*University of Pennsylvania*

**Virtual TeamSTEPPS Training in AR**

Madhuri Nagaraj, MD

*University of Texas Southwestern Medical Center*

**Creating a Proficiency-based Remote Laparoscopic Skills Curriculum for the COVID-19 Era**

Lauren Javernick, MD

*University Hospital, University of Texas Health Science Center at San Antonio*

**The Obstetric Code: Improvement and Evaluation through Multidisciplinary Simulation**