

FAER

*Foundation for Anesthesia
Education and Research*

Featuring a Joint Session with
the Foundation for Anesthesia
Education and Research



REGISTRATION BROCHURE 2017

STA 2017 Annual Meeting January 11-14, 2017 Hilton San Diego Bayfront San Diego, California

#STA17SanDiego

Society for Technology in Anesthesia

6737 W. Washington St., Suite 4210 • Milwaukee, WI 53214 • (P) 414-389-8600 • (F) 414-276-7704 • www.stahq.org • stahq@stahq.org

MEETING ACCREDITATION INFORMATION

Activity Overview

The Society for Technology in Anesthesia (STA) 2017 Annual Meeting will provide a forum for discussion of the future of anesthesiology and innovation in perioperative care through application of bioinformatics and analysis of Big Data within perioperative medicine, advances in outcome measurement and tracking, novel approaches to education and advances in medical devices.

Target Audience

This live activity is designated for a national and international audience of physicians, engineers and industry members, as well as other practitioners in the field of anesthesia seeking an update on the current and future state of anesthesia technology.

Educational Objectives

As a result of participation in this CME activity, learners should be able to:

- Describe how anesthesiologists can transition between clinical care, entrepreneurial work and medical staff leadership.
- Understand multiple approaches to large scale database research and the statistical challenges within each.
- Review recent findings with obstetric and pain management derived from database analyses.
- Discuss the current state of outcome measurement and tracking in the anesthesia community.
- Describe systematic processes to resolve data definitions at a national clinical registry.
- Explore perioperative technology that is on the horizon and its potential impact on outcomes and finances.
- Describe novel approaches to education within perioperative medicine that leverage information technology.
- Review novel medical devices under development for respiratory monitoring and training in airway management.

Barriers to change:

- Translating advances with cutting-edge technology and novel insights from scientific evidence into change in routine clinical practice.

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Amedco and the Society for Technology in Anesthesia (STA). Amedco is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement

Amedco designates this live activity for a maximum of **17.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

PRE-CONFERENCE SESSION

Challenges and Opportunities in Developing Anesthesia Products (for industry)

Wednesday, January 11, 2017 • 0800 - 1200

This half day course is planned for industry by the scientist and researcher members of the STA involved in designing, testing and marketing new developments and products to anesthesiologists. Talks will provide participants with a basic understanding of the practice of anesthesiology and how to recognize opportunities for new products. Mini lectures and group discussions on key aspects of the clinical specialty, including anesthesia 'work', behaviors driving equipment usage, the state of anesthesia-induced unconsciousness and machine function. Simulator sessions using patient mannequins will allow course participants to actually become 'anesthesiologists' for routine and emergent cases presenting common clinical conundrums, demonstrating interactivity with operating room teams, and complications of record keeping. Work groups of anesthesiologists and participants will address what challenges are faced in the design process and how these can be overcome to market a successful product. This will be a highly interactive and stimulating workshop. **OPEN TO INDUSTRY PARTICIPANTS ONLY.**

SCHEDULE OF EVENTS

Wednesday, January 11, 2017

7:00AM – 8:00AM	Challenges and Opportunities Registration & Continental Breakfast
8:00AM – 5:00PM	Exhibitor Registration & Setup
8:00AM – 12:00PM	Challenges and Opportunities in Developing Anesthesia Products (for industry ONLY) <i>David Feinstein, MD, Norma Sandrock, MD, Christopher Quartararo, MD, Jesse Ehrenfeld, MD, MPH</i>
6:00PM – 7:30PM	Registration & Welcome Cocktail Reception

Thursday, January 12, 2017

7:00AM – 8:00AM	Registration & Continental Breakfast
8:00AM – 8:15AM	Welcome Address <i>Brian Rothman, MD, Jonathan Wanderer, MD, MPhil</i>

Session 1: Keynote Address

Moderator: Jonathan Wanderer, MD, MPhil

8:15AM – 9:30AM	The Importance of Devices in Outcomes: Experiences of an Anesthesiologist and Entrepreneur <i>Mark Rice, MD</i>
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9:30AM – 10:00AM	Break with Exhibitors & Posters
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Session 2: Insights from Large Database Research

Moderator: Brian Bateman, MD

10:00AM – 10:30AM	Big Data in OB and OB Anesthesia Research <i>Brian Bateman, MD</i>
10:30AM – 11:00AM	Statistical Issues in Large Database Research <i>Timothy Houle, PhD</i>
11:00AM – 11:30AM	Big Data for a Big Pain: The Role of Databases in Perioperative Pain Management <i>Karim Ladha, MD, MSc, FRCPC</i>

11:30AM – 12:00PM	Panel Discussion
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12:00PM – 1:15PM	Luncheon
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Session 3: What's in an Outcome: Definitions and Risk Adjustment

Moderator: Avery Tung, MD

1:15PM – 1:45PM	What Does AQI Think You Should Measure? <i>Emily Richardson, MD</i>
1:45PM – 2:15PM	Would it Smell as Sweet? The Link Between Definition and Measurement <i>Avery Tung, MD</i>
2:15PM – 2:45PM	Solving Definitional Issues at STS <i>DeLaine Schmitz, MSHL</i>
2:45PM – 3:15PM	Panel Discussion
3:15PM – 3:45PM	Break with Exhibits & Posters

Session 4: Research Awards and Presentations

Moderator: Thomas Hemmerling, MD, MSc, DEAA

3:45PM – 4:10PM	Excellence in Technology Award Presentation
4:10PM – 4:35PM	Best Clinical Application Award Presentation
4:35PM – 5:00PM	Best of Show Award Presentation

Friday, January 13, 2017

7:00AM – 8:00AM	Registration & Continental Breakfast
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Session 5: Technology on the Horizon: Show Us the Evidence on Outcomes and Finances

Moderator: Brian Rothman, MD

8:00AM – 8:30AM	Improving Perioperative Care: Death, Disability and Digital Records <i>Alexander Davey, FRCA</i>
8:30AM – 9:00AM	MACRA & MIPS: The Intersection of Quality and Payment <i>James Moore, MD</i>
9:00AM – 9:30AM	Implementing the Perioperative Surgical Home: Politics, Logistics and Economics <i>Brian S. Rothman, MD</i>
9:30AM – 10:00AM	Panel Discussion
10:00AM – 10:30AM	Break with Exhibits & Posters

Session 6: STA & FAER Joint Session: Education, Innovation and Technology

Moderator: Larry Chu, MD, MS



10:30AM – 11:00AM	Precision Education: The Role of Learning Analytics in Driving Innovation in Medical Education <i>Larry Chu, MD, MS</i>
11:00AM – 11:30AM	Use of Technology to Enhance Learning: Getting Your Hands Dirty <i>Janak Chandrasoma, MD</i>
11:30AM – 12:00PM	Evidence Based Teaching and Learning: Is It Practical? <i>Viji Kurup, MD</i>
12:00PM – 12:15PM	Panel Discussion
12:15PM – 1:30PM	STA Business Luncheon and J.S. Gravenstein Award Presentation <i>James Philip, MD</i>

Session 7: Concurrent Workshops

1:30PM – 3:30PM	Young Researchers Workshop <i>Christine Lee, BS Maxime Cannesson, MD, PhD</i>
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The objective of this workshop is to bring together a community of young research scientists. In this community, researchers will share their individual research experiences, as well as develop collaborative relationships to further promote the advancement of technology in anesthesia. The focus of this year's workshop will be on the use of predictive analytics in health care. The workshop will include a short course on predictive modeling with Python in collaboration with the UC Irvine Data Science Initiative, as well as a discussion on the current status and future of machine learning in medicine.

SCHEDULE OF EVENTS *CONTINUED*

Friday, January 13, 2017 *continued*

1:30PM – 3:30PM

Making the Most of Data: Turning the Raw Information into Useful Information

Ira Hofer, MD, Emily Richardson, MD

The objective of this workshop will be to explore the opportunities and challenges associated with collecting accurate data on your patients and transforming that data into information that can be used to improve care delivery. The workshop will briefly address the overall goals and challenges with collecting data. Then, tasked with collecting data around a specific endpoint, participants will split into two smaller groups: One will discuss specific challenges and strategies associated with collecting data either from AIMS/EMR and the other will discuss how to attack the same endpoint in a practice setting that lacks these resources. At the end the participants will come together to share what they have learned as well as discuss the challenges associated with combining the data from the various sources.

3:30PM – 3:45PM

Break with Exhibits & Posters

Session 8: Fresenius Research Recipient Presentations

3:45PM – 4:15PM

2015 Fresenius Research Recipient Presentation

Christian Petersen, PhD

4:15PM – 5:00PM

2016 Fresenius Research Recipient Presentation

Richard Epstein, MD

5:30PM – 9:00PM

STA Cocktail Reception

Saturday, January 14, 2017

7:30AM – 8:30AM

Registration

Session 9: STA Engineering Challenge

Moderator: Jeff Mandel, MD, MS

8:30AM – 10:15AM

Engineering Challenge

Jeff Mandel, MD, MS

10:15AM – 10:30AM

Break

Session 10: Medical Device Innovation and Integration

Moderator: Kirk Shelley, MD, PhD

10:30AM – 11:00AM

Oxygen Reserve Index: A New Pulse Oximetry Measurement

Steve Barker, MD, PhD

11:00AM – 11:30AM

Difficult Airway Algorithm and Rescue Cricothyrotomy - The DAARC and Serious Video Game

Jessica Feinleib MD, PhD, CHSE

11:30AM – 12:00PM

Non-Invasive Respiratory Volume Monitoring

Jenny Freeman, MD

12:00PM – 12:30PM

The Role of the Anesthesiologist in Medical Device Development

Aymen Alian MD

12:30PM – 1:00PM

Panel Discussion

1:00PM

Adjourn

INVITED FACULTY

Aymen Alian, MD
Yale University

Steve Barker, MD, PhD
University of Arizona College of Medicine

Brian Bateman, MD
*Harvard Medical School/
Massachusetts General Hospital*

Lara Brewer, PhD
University of Utah

Maxime Cannesson, MD, PhD
University of California, Irvine

Janak Chandrasoma, MD
University of Southern California

Larry Chu, MD, MS
Stanford University

Alexander Davey, FRCA
*Northern Ireland Medical
Deanery*

Jesse Ehrenfeld, MD, MPH
Vanderbilt University

Richard Epstein, MD
*Thomas Jefferson University
Hospital*

**Jessica Feinleib MD, PhD,
CHSE**
Yale University

David Feinstein, MD
*Beth Israel Deaconess Medical
Center*

Jenny Freeman, MD
Respiratory Motion, Inc

**Thomas Hemmerling, MD, MSc,
DEAA**
McGill University

Ira Hofer, MD
*Ronald Reagan UCLA Medical
Center*

Timothy Houle, PhD
Massachusetts General Hospital

Viji Kurup, MD
Yale University

Karim Ladha, MD, MSc, FRCPC
*University of Toronto and Toronto
General Hospital*

Christine Lee, BS
University of California, Irvine

Jeff Mandel, MD, MS
University of Pennsylvania

James Moore, MD
*University of California, Los
Angeles*

Christian Petersen, PhD
*British Columbia Children's
Hospital*

Christopher Quattararo, MD
*Winchester Anesthesia
Associates*

Mark Rice, MD
Vanderbilt University

Emily Richardson, MD
Encompass Medical

Brian S. Rothman, MD
*Vanderbilt University
President, STA*

Norma Sandrock, MD
*Beth Israel Deaconess Medical
Center*

DeLaine Schmitz, MSHL
AQI Executive

Kirk Shelley, MD, PhD
Yale University

Jonathan Tan, MD, MPH
*Children's Hospital of
Philadelphia*

Avery Tung, MD
University of Chicago

Jonathan Wanderer, MD, MPhil
*Vanderbilt University
Program Chair,
STA 2017 Annual Meeting*

- Registration and course materials
- 2 continental breakfasts, 2 lunches and 2 cocktail receptions



SOCIETY FOR TECHNOLOGY IN ANESTHESIA

2017 ANNUAL MEETING

TECHNOLOGY
ADVANCING
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Hilton San Diego Bayfront
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Room Rate: \$259/night
There is an early checkout fee of \$75. A deposit in the amount of your first night's stay is due upon reservation.

Make Your Reservation:
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Reservation Deadline:
December 19, 2016

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