aturing a loin Session with the **Foundation for** Anesthesia **Education and** Research

Society for Technology in Anesthesia

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2013 Annual Meeting January 9-12, 2013 Phoenix, Arizona CRACE CONTRACTOR OF CONTRACTOR

Royal Palms Resort & Spa

5200 East Camelback Road, Phoenix, Arizona 85018

Reservations: 800.672.6011 Phone: 602.840.3610

> \$239.00 STA Group Rate Available Through December 14, 2012

6737 W. Washington St. Suite 1300 Milwaukee, WI 53214 | 414-389-8600 | www.stahq.org

Registration Information

Paper Registrations By Fax Or Mail

(SEE CONTACT INFORMATION BELOW) If you are unable to register online please mail your paper registration form.

Onsite Registrations

Online registration accepted until January 3, 2013. After January 3, 2013 limited onsite registration.

Registration Cancellation

All cancellations must be in writing and sent via U.S. mail, e-mail or fax. Tuition for cancellations postmarked or date stamped before January 3, 2013 will be completely refunded with an administrative fee of \$25.00. NO **REFUNDS WILL BE MADE** AFTER JANUARY 3, 2013.

For Additional Information, Contact:

Society for Technology in Anesthesia 6737 W. Washington St. Suite 1300 Milwaukee, WI 53214 stahq@stahq.org 414-389-8600 OFFICE: 414-276-7704

PLEASE NOTE: Registration is not complete until you receive the 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:

- Continuing Medical **Education Credits**
- Registration and Course Materials
- Reception, 2 Lunches, 3 Continental Breakfasts, and Friday Night Dinner Event

www.stahq.org * *** ONLINE REGISTRATION**

Online registration accepted until Thursday, January 3, 2013 – Limited Onsite Registration

MAIL OR FAX REGISTRATION FORM

This is how your name will appear on your name badge. *Required for CME credits.

*FIRST NAME:		*LAST NAME:		
*SUFFIX (JR., SR., ETC.):				
*COMPANY/INSTITUTIONAL	AFFILIATION:			
*SPECIALTY:	*PLEA	ASE STATE YOUR HIGHEST DEGREE(S):		
*ADDRESS:				
*CITY:	*STA	ATE: *ZIP:	*Country:	
WORK: ()		FAX: (
*EMAIL ADDRESS:				
Special Needs:	□ Hearing Impaired □	Sight Impaired D Other:		
	Dietary (Please Specify)			
REGISTRATION FEES Course materials & CME credits. Reception, 2 Lunches, 3 Continental Breakfasts, and Friday Night Dinner Event				
		Early Bird by 11/15/12	<u> 12/15/12</u> <u>After 12</u>	/15/12
STA Member Reg	gistration (membership dues mu	ist be paid for 2012) \$475.00	\$500.00 \$525	.00
🗖 Non-Member Re	gistration	\$525.00	\$575.00 \$625	.00
🗖 Resident Registr	ation	\$50.00	\$50.00 \$50.	00
		SUE	B TOTAL:	

ALA CARTÉ ITEMS

A.I.M.S. Workshop (with a full conference registration)	\$75.00	
A.I.M.S. Workshop Only	\$225.00	
Additional Wednesday Night Reception Ticket	\$50.00	
🗖 Additional Friday Night Dinner	\$99.00	
	SUB TOTAL:	
PAYMENT MUST ACCOMPANY REGISTRATION.	TOTAL DUE:	

METHOD OF PAYMENT

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

1. Check: Make payable to STA. There is a \$25.00 returned check fee. Employer Check Included 🗖 Personal Check Included Employer or Personal Check to Arrive Under Separate Cover

2. Credit Card Payments:	🗖 Visa	MasterCard	Discover		
NAME ON CARD:					
BILLING ADDRESS:					
CITY:		STATE:	ZIP:		
No.			Sec. C	Code Exp. Date	
Signature:					

Schedule of Events

Wednesday, January 9, 2013

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

 1800 – 1930
 Registration & Opening Reception

Thursday, January 10, 2013

0700 - 0800	Registration & Continental Breakfast
0800 – 0815	Welcome Address George Blike, MD Jesse Ehrenfeld, MD, PhD

Session 1: Keynote Address

0815 – 0930	Using IT to Control Variability in Medical
	Practice & Improve Medical Outcomes
	Bill Stead, MD

0930 – 1000 Break with Exhibitors & Posters

Session 2: Patient Safety in the

Post-Operative General Care Setting

George Blike, MD – Moderator

1000 – 1030	Automated Remote Triage, Military and Civil- ian Models & Potential Impact on "Failure to Rescue" Events Susan McGrath, PhD
1030 – 1100	Sensor Technologies that might Support Early Detection Today & Tomorrow Patrick Tighe, MD, MS
1100 – 1130	From Respiratory Depression to Circulatory Failure, What Can We Do Now? Andreas Taenzer, MS, MD, FAAP
1130 – 1200	Panel Discussion

1200 – 1330 Luncheon Personalized Medicine Technology Trends: Impact on Anesthesiology Kenneth Holroyd, MD

Session 3: JOINT SESSION



FOUNDATION FOR ANESTHESIA EDUCATION AND RESEARCH

Regulate or Innovate: Can We Do Both? Moderator: Jeffrey Feldman, MD, MSE

1330 – 1400	The View From the FDA Speaker Invited
1400 – 1430	Medical Devices & the World Market Kai Kueck
1430 – 1500	International Regulatory Approaches: More Innovative or Less Safe? Julian Goldman, MD
1500 – 1530	Panel Discussion
1530 – 1545	Break with Exhibits & Posters

Session 4: Research Awards & Presentations

Thomas Hemmerling, MD – Moderator

1545 – 1700	Research Awards & Presentations
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Friday, January 11, 2013

- 0715 0815 Registration & Continental Breakfast
- Session 5: Visualizing Complex Data

Matt B. Weinger, MD – Moderator

0815 – 0845	Perils & Pitfalls of Anesthesiology Displays Matt B. Weinger, MD
0845 – 0915	Touch Your Patient - A Tactile Display of Information <i>Mark Ansermino, MBBCh, MMED,</i> <i>MSc (Informatics), FFA (SA), FRCPC</i>
0915 – 0945	Visualizing Complex Data Heike Hofmann, PhD
0945 – 1000	Panel Discussion
1000 – 1030	Break with Exhibitors & Posters

Session 6: Monitoring Technology Advances

Maxime Cannesson, MD – Moderator

1030 – 1100	Early Warning Scores & Predicting Patient Deterioration Michael O'Reilly, MD
1100 – 1130	From Identification to Prediction Health & Safety Andreas Taenzer, MS, MD, FAAP

Schedule of Events Continued

1130 – 1200	Use of Complexity Modeling of	Saturday, January		
	Physiological Signals to Predict in Real Time Cardio-respiratory Instability	0730 – 0830	Registrati	
1200 – 1215	Michael Pinsky, MD, CM, Drhc, FCCP, FCCM Panel Discussion	Session 9: I Mohamed Rel		
1215 – 1330	STA Business Luncheon & Awards George Blike, MD	0830 – 0900	What Can Jonathan V	
Session 7: 1330 – 1530	Concurrent Workshops	0900 – 0930	What Doe Mark Ansei MSc (Inforr	
Maxi	ed Loop Controllers me Cannesson, MD hh Rinehart, MD	0930 – 1000	Enterprise Decision S Bimal Desc	
-	t hesia Machines ker Invited	1000 – 1015	Panel Disc	
3) Mob	ile Applications	1015 – 1030	Break	
Brian Rothman, MD Session 8: Concurrent Workshops		Session 10: Cutting I John Doyle, MD, PhD & Kirl		
1530 – 1700		1030 – 1100	Nanotech	
	stry/Engineering Session tina DeMur		Anesthes i John Doyle	
Greg	Spratt, BS, RRT, CPFT	1100 – 1130	Non-invas Complian	
-	neering Contest Iandel, MD		Kirk Shelley	
3) MPO Sachi	G in Kheterpal, MD	1130 – 1200	Using the Venous Pr Replacem Aymen Alic	
1800 – 2130	Dinner Event (included in attendee registration fee)	1200 – 1215	Panel Dise	
		1215	Adjourn	
			-	

Invited Faculty

Aymen Alian, MBBCh, MD, MSc Yale University

Mark Ansermino, MBBCh, MMED, MSc (Informatics), FFA (SA), FRCPC University of British Columbia

George Blike, MD Dartmouth-Hitchcock Medical Center

Maxime Cannesson, MD School of Medicine, University of California-Irvine

Christina Demur Draeger Medical

Bimal Desai, MD, MBI, FAAP Perelman School of Medicine, University of Pennsylvania School of Medicine

John Doyle, MD, PhD Cleveland Clinic

Jesse Ehrenfeld, MD, PhD Vanderbilt University

David Feinstein, MD **Beth Israel Deaconess Medical Center**

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

Julian Goldman, MD Harvard Medical School

Thomas Hemmerling, MD McGill University

Heike Hofmann, PhD Iowa State University

Kenneth Holroyd, MD Vanderbilt University Medical Center

Sachin Kheterpal, MD University of Michigan

Jeff Mandel, MD The Hospital of the University of Pennsylvania

Susan McGrath, PhD Dartmouth-Hitchcock Medical Center

Michael O'Reilly, MD Masimo

Michael Pinsky, MD, CM, Drhc, FCCP, FCCM University of Pittsburgh

Mohamed Rehman, MD, FAAP The Children's Hospital of Philadelphia

David L. Reich, MD Mount Sinai School of Medicine

Joseph Rinehart, MD University of California-Irvine

Brian Rothman, MD Vanderbilt University Medical Center

y 12, 2013

on & Continental Breakfast

upport: Today & Tomorrow Moderator

0830 – 0900	What Can be Done Today? Jonathan Wanderer, MD
0900 – 0930	What Does the Future Have for Us? Mark Ansermino, MBBCh, MMED, MSc (Informatics), FFA (SA), FRCPC
0930 – 1000	Enterprise Level Data Driven Decision Support Bimal Desai, MD, MBI, FAAP
1000 – 1015	Panel Discussion
1015 – 1030	Break

Edge Technologies

k Shelley, MD - Moderators

1030 – 1100	Nanotechnology and the Future of Anesthesia John Doyle, MD, PhD
1100 – 1130	Non-invasive Venous/Arterial Compliance Ratio Determination Kirk Shelley, MD
1130 – 1200	Using the Pulse Oximeter & Peripheral Venous Pressure Waveforms to Guide IV Fluid Replacement Aymen Alian, MBBCh, MD, MSc
1200 – 1215	Panel Discussion
1215	Adjourn

Kirk Shelley, MD Yale University

Greg Spratt, BS, RRT, CPFT Spratt Healthcare Consulting

Bill Stead, MD Vanderbilt University Medical Center

Andreas Taenzer, MS, MD, FAAP Dartmouth-Hitchcock Medical Center

Patrick Tighe, MD, MS University of Florida

Jonathan Wanderer, MD Vanderbilt University Medical Center

Matthew B. Weinger, MD Vanderbilt University School of Medicine

Michael Wilkening Draeger Medical GmbH

Program Objectives

- 1. Examine and identify 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.
- 2. Identify and explore key factors required for effective translational medical research, including management of conflict of interest issues and implementation of successful strategies to develop technologies.
- 3. Examine and identify 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, and patient safety.
- 4. Explore opportunities to advance and enhance environmentally responsible practices within anesthesia care.
- 5. Explore opportunities to advance safe automated anesthesia systems in order to improve patients safety.

Target Audience

This program is designed for physicians, engineers or other practitioners in the field of anesthesia seeking an update

on the current state of anesthesia technology.

Practice Gaps

The 2013 STA Annual Meeting will address the following practice gaps:

- The implementation of the new technology in rapidly changing work environments to include electronic medical records, new monitoring equipment and devices.
- The use of new non invasive technologies for hemodynamic monitoring and management in order to decrease the incidence of complications related to invasive technologies.
- Lower the impact of medical industry and of anesthesiology practice on the environment.
- Understand how automated anesthesia can improve outcomes and patient safety.

Barriers to Change

- 1. Understanding changing landscape of medical technology.
- 2. Incorporating scientific evidence into everyday clinic practice when using technology.

Accreditation Information

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 International Anesthesia Research Society (IARS) is an accredited body of the Accreditation Council for Continuing Medical Education (ACCME). The International Anesthesia Research Society (IARS) designates this educational activity for AMA PRA Category 1 Credits.[™] Physicians should only claim credit commensurate with the extent of their participation in the activity.

Overall Goal Statement

The goal of this program is to provide theoretical and practical information on various technologies within the field of clinical anesthesia.

DISCLOSURE

It is the policy of the IARS to comply with the ACCME standards for commercial support of CME. Planning Committee members and related staff disclosures must be on file annually with disclosures made available on program materials. Faculty participating in sponsored or jointly sponsored programs by IARS are required to disclose to the program audience any real or apparent financial relationships with commercial interests related to the content of their presentation(s). Faculty also are responsible for disclosing any discussion of off-label or investigational use of a product.

Pre-Conference Sessions

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

Wednesday, January 9, 2013

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 – 1345The Ideal A.I.M.S. SystemDavid Reich, MD

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





Royal Palms Resort & Spa 5200 East Camelback Road Phoenix, Arizona 85018 Reservations: 800.672.6011 / Ph: 602.840.3610 Hearing Impaired Assistance - TTY Toll Free 877.314.7081

\$239.00 STA Group Rate Available Through December 14, 2012

All reservations made individually through the hotel's reservation department by calling **800.672.6011.**

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