

SAGES NBT INNOVATION WEEKEND



SAGES NBT Innovation Weekend

January 23-25, 2025



SDTS AGENDA

Chairs: Erik Wilson

Co-Chairs: Filippo Filicori, Sarah Samreen, Steve Bell

Thursday, January 23, 2025

Welcome Reception: 7:00PM - 9:00PM | The Woodlands Foyer

Friday, January 24, 2025

Registration: 7:00 AM-6:00 PM | The Woodlands Foyer

Sessions: 7:15 AM-5:00 PM | The Woodlands Ballroom

Innovation Dinner: 6:00 PM-8:30 PM | Emerald Ballroom

7:00 AM - 8:15 AM | *Breakfast*

7:15 AM - 7:25 AM | **Opening Welcome and Introductions** | *Christopher Schlachta & Erik Wilson*

7:25 AM – 11:50 AM | **The Digital Surgery Landscape**

These sessions will explore issues associated with integrating digital technology into surgical practice, evaluating the potential advantages and drawbacks of training and education with digital platforms as well as the changes digital analysis, augmented reality and machine learning can make in the operating room.

Multiple sessions and panel discussions will include the following topics:

7:25AM - 7:35 AM | 2024: Where are We Now with Surgical AI?

Speaker: Filippo Filicori

7:35AM - 8:35 AM | Where do we go from here?

Moderators: Filippo Filicori, Gretchen Jackson

Speakers (7 Minutes Each)

Mahdi Azizian | Towards Physical AI in Surgery

Carla Pugh | The Future of Regulatory and Industry Relationship in Big Data Age

Danail Stoyanov | Synthetic Data: A Real-World Data Alternative

Margaux Masson | Enhancing Task Assessment Using Video Analytics

Vikram Mohan | Open and Connected OR Ecosystems

Matt Kroh | Fully Integrated OR Infrastructure

Panel Discussion: (15 Minutes)

8:35AM - 9:10 AM | Convince Me your AI Works and Can Generate ROI

Moderators: Jonah Stulberg, Carla Pugh

Speakers: (7 Minutes Each)

Dennis McWilliams – VC Perspective
Marc Paradis – Institutional Perspective
Matt Kroh – Industry Perspective
Gretchen Purcell – Industry Perspective
Panel Discussion: (15 Minutes)

9:10AM - 9:50 AM | Connectivity and Data Storage

Moderators: Caitlin Houghton, Maria Altieri

Speakers: (7 Minutes Each)

Marc Paradis | Creating the Right Pipeline for Data Management
Francesco Bianco | The State of Connectivity in the U.S.: Shaping the Present and Future of Remote Surgery
Darren Porras | AI- It's a Connectivity Problem
Dennis Fowler | The Communication Ecosystem for Telesurgery and Remote Procedures

Panel Discussion: (10 Minutes)

9:50 AM - 10:15 Networking Break

10:15 AM - 11:15 AM | Agents for Efficiency and Simulation Improvement

Moderators: Ozanan Meireles, Margaux Masson

Speakers: (7 Minutes Each)

Teodor Grantcharov | Use of Real Time Computer Vision to Improve Operational Hospital Efficiency
Tamir Wolf | Multimodal Models for Performance Assessment and Improvement
Anand Malpani | AI and Closed Loop Training
Tony Jarc | Breaking Down Technical Performance with Objective Performance Indicators
David Atashroo | Not My Job: Employing AI Operational Assistants to do the Work We Can't and Don't Want to Do
David Schummers | Real World Impact of AI in the Operating Room

Panel Discussion: (15 Minutes)

11:15AM – 11:45 AM | My Favorite Teaching and Performance Feedback Tool

Moderators: Jonah Stulberg, Caitlin Houghton

Speakers (1.5 Minutes Each)

Oscar Olavarria Standard Lap Box Trainer	Allan Kirk OR Black Box
Ray Fryrear Polyphonic	Filippo Filicori Intuitive Case Insights
Barham Abu Dayyeh Boston Augmented ESG Trainer	Michael Cook Touch Surgery
Todd Wilson Endoquest Sim	Maria Altieri Train the Trainer Course

Panel Discussion: (15 Minutes)

11:45 AM – 12:20 PM | Autonomous Robotic Platforms

Moderators: Gretchen Purcell, Mahdi Azizian

Speakers: (10 Minutes Each)

Justin Chen | Autonomous Robots
Ken Goldberg | Autonomous Robots

Panel Discussion: (15 Minutes)

Panelists: Tom Calef, Todd Usen, Ken Goldberg, Justin Chen

12:25 PM-1:30 PM | Lunch Session – Generative AI and the OR of the Future

This panel will examine how digital integration into the operating rooms will create a new ecosystem for comprehensive feedback and performance improvement and assess the impact that big tech companies can have on procedural medicine.

Moderators: Joe Mullings, Filippo Filicori

Panelists: Mahdi Azizian, Gretchen Jackson, Fraser Gillies, Shan Jegatheeswaran, Matt Kroh, Mark Soliman, Nadine Haram, Oz Meireles

1:30 PM - 2:45 PM | An Innovators M&M

This session is a new twist on a regular event in the life of surgeons: the morbidity and mortality conference. M&M is an open forum where a surgeon discusses a complication that occurred from a surgical case with colleagues, analyzing it with an honest view to try to determine what could have been done better to improve the outcome. This M&M is no different but the surgeons are replaced by innovators and the complication is not from a surgery but from a company and its devices. We will hear the cases, looking at past decisions and learning in hopes of making better moves in device development in the future. Each panelist will present a company or device followed by feedback from the audience.

Moderator: Billy Cohn

Speakers: (10 minutes each)

Lee Swanstrom | A Great Idea isn't Always a Good Idea

Stacey Pugh | Making Negative Data into a Catalyst

Steve Bell | Sometimes We Are Just Trying to Boil the Ocean

Todd Usen | Quick Course Changes are Often Critical

Allan Kirk | The Challenge of Patient and Physician Behavior Change

Doug Pollock | Training Surgeons Can be Such a Waste of Time and Money

Panel Discussion: (15 Minutes)

2:45 PM -3:10 PM | Networking Break

3:10 PM -5:15 PM | SAGES Shark Tank Semi Finals

The SAGES Shark Tank semi-finals was very well received last year and will be live and in-person again. Ten innovations will be presented and evaluated with audience and panel participation. The finalists will be selected from the group for the Finals at SAGES Annual Meeting. An audience favorite from the semifinals will be announced and each semi-finalist will have 8 minutes to present plus discussion.

Moderators: Jon Gould, Christopher Schlachta

Speakers: (8 minutes each with 3 minutes each for questions)

Deborah Keller | Evolving Education

Neta Glaser | Hakala Surgical

Kovi Bessoff | Ictero Medical

Sunghoon Kim | Pediatric Medical Device

Steven Bowers | Suture Shield

Adom Dumanian | Mesh Suture

Inara Lalani | FemTherapeutics

Liam Burns | Qaelon Medical

Siddarth Desai | Pristine Surgical

Bill Payne | Xtraction

Panel Discussion and Audience Favorites: (15 min)

6:15 PM -7:30 PM | Cocktails followed by Dinner Discussion: A Fireside Chat with Leaders in Innovation

This dinner discussion will engage three leaders in surgical innovation with broad and varied background to discuss the challenge of driving new technology into the operating room. New robotic clearances, advanced endolumenal growth, and M&A pathways

Moderator: Erik Wilson

Panelists:

Mike Clothier

Stacey Pugh

Billy Cohn

Open Discussion: (50 Minutes)

Saturday, January 25, 2025

Registration: 7:00 AM - 4:00 PM | The Woodlands Foyer

Sessions: 7:15 AM - 5:00 PM | The Woodlands Ballroom

7:00 AM - 8:15 AM | *Breakfast*

7:15 AM - 12:00 PM | My Favorites

The my favorites format was very popular last year and returns in full force with new topics. This session will compare and contrast surgical devices and techniques with short explanations of each approach and a comprehensive question and answer discussion. Panelists will spend one minute describing their approach and then an open debate of technique and devices will continue until potential gaps in the toolset are revealed that could lead to further innovative options for the future of procedures.

7:15 AM-7:50 AM | My favorite MacGyver Surgical Hack or Tool

Moderators: John Romanelli & Gordon Wisbach

Speakers:

Kelvin Higa Stapler for Achalasia	Pearl Ma Optical Trocar Lysis of Adhesions
Nirav Thosani Soehendra Lithotripter	Lee Swanstrom Lap Slipknot
Andre Texeira 2.8 mm Nanoscope	Oscar Olavarria Endovacs
Shinil Shah Lap Inguinal Penrose	Helmuth Billy Steristrip for Cords
Julie Holihan Laparoscopic Tip Raytec Suction	Barham Abu Dayyeh EUS Coiling
Filippo Filicori Creo Vessel Sealer	

Panel Discussion: (15 Minutes)

7:55 AM-8:35 AM | My Favorite Surgical Assistant

Moderators: Dennis McWilliams, Todd Usen

Speakers:

Todd Wilson A Good Chair	Julie Holihan Fellows	Mickey Seger Fellows
Monika Hagen Ottava	Andre Texeira DaVinci	Dana Portenier Levita MARS
Dave Noonan Moon Surgical	Nestor De La Cruz Juan Carlos	Dmitry Oleynikov Me, Myself & I
Dennis Fowler Voice Activated Camera	Allan Kirk A High End Scrub Nurse	
Barham Abu Dayyeh Palliare		

Panel Discussion: (15 minutes)

8:35 AM-9:10 AM | : The Favorite Thing in the Operating Room that I Would Most like to Disappear

Moderators: Darren Sherman, Brian Tinkham

Speakers:

Dmitry Oleynikov All the Towers	Ray Fryrear All the Extra Stuff	Melissa Felinski Airseal
Cole Cowling All the Cords	Shinil Shah All the Booms	Gene Coppa Circulating Nurses
Lee Swanstrom Epic	John Romanelli Turnover Time	Andre Texeira Bully Robots
Michael Cook Circulating Nurses	Allan Kirk Anything that Makes Noise	
Nestor De La Cruz Ultra Detailed Timeouts		

Panel Discussion: (15 minutes)

9:10 AM-9:35 AM | So my Favorite Magnets are here: What Really Changes?

Moderators: Erik Wilson, Sarah Samreen

Speakers:

Thierry Thaire | GT Metabolics Brian Tinkham | GI Windows

Panel Discussion: 15 minutes

Panelists: Helmuth Billy, Melissa Felinski, Thierry Thaire, Brian Tinkham

9:35 AM-9:50 AM | Networking Break

9:50 AM-10:30 AM | My Favorite Approach to Funding Medtech Innovation

Moderators: Manisha Shah-Bugaj, Darren Sherman

Speakers:

David Atashroo | Earned Revenues

Adrian Park | Chief Innovation Funding

Lee Swanstrom | Nondilutive Grants

Todd Usen | Venture Capital and Private Equity

Billy Cohn | Me and the VC

Mark Soliman | Angel Investors

Ray Onders | State Tax Breaks / Grants

Dana Portenier | Study Residuals

Brian Tinkham | Strategic Partnership

Panel Discussion: (15 minutes)

10:30 AM-10:55 AM | My Favorite Advanced Insufflation: is that Really a Thing?

Moderators: Brian Dunkin, David Goldman

Speakers:

John O'Dea-Palliare, Carl Geisz-Lexion

Panel Discussion: (15 minutes)

Panelists: Barham Abu Dayyeh, Julie Holihan, John O'Dea, Carl Geisz

10:55 AM-11:25 AM | My favorite Disposable Device Which I Wish I Could Reuse and Not Throw Away:

Moderators: Monika Hagen, Lee Swanstrom

Speakers:

Shinil Shah | Staplers

Julie Holihan | M Close

Helmuth Billy | Sutureease

Adrian Park | Ligasure

Nirav Thosani | Stent Deployers

Filippo Filicori | Choledochoscope

Barham Abu Dayyeh | USGI Transport

Nestor DeLaCruz | Harmonic Scalpel

Panel Discussion: (15 minutes)

11:25 AM-11:55 AM | My favorite AI generated operative reports: is that really a thing?

Moderators: Erik Wilson, Lee Swanstrom

Speakers:

Madhi Azizian | NVidia

Tamir Wolf | Theator

Panel Discussion: (15 minutes)

Panelists: Bruce Ramshaw, Michelle Scerbo, Tamir Wolf, Mahdi Azizian

12:00 PM - 1:15 PM | My Favorite Unmet Surgical Need

This lunch session will take the my favorites format and dive into what clinical problems exist which surgeons find common or important. The clinic, operating room, and procedure suite all have daily challenges which innovation has failed to fully address. The panel members will present one of their most relevant challenges and a discussion will proceed to determine why these areas of clinical practice have been so difficult to solve.

Moderators: Lee Swanstrom, Dennis McWilliams

Speakers:

Liam Burns | Detecting GI Leaks

Vip Patel | Telesurgery

Thomas Wenchell | True Objective Feedback During Stapling

Billy Cohn | An Artificial Heart

Mickey Seger | The False Promise of Obesity Meds

Barham Abu Dayyeh | A Durable Procedure for Diabetes

Adrian Park | Affordable Developing World MIS Platform

John Romanelli | Truly Efficient Room Turnovers

Nitin Tandon | A Faster Accurate Way to Access the Brain

Helmuth Billy | The Perfect Sleeve Gastrectomy

Panel Discussion:*(25 minutes)*

1:15 PM - 5:00 PM | Digital Surgical Platforms: State of the Technology

The recent substantial rise in robotic surgical platforms has occurred with soft tissue robotics receiving large amounts of investment, research, engineering, and commercialization. Surgical robots are being made and released all over the world and the focus of these platforms are broad and varied. These sessions will evaluate current, new to market, and potential digital surgical platforms which argue to become the new way we will operate and perform advanced procedures over the next 5 to 10 years. Robotic platforms will be presented in multiple sessions with panel discussions encompassing the following topics.

1:15 PM-2:15 PM Finally, A LOT of Robotic Platforms!

Moderators: Steve Bell, Vip Patel

Speakers: *(4 Minutes Each)*

Asensus Luna: Mike Cook	Ronovo Carina: Zihan Lin	Virtual Incision Mira: Shane Farritor
Distalmotion Dexter: Greg Roche	Rob Surgical: Todd Usen	CMR: Mark Slack
Vicarious: Adam Sacks	Moon Maestro: David Noonan	Asian Platforms: Vip Patel

Panel Discussion: *(15 minutes)*

2:15 PM -2:55 PM Contrasting Strategic and Startup Viewpoints in Robotic Surgery

Moderators: Erik Wilson, Joe Mullings

Panelists:

Intuitive DaVinci: James Wall	Medtronic Hugo: Rajit Kamal	
J&J Ottava: Rocco DeBarnadis	CMR: Mark Slack	
Virtual Incision: Piet Hinoul	Distalmotion: Greg Roche	Sovato: Dennis Fowler

2:55 PM-3:15 PM | Networking Break

3:15 PM-3:45 PM | My Favorite Procedure to Perform Robotically

Moderators: Sarah Samreen, Todd Usen

Speakers:

Helmuth Billy Duodenal Switch	Lee Swanstrom Vagus Sparing Esophagectomy	Nirav Thosani ESD
Filippo Filicori Gastric Bypass	Julie Holihan Robotic TAR	Shinil Shah Whipple
Todd Wilson Paraesophageal Hernia	Ed Parra Davila Complex Hernia and Colon	
Monika Hagen Gastric Bypass		

Panel Discussion: *(15 minutes)*

3:45PM -4:15 PM | My Favorite Console Movements to Evaluate a Robot I have Never Used Before

Moderators: Fred Moll, Ray Fryrear

Speakers: *(1.5 Minutes Each)*

Melissa Felinski Camera Clutching with Instruments	Shinil Shah Moving Around the Field
Steve Bell Suture Driving Through Hard Material	Helmuth Billy Wristed Transfer of Needles
Nestor DeLaCruz Figure of Eight Movement	Todd Usen Moving my Hand to Myself
Andre Texeira Upside Down	Todd Wilson Tip to Tip Instruments
Monika Hagen Max Flex & a Roll of Gimbles	Ed Parra Davila-Abdominal Space Mapping

Panel Discussion: *(15 minutes)*

4:15PM -5:00 PM | Endolumenal Robotic Platforms

Moderators: Dennis McWilliams, Barham Abu Dayyeh

Speakers: *(4 minutes each)*

Endoquest-Todd Wilson	Virtuoso: Duke Harrell
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Davinci SP: Rahila Essani

Mendaera: Josh Defonzo

X-cath: Eduardo Fonseca

Panel Discussion: *(15 minutes)*

Surgical Automations: Sanket Chauhan

Obvius: Billy Cohn

Neptune: Erik Wilson

5:00PM | Thanks and Adjournment