

SAGES NBT INNOVATION WEEKEND



AGENDA - SDTS and SAGES NBT Summit

February 2-4, 2023

Chairs: Erik Wilson and Christopher Schlachta



Thursday, February 2, 2023

Registration: 5:00pm-8:00pm

Welcome Reception: 7:00pm-9:00pm

Friday, February 3, 2023

Registration: 7:00am-6:00pm

Sessions: 7:45am-5:00pm

Innovation Dinner: 6:00pm-9:00pm

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

7:30-7:45 AM | Opening Welcome and Introductions: Christopher Schlachta & Erik Wilson

7:45-11:45 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.

7:45-8:30 AM **AI in Health Care Primer**

Moderators: Patricia Sylla & Gretchen Purcell Jackson

7:45 AM Intraoperative decision making - Teodor Grantcharov

7:55 AM Simulation and training/education - Carla Pugh

8:05 AM Service line management - Filippo Filicori

8:15 AM Panel Discussion

8:30-9:30 AM **Using data to help optimize outcomes or decision making intraoperatively** (6 min each)

Moderators: Filippo Filicori & Aurora Pryor

Antony Jarc: Integrated Intelligence with da Vinci

Zoran Kostic: Bringing Artificial Intelligence to the Operating Room – Edge computing for Real Time Surgical Phase Recognition

Danail Stoyanov: Data Enabled Intra-operative Visualization Enhancement

Adrian Park: AI Advances in Surgical Vision

Jonah Stulberg: Turn-By-Turn Guidance for Perioperative Staff & Lane Assist for Surgeons via Computer Vision

Rick Lombardi: Immersive Virtual Reality for Surgical Training

9:30-10:30 AM **Using digital technology to enhance surgeon training and education** (6 min each)

Moderators: Carla Pugh & Antony Jarc

Danail Stoyanov: Datasets or Architectures: The keys towards computer-assisted surgical skill quantification?

Elliot Street: Connected Surgical Training: Critical features for digital surgery in simulation

Stefan Tuchschnid: Simulation X: Taking a Digital Learning Continuum Approach to Drive Surgical Proficiency

Amin Madani: AI and Computer Vision for Augmentation of Surgical Performance

Vahagn Nikolian: Actual Intelligence & Artificial Intelligence for quantifying Surgical Technique

Gretchen Jackson: A Digital Ecosystem to Enable Lifelong Learning

10:30-10:50 AM | *Break*

10:50-11:50 AM Service Line Management – Optimizing Healthcare at the Program Level (6 min each)

Moderators: Caitlin Houghton & Teodor Grantcharov

Chris Neighorn: Maximizing your investment in minimally invasive surgery

Peter Nau: Surgeon Nudges - Predictive Analytics and Computer Vision for capacity management & throughput optimization

David Schummers: Operating theater metrics

Vanessa Palter: Data-driven decision making to drive improvements in operating room safety and efficiency

Bruce Ramshaw: Moneyball for Healthcare: Applying Data Science to Real Patient Care

David Atashroo: Before the First Cut - Using AI & Automation to Modernize OR Scheduling and Improve Day-Of Efficiencies

12:00-1:00 PM | Lunch - Paying for Innovation Panel

Moderator: Jon Salvesson

Invited Speakers: Helmuth Billy, George Eid; Dennis McWilliams, Joe Mullings, Todd Usen, Tom Calef, Darren Sherman

The cost of innovation applies across many aspects of the health care system from the investor to the entrepreneur to the provider. This panel will examine how the value propositions of bringing life changing ideas and devices to the health care environment compare and contrast among the various participants in the process. We will look at the perspectives of the investor, entrepreneur, hospital, and physician in this open panel discussion.

- Hospital Perspective
- Surgery Center Perspective
- Entrepreneurs Perspective

1:00-2:40 PM | An Innovators M&M

(10 min each)

Moderator: Joe Mullings

Invited Speakers: Barham Abu Dayyeh, Kourosh Azarbarzin, William Cohn, Ashok Gowda, Nova Szoka, Natan Zundel

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 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.

2:40-3:00 PM | Break

3:00-5:00 PM | SAGES Shark Tank Semi Finals

Moderators: Steven Schwaizberg & Christopher Schlachta

The SAGES Shark Tank semi-finals will be live and in-person this year. Nine 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 in Montreal. An audience favorite from the semifinals will be announced and previous Shark Tank winners will present an update on their progress. Each semi-finalist will have 8 minutes to present plus discussion.

- AssistIQ Technologies Inc - Lisa Israelovitch
- Exero Medical - Erez Shor
- Hays and Hadley Designs, LLC - Aaron Hays & Scott Hadley
- Idion, Inc - Samara Barend
- NICE Surgical - Eric Haas
- RevMedica - Tom Wenchell
- S.H.L.L. - Zachary Plona
- Volz Surgical Consulting - Lawrence Volz
- Xenocor - John Langell

6:00-9:00 PM | Cocktails followed by Dinner Discussion: How Can You Help the Surgeon?

Moderator: Erik Wilson

Panelists: Tom Calef, Ashok Gowda, Teodor Grantcharov, Pablo Kilroy Garcia, Elizabeth McGloughlin, Julian Nikolchev, David Schummers, Eran Shlomovitz

This year, the surgical innovation dinner will again focus on surgeons presenting a challenging problem they have dealt with in their practice and a panel of innovators brainstorming potential innovative solutions as well as what's currently on the market that has not been well utilized or misses the mark for the problem.

Presentations (30 min each):

- Where's the leak or the bleeding? Localizing a problem – Caitlin Houghton & Erik Wilson
- I can't see! Scope issues, fogging, dirtying, field of view, wrong spectrum - Helmuth Billy
- I'm sick of waiting! Between cases, during the case for equipment, instrument exchanges, latency of instruments - Aurora Pryor
- This hurts! Ergonomic challenges to surgery and endoscopy: consoles, tables, scopes - Sharona Ross

Saturday, February 4, 2023

Registration: 7:00am-4:00pm

Sessions: 7:45am-5:00pm

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

7:45 AM-12:00 PM | **My Favorites**

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.

7:45-8:10 AM **My favorite Liver Retractor | Moderators:** Erik Wilson & Darren Sherman

- Steven Schwaitzberg: articulating round circle retractor
- Dan Azagury: articulating pretzel retractor
- George Eid: diamondflex articulating retractor
- Natan Zundel: laparoscopic grasper
- Rachel Moore: Nathanson retractor
- Michael Cook: Nathanson with Martin Arm
- Naru Ikoma: handmade rubber and hook
- Roger De La Torre: Freehold retractor

8:10-8:35 AM **My favorite Endoscopic Stapler | Moderators:** Aurora Pryor & David Goldman

- Steven Schwaitzberg: Tristaple 45 stapler
- Nova Szoka: Signia 60 stapler
- Naru Ikoma: Echelon 60 stapler
- John Mellinger: Whatever's on contract
- Helmuth Billy: Lexington stapler
- Sharona Ross: Robotic 45 stapler
- Roger De La Torre: Robotic Sureform 60 stapler
- Todd Wilson: Titan stapler

8:35-9:10 AM **My favorite Emerging Weight Loss Procedure | Moderators:** Erik Wilson & Brian Tinkham

- Rachel Moore: medications
- Leena Khaitan: ESG
- Roman Turro Arau: double grasped POSE
- Barham Abu Dayyeh: endolumenal bypass
- Michael Cook: endolumenal barrier sleeves
- Aurora Pryor: SADI
- Helmuth Billy: OAGB
- Natan Zundel: Bariclip

9:10-9:35 AM **My favorite Diabetes Treatment | Moderators:** Dan Azagury & Dennis McWilliams

- Leena Khaitan: medications
- Barham Abu Dayyeh: endolumenal duodenal regeneration
- George Eid: gastric bypass
- Todd Wilson: sleeve gastrectomy
- Helmuth Billy: SADI
- Aurora Pryor: Duodenal switch

9:35-10:00 AM | *Break*

10:00-10:25 AM **My favorite Anastomosis | Moderators:** Helmuth Billy & Todd Usen

- Patricia Sylla: circular stapled
- Michael Cook: tranoral Orvil stapled
- John Mellinger: side to side double linear stapled
- Maria Altieri: linear stapler with endostitch handsewn closure
- Roger De La Torre: two layer hand sewn anastomosis
- Sharona Ross: one layer hand sewn anastomosis
- Stavros Stavropoulos: endolumenal opposing stent
- Barham Abu Dayyeh: endolumenal sutured
- Roman Turro Arau: endolumenal magnetic anastomosis

10:25-10:50 AM **My favorite Polypectomy | Moderators:** Barham Abu Dayyeh & Tom Calef

- Christopher Schlachta: lift endoloop
- Filippo Filicori: Endoscopic submucosal dissection
- Stavros Stavropoulos: Dilumen endoscopic resection and closure
- George Eid: Combined endolumenal laparoscopic resection
- Patricia Sylla: TAMIS
- Todd Wilson: robotic endolumenal resection

10:50-11:20 AM **My favorite Vessel Sealing Device | Moderators:** Leena Khaitan & Billy Cohn

- Sharona Ross: fenestrated bipolar
- Patricia Sylla: Ligasure
- Michael Cook: Ligahook
- George Eid: Sonocision
- Dan Azagury: Harmonic scalpel
- Aurora Pryor: Thunderbeat
- Filippo Filicori: Robotic vessel sealer
- Steven Schwaitzberg: Coolseal

11:20-11:50 AM **My favorite Hemostatic Agent | Moderators:** Patricia Sylla & Leena Khaitan

- John Mellinger: pressure and Surgicel
- Dan Azagury: Arista
- Aurora Pryor: suture
- Maria Altieri: clips
- Erik Wilson: reinforced staple line needle driver compression
- Sharona Ross: Tissel
- Nova Szoka: Floseal
- Steven Schwaitzberg: Surgiflow
- Christopher Schlachta: Bioglue
- Barham Abu Dayyeh: tranendolumenal vascular coiling

12:00-1:15 PM | **Lunch - Dave Rosa - Transforming the Future of Patient Care**

A decade ago, many questioned the efficacy and value of robot-assisted surgery programs in advancing care. Today, more than 30,000 peer-reviewed publications have assessed these programs, and hundreds of real-world evidence analyses have substantiated the safety and performance of Intuitive products translating to potential economic value. Today, robotic-assisted surgery platforms enable healthcare teams to extend and improve minimally invasive care, taking surgery beyond the limits of the human hand.

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

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.

1:15-2:30 PM **The Robotic Based Ecosystem in the Global Market**

Moderator: Filippo Filicori

- 1:15 PM Michael Stow (Medtronic) - Beyond Robotics
- 1:30 PM Mark Slack (CMR) - Digital ecosystems in surgical robotics
- 1:45 PM Bill Gawkins (J&J) - Helping to Enable Smarter, Less Invasive, and More Personalized Intervention
- 2:00 PM Panel Discussion

2:30-2:50 PM | **Break**

2:50-3:50 PM **Approved and Emerging Systems**

Moderators: Todd Usen & Caitlin Houghton

- 2:50 PM Michael Cook (Ansensus) - 3mm robotic instrument surgery with haptics
- 3:00 PM Michael Friedrich (Distalmotion) - On demand robotic surgery
- 3:10 PM Matthew McKittrick (Momentis Surgical) - Fueling Innovation: Transforming Robotics with the Least Invasive Approach
- 3:20 PM Francesco Bianco (Intuitive) - Is robotic single port a less invasive alternative?
- 3:30 PM Panel Discussion

3:50-4:50 PM **Platforms in Development and Approval**

Moderators: Joe Mullings & Patricia Sylla

- 3:50 PM Dmitry Oleynikov (Virtual Incision Corp.) - Update on a miniature robot FDA trial
- 4:00 PM Todd Wilson (Endoquest) - Endolumenal robotic surgical platforms
- 4:10 PM Alberto Rodriguez-Navarro (Levita) - MARS platform
- 4:20 PM Adam Sachs (Vicarious) - A next generation robotic company seeking improved cost, efficiency and outcomes
- 4:30 PM Panel Discussion

PARTNERS

INTUITIVE

Medtronic
Engineering the extraordinary

SPONSORS

ACTIV
SURGICAL

Baxter

CONMED

GORE

HOLOGIC

Inovus
Medical

MOMENTIS
SURGICAL

Opalliare

STANDARD
BARIATRICS

Teleflex

VIRTAMED

PARTICIPANTS

apollo
endosurgery

Distalmotion

PRISTINE SURGICAL

SAGES is grateful to Dr. Pon Satitpunwaycha for his generous donation, and to SAGES Foundation. These summits are made possible in part through this transformative gift.