AGENDA - SDTS and SAGES NBT Summit
February 22-24, 2024
Chairs: Erik Wilson and Christopher Schlachta

Thursday, February 22, 2024
Registration: 5:00pm-8:00pm
Welcome Reception: 7:00pm-9:00pm

Friday, February 23, 2024
Registration: 7:00am-6:00pm
Sessions: 7:45am-5:00pm
Innovation Dinner: 6:00pm-8:30pm

7:00-8:15 AM | Breakfast

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

7:25-11:50 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:

7:25-7:35 AM  | 2023: A Monumental Year for Technological Innovation in Review: Filippo Filicori

7.35-8.25 AM | Postoperative and Intraoperative Navigation Tools
Moderators: Teodor Grantcharov and Anthony Jarc

Imanol Luengo: Unlocking the Power of Surgical Video
Jocelyn Barker: Accelerating and Scaling AI Model Deployment for Surgical Video Analysis
Ozan Meireles: Surgical Operating System
Nobuyoshi Takeshita: Deep Learning-Based Anatomical Image Recognition Models in Laparoscopic Surgery
Mahdi Azizian: New frontiers in Edge Computing, Nvidia’s Perspective
Panel Discussion 15 min

8:25-9:10 AM | Video Capture Approaches and Annotations, Telementoring, Telepresence, and Telesurgery
Moderators: Daniel Donoho and Oz Meireles

Natalie Holger: Theator Intraoperative Assistance
Nadine Haram: Unlocking Breakthroughs in Surgical Excellence Through OR Video Data
Margaux Masson: Enhancing Medical Research: Applying AI In Surgical Video Analysis
Dennis Fowler: Is It (Finally) Time for Remote Surgery?
Panel Discussion 15 min

9:10-9:55 AM | Objective Performance Indicators and Digital Gestures
Moderators: Gretchen Purcell Jackson and Filippo Filicori

Dani Kiyasseh: Decoding Surgery with Artificial Intelligence
Anthony Jarc: Toward Clinically Meaningful Solutions: Leveraging Objective Metrics in Robotic-Assisted Surgery
Sarah Choksi: Kinematic Data To Unlock The True Power Of Robotic Surgery
Richard Vincent: Performance Analysis from Simulator Platforms
Panel Discussion  15 min

9:55-10:25 Coffee break

10:25-11:15 AM | Digital Enhancement of Operating Theater and Surgical Efficiency
**Moderators:** Jonah Stulberg and Matthew McKittrick

Bora Chang: Patient Centered AI: A Focus on Patient Outcomes Is A Focus Of Surgical Efficiency
Teodor Grantcharov: Optimizing Operational Efficiency In Surgery: Objective Data And Modern Science
David Atashroo: Do What You Want, How You Want, When You Want: LLM And AI In Surgical Practice
David Schummers: Scalable Applications of AI in Surgery
Nadine Haram: The Power Of Data In Measuring Success And Driving OR Efficiency

Panel Discussion  15 min

11:15-12:00 PM | Infrastructure, Governance and Regulation in Artificial Intelligence
**Moderators:** Pat Sylla and Nadine Haram

Gretchen Purcell: Clinical Nuances in AI Evaluation
Daniel Donoho: The New Ages and The New Rules Of Health Care Data
Bruce Ramshaw: Algorithms For Good: Using AI for a Sustainable Healthcare System
Darren Porras: Bridging The Connectivity Gap, Intelligent Data Flow for Digital Surgery

Panel Discussion  15 min

12:00-1:20 PM | Lunch – The Changing Centers of Care Are Driving Innovation

The pathway of innovation applies across many aspects of the health care system from the investor to the entrepreneur to the provider. Just as devices and procedures are disruptive, new disruptive centers of care are transforming surgical approaches. Home hospital models, outpatient surgical centers, community hospitals, and tertiary referral centers are all developing and evolving. This panel will examine how the value propositions of bringing life changing ideas and devices to the health care environment modify with these adjusting centers of care and by extension how the changing centers of care are being altered by innovation

**Moderator:** Joe Mullings

**Invited Speakers:** Ashley Seehusen, Feby Abraham, Tom Calef, Greg Roche, Stefan Kreuzer, Kurt Azarbazin

1:20-2:45 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 were 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

Ray Onders: A Failed 510K
Barry Salky: A Great Product but A Failure: What Happened?
Ashley Seehusen: Not All Great Ideas Are Fundable
Helmuth Billy: Why Is My Voice Still Silent in The OR?
Steven Schwartzberg: Great Idea, Wrong Team, Wrong Time, Wrong Buyer
Kurt Azarbarzin: Why No Endoluminal Robot Yet?

Panel Discussion  15 min

2:45-3:15 PM | Break
3:15-5:00 PM | SAGES Shark Tank Semi Finals

Innovative technology startups will be given the opportunity to present and be evaluated with audience and panel participation. SAGES Shark Tank Finalists will be selected from this group for the final competition at SAGES Annual Meeting in Cleveland. An audience favourite from the semifinals will be announced. Each semi-finalist will have 8 minutes to present followed by discussion.

Moderators: Christopher Schlachta and Steven Schwaitzberg

EZ Future Systems: Abhijit Shaligram, Gautam Gupta, Manish Mohanka
VTI Medical: Angelo Tortola, Murray Froikin
Innovation Surgical: Maria Iliakova
Plio Surgical: Gareth Gallagher
Exero Medical: Erez Shor
TroCare: Jerry Sanders
Global Hospital: Garreth Wood
Diatiro: Tom Sorrentino
Panel Discussion and Audience Favorites 30 min

6:00-8:30 PM | Cocktails followed by Dinner Discussion: The New Normal in Innovation from 2019 to 2024

This dinner discussion will be provocative and engaging with Dr. Billy Cohn giving an overview of the process of innovation in and then a panel discussion comparing and contrasting the changes in the road of development new surgical technologies from 2019 to 2024. Economic challenges, financial support models, production supply chains and regulatory adjustments are vastly different in the past 5 years. A global pandemic changed many things in our surgical world including vast changes in how we innovate surgery.

Speaker: Billy Cohn
Moderators: Erik Wilson and Joe Mullings
Panelists: Fred Moll, Manisha Shah-Bugaj, Brian Dunkin, Billy Cohn, Dennis McWilliams, Darren Sherman, Carla Pugh

Saturday, February 24, 2024
Registration: 7:00am-4:00pm
Sessions: 7:45am-5:00pm

7:00-8:15 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. Topics being debated include the following:

7:15-7:50 AM | My Favorite Digital Surgical Analysis Tool: The panelists each have chosen one digital tool which they feel is useful during surgery or planning surgery. Moderators: Erik Wilson and Maureen Halligan
Intuitive Hub: Filippo Filicori  Theator: Barham Abu Dayyeh  Proximie: Natan Zundel
Activsite: Ed Parra Davila  Asensus: Michael Cook  Medical Holodeck: Billy Cohn
OR Black Box: Oz Meireles  SAGES CVS: Brian Dunkin  Caresyntax: Bruce Ramshaw
None Really Useful: Steven Schwaitzberg

7:50-8:20 AM | My Favorite Surgical Trainer or Simulator: The panelists each have chosen one tool or technique which they feel is useful for teaching surgical skills. Moderators: Carla Pugh and Tom Calef
SimNow: Filippo Filicori  Virtamed: Steven Schwartzberg  OSSO VR: Justin Barad
Surgical Sciences: Rick Hoedt  Vicarious Sim: Igor Belyanski  Chamberlain Abd Sim: David Noonan
Inovus Medical: Elliot Street  Patients: Travis Rogers

8:20-8:45 AM | My Favorite Ergonomic Tool in Surgery: The panelists each have chosen one tool or approach which they feel is useful for surgeon well-being. Moderators: Aurora Pryor and Manisha Shah-Bugaj
8:45-9:10 AM | My Favorite Tool for Incisional Hernia Repair: The panelists each have chosen one tool, material or approach which they feel is useful for repairing incisional hernias. **Moderators:** Todd Wilson and Ray Onders

- DaVinci Next Gen: Sharona Ross
- Moon Platform: David Noonan
- Surgical Speed: Ray Onders
- Dexter Platform: Greg Roche
- MARS: Chad Carlton
- A Good Chair: Todd Wilson
- Jokes and Music: Natan Zundel
- Purpose Built Attire: Barham Abu Dayyeh
- Surgical Speed: Ray Onders
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9:10-9:35 AM | My Favorite Ablative Energy Device: The panelists each have chosen one modality or tool which they feel is useful for application of energy in surgery. **Moderators:** Natan Zundel and Dennis McWilliams

- Laparoscopic Synecor: Helmuth Billy
- Proceed IPOM: Chris Schlachta
- Robotec Retromuscular: Igor Belyanski
- Don’t Make One: Pat Sylla
- Vicarious Platform: Adam Sachs
- Echo Positioning System: Jonah Stulberg
- Autoharvest of Skin: Michael Cook

9:35-9:50 AM | Break

9:50-10:15 AM | My Favorite Insufflation and/or Trocar System: The panelists each have chosen one insufflator or trocar which they feel is most useful for access and exposure laparoscopically. **Moderators:** Sharona Ross and Brian Tinkham

- Airseal: Steven Schwartzberg
- Whatever is Available: Rachel Moore
- Anything But Airseal: Jonah Stulberg
- Laparoshark: Helmuth Billy
- Needle and Suture: Rachel Moore
- Neoclose: Shelley Scerbo
- GI Windows: Erik Wilson

10:15-10:35 AM | My Favorite Trocar Closure Device or Technique: The panelists each have chosen one tool which they feel is useful for repairing trocar sites. **Moderators:** Santiago Horgan and Darren Sherman

- Laparoshark: Helmuth Billy
- Weck Teleflex: Michael Cook
- Carter Thomason: Pat Sylla
- Needle and Suture: Rachel Moore
- Neoclose: Shelley Scerbo
- Anaconda: Billy Cohn

10:35-11:05 AM | My Favorite Anastomotic Device or Technique: The panelists each have chosen one tool, material or approach which they feel is useful for creating luminal anastomoses. **Moderators:** Rachel Moore and Brian Dunkin

- Suture: Christopher Schlachta
- Barbed Suture: Shelley Scerbo
- Double Linear Stapler: Dmitri Oleynikov
- Seger IA60: Barry Salky
- FlexA by Cardica: Billy Cohn
- GI Windows: Erik Wilson

11:05-11:30 AM | My Favorite Flexible Endoscope: The panelists each have chosen one tool or device which they feel is useful for flexible visualization during endoscopy. **Moderators:** Ed Parra Davila and David Goldman

- Endoquest Endodrive: Todd Wilson
- DaVinci SP scope: Travis Rogers
- Boston Disposable EGD: Shelley Scerbo
- Endosound EUS: Brian Dunkin
- Olympus EndoEye: Natan Zundel
- Fuji Therapeutic: Michael Cook
- USGI IOP: Barham Abu Dayyeh

11:30-11:55 AM | My Favorite Endolumenal Tool: The panelists each have chosen one tool or approach which they feel is useful for addressing endolumenal procedures. **Moderators:** Santiago Horgan and Brian Dunkin

- Endoquest Endodrive: Todd Wilson
- DaVinci SP scope: Travis Rogers
- Boston Disposable EGD: Shelley Scerbo
- Endosound EUS: Brian Dunkin
- Olympus EndoEye: Natan Zundel
- Fuji Therapeutic: Michael Cook
- Overstim: Michael Cook

12:00-1:15 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.
1:15-5:00 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.

Ecosystems built into Robotic Platforms
Robotics Focused on the Site of Care
Variability in Robotics Patient Cart Footprints
Multiport versus Single Access Approaches
Ergonomic Approaches to Robotic Surgery
Task Focused Robotic Platforms in Surgery
Cost Efficient Models of Robotics Adoption

1:15-2:35 PM  Ecosystem Platforms Moderators: Erik Wilson and Kurt Azarbarzin

CMR Versius: Mark Slack  Intuitive DaVinci: Chris Carlson
Medtronic Hugo: Arvind Ramadorai  J&J Ottava: Rocco DeBernardis
Asian Robotic Systems: Travis Rogers  Cambridge Consultants: Alex Maret
Panel Discussion: 15 min

2:35-3:05 PM | Break

3:05-4:00 PM  Multiport and Singleport Platforms Moderators: Filippo Filicori, Fred Moll

Asensus: Michael Cook  Ronovo: Ed Parra Davila
Virtual Incision: John Murphy  Vicarious: Adam Sachs
Panel Discussion: 15 min

4:00-4:55 PM  Novel Approach Focused Platforms Moderators: Pat Sylla, Tom Calef

Moon Surgical: David Noonan  Distalmotion: Greg Roche
Levita: Alberto Rodriguez-Navarro  Endoquest: Todd Wilson
Panel Discussion: 15 min
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- Levita

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