



Society for Technology in Anesthesia

January 7-10, 2015
Royal Palms Resort & Spa
Phoenix, Arizona

16.75 AMA PRA Category 1 Credits™

2015 annual meeting

Anesthesia: Beyond the Horizon

Meeting Accreditation Information

Activity Overview

The Society for Technology in Anesthesia (STA) 2015 Annual Meeting will provide information on the future of technology within the field of clinical anesthesia. The Annual Meeting will address the evolving role of computer technology and informatics in anesthesiology and overall health care, the enterprise-level implications of anesthesia technology, innovations in anesthesia safety, present and future respiratory monitoring technology, the surgical perioperative home, clinical decision support and anesthesia information management systems (AIMS).

Target Audience

This live activity is designed for a national and international audience of physicians, engineers or other practitioners in the field of anesthesia seeking an update on the current and possible future state of anesthesia technology.

Educational Objectives

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

- Explore how anesthesia technology fits into the greater scope of the overall hospital and health care technology infrastructure.
- Identify and examine problems and potential solutions in the anesthesia workspace, with emphasis on pediatric inhalational anesthesia, robotic safety and closed-loop systems.
- Explore key advances in respiratory monitoring technology and their potential impact on patient safety.
- Examine and identify the barriers and potential solutions to the perioperative surgical home and how technology can help perioperative clinicians comply with best practices as well as broaden their scope beyond the operating system.
- Explore potential problems and solutions regarding real-time clinical decision support as well as team cognitive work analysis and mobile patient monitoring.
- Investigate the techniques and methods by which one can leverage anesthesia information management systems to improve outcomes and patient safety.

Barriers to change:

- Understanding the rapidly evolving convergence of the medical and information sciences
- Integrating valid scientific evidence and cutting-edge technology into daily clinical practice

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the Institute for the Advancement of Human Behavior (IAHB) and the Society for Technology in Anesthesia (STA). The IAHB is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement

The IAHB designates this live activity for a maximum of **16.75 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 7, 2015 • 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 7, 2015

0700 – 0800	Challenges and Opportunities Registration & Continental Breakfast
0800 – 1700	Exhibitor Registration & Set-Up
0800 – 1200	Challenges and Opportunities in Developing Anesthesia Products (industry) <i>David Feinstein, MD, Jeffrey Feldman, MD, MSE, Norma Sandrock, MD</i>
1200 – 1315	Challenges and Opportunities & STA Board of Directors Lunch
1800 – 1930	Registration & Welcome Reception

Thursday, January 8, 2015

0700 – 0800	Registration & Continental Breakfast
0800 – 0815	Welcome Address <i>Joan Spiegel, MD, STA President, Allan Simpao, MD, STA Annual Meeting Program Chair</i>

Session 1: Keynote Address

0815 – 0930	Computing the Future: The Evolving Roles of Informatics and Information Technology in Health Care <i>Ted Shortliffe, MD, PhD</i>
0930 – 1000	Break with Exhibitors & Posters

Session 2: Cost of Doing Business

Moderator: Mohamed Rehman, MD

1000 – 1030	Hospital Capital Budget Process for IT: Hospital President's Perspective <i>David Reich, MD</i>
1030 – 1100	Cost of Doing Business and IT Prioritization: CIO's View <i>Bryan Wolf, MD, PhD</i>
1100 – 1130	Health IT: Hype vs. Reality <i>Basam Kadry, MD</i>
1130 – 1215	Panel Discussion
1215 – 1330	Luncheon

Session 3: STA & FAER Joint Session / Safety & Innovation

Moderator: John Pawlowski, MD, PhD

1330 – 1400	Innovation in Pediatric Inhalation <i>Gabriel Gurman, MD</i>
1400 – 1430	Innovation in Robotic Safety <i>John Pawlowski, MD, PhD</i>
1430 – 1515	Innovation in Closed-Loop Systems <i>Joseph Rinehart, MD</i>
1515 – 1530	Panel Discussion
1530 – 1545	Break with Exhibitors & Posters

Session 4: Research Awards & Presentations

Moderator: Thomas Hemmerling, MD, MSc, DEAA

1545 – 1700	Research Awards & Presentations
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Friday, January 9, 2015

0715 – 0815	Registration & Continental Breakfast
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Session 5: Respiratory Monitoring to Optimize Mechanical Ventilation

Moderator: Jeffrey Feldman, MD, MSE

0815 – 0845	Current State of Bedside Monitors to Optimize Ventilation <i>Jeffrey Feldman, MD, MSE</i>
0845 – 0915	Respiratory Monitoring and Integrated Displays <i>Robert Loeb, MD</i>
0915 – 0945	Respiratory Monitoring - Looking Over the Horizon <i>Igor Brodtkin, MD</i>
0945 – 1000	Panel Discussion
1000 – 1030	Break with Exhibitors & Posters

Session 6: Surgical Perioperative Home

Moderator: Maxime Cannesson, MD, PhD

1030 – 1100	The Perioperative Surgical Home: What Problems Are We Trying to Solve? <i>Zeev Kain, MD</i>
1100 – 1130	Using Technologies to Help Clinicians Comply with Best Evidence / Best Practices <i>Franklin Dexter, MD, PhD</i>
1130 – 1200	How Can Technologies Help Clinicians Get Involved Outside the Operating Rooms and After Hospital Discharge? <i>Maxime Cannesson, MD, PhD</i>
1200 – 1215	Panel Discussion
1215 – 1330	STA Business Luncheon & Awards

Session 7: Concurrent Workshops

1330 – 1530	1) Young Researchers Workshop <i>Thomas Hemmerling, MD, MSc, DEAA, Jorge Galvez, MD, Christine Lee, J. Mark Ansermino, MBBCh, Maxime Cannesson, MD, PhD</i>
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The objective of this workshop is to create a community of young scientists. In this community, researchers will share their experiences in the scientific field, individual research, as well as foster potential collaborative relationships to further promote the advancement of anesthesia research.

1330 – 1530	2) Visual Analytics Dashboard Design <i>Luis Ahumada, MSCS</i>
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Attendees at this interactive workshop will review and practice the fundamental Tufte-Few principles of visualization of clinically relevant data. The ongoing adoption of anesthesia information management systems has created an opportunity for users to represent and analyze anesthesia data in many ways, including tabular reports, charts, graphs, dashboards and scorecards. How this data is displayed can be of simi-

Schedule of Events Continued

lar importance to the validity of the data. In a clinical setting, we encounter unique challenges when transforming anesthesia data into visual analytics dashboards and scorecards. Attendees will review the Tufte-Few principles and then form groups that will create mock visual analytics dashboards which will then be critiqued, compared, and discussed.

Session 8: Concurrent Workshops

1530 – 1730

1) Complex Care and Clinical Decision Support (CDS) - Make My AIMS Smarter!
Brian Rothman, MD

This interactive workshop will explore common themes in CDS architecture, end-user design and why CDS is becoming ever more vital with increasing care pathway complexity. After establishing core care pathway and CDS tenets, learners will volunteer their wish-lists for AIMS CDS. One (perhaps two if time allows) of these will be selected by the group. Learners will then define the problem to solve, the business logic needed, the architecture and data elements required, what will be required to deliver the CDS to the end-user, the outcome or action expected and finally, if feedback on any actions taken is necessary and how and to whom it should be delivered.

1530 – 1730

2) Performance Metrics and Clinical Outcomes - Automated AIMS Analytics In (Near) Real Time!

Jonathan Wanderer, MD

This interactive workshop will explore opportunities, issues and dilemmas encountered when utilizing AIMS and other EMR data sources to develop clinician-level metrics for automated reporting. After reviewing our current required metrics and the rationale for providing clinicians with feedback, learners will develop ideas for performance metrics that would be meaningful in their own clinical context. Several ideas will be chosen by the group, and implementation requirements and potential pitfalls explored. In the second half, learners will brainstorm possible clinical outcomes that could be delivered via automated reporting. Data sources for outcomes reporting will be considered, and the potential utility of and methods for connecting clinicians to their patients' outcomes will be discussed.

1530 – 1730

STA Engineering Challenge

1800 – 2130

STA Dinner Event

Saturday, January 10, 2015

0730 – 0830

Registration & Continental Breakfast

Session 9: Help! My Computer is Telling Me What to Do

Moderator: J. Mark Ansermino, MBBCh

0830 – 0900

Team Cognitive Work Analysis: Understanding Different Perspectives on Shared Technologies
Catherine Burns, PhD

0900 – 0930

Mobile Patient Monitoring: Designing the Transition from Sensors and Displays to Decision Support Tools
Matthias Gorges, PhD

0930 – 1000

Development and Use of the Smart Anesthesia Manager (SAM) – An AIMS Based Real-Time Decision Support Module
Bala Nair, PhD

1000 – 1015

Panel Discussion

1015 – 1030

Break

Session 10: AIMS Panel: Breaking Up is Hard to Do

Moderator: Richard Epstein, MD

1030 – 1100

Driving Reporting and Quality Improvement
Patrick Guffey, MD

1100 – 1130

Building a Perioperative Data Warehouse From Your AIMS Data
Matthew Levin, MD

1130 – 1200

Long Term Planning for Your Anesthesia Software and Data
Patrick McCormick, MD

1200 – 1230

Panel Discussion

1230

Adjourn

Invited Faculty

Luis Ahumada, MSCS
Children's Hospital of Philadelphia

J. Mark Ansermino, MBBCh
University of British Columbia

Igor Brodtkin, MD
Vancouver Coastal Health

Catherine Burns, PhD
University of Waterloo

Maxime Cannesson, MD, PhD
University of California-Irvine

Franklin Dexter, MD, PhD
University of Iowa

Richard Epstein, MD
Thomas Jefferson University Hospital

David Feinstein, MD
Beth Israel Deaconess Medical Center (BIDMC)

Jeffrey Feldman, MD, MSE
Children's Hospital of Philadelphia

Jorge Galvez, MD
Children's Hospital of Philadelphia

Matthias Gorges, PhD
University of British Columbia

Patrick Guffey, MD
Children's Hospital of Colorado

Gabriel Gurman, MD
Ben Gurion University of the Negev

Thomas Hemmerling, MD, MSc, DEAA
McGill Montreal General Hospital

Basam Kadry, MD
Stanford School of Medicine

Zeev Kain, MD
University of California-Irvine

Christine Lee
University of California-Irvine

Matthew Levin, MD
Mount Sinai Health System

Robert Loeb, MD
University of Arizona

Jeff Mandel, MD, MS
University of Pennsylvania

Patrick McCormick, MD
Mount Sinai Health System

Bala Nair, PhD
University of Washington Seattle

John Pawlowski, MD, PhD
Beth Israel Deaconess Medical Center (BIDMC)

Mohamed Rehman, MD
Children's Hospital of Philadelphia

David Reich, MD
Mount Sinai Health System

Joseph Rinehart, MD
University of California-Irvine

Brian Rothman, MD
Vanderbilt University

Norma Sandrock, MD
Beth Israel Deaconess Medical Center (BIDMC)

Ted Shortliffe, MD, PhD
Arizona State University
Allan Simpao, MD
STA Program Chair
Children's Hospital of Philadelphia

Joan Spiegel, MD
STA President
Beth Israel Deaconess Medical Center (BIDMC)

Jonathan Wanderer, MD
Vanderbilt University

Bryan Wolf, MD, PhD
Children's Hospital of Philadelphia

Meeting Registration Information

ONLINE REGISTRATION www.stahq.org

Online registration accepted until Sunday, December 28, 2014 – Limited Onsite Registration

MAIL OR FAX REGISTRATION FORM

This is how your name will appear on your name badge. *Required fields.

*FIRST NAME: *LAST NAME:

SUFFIX (JR., SR., ETC.): *HIGHEST DEGREE(S):

*COMPANY/INSTITUTIONAL AFFILIATION:

*ADDRESS:

*CITY: *STATE/PROVINCE: *ZIP: *COUNTRY:

*PHONE: FAX:

*EMAIL ADDRESS:

Special Needs: ☐ Hearing Impaired ☐ Sight Impaired ☐ Other:

☐ Dietary (Please Specify)

REGISTRATION FEES Course materials, reception, 2 lunches, 3 continental breakfasts and Friday night dinner event

	Early Bird by 11/17/14	12/8/14	After 12/8/14
☐ STA Member Registration (membership dues must be paid for 2015).....	\$475.00	\$500.00	\$575.00
☐ *Non-Member Registration	\$575.00	\$600.00	\$675.00
☐ Resident Registration	\$50.00	\$50.00	\$50.00

*Non-member fee includes 1 year of membership to qualifying physicians

ALA CARTÉ ITEMS

- ☐ Additional Wednesday Night Reception Ticket.....\$50.00
- ☐ Additional Friday Night Dinner Ticket.....\$99.00
- ☐ 2015 Membership Dues Renewal.....\$100.00

SUB TOTAL:

PAYMENT MUST ACCOMPANY REGISTRATION.

TOTAL DUE:

METHOD OF PAYMENT

The following methods of payment are acceptable for the registration fee:

- Check:** Made payable to STA. **There is a \$25 returned check fee.**
☐ Check Included
- Credit Card Payments:** ☐ Visa ☐ MasterCard ☐ Discover ☐ AMEX

NAME ON CARD:

CARD #: SECURITY CODE: EXP. DATE:

SIGNATURE:

Paper Registrations

By Fax or Mail

(SEE CONTACT INFORMATION BELOW)

If you are unable to register online please fax or mail your paper registration form.

Onsite Registrations

Online registration accepted until December 28, 2014. After December 28th limited onsite registration is available.

Registration Cancellation

All cancellations must be in writing and sent via U.S. mail, email or fax. Fee for cancellations postmarked or date stamped before **December 28, 2014** will be completely refunded with an administrative fee of \$25. **NO REFUNDS WILL BE MADE AFTER DECEMBER 28, 2014.**

Questions? Contact Us:

Society for Technology in Anesthesia

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OFFICE: **414-389-8600**
FAX: **414-276-7704**

PLEASE NOTE: Registration is not complete until you receive a confirmation email for your pre-registration. If you do not receive this email within 5-7 days of registration, please contact us at 414-389-8600.

It is recommended to bring your confirmation of registration with you to the conference.

Registration Fee Includes:

- Registration and Course Materials
- Reception, 2 lunches, 3 continental breakfasts and Friday night dinner



2015 annual meeting



Royal Palms Resort

5200 Camelback Rd, Phoenix, Arizona 85018

Reservations: 800-672-6011

www.royalpalmshotel.com

\$269.00 Room Rate Available Through December 15, 2014

Society for Technology in Anesthesia
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