



INTERFACE

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President's Message

By John Pawlowski, MD, MPH

Dear STA Members,

Welcome to the STA Interface December Issue. As you are all planning for holiday celebrations, many of us at the STA are preparing for our annual meeting. Joan Spiegel and Brian Rothman have assembled a great group of speakers. The brochure is out and the program promises to be exciting and informative. Sunny Orlando seems a great destination for a few days in January. Please consider joining us at the STA Annual Meeting.

As my term as president of the STA closes, I have several items of good news to report. First, we are solvent. The STA continues to operate in the black, continues to accumulate a reserve fund and continues to attract corporate sponsors. An encouraging group of young anesthesiologists bring new ideas and energy into our society.

The STA remains the province of the thought leaders in technology for our profession. The Ty Smith Dinner continues to bring in talented technology experts from all avenues and all disciplines. This year, we have fostered a relationship with the European equivalent of the STA, ESCTAIC, and hope to have future shared expertise and attendance. In all, it has been a rewarding and productive year for the STA and this society promises to continue to monitor and advance the state of technology in anesthesia.



Sincerely,

John Pawlowski, MD, PhD
jpawlows@bidmc.harvard.edu

BOARD OF DIRECTORS ELECTION

Deadline to Cast Your Vote:
Friday, December 20, 2013

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Report from the Executive Director

By Jane Svinicki, CAE

Organizational Culture – Why Does it Matter?

In a work environment filled with buzz words, organizational culture seems to be yet another idea that deserves some attention, but nobody has any time for it.

Every organization has a culture, no matter what is done to develop, manage or change it. Culture happens because it is a set of taken-for-granted implicit assumptions that a group of members hold. These assumptions determine how the group perceives, thinks about and reacts to its various environments.

The four functions of organizational culture are:

1. Reinforces the organizational identity
2. Creates collective commitment
3. Creates a stable social system
4. Provides a “sense-making” device (why we do what we do)

When members accept and adopt the main values and beliefs of the organization they become a well-socialized and productive members. When they don't it becomes difficult for them to be productive and the likelihood of friction increases.

Recently, I attend a one and half day workshop on organizational culture. We learned that organizations have both an espoused culture and an enacted culture. Does the organization claim it is about collaboration, recognition and celebration (espoused culture)? Do the ‘observable artifacts’ of the organization support this claim (enacted culture)?

As part of the workshop, we were placed in ‘scavenger hunt’ groups who walked around the Sheraton hotel (where the workshop was being held) for the purpose of documenting the observable artifacts of the organization culture. How were excellent employees recognized in the workplace? How were achieved sales goals celebrated? Were employees given the power to realize the corporate goals? Were examples of the corporate strategy on display and aligned to the espoused culture?

Our ‘scavenger hunt’ group spoke with many employees, from the Doorman to the Director of Sales. I was impressed with the consistent message from Sheraton employees about the hotel's culture of providing excellent service.

Upon returning to my office, I was determined to conduct the same exercise and review how we espoused and enacted our corporate culture. Did I see the observable artifacts of our espoused corporate culture? I believe we have an espoused culture that is similar to our enacted culture, but we do not have as many artifacts that celebrate the positive aspects of our culture. Maybe that is a result of my dislike of clutter! This could be our first company goal of 2014.

This idea of espoused and enacted culture is relevant to companies, non-profits, membership organizations and your own workplace. It is your culture: define it, communicate it and prove it! Whether it is about patient safety or corporate profitability, the right culture can help achieve goals and serve the patient.

As the year closes, as your staff, we wish everyone a happy and successful new year.

Jane A. Svinicki, CAE
Executive Director



Office Holiday Hours

The STA Office will be closed on
the following dates:

December 24-25, 2013

December 31, 2013 - January 1, 2014

STA Ty Smith Attendees Enter a Virtual World

By Jane Svinicki, CAE

For the lucky attendees of the 2013 Ty Smith dinner at the Waterbar in San Francisco it was an evening with fantastic views and a fascinating look into the exciting world of virtual reality.

Speaker Jeremy Bailenson is the founding director of Stanford University's Virtual Human Interaction Lab and an associate professor in the Department of Communication at Stanford.

Bailenson's discussed his research in digital human representation, especially in the context of immersive virtual reality. At his virtual reality lab at Stanford, he explores the manner in which people are able to represent themselves when the physical constraints of body and veridically-rendered behaviors are removed.

Furthermore, he designs and studies collaborative virtual reality systems that allow physically remote individuals to meet in virtual space, and explores the manner in which these systems change the nature of verbal and nonverbal interaction.

A highly interactive question and answer session followed the talk as attendees discussed significant insights into human behavior learned through the use of virtual reality. Virtual reality models can predict what we will do and why.

A capacity attendance of 60 members and guests enjoyed the sunset view of the San Francisco Bay Bridge, which is illuminated after dark and include a light show of images and designs. Held annually, the Ty Smith Dinner honors STA founding member N. Ty Smith for his pioneering work in computer modeling of human physiology.



San Francisco Rail Car.



Executive Director, Jane Svinicki, CAE and Account Director, Marie Marinello, enjoy the view of the Bay Bridge at the Water Bar Restaurant in San Francisco, CA.



2014 Board of Directors Voting Information

The 2014 Candidate statements for the STA Board of Directors are provided to assist you with voting. Voting is conducted online, please visit the STA website at www.stahq.org or [CLICK HERE](#) to proceed to the voting website.

BOARD OF DIRECTORS ELECTION
Deadline to Cast Your Vote:
Friday, December 20, 2013

Candidate Profiles

Position: President Elect *(vote for one of two)*

Joe Orr, MD

Dr. Orr earned a PhD in bioengineering from the University of Utah and has been on the faculty at the University of Utah Department of Anesthesiology and have worked in the bioengineering laboratory at the University of Utah since 1991. He has been an active member of STA since 1990 and has served on STA board of directors and as the meeting chair and has participated in numerous annual meeting presentations. He is an author on 30 peer-reviewed publications and is a named inventor on over 50 US and international patents. He has founded three small medical device companies that are each presently active in manufacturing and marketing medical devices.

His research interests include creating innovative devices for use in anesthesia and critical care. His recent work has been in the area of algorithms for capnometry, noninvasive cardiac output measurement and decision support systems.

Dr. Orr's goals for STA are to recruit new younger members and to encourage STA members to pursue innovative research and commercialization of their ideas, and to facilitate collaboration with industry and related anesthesia organizations such as FAER.

Brian Rothman, MD

Brian Rothman, MD, is an Assistant Professor of Anesthesiology and Medical Director of Perioperative Informatics at Vanderbilt University Medical Center. Dr. Rothman received his medical degree from the University of Cincinnati and completed his residency at The Johns Hopkins Hospital. He has been an active member of the Society for Technology in Anesthesia (STA) since 2008, and he is currently serving as treasurer on the STA Board of Directors. In 2010, Dr. Rothman was a co-recipient of

the STA Innovation Award in the Computers in Anesthesia Engineering competition for work in further developing and enhancing Vanderbilt's EHR, VPIMS. Also in 2010, he received the STA Clinical Application of Technology Award for his success in utilizing an iPhone as a mobile PIMS device.

Dr. Rothman is also a member of the Committee for Electronic Media and Information Technology for the American Society of Anesthesiologists (ASA). Since 2010, he has been a moderator of a series of computing workshops offered at the ASA annual meetings, leading training in such topics as HITECH/Meaningful Use and the use of mobile devices and new technologies in healthcare environments. Dr. Rothman is an invited speaker for the 2014 Healthcare Information and Management Systems Society (HIMSS) pre-conference symposium where he will speak on mobile technology and patient transitions within and beyond the hospital setting.

Dr. Rothman's current work in the area of medical technology and informatics focuses on further enhancing Vanderbilt's Perioperative EHR, VPIMS, as well developing other innovative informatics tools for perioperative clinicians. He leads a team charged with developing enhancements to directly improve patient safety, increase efficiency, and enhance communication through the accurate acquisition, handling, and delivery of data to personnel. Recent accomplishments of Dr. Rothman's team include the development of an electronic obstructive sleep apnea (OSA) screening tool which allows early identification of OSA-likely patients; the creation of a web-based situational awareness tool for clinicians; and enhancements to an electronic data collection tool used in the postoperative anesthesia care unit to improve efficiency, patient care and throughput.

Candidate Profiles continued on next page

Candidate Profiles continued from previous page

Position: Treasurer (vote for one of two)

John Sudkamp, MD

In 2001 I attended my first Society for Technology in Anesthesia as a 2nd year resident at St. Louis University and then started in private practice at a small rural hospital in 2002. As a member of STA, I have been able to transition ideas seen at the annual meeting into everyday practice at my facility. I see the potential to improve the everyday care of patients in situations similar to my facility with improved application of technology. I have been active in the STA to make these transitions easier for smaller and non-academic practices. I chaired the 2010 Annual meeting with a great deal of support from my fellow members. I believe as Treasurer I will have the opportunity to repay the support I have been given throughout the years. I have run my own practice group and have been the Medical Director of Anesthesia St. Anthony's Memorial Hospital in Effingham, IL since 2011. I have many years of budgeting and financial experience, which I believe will be a practical help to the STA.

Bhaskar Padakandla, MD

Dr Padakandla has been a member of STA since 2005. He was a Faculty at UT Southwestern Medical Center in Dallas (at the Dallas VA Hospital) for six years before moving into private practice in 2002 at multiple Hospitals in Dallas area and is an avid advocate for adoption of Anesthesia Information Systems. He is currently pioneering such an endeavor at the Baylor Healthcare System in Dallas. He has personally developed a "home grown" Anesthesia Record Creation system. He is Director, District 10, in the Texas Society of Anesthesiologists' House of Delegates, an Alternate Delegate at the ASA House of Delegates, and a Delegate at the Texas Medical Association, where he has just been appointed to the Ad-hoc Committee on Health Information & Technology.

Position: At Large Director (vote for one of two)

Aymen Alian, MD

I am an Assistant Professor of Anesthesiology in Department of Anesthesiology at Yale University. I have received a medical degree and completed an anesthesia residency in Egypt. I spent two years as a clinical research fellow in anesthesia department at Yale University working with Dr. Shelley on peripheral waveforms analysis. I completed a second anesthesia residency at Yale University. I have been an active member and participant in the STA for over 12 years. In 2001, I was honored in receiving an award for Best Technology Abstract "Blood pressure determination using the pulse oximeter waveform" from STA. In addition in 2011, I received an honorable mention award for Best Technology Abstract – "Impact of central hypovolemia on Photoplethysmographic waveform parameters in healthy volunteers." I am committed to the growth and greatly exposure of the STA especially through the research efforts of its members.

Laura Brewer, PhD

I am honored to have been nominated for the At Large Director position. I am currently a Research Assistant Professor at the University of Utah, where I received MS and PhD Bioengineering degrees in the Westenskow lab. My graduate research topics focused on developing noninvasive measurements for cardiac output and functional residual capacity. Additionally, I have

fourteen years of experience in working with industry partners such as Philips Medical, Laerdal, Respironics, and Novamatrix to bring translational research solutions to the bedside. We are fortunate that our research laboratory is physically located within the Anesthesia Department and near the operating rooms. Our location facilitates collaboration among anesthesiologists and engineers and helps us identify the most important problems to work on.

The STA organization uniquely provides what I believe is a similarly important relationship where innovative ideas can be collaboratively explored. I have attended several STA meetings and have contributed several abstracts, one of which received the STA best abstract award in 2003 and the other of which received the outstanding abstract award 2012. My primary research interests include clinical decision support and alarm systems for patient monitoring, pharmacodynamic drug interactions, cardiopulmonary physiology and modeling gas exchange in the body. Currently, my colleagues and I are working to find inexpensive ways to detect and reverse postoperative respiratory events with funding provided by the Anesthesia Patient Safety Foundation. It would be an honor to serve as a STA board member. I look forward to doing what I can to support the society's mission.

Candidate Profiles continued on next page

Candidate Profiles continued from previous page

Position: International Member At Large *(vote for one of two)*

Thomas Hemmerling, MD

Dr. Hemmerling has been an active member of the Society of Technology in Anesthesia and participated in many of the STA Annual Meetings. Currently, Dr. Hemmerling serves as Chair of the STA Research and Awards Committee. He is an Associate Professor at McGill University in the Department of Anesthesiology as well as Associate Director of the Arnold and Blema Steinberg McGill Medical Simulation Centre. His main research focus is robotics in anesthesia.

Richard Riley, MB, BS, FANZCA

After completing my medical degree at the University of Western Australia I completed an internship at Fremantle Hospital. I then undertook a Residency in Anesthesiology at the hospitals of the University of Pittsburgh. A research fellowship with Myroslav Klain in physiological aspects of high-frequency jet ventilation followed. It included interfacing flowmeters with

computer systems to derive pulmonary profiles during newer modes of ventilation. Then I returned to Australia to further my anaesthesia training and joined the Department of Anaesthesia at Royal Perth Hospital.

My interests in technology in anaesthesia have spanned 30 years and include (i) the use of systems to assist with clinical decision-making and to detect problems during clinical anesthesia, (ii) simulation in healthcare, (iii) epidemiology, and (iv) medical publishing. I have been a member of STA since 2001 and I am completing a PhD in Population Health. Currently I am Chief Editor of Australasian Anaesthesia (Australian and New Zealand College of Anaesthetists) and the Manual of Simulation in Healthcare (Oxford University Press); and Clin. Assoc. Prof. of Anaesthesia, University of Western Australia. I look forward to serving the STA from abroad.

Position: Industry At Large Member *(vote for one of one)*

Michael Jaffe, PhD

Michael B. Jaffe, PhD, has been involved with STA since the late 1990's and has been employed since 1981 in the anesthesia and respiratory gas measurement field, as either a consultant or employee for such companies as Beckman Instruments, Sensor-medics, Novamatrix, Respironics and Philips. He has served as a coeditor with both Drs. Nik Gravenstein and Paulus of the leading text on capnography published in 2004 (2nd edition 2010) and a chapter contributor to Ehrenworth, Eisenkraft, and Berry. Anesthesia Equipment: Principles and Applications (2nd ed), 2013. (Respiratory Gas Monitoring & Standards and Regulation). He is currently the secretary of IEC/ISO Joint

Working Group for respiratory gas monitoring standard (ISO 80601-2-55), F29/USTAG technical contact for ISO/TC121/SC1 (anesthesia machines), a member of the Anesthesia Patient Safety Foundation Committee on Technology and an editorial board member of the Journal of Clinical Monitoring. He has been an active contributor to STA for the last several years. He is currently working as a medical device technology consultant, (Cardiorespiratory Consulting, LLC) providing technology (e.g. novel sensing, medical device connectivity), market development, intellectual property and regulatory consulting for startup and mid-size US and foreign companies and hospital systems in the medical monitoring and therapeutic spaces.

2014 Annual Meeting Brochure on next page!

**For more
information
please visit
www.stahq.org**





Society for Technology
in Anesthesia

Registration Brochure

2014 Annual Meeting January 15-18, 2014 Orlando, Florida

16.25 AMA PRA Category 1 Credits™



Anesthesiology Conference on
Innovation and Entrepreneurship
(ACIE) 2014 Meeting
January 18, 2014 • Orlando, FL

Join anesthesiologists, inventors and industry
members for a one-day "bootcamp" on innova-
tion and entrepreneurship. Stay through the
STA Annual Meeting and join the ACIE 2014
on Saturday, January 18, 2014

Rosen Plaza Hotel

9700 International Drive, Orlando, Florida

Reservations: 1-800-627-8258 or 407-996-9700

www.rosenplaza.com

\$175.00 STA Group Rate Available
Through December 3, 2013

Accreditation Information

Activity Overview

The STA 2014 Annual Meeting will provide information on the future of technology within the field of clinical anesthesia. The Annual Meeting will address the use and implementation in consideration of bringing research to market, technology and safety, closed loop anesthesia management, non-invasive hemodynamic monitoring and Anesthesia Information Management Systems (AIMS).

Target Audience

This program 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:

- Recognize problems and potential solutions in the anesthesia work space with a special emphasis on exploring new developments in drug delivery, information management, and patient monitoring;
- Recognize key factors required for effective translational medical research, including management of conflict of interest issues and implementation of successful strategies to develop technologies;
- Recognize barriers and potential solutions in order to bring new and safe technologies to the clinical practice with a special emphasis on patient monitoring, information management, patient safety and improved patient outcomes;
- Discuss opportunities to advance and enhance environmentally responsible practices within anesthesia care; and
- Discuss opportunities to advance automated anesthesia systems with the goal of improving patient safety and outcomes.

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 (ACCME) through the joint sponsorship of the International Anesthesia Research Society (IARS) and the Society for Technology in Anesthesia (STA). The IARS is accredited by the ACCME to provide continuing medical education for physicians.

American Medical Association (AMA) Credit Designation Statement

The International Anesthesia Research Society designates this live activity for a maximum of **16.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure

The IARS complies with ACCME Essential Areas, Standards and Policies regarding industry support of CME Activities. The IARS has implemented policies and practices with respect to the planning, implementation and presentation of this activity to identify and resolve potential conflicts of interest for all persons in a position to control content.

Pre-Conference Sessions

Anesthesia Information Management System Workshop (A.I.M.S.)

Wednesday, January 15, 2014

0800 - 1200

Challenges and Opportunities in Developing Anesthesia Products (for industry)

This half day course is planned for industry by the scientist and researcher members of 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**

1300 - 1345

The Ideal A.I.M.S. System

1345 - 1630

Interactive Session with A.I.M.S. Users

Session will feature clinicians and system users that have experience with a specific system. The clinicians will speak to the process of system implementation, integration and modifications.

**COST TO ATTEND AIMS SESSION
ONLY \$225.00
ADD ON TO FULL CONFERENCE
REGISTRATION \$75.00**

Schedule of Events

Wednesday, January 15, 2014

0700 – 0800	Challenges and Opportunities Registration & Continental Breakfast
0800 – 1200	Challenges and Opportunities in Developing Anesthesia Products (for industry) <i>Jeffrey Feldman, MD, MSE</i> <i>David Feinstein, MD</i> <i>Norma Sandrock, MD</i>
0800 – 1700	Exhibitor Registration & Set-up
1200 – 1315	Challenges and Opportunities & STA Board of Directors Lunch
1315 – 1700	A.I.M.S. Workshop <i>(additional registration required)</i>

1800 – 1930 **Registration & Opening Reception**

Thursday, January 16, 2014

0700 – 0800	Registration & Continental Breakfast
0800 – 0815	Welcome Address <i>John Pawlowski, MD, STA President</i> <i>Joan Spiegel, MD, STA Program Co-Chair</i> <i>Brian Rothman, MD, STA Program Co-Chair</i>

Session 1: Keynote Address

0815 – 0930 **The Future of Anesthesia: Propelled by Technology, STA Please Rescue Me**
Kenneth Pauker, MD

0930 – 1000 **Break with Exhibitors & Posters**

Session 2: Big Data

Jesse M. Ehrenfeld, MD, MPH – Moderator

1000 – 1030 **Using EMR Metadata to Track Clinician Behavior & Performance Patterns**
Jonathan P. Wanderer, MD

1030 – 1100 **Data Linking Among Large Disparate Datasets: Deterministic & Probabilistic Linkage Techniques**
Richard H. Epstein, MD

1100 – 1130 **Practical Approaches to Perioperative Genomics**
Jesse M. Ehrenfeld, MD, MPH

1130 – 1200 **Defining Big Data & The Limitations of Traditional Analytical Approaches**
Matthew Levin, MD

1200 – 1215 **Panel Discussion**

1215 – 1330 **Luncheon**

Session 3: JOINT SESSION



Moderators: Denham Ward, MD & Joan Spiegel, MD

1330 – 1415	Rewards from Carefully Managing Your Intellectual Property <i>Dwayne Westenskow, PhD</i>
1415 – 1500	Talk Title TBA <i>Samsun Lampotang, MD</i>
1500 – 1530	Panel Discussion
1530 – 1545	Break with Exhibits & Posters

Session 4: Research Awards & Presentations

Thomas Hemmerling, MD – Moderator

1545 – 1700 **Research Awards & Presentations**

Friday, January 17, 2014

0715 – 0815 **Registration & Continental Breakfast**

Session 5: Airway Technology

D. John Doyle, MD – Moderator

0815 – 0845 **Anesthesia for Bronchoscopic Procedures: Clinical and Technical Perspectives**
Basem Abdelmalak, MD

0845 – 0915 **Debate: Is Video Laryngoscopy Making Direct Laryngoscopy Obsolete? Yes**
D. John Doyle, MD

0915 – 0945 **Debate: Is Video Laryngoscopy Making Direct Laryngoscopy Obsolete? No**
Joan Spiegel, MD

0945 – 1000 **Panel Discussion**

1000 – 1030 **Break with Exhibitors & Posters**

Session 6: Cutting Edge Clinical Technology

Kirk Shelley, MD – Moderator

1030 – 1100 **Peripheral Waveform Analysis...What is New?**
Aymen Alian, MD

1100 – 1130 **Wavelet Analysis of Biosignals: From Pretty Pictures to Product**
Paul Addison, PhD, Covidien

1130 – 1200 **Analysis of the Alar PPG**
Richard Melker, MD

1200 – 1215 **Panel Discussion**

1215 – 1330 **STA Business Luncheon & Awards**
John Pawlowski, MD

Schedule of Events Continued

Friday, January 17, 2014 *continued*

Session 7: Concurrent Workshops

1330 – 1530 **A New, Open, Interoperable Medical Device Clinical Research Platform**
Julian Goldman, MD, Dave Arney, Jeff Plourde & Tracy Rausch, CCE
Learn how to implement the prototype software platform. Apps (in MatLab or Java), allow implementation of data analysis and display, smart alarms, closed-loop control, etc.

How to Make Data Work For You - No Matter What!
Curtis E. Kennedy, MD, PhD
Learn to identify and get the data you need from exiting systems, using open source software.

Session 8: Concurrent Workshops

1530 – 1700 **Crying Wolf! Preventing Perioperative Deaths Through Effective Alarm Management**
Christina DeMur
Greg Spratt, BS, RRT, CPFT

Engineering Contest
Jeff Mandel, MD

1800 – 2130 **Dinner Event**
(included in attendee registration fee)

Saturday, January 18, 2014

0730 – 0830 **Registration & Continental Breakfast**

Session 9: Interoperability and Safety

Brian Rothman, MD - Moderator

0830 – 0900 **Medical Device Interoperability- Are We Approaching the Tipping Point?**
Julian Goldman, MD

Saturday, January 18, 2014 *continued*

0900 – 0930 **What Does the Future Have for Us?**
Speaker TBA

0930 – 1000 **Integrating User-Centered Design Into Health Information Technology Development**
Anne Miller, PhD, Center for Research

1000 – 1015 **Panel Discussion**

1015 – 1030 **Break**

Session 10: Environmental Sustainability: The Next Frontier for Patient, Staff and Community Safety

Charlotte Bell, MD - Moderator

1030 – 1055 **Environmental Sustainability: The Next Frontier for Patient, Staff and Community Safety**
Charlotte, Bell, MD

1055-1120 **Barriers to Engaging Physicians on Sustainability**
Lauren Berkow, MD

1120-1145 **Empowering Trainees to Assess Dollars, Scents and Survival: A Tool for Calculating Environmental Impact of Anesthetics**
Andres Navedo, MD

1145-1210 **Smart Trash - RFID as Recycling Green Technology**
Brian Rothman, MD

1210-1225 **Panel Discussion**

1225 **Adjourn**

Invited Faculty

Basem Abdelmalak, MD
Cleveland Clinic

Paul Addison, PhD
Covidien

Aymen Alian, MD
Yale University School of Medicine

Dave Arney
Massachusetts General Hospital

Charlotte, Bell, MD

Lauren Berkow, MD
Johns Hopkins School of Medicine

D. John Doyle, MD
Cleveland Clinic

Christina DeMur
 Draeger Medical

Jesse Ehrenfeld, MD, MPH
Vanderbilt University

Richard Epstein, MD
Thomas Jefferson University Hospital

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

David Feinstein, MD
Beth Israel Deaconess Medical Center

Julian Goldman, MD
Harvard Medical School

Thomas Hemmerling, MD
McGill University

Curtis Kennedy, MD, PhD
Texas Children's Hospital

Samsun Lampotang, MD
University of Florida

Matthew Levin, MD
Mount Sinai Medical Center

Jeff Mandel, MD
The Hospital of the University of Pennsylvania

Richard Melker, MD
Xhale, Inc

Anne Miller, PhD
Center for Research & Innovation in Systems Safety

Andres Navedo, MD
Boston Children's Hospital

Kenneth Pauker, MD
California Society of Anesthesiologists

John Pawlowski, MD
Beth Israel Deaconess Medical Center

Jeff Plourde
Massachusetts General Hospital

Tracy Rausch, CCE
Massachusetts General Hospital

Brian Rothman, MD
Vanderbilt University Medical Center

Norma Sandrock, MD
Beth Israel Deaconess Medical Center

Kirk Shelley, MD
Yale University

Joan Spiegel, MD
Beth Israel Deaconess Medical Center

Greg Spratt, BS, RRT, CPFT
Covidien

Jonathan Wanderer, MD
Vanderbilt University Medical Center

Denham Ward, MD
FAER

Dwayne Westenskow, PhD
University of Utah

- Registration and Course Materials
- Reception, 2 Lunches, 3 Continental Breakfasts, and Friday Night Dinner Event