

# PRELIMINARY PROGRAM

*See Inside for Updates to the Program!*

## IARS 2012 Annual Meeting

Friday, May 18 to Monday, May 21



**Register by  
February 17  
and Save!**



## International Science Symposium *Mechanisms of Anesthesia*

Friday, May 18

**Headquarters Hotel**  
Marriott Copley Place  
Boston, Massachusetts



# IARS

International Anesthesia Research Society

*Celebrating 90 Years of Excellence*



# IARS

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*Celebrating 90 Years of Excellence*

## DID YOU KNOW?

### Your IARS Membership includes:

- 12 monthly issues of *Anesthesia & Analgesia* in all formats - Print, Online, iPad app, Smartphone/PDA
- Free access to the full *Anesthesia & Analgesia* archive - 90 years of content!
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## Register by February 17 and Save!

**Join over 1,000** of the world's leading anesthesia educators and investigators and discover the latest advances in research and the best practices in anesthesia clinical care.

Benefit from four days of outstanding education with **27 Review Course Lectures** featuring presentations by the leading experts in their topic field, **17 Panel Presentations** with cutting-edge topics in sub-specialty fields, **Interactive Workshops** providing one-on-one demonstrations, **Problem-Based Learning Discussions** with challenging case-based scenarios and three days of **Moderated Abstract Poster Sessions**.

### Featured Sessions Include:

- **T.H. SELDON MEMORIAL LECTURE**  
Join *James P. Bagian, MD, PE*, Director of the Center for Healthcare Engineering and Patient Safety; Professor, Medical School and the College of Engineering, University of Michigan, for the **Opening Session - Patient Safety: Anesthesia Can Lead the Way**
- International Science Symposium – focusing on the **Mechanisms of Anesthesia**
- Resident Symposium – A session dedicated to **Resident education and advancement** including a **Best of Resident Abstract Presentation**
- The Clinical Research Symposium – focusing on **The Role of Specialist Societies in Clinical Outcomes Research: How Can They Take a Lead?**



Photos from the  
**IARS 2011 Annual Meeting Vancouver**

### Network with the Trustees of the IARS and Editors of *Anesthesia & Analgesia*

**You're invited to attend the IARS Networking Reception to be held**

**Saturday, May 19, 6:30 – 7:30 pm**  
during the IARS Annual Meeting.

Join your colleagues for this complimentary reception, relax and unwind, build new relationships, renew old acquaintances, and meet one-on-one with the IARS Board of Trustees and the Editorial Board of *Anesthesia & Analgesia*. Cocktails and hors d'oeuvres will be served. We look forward to seeing you there!

# History of Anesthesia Offsite Tour

Did you know that the **History Of Anesthesia** in the United States began in Boston, Massachusetts? In 1846, in this very city, Dr. William Thomas Green Morton first publicly demonstrated the efficacy of ether anesthesia to a then cynical and skeptical audience.

The IARS would like our meeting attendees to take advantage of our celebrated Boston location and expand their anesthesia historical knowledge. Therefore we have arranged a special educational tour of the History of Anesthesia in Boston.



Guided tours will be available to some of the following historically significant anesthesia locations.

**THE ETHER DOME** – Considered by some as holy ground in anesthesia, Massachusetts General Hospital’s surgical amphitheater, now known as the Ether Dome is the exact location where Dr. William Morton conducted his public demonstration. Between 1821 and 1868, more than 8,000 operations were performed in the Ether Dome and today it is a teaching amphitheater and historical landmark. Visitors can explore the unique architecture and a small collection of artifacts, including an oil painting of the famous first surgery, an Egyptian mummy and early surgical tools.



**THE ETHER MONUMENT** – Located in the Boston Public Gardens and erected in 1868, this 40 foot tall monument commemorates the first use of ether as an anesthetic under the Ether Dome. The Monument stands in a prominent spot in the Boston Public Garden and is the world’s only monument to a drug.



**THE FRANCIS A. COUNTWAY LIBRARY OF MEDICINE** – Home to the most famous medical painting in history, Ether Day by Robert C. Hinckley. The library also houses instruments used during the 1846 demonstration and surgery.

**THE MOUNT AUBURN CEMETERY** – The first landscaped cemetery in the U.S. and the final resting place of not only Dr. William Morton but also other notables including Dr. Henry Jacob Bigelow, Augustus Gould, Oliver Wendell Holmes and Charles Sumner.

The Anesthesia History Tour attendees will also make a stop to dine at the world famous Union Oyster House, established in 1826 the **UNION OYSTER HOUSE** is *America’s oldest Restaurant* and a designated national historic landmark (dinner is included in the tour price).

The historical tours are scheduled for Saturday, May 19, 1:00 - 5:00 pm.

*Pre-registration for the historical tour is limited and available online only. The tour fee of \$149.00 (non-refundable) is in addition to the General Registration fee. 2.5 hours of CME will be awarded for the historical tour*



# T.H. SELDON MEMORIAL LECTURE

## Opening Session

**Friday, May 18**  
**8:30 - 9:30 am**

## ***Patient Safety: Anesthesia Can Lead the Way***



**James P. Bagian, MD, PE**  
*Director of the Center for  
Healthcare Engineering and Patient Safety  
Professor, Medical School and the  
College of Engineering  
University of Michigan  
Ann Arbor, Michigan*

Dr. James P. Bagian has extensive experience in the fields of human factors, aviation, and patient safety. Dr. Bagian is the Director of the Center for Healthcare Engineering and Patient Safety and is a Professor in the Medical School and

the College of Engineering at the University of Michigan. Previously he served as the first and founding director of the VA National Center for Patient Safety and as the VA's first Chief Patient Safety Officer where he developed numerous patient safety related tools and programs that have been adopted nationally and internationally. A NASA astronaut for over 15 years, he is a veteran of two Space Shuttle missions including the lead mission specialist for the first dedicated Life Sciences Spacelab mission. Following the 1986 Challenger space-shuttle explosion he dove and supervised the capsule's recovery from the ocean floor and was one of the leaders of the development of the Space Shuttle Escape System. He also served as the Chief Flight Surgeon and Medical Consultant for the Space Shuttle Columbia Accident Investigation Board. Dr. Bagian holds a B.S. degree in mechanical engineering from Drexel University and a doctorate in medicine from Thomas Jefferson University. He is a Fellow of the Aerospace Medical Association, a member of the National Academy of Engineering, the Institute of Medicine, and has received numerous awards for his work in the field of patient safety and aerospace medicine.

### ***T.H. Seldon Memorial Lecture***

Established to honor Dr. "Harry" Seldon, the *Anesthesia & Analgesia* Editor-In-Chief for 23 years from 1954-1976. It became the Seldon Memorial Lecture in 1992 after Dr. Seldon's death in 1991.

## **IARS 2012 ANNUAL MEETING PROGRAM CO-CHAIRS**

**Colleen Koch, MD, MS, MBA, FACC**  
Cleveland Clinic Lerner College of Medicine of  
Case Western Reserve University  
Cleveland Clinic • Cleveland, Ohio

**Keith A. (Tony) Jones, MD**  
University of Alabama  
Birmingham, Alabama

## **IARS 2012 INTERNATIONAL SCIENCE SYMPOSIUM PLANNING COMMITTEE CO-CHAIRS**

**Emery N. Brown, MD, PhD**  
Massachusetts General Hospital/MIT  
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# INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

## 2012 ANNUAL MEETING

### CONTINUING MEDICAL EDUCATION (CME)

### ACTIVITY INFORMATION

#### Activity Overview

Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The IARS 2012 Annual Meeting addresses anesthesiology practice gaps in all areas of anesthesiology practice and pain management and supports physician behavior changes and improved patient outcomes.

#### Target Audience

The IARS 2012 Annual Meeting CME activity is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists in training, anesthesia researchers, and allied health professionals who conduct research, practice or intend to practice in any area of general anesthesia, subspecialty anesthesia, or pain management.

#### Educational Objectives

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

- Recognize the current state of emerging knowledge and practice patterns and assess the relevance for their professional practice;
- Incorporate new knowledge from advances in anesthesiology practice into their professional practice areas;
- Recognize gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

#### Accreditation

This educational activity was planned and produced in accordance with the ACCME Essentials and Standards relating to continuing medical education. The International Anesthesia Research Society (IARS) is accredited by the Accreditation Council on Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

#### Continuing Medical Education Credit

The IARS designates this educational activity for a maximum of **31 AMA PRA Category 1 Credits**.™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

The American Medical Association (AMA) has determined that physicians not licensed in the United States who participate in this CME activity are eligible for AMA Physician's Recognition Award Category credits.

#### Claiming CME Credit

The IARS will provide online program evaluation and session tracking to support claiming CME credit. In compliance with ACCME guidelines, credit may be claimed beginning on the day following completion of a session. Physicians may complete session evaluations online during the IARS 2012 Annual Meeting or after the event, and may print CME certificates after the event from any computer with an internet connection. Printers will not be available onsite. Visit the Cyber Café to access the online CME evaluation. Credit for the IARS 2012 Annual Meeting can be claimed online at [www.iars.org/congress](http://www.iars.org/congress) through April 30, 2013.

#### Maintenance of Certification in Anesthesiology

For the Maintenance of Certification in Anesthesiology Program® (MOCA®) you will be asked to enter your ABA ID, after completing your session evaluations, into the online credit reporting system mentioned above. The IARS will forward your CME credits to the ABA following the Annual Meeting on a quarterly basis (March, June, September and December).

#### Disclosures

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. Disclosure information is printed in the Final Program and available online at [www.iars.org/congress](http://www.iars.org/congress) after May 11, 2012.

#### About the IARS

The International Anesthesia Research Society is a nonpolitical, not-for-profit medical society founded in 1922 to advance and support scientific research and education related to anesthesia, and to improve patient care through basic research. The IARS contributes nearly \$1 million annually to fund anesthesia research; provides a forum for anesthesiology leaders to share information and ideas; maintains a worldwide membership of more than 15,000 physicians, physician residents, and others with doctoral degrees, as well as health professionals in anesthesia-related practice; sponsors the SmartTots initiative in partnership with the FDA; and publishes the monthly *Anesthesia & Analgesia* journal in print and online.

# INTERNATIONAL SCIENCE SYMPOSIUM

## *MECHANISMS OF ANESTHESIA*

FRIDAY, MAY 18 • 11:00 AM – 4:00 PM

### SYMPOSIUM TIMELINE

11:00 am - 12:00 pm Lunch and Poster Discussion  
12:00 pm - 3:00 pm Presentations  
3:00 pm - 4:00 pm Panel Discussion and Audience Q&A

### MODERATOR

**Emery N. Brown, MD, PhD**

*Professor of Computational Neuroscience and Health Sciences and Technology,  
Department of Brain and Cognitive Sciences, MIT-Harvard Division of Health  
Science and Technology*

*Massachusetts Institute of Technology, Cambridge, Massachusetts*

*Warren M. Zapol Professor of Anaesthesia, Harvard Medical School*

*Department of Anesthesia, Critical Care and Pain Medicine*

*Massachusetts General Hospital, Boston, Massachusetts*

### PANEL PRESENTERS

**George A. Mashour, MD, PhD**

*Assistant Professor*

*of Anesthesiology and Neurosurgery*

*Director, Division of Neuroanesthesiology*

*University of Michigan Medical School*

*Ann Arbor, Michigan*

**Kane O. Pryor, MBBS, MD**

*Assistant Professor of Clinical Anesthesiology*

*Assistant Professor of Anesthesiology in Clinical Psychiatry*

*Weill Cornell Medical College*

*Department of Anesthesiology and Critical Care*

*Memorial Sloan-Kettering Cancer Center*

*New York, New York*

**Patrick Purdon, PhD**

*Instructor of Anaesthesia*

*Harvard Medical School*

*Assistant in Bioengineering*

*Department of Anesthesia and Critical Care*

*Massachusetts General Hospital*

*Boston, Massachusetts*

**Ken Solt, MD**

*Assistant Professor*

*Department of Anesthesia, Critical Care*

*and Pain Medicine*

*Harvard Medical School*

*Boston, Massachusetts*

## DAILY SCHEDULE AT-A-GLANCE

6:00 am – 5:30 pm	Registration	10:00 am – 5:00 pm	Concurrent Education Sessions
7:00 am – 8:00 am	Problem-Based Learning Discussions		<ul style="list-style-type: none"> <li>• Review Course Lectures</li> <li>• Panels</li> <li>• Moderated Poster Discussion Rounds</li> </ul>
8:00 am – 8:30 am	IARS Welcome		
8:30 am – 9:30 am	T.H. Seldon Memorial Lecture Opening General Session	11:00 am – 4:00 pm	IARS International Science Symposium
<b>7:00 am - 1:00 pm Tabletop Exhibits</b>			

### ● Problem-Based Learning Discussions

*The Problem-Based Learning Discussions (PBLDs) will be conducted as case-based, problem-oriented, learner-centered discussions.*

*PBLD seating is limited and pre-registration is required. Turn to the registration form on page 23 for details.*



**PBLD-01 • 7:00 – 8:00 am**

#### SOCIETY FOR PEDIATRIC ANESTHESIA

**Moderator:** Nancy Glass, MD, MBA, FAAP, Professor, Pediatric Anesthesiology, Director, Pediatric Anesthesia Fellowship, Director, Pediatric Pain Service, Director, Anesthesia Education, Texas Children's Hospital, Houston, Texas



**PBLD-02 • 7:00 – 8:00 am**

#### BEYOND THE SIP BUNDLE: EMERGING CONCEPTS IN INFECTION PREVENTION FOR THE ANESTHESIOLOGIST

**Moderator:** Randy W. Loftus, MD, Assistant Professor of Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify and discuss the limits of bundles; (2) Review and evaluate new evidence for stopcocks, anesthesia machines, environmental factors as potential contributors to nosocomial infections; (3) Identify and characterize the role of the patient and potential for decontamination to prevent infections; (4) Discuss whether we use the correct antibiotics; and (5) Demonstrate the importance of hand hygiene in fast paced environments.



**PBLD-03 • 7:00 – 8:00 am**

#### MASSIVE OBSTETRIC HEMORRHAGE, BLOOD CONSERVATION STRATEGIES, NEW THERAPEUTIC OPTIONS, AND MASSIVE TRANSFUSION PROTOCOL

**Moderator:** Ashutosh Wali, MD, FFARCSI, Associate Professor of Anesthesiology, Associate Professor of Obstetrics and Gynecology, Director, Advanced Airway Management, Baylor College of Medicine, Houston, Texas

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the common causes of antepartum hemorrhage and postpartum hemorrhage; (2) Discuss drug therapy for management of uterine atony, which is the commonest cause of postpartum hemorrhage; (3) Discuss blood conservation techniques for massive obstetric hemorrhage; (4) Describe the role of recombinant factor VIIa and massive transfusion protocol in peripartum hemorrhage; and (5) Discuss novel surgical options following massive obstetric hemorrhage.

*Sessions and presenters listed are as of press time and subject to change.*

**IARS WELCOME AND  
OPENING GENERAL SESSION  
8:00 – 8:30 am**

**8:30 – 9:30 am**

**T.H. SELDON  
MEMORIAL LECTURE**

***PATIENT SAFETY:  
ANESTHESIA CAN LEAD THE WAY***

**James P. Bagian, MD, PE**  
*Director of the Center for Healthcare  
Engineering and Patient Safety  
Professor, Medical School and the  
College of Engineering,  
University of Michigan  
Ann Arbor, Michigan*

Patient safety will be discussed from the perspective of its underlying challenges and with particular emphasis on the approaches and tools that can be employed to deal with these challenges. Numerous real world examples will be used from not only healthcare but also aviation and other fields of endeavor.

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the goal of patient safety; (2) Describe the importance of close calls in identifying patient safety vulnerabilities; (3) Identify the value of a non-punitive approach to problem identification and resolution; (4) Describe the value of clearly defining what activities are blameworthy; (5) Describe the role that leadership at all levels plays in the institution of an effective patient safety program; and (6) Identify strategies for prioritizing and ameliorating patient safety vulnerabilities.

● **Review Course Lectures**

**RCL-01 • 10:00 – 10:55 am**

**NEUROANESTHESIA: MYTHS AND MYSTERIES FOR THE OCCASIONAL NEUROANESTHESIOLOGIST**

**Presenter:** Gregory Crosby, MD, *Associate Professor, Harvard Medical School, Department of Anesthesiology, Brigham and Women's Hospital, Boston, Massachusetts*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Explain how, why, and when physiologic management (blood pressure, glucose, fluids, and ventilation) differs for a neurosurgical patient; (2) Know what is special and what isn't about anesthetic choices; (3) Differentiate between common neurophysiologic monitoring modalities; and (4) Discuss the current status of "brain protection".

**RCL-02 • 11:00 – 11:55 am**

**TEVAR – PERIOPERATIVE MANAGEMENT AND OUTCOMES**

**Presenter:** Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, *Distinguished University Professor Chair/Chief, Department of Anesthesia and Perioperative Medicine, London Health Sciences Centre and St. Joseph Health Care, University of Western Ontario, London, Ontario, Canada*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will have: (1) Reviewed the pathology of thoracic aortic aneurysm disease; (2) Discussed the anesthetic consideration and perioperative management of TEVAR; and (3) Reviewed the perioperative outcomes of TEVAR and open surgery.

**RCL-03 • 1:00 – 1:55 pm**

**POSTOPERATIVE DELIRIUM: DIAGNOSIS AND MANAGEMENT STRATEGIES**

**Presenter:** Avery Tung, MD, *Professor, Quality Chief for Anesthesia, Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify and characterize the clinical presentation of postoperative delirium; (2) Review the epidemiology of postoperative and ICU delirium, including incidence, definition, and risk factors; (3) Identify current evidence-based strategies for minimizing and/or treating delirium; and (4) Characterize difficulties and challenges in measuring and treating postoperative and ICU delirium.

● **Review Course Lectures — continued**

**RCL-04 • 2:00 – 2:55 pm**

**TRALI: AN EVER PRESENT DANGER**

**Presenter:** Colleen Koch, MD, MS, MBA, FACC, *Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Vice Chair Research and Education; Department of Cardiothoracic Anesthesia, Quality and Patient Safety Institute, Cleveland Clinic, Cleveland, Ohio*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will have: (1) Reviewed recent data on the prevalence of Transfusion Related Acute Lung Injury; (2) Examined the proposed mechanisms for the development of TRALI; and (3) Discussed data on lung injury as it relates to perioperative red cell and component transfusion.

**RCL-05 • 3:00 – 3:55 pm**

**LIES, DAMN LIES AND ANESTHETIC MYTHS**

**Presenter:** John F. Butterworth, IV, MD, *Professor and Chair, Department of Anesthesiology, VCU School of Medicine, Richmond, Virginia*

**LEARNER OBJECTIVES:** This lecture examines commonly held beliefs in the practice of anesthesia. After participating in this activity, the learner will be: (1) Made aware of the limited data that support seemingly well-established clinical practices; and (2) Will retain a healthy skepticism about the scientific underpinnings of common anesthetic preferences, practices and traditions.

**RCL-06 • 4:00 – 4:55 pm**

**PEDIATRIC AIRWAY MANAGEMENT: CONGENITAL ANOMALIES THAT CAN MAKE YOUR LIFE DIFFICULT!**

**Presenter:** Santhanam Suresh, MD, FAAP, *Vice Chairman and Director of Research and Pain Medicine, Children's Memorial Hospital, Professor of Anesthesiology and Pediatrics, Northwestern University, Chicago, Illinois*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Recognize common syndromes in children that lead to airway difficulty; (2) Postulate mechanisms for securing the airway; and (3) Identify an alternative source for airway intervention if original plan fails.

**Join the IARS and save on your registration!**

IARS Members receive discounted registration fees at the Annual Meeting. Not a Member? Join today! Visit [www.iars.org/membersinfo](http://www.iars.org/membersinfo)

● **Panels**



**P-01 • 10:00 – 11:30 am**

**SOCIETY FOR PEDIATRIC ANESTHESIA**

**Moderator:** Nancy Glass, MD, MBA, *Professor, Pediatric Anesthesiology, Director, Pediatric Anesthesia Fellowship, Director, Pediatric Pain Service, Director, Anesthesia Education, Texas Children's Hospital, Houston, Texas*

**Panelists to be announced**



**P-02 • 1:00 – 2:30 pm**

**THE MOCA® SIMULATION EXPERIENCE: IMPROVING OUR PRACTICE**

**Moderator:** John P. Rask, MD, MA

**Panelists:**

**Ken B. Johnson, MD,** *Professor, Department of Anesthesiology, Director, Center for Patient Simulation, University of Utah School of Medicine, Salt Lake City, Utah*

**Christine S. Park, MD,** *Assistant Professor, Department of Anesthesiology, Medical Director, Patient Safety Simulation Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois*

**John P. Rask, MD, MA,** *Assistant Professor, Director, Simulation Education, Department of Anesthesiology and Critical Care Medicine, University of New Mexico School of Medicine, Albuquerque, New Mexico*

**Deborah J. Culley, MD,** *Assistant Professor, Harvard Medical School, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts*

The American Board of Anesthesiology (ABA) instituted a simulation requirement in 2010 as a component of part IV of its Maintenance of Certification in Anesthesiology (MOCA®) program. The ABA has collaborated with the American Society of Anesthesiologists (ASA), through its Committee on Simulation Education, to design and implement a simulation experience that satisfies the requirement. The ASA organized its endorsed simulation centers into the Simulation Education Network (SEN), to deliver the required training. Panelists, who are both Committee and SEN members, will describe the endorsement of simulation centers, the goals of the simulation experience from the perspective of a participating ABA Diplomate, and the results obtained to date. The panelists will address frequently asked questions such as "Can I fail the simulation component?," "What should I study to prepare?," and "What is a practice improvement plan?" Feedback from simulation course attendees will be reviewed. Questions and comments are welcome.

## ● Panels — continued



P-03 • 1:00 – 2:30 pm

### AVOIDING CATASTROPHES IN OBSTETRICS

Moderator: Maya S. Suresh, MD

#### Panelists:

- **ACOG Guidelines on VBAC and the Role of the Anesthesiologist**

C. LaToya Mason, MD, *Assistant Professor of Anesthesiology, Baylor College of Medicine, Houston, Texas*

- **Alert on Postpartum Hemorrhage: Protocols, Preparation, Novel Therapies**

Yaakov (Jake) Beilin, MD, *Professor of Anesthesiology, Professor of Obstetrics, Gynecology and Reproductive Science, Mount Sinai School of Medicine, New York, New York*

- **Avoiding Airway — Related Catastrophes in Obstetrical Patients**

Maya S. Suresh, MD, *Professor and Chairman, Baylor College of Medicine, Division Chief Obstetric and Gynecology Anesthesiology, President of SOAP, President of SAM, Houston, Texas*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the maternal morbidity and mortality statistics worldwide on hemorrhage; (2) Discuss protocols, radiological interventions, novel therapies and different types of anesthetic management; (3) Discuss the latest ACOG guidelines on Vaginal Birth after Cesarean section; (4) Discuss the recognition and management of uterine rupture; (5) Discuss the anesthesia-related maternal mortality in USA and UK due to induction and intubation problems; and maternal deaths related or associated with anesthesia at extubation and following emergence; (6) Discuss the Closed Claims Studies and highlight the airway-related issues related to extubation and emergence; and (7) Discuss strategies for management of difficult airway/ failed intubation.



P-04 • 3:00 – 4:30 pm

### INTERNATIONAL SOCIETY OF ANAESTHETIC PHARMACOLOGY

#### Panelists:

- **The Pharmacy is Out of Fentanyl Again. What Do I Do?**

Dhanesh K. Gupta, MD, *Associate Professor in Anesthesiology and Neurological Surgery, Northwestern University Feinberg School of Medicine, Chicago, Illinois*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Review the pharmacokinetics and pharmacodynamics of fentanyl, morphine, hydromorphone, and methadone; (2) Identify the effect-site concentration-time relationships for opioid analgesia and ventilatory depression; and (3) Use knowledge of opioid pharmacokinetic-pharmacodynamics to develop rational equi-effective dosing strategies.

- **Developmental Neurotoxicity: Are the Narcotics Safe?**

Vesna Jevtovic-Todorovic, MD, PhD, MBA, *Professor of Anesthesiology and Neuroscience, University of Virginia Health System, Charlottesville, Virginia*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Review presently available animal literature regarding the effects of early exposure to commonly used opioids on the developing animal brain; (2) Review presently available clinical findings regarding potentially neurotoxic effects of prolonged exposure to opioids during early stages of human brain development; and (3) Discuss future directions of research aimed at understanding the long term effects of opioid use during early childhood (especially during neonatal period).

- **An Emerging Paradigm In Neuropathic Pain: Targeting The Inflamed Glial Cells**

Mohamed Naguib, MB, BCh, MSc, FARC SI, MD, *Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, Ohio*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the role of glial cells in mediating neuroinflammatory response in neuropathic pain; (2) Review the role of cannabinoids receptor type 2 (CB2) agonists in modulating glial activation and preventing neuropathic pain; and (3) Discuss the limitations of CB1 agonists in the setting of neuropathic pain.

**Early Bird Registration Register by February 17 and Save!**

## DAILY SCHEDULE AT-A-GLANCE

6:00 am – 5:30 pm Registration

7:00 am – 8:00 am Problem-Based Learning Discussions

8:00 am – 11:30 am Resident Symposium

8:00 am – 6:00 pm Concurrent Education Sessions

- Review Course Lectures
- Panels
- Workshops
- Moderated Poster Discussion Rounds

7:00 am - 1:00 pm Tabletop Exhibits

### ● Problem-Based Learning Discussions

*The Problem-Based Learning Discussions (PBLDs) will be conducted as case-based, problem-oriented, learner-centered discussions.*

*PBLD seating is limited and pre-registration is required. Turn to the registration form on page 23 for details.*



**PBLD-01 • 7:00 – 8:00 am**

**CONCERNED ABOUT THE CERVICAL SPINE – “SO WILL YOU INTUBATE?”**

**Moderator:** Rafi Avitsian, MD, Section Head, Neurosurgical Anesthesiology, Neuroanesthesia Fellowship, Program Director, Assistant Professor of Anesthesiology and Staff Anesthesiologist, Anesthesiology Institute Cleveland Clinic, Cleveland, Ohio

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Review the anatomy of the cervical spine, its changes with aging and pathologic states; (2) Recognize the important anesthetic consideration in patients with pathologic cervical spine; (3) Assess the extent of cervical spine movement during intubation with different methods; and (4) Design an induction and intubation plan for patients with concerned cervical spine.



**PBLD-02 • 7:00 – 8:00 am**

**DRUG-INDUCED RESPIRATORY DEPRESSION: MISHAPS AND LIABILITY**

**Moderator:** Richard C. Prielipp, MD, MBA, FCCM, J.J. Buckley Professor and Chair, APSF Executive Committee and Chairman Committee on Education and Training, Department of Anesthesiology, University of Minnesota, Minneapolis, Minnesota

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Be aware of the association between OSA and critical post-operative respiratory arrest; (2) Decide if oxygen administration is beneficial or detrimental to patient monitoring after surgery; (3) Identify the role of pulse oximetry v. capnography; (4) Describe how communication failure contributed to the patient outcomes; and (5) Review the recommendations of the APSF for monitoring patients receiving PCA narcotics.



**PBLD-03 • 7:00 – 8:00 am**

**ANESTHESIA IN AN ORTHOPEDIC OUTPATIENT SURGERY CENTER: SYRINGE PUMP VERSUS VAPORIZER. IS TOTAL INTRAVENOUS ANESTHESIA A COSTLY GIMMICK OR WORTH THE HASSLE?**

**Moderator:** Ken B. Johnson, MD, Professor, Department of Anesthesiology, University of Utah, Salt Lake City, Utah

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the pros and cons of combined techniques using inhalational versus intravenous agents; and (2) Explore the clinical pharmacology, techniques, equipment requirements, cost, risk of awareness, prolonged emergence, PONV, patient satisfaction, and user satisfaction for each technique.

**PBLD-04 • 7:00 – 8:00 am**

**AIRWAY CASES FROM HADES!**

**Moderator:** D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic Foundation, Cleveland, Ohio

## ● Review Course Lectures

RCL-07 • 8:00 – 8:55 am

### COAGULATION COCKTAILS: HELPFUL HINTS AND HARD DATA FOR PERIOPERATIVE BLEEDING

**Presenter:** Jerrold H. Levy, MD, FAHA, *Professor and Deputy Chair for Research, Emory University School of Medicine, Cardiothoracic Anesthesiology and Critical Care Emory Healthcare, Atlanta, Georgia*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Summarize the pharmacologic therapies that affect hemostasis and the coagulation system; (2) Review the role of perioperatively acquired disorders of coagulation and implications for bleeding; (3) Identify the new anticoagulation agents recently approved and their perioperative management; and (4) Discuss pharmacologic strategies for decreasing postoperative bleeding, reducing transfusion coagulopathy, and reversing anticoagulation.

RCL-08 • 9:00 – 9:55 am

### CRITICAL CARE UPDATE: 2012

- **Veno-venous and veno-arterial ECMO: Why, what and when?**
- **Update on VADs and the total artificial heart: Getting closer to lift off?**
- **Ultrasound in the ICU: Opening new windows?**
- **Renal biomarkers: A troponin for the kidney?**

**Presenter:** Robert N. Sladen, MBChB, FCCM, *Professor and Executive Vice Chair of Anesthesiology and Chief, Division of Critical Care, Department of Anesthesiology, College of Physicians and Surgeons of Columbia University, New York, New York*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Recognize the physiology and current application of veno-venous and veno-arterial ECMO in acute respiratory failure and circulatory shock; (2) Discuss the current applications of ventricular assist devices and the total artificial heart as bridge to recovery, transplantation or destination therapy; (3) Gain insight into the expanding role of bedside ultrasound and echocardiography in the ICU and its practice by intensivists; and (4) Appreciate the promise and limitations of biomarkers in the early diagnosis of acute kidney injury.

RCL-09 • 10:00 – 10:55 am

### MINIMALLY INVASIVE SURGERY: SURGEONS REPLACED BY ROBOTS?

**Presenter:** Robert J. Cerfolio, MD, *Professor, Surgery, Chief of Section of Thoracic Surgery, JH Estes Endowed Chair for Lung Cancer Research, University of Alabama School of Medicine, Birmingham, Alabama*

**Presenter:** Ralph Thomas Lyerly, III, MD, *Assistant Professor, Department of Anesthesiology, University of Alabama School of Medicine, Birmingham, Alabama*

**LEARNER OBJECTIVES:** Thoracic surgeons are rapidly learning robotics techniques for pulmonary resection. After participating in this activity, the learner will have reviewed: (1) How new technical maneuvers can speed the operation and shorten the learning curve; and (2) That prospective studies have shown that MIS reduces operative morbidity and mortality, as well as shortens recovery time and pain post-operatively.

RCL-10 • 11:00 – 11:55 am

### NON-INVASIVE CARDIAC OUTPUT MONITORING: READY FOR PRIME-TIME?

**Presenter:** G. Burkhard Mackensen, MD, PhD, *Professor and Chief, Division of Cardiothoracic Anesthesiology, UW Medicine Research and Education Endowed Professor in Anesthesiology, Department of Anesthesiology and Pain Medicine, UW Medicine Regional Heart University of Washington, Seattle, Washington*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the various means of non-invasive cardiac output monitoring; (2) Recognize the limitations of non-invasive cardiac output monitoring; and (3) Be aware of the clinical utility of non-invasive cardiac-output monitoring in comparison with pulmonary artery catheterization and transesophageal echocardiography.

RCL-11 • 1:00 – 1:55 pm

### PERIOPERATIVE PAIN MANAGEMENT IN AMBULATORY SURGERY

**Presenter:** Spencer S. Liu, MD, *Clinical Professor of Anesthesiology, Director of Acute Pain Service, Hospital for Special Surgery, New York, New York*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will have (1) Assessed the potential effects from a selection of different types of general anesthesia on postoperative analgesia; (2) Reviewed advantages and disadvantages of selecting general versus regional anesthesia on patient recovery and postoperative analgesia; (3) Identified benefits and disadvantages of continuous regional analgesia techniques for ambulatory surgery; and (4) Reviewed clinical pharmacology of multimodal analgesia agents.

● Review Course Lectures — continued

RCL-12 • 2:00 – 2:55 pm

**WHY DO ‘SIMILAR’ PATIENTS HAVE DIFFERENT OUTCOMES?**

**Presenter:** Debra A. Schwinn, MD, Professor and Chair, Anesthesiology and Pain Medicine, Allan J. Treuer Endowed Professor in Anesthesiology, Adjunct Professor of Pharmacology and Genome Sciences, University of Washington, Seattle, Washington

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) List the difference between genetic and genomic medicine; (2) Describe how genetic variation potentially affects day-to-day care of perioperative patients; and (3) List drugs or medical conditions where genetic variability plays an important role in perioperative end organ injury or pain.

RCL-13 • 3:00 – 3:55 pm

**PERIOPERATIVE FLUID MANAGEMENT: AQUATIC ASSASSINS?**

**Presenter:** Tong J. (TJ) Gan, MD, FRCA, MHS, Professor of Anesthesiology, Vice Chair for Clinical Research, Duke University Medical Center, Durham, North Carolina

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Explain the physiology of body fluid compartment and the dynamic movement between compartments; (2) Illustrate the different types of fluids, and the impact of IV fluid on postoperative outcome; (3) Discuss the role of goal-directed approaches in perioperative intravenous fluid therapy; and (4) Discuss the evidence regarding “liberal” vs. “restrictive” fluid administration approaches.

RCL-14 • 4:00 – 4:55 pm

**911 IN THE OBSTETRIC SUITE:  
MANAGEMENT STRATEGIES FOR OB EMERGENCIES**

**Presenter:** Cynthia A. Wong, MD, Professor and Vice Chair, Department of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify procedures and system changes for improving outcomes of obstetric hemorrhage; (2) Explain procedures and rationale for intrauterine resuscitation; (3) Identify systems for defining urgency of unscheduled cesarean deliveries (decision to delivery interval); and (4) Explain the rationale for various anesthesia care plans for urgent deliveries.

RCL-15 • 5:00 – 5:55 pm

**LINK BETWEEN ACUTE AND CHRONIC PAIN**

**Presenter:** James P. Rathmell, MD, Chief, Division of Pain Medicine; Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Associate Professor, Harvard Medical School, Boston, Massachusetts

**IARS RESIDENT SYMPOSIUM**

8:00 – 11:30 am

**FOCUS ON: RESIDENT EDUCATION  
AND ADVANCEMENT**

**FEATURING A BEST OF RESIDENT  
ABSTRACT JUDGING SESSION**

**Moderator:** Colleen Koch, MD, MS, MBA, FACC, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Vice Chair Research and Education; Department of Cardiothoracic Anesthesia, Quality and Patient Safety Institute, Cleveland Clinic, Cleveland, Ohio

**PRESENTERS**

**Steven L. Shafer, MD,** Professor of Anesthesiology, Columbia University, New York, New York, Editor-In-Chief, Anesthesia & Analgesia

**Edward C. Nemergut, MD,** Associate Professor of Anesthesiology and Neurological Surgery University of Virginia Department of Anesthesiology Charlottesville, Virginia

**Christine S. Park, MD,** Assistant Professor, Department of Anesthesiology, Medical Director, Patient Safety Simulation Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

**Lawrence Chu, MD, MS,** Associate Professor, Department of Anesthesia, Director, Stanford Anesthesia Informatics and Media Lab, Stanford Hospital and Clinics, Lucile Packard Children’s Hospital, Stanford, California

**Ruben J. Azocar, MD,** Vice Chair for Education and Simulation Residency Program Director, Department of Anesthesiology, Boston Medical Center, Associate Professor, Boston University School of Medicine, President, Massachusetts Society of Anesthesiologists

**John F. Butterworth, IV, MD,** Professor and Chair, Department of Anesthesiology, VCU School of Medicine, Richmond, Virginia

**JUDGES**

**Colleen Koch, MD, MS, MBA, FACC,** Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland Clinic, Cleveland, Ohio

**James G. Ramsay, MD,** Emory University, Atlanta, Georgia

**Debra A. Schwinn, MD,** University of Washington, Seattle, Washington

**Santhanam Suresh, MD, FAAP,** Northwestern University, Chicago, Illinois

**Denise J. Wedel, MD,** Mayo Clinic, Rochester, Minnesota

## ● Panels

P-05 • 8:00 – 9:30 am

### PERIOPERATIVE EVIDENCE-BASED DECISION MAKING AND KNOWLEDGE TRANSLATION – INTERACTIVE PANEL

Co-Moderators:

**Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS**, *Distinguished University Professor Chair/Chief, Department of Anesthesia and Perioperative Medicine, London Health Sciences Centre and St. Joseph Health Care, University of Western Ontario, London, Ontario, Canada*

**Janet Martin, PharmD, MSc(HTA&M)**, *Director, High Impact Technology Evaluation Centre Co-Director, Evidence-Based Perioperative Clinical Outcomes Research Unit, Assistant Professor, Departments of Medicine, Anesthesia and Perioperative Medicine, London Health Sciences Centre, University of Western Ontario, London, Ontario, Canada*

Interactive Panel:

• **How to Find, Interpret and Apply the Evidence: Statistics - What to Acknowledge and What to Ignore.**

– Dr. Janet Martin

• **EBM, EBDM, CER and HTA - From Evidence to Guideline Development and Knowledge Translation - Examples from Blood Management.**

– Dr. Davy Cheng

• **Putting it into Action: Case Studies Involving Recent Evidence Regarding Inhaled Nitric Oxide, Acute Normovolemic Hemodilution, Erythropoietin and Iron.**

– Drs. Martin and Cheng

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the steps of progression from beginner levels of how to achieve EBM (5 steps from identifying the question through identifying and applying the evidence), to advanced applications of EBM (how to find and filter copious evidence, how to evaluate study quality, how to extract important numbers to indicate magnitude and precision of effect, how to manage conflicting evidence, which statistical terms to trust, and how to contextualize the findings); (2) Compare and contrast EBM with health technology assessment (HTA), comparative effectiveness review (CER), clinical practice guidelines (CPG), and knowledge translation (KT); and (3) Demonstrate the above concepts in action by applying the concepts to case studies from the real world setting.



P-06 • 10:00 – 11:30 am

### APSF SAFETY PANEL

### OR MEDICATION SAFETY: MISHAPS, MISSTEPS, AND (MIS) MANAGEMENT

**Moderator: Richard C. Prielipp, MD, MBA, FCCM, J.J. Buckley** *Professor and Chair, APSF Executive Committee and Chairman Committee on Education and Training, Department of Anesthesiology, University of Minnesota, Minneapolis, Minnesota*

Panelists:

**Sorin J. Brull, MD, FCARCSI (Hon)**, *Professor of Anesthesiology, Mayo Clinic College of Medicine, Jacksonville, Florida*

- Is residual NMB weakness a real problem in PACU?
- Do patients suffer complications as a result of residual weakness?
- Why won't anesthesiologists use twitch monitoring?
- How can we improve our practice with NMB drugs?

**Luke S. Theilken, MD**, *Instructor in Anesthesiology, Department of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois*

- How do we define a drug shortage and how does this occur?
- Drug Shortages in the OR – What's happening now and what's next?
- Are patients put at risk when key drugs are 'on back order'?
- Can counterfeit drugs make their way into your OR?
- What is the government's policy to handle drug shortages?

**Steven L. Shafer, MD, Professor of Anesthesiology, Columbia University, New York, New York, Editor-In-Chief, Anesthesia and Analgesia**

- Use and abuse of propofol and other major Rx used every day in the OR
- Is propofol virtually "foolproof"?
- How safe is this drug? How do providers misuse it?

**LEARNER OBJECTIVES:** After participating in this activity, the learner will: (1) Be aware of the incidence and examples of medication mishaps in the OR; (2) Review the limitations of current monitoring techniques; (3) Describe the contribution of education failure to propagation of assessment myths; (4) Recognize contributors to medication errors such as drug shortages and pharmacy substitution(s); (5) Identify how 'production pressure' contributes to medication errors; (6) Investigate if propofol is virtually "foolproof"; and (7) Identify things you don't know about propofol – but should!

● Panels — continued



P-07 • 1:00 – 2:30 pm

**TRAUMATIC BRAIN INJURY – FROM IMPACT TO THE ICU**

**Moderator:** Jeffrey J. Pasternak, MD, *Assistant Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

**Panelists:**

• **Critical Factors in Early TBI Management: Pre-hospital and Emergency Department Care**

David W. Wright, MD, *Associate Professor of Emergency Medicine, Emory University School of Medicine, Atlanta, Georgia*

• **Traumatic Brain Injury: Intraoperative and Anesthetic Considerations**

Deepak Sharma, MBBS, MD, *Assistant Professor of Anesthesiology, University of Washington, Seattle, Washington*

• **Beyond the Bolt – The Role of Multimodal Monitoring in Traumatic Brain Injury**

Martin Smith, MBBS, *Professor of Anesthesiology, University College London Hospitals, London, England*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Appreciate the strategies utilized for pre-hospital care of the acute brain injured patient; (2) Compare and contrast issues specific to the peri-operative care of both the adult and pediatric brain injury patient; (3) Review the role of critical care management in the outcome following brain injury; and (4) Recognize the utility of invasive monitoring in the brain injured patient.



P-08 • 3:00 – 4:30 pm

**MONITORING DURING CARDIAC SURGERY: WHAT IS “STATE-OF-THE-ART”?**

**Moderator:** Charles W. Hogue, MD

**Panelists:**

• **Cardiac Monitoring for Cardiac Surgery in the Era of Health Reform: The Good, the Bad, the Expensive**

Martin J. London, MD, *Professor of Clinical Anesthesia, University of California, San Francisco, California*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Appreciate current evidence based recommendations for cardiac monitoring (ECG, PAC, TEE) in the 2011 ACCF/AHA CABG Guidelines; (2) Evaluate more recent data not included in the Guidelines; (3) Develop a strategy for cost-effective monitoring in their practice environment.

• **NIRS Monitoring During Cardiac Surgery: Present and Future**

Charles W. Hogue, MD, *Professor, Anesthesiology and Critical Care Medicine, Chief, Division of Adult Anesthesia, The Johns Hopkins University School of Medicine, The Johns Hopkins Hospital, Baltimore, Maryland*

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P-08 – CONTINUED

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the basic concepts of near infrared spectroscopy monitoring and how to manage patients when the cerebral saturation declines; (2) Appreciate the current level of evidence supporting the use of near infrared spectroscopy; and (3) Be familiar with new advances in patient monitoring based on near infrared spectroscopy.

Jerrold H. Levy, MD, FAHA, *Professor and Deputy Chair for Research, Emory University School of Medicine, Cardiothoracic Anesthesiology and Critical Care Emory Healthcare, Atlanta, Georgia*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the different methods to monitor hemostasis and coagulation perioperatively in cardiac surgery; (2) Understand the different coagulation tests and their clinical implications; and (3) Evaluate the role of algorithms in perioperative hemostatic management.



P-09 • 4:30 – 6:00 pm

**DILEMMAS IN PERIOPERATIVE CRITICAL CARE ANESTHESIOLOGY: AN INTERACTIVE PANEL DISCUSSION WITH AUDIENCE RESPONSE**

**Panelists:**

Avery Tung, MD, Professor, *Quality Chief for Anesthesia, Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois*

Stephen D. Surgenor, MD, Professor, *Departments of Anesthesiology and Health Policy, Dartmouth School of Medicine, Chief, Critical Care Medicine, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire*

Aryeh Shander, MD, FCCM, FCCP, *Chief Department of Anesthesiology Critical Care Medicine, Pain Management and Hyperbaric Medicine, Englewood Hospital and Medical Center, Englewood, New Jersey*

Daniel R. Brown, MD, PhD, FCCM, *Associate Professor of Anesthesiology, Chair, Division of Critical Care Medicine, Department of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

**LEARNER OBJECTIVES:** After participating in this activity, which will be using audience response, literature review, and expert panel discussion, learners attending this session will review existing literature, and current clinical practice, on the following challenges in critical care anesthesiology: (1) Perioperative management of aspiration; (2) Perioperative of intraoperative Atrial fibrillation; (3) Perioperative management of bare metal stent, and of MI; (4) Periop management of fluids for high risk surgery; and (5) Perioperative management of patients without a cuff leak.

\*Note: attendees will be provided with audience feedback units and will be encouraged to participate in a real-time audience Q&A.

## ● Workshops

**W-01 • 8:00 am – 12:00 pm**

### **ADVANCED ULTRASOUND GUIDED NERVE BLOCK\***

**Workshop Leader:** Vincent W.S. Chan, MD, FRCPC, Professor, Department of Anesthesiology, University of Toronto, Toronto Western Hospital, Toronto, Ontario, Canada

#### **Workshop presenters to be announced:**

Attendees at this workshop will receive hands-on experience in scanning:

- Neuraxial space
- Thoracic and lumbar paravertebral spaces
- Sciatic Nerve (Transgluteal, Subgluteal, Anterior Approaches)
- Abdominal Wall and Trunk (Ilioinguinal, Iliohypogastric, Transversus Abdominis Plane, Rectus Sheath)

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Perform ultrasound imaging of small peripheral nerves, sciatic nerve, paravertebral space and neuraxial space; (2) Recognize appropriate clinical indications and alternatives for ultrasound guided blocks in the described regions; (3) Apply appropriate block approaches in the described regions; (4) Explain how ultrasound techniques differ from conventional approaches; and (5) Select appropriate equipment and medication choices and doses.

\* *This is an advanced course in ultrasound. Basic topics such as machine operation, blockade of the brachial plexus, femoral nerve, popliteal sciatic nerve and ankle will not be covered.*

*Note: Pre-Registration is suggested as this Workshop has limited seating available.*

**W-02 • 2:00 – 5:00 pm**

### **TEE WORKSHOP – BASICS AND BEYOND!**

**Moderator:** Roman M. Sniecinski, MD, FASE, Assistant Professor of Anesthesiology, Department of Anesthesiology, Division of Cardiothoracic Anesthesia, Emory University School of Medicine, Atlanta, Georgia

#### **Workshop presenters:**

**Nikolaos Skubas, MD,** Associate Professor of Anesthesiology, Weill Cornell Medical College - NewYork-Presbyterian Hospital, New York, New York

**Douglas C. Shook, MD,** Department of Anesthesiology, Perioperative and Pain Medicine, Program Director, Cardiothoracic Anesthesia Fellowship, Brigham and Women's Hospital, Boston, Massachusetts

**Charles B. Nyman, MBBCh,** Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

**TEE Workshop Overview** – This three hour workshop will provide both lecture portions and hands-on instruction in a two part presentation for both novices and intermediate level learners in echocardiography. The goal will be to highlight how basic skills in ultrasound can improve patient care in non-cardiac surgery.

- **Part-1: Basic TEE** – The first part of the workshop will be framed for the general anesthesiologist in search of a basic understanding of echocardiography with particular attention to TEE. Basic imaging concepts, anatomy, and patient safety will be presented.
- **Part-2: Beyond the Basics** – After establishing some basic principles in Part 1, the participant will move on toward applying these concepts to patient care. The second part of the workshop will include some hands-on participation and discussion of multiple case-based scenarios.

## **Moderated Poster Discussion Rounds**

**Friday, May 18 - Sunday, May 20**

Moderators and abstract authors will conduct poster discussion rounds at designated session times, meeting one-one with attendees to review and discuss abstracts and to answer any attendee questions.

The schedule for the Poster Rounds will be available in the Final Program (online after May 4).

Abstracts will be available online for preview in March, 2012.

## DAILY SCHEDULE AT-A-GLANCE

6:30 am – 5:30 pm	Registration	9:00 am – 12:00 pm	Clinical Research Symposium
7:00 am – 8:00 am	Problem-Based Learning Discussions	1:30 pm – 2:30 pm	Best of Meeting Abstract Awards
8:00 am – 5:00 pm	Concurrent Education Sessions <ul style="list-style-type: none"> <li>• Review Course Lectures</li> <li>• Panels</li> <li>• Workshops</li> <li>• Moderated Poster Discussion Rounds</li> </ul>	2:30 pm – 4:00 pm	Kosaka Abstract Awards

7:00 am - 1:00 pm Tabletop Exhibits

### ● Problem-Based Learning Discussions

*The Problem-Based Learning Discussions (PBLDs) will be conducted as case-based, problem-oriented, learner-centered discussions.*

*PBLD seating is limited and pre-registration is required. Turn to the registration form on page 23 for details.*



**PBLD-01 • 7:00 – 8:00 am**

**“8 Y/O” DIABETIC ON AN INSULIN PUMP FOR TONSIL SURGERY**

**Moderator: Steven Butz, MD, Associate Professor of Anesthesiology, Medical College of Wisconsin, Medical Director, Surgicenter of Greater Milwaukee, Milwaukee, Wisconsin**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify how to approach a patient on an insulin pump; (2) Formulate options for the care of a patient with an insulin pump when unable to use the pump; and (3) Numerate specific concerns for a patient with diabetes having ambulatory surgery and solutions to them.



**PBLD-02 • 7:00 – 8:00 am**

**HOW MUCH LIVER IS ENOUGH?**

**Moderator: Gebhard Wagener, MD, Associate Professor of Clinical Anesthesiology, Chief, Division of Vascular Anesthesia, Member, Divisions of Critical Care Medicine and Liver Transplant Anesthesia, College of Physicians and Surgeons of Columbia University, New York, New York**



**PBLD-03 • 7:00 – 8:00 am**

**VIDEO TECHNOLOGY IN LARYNGOSCOPY AND INTUBATION: WHAT, WHERE, WHEN AND WHY**

**Moderator: D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic Foundation, Cleveland, Ohio**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the role of video laryngoscopy in routine anesthesia cases; (2) Discuss the role of video laryngoscopy in potential difficult airway cases; and (3) Identify the changes to the ASA difficult airway algorithm (last published in 2003) that should be made in the next edition to reflect the changes introduced by video laryngoscopy.

**PBLD-04 • 7:00 – 8:00 am**

**HEMODYNAMIC MONITORING IN 2012**

**Ruben J. Azocar, MD, Vice Chair for Education and Simulation Residency Program Director, Department of Anesthesiology, Boston Medical Center, Associate Professor, Boston University School of Medicine, President, Massachusetts Society of Anesthesiologists**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the importance of hemodynamic monitoring in high-risk patients; (2) Describe the physiological principles behind newer hemodynamic monitors; and (3) Summarize the data supporting the use of newer hemodynamic monitors.

● **Review Course Lectures**

**RCL-16 • 8:00 – 8:55 am**

**PEDIATRIC ANESTHESIA:  
LITTLE PEOPLE WITH LOTS OF PROBLEMS!**

**Presenter:** Peter J. Davis, MD, *Anesthesiologist-in-Chief, Children's Hospital of Pittsburgh, Professor of Anesthesiology and Pediatrics, University of Pittsburgh School of Medicine, Children's Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Assess the issues of anesthesia related neurotoxicity in children; (2) Review the pathophysiology of sleep apnea in children; and (3) Review the anesthetic management of children with sleep apnea.

**RCL-17 • 9:00 – 9:55 am**

**PERIOPERATIVE LUNG PROTECTIVE STRATEGIES:  
ARE THEY WORTH THE TROUBLE?**

**Presenter:** Peter Douglas Slinger, MD, *Professor of Anesthesia, University of Toronto, Toronto, Ontario, Canada*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the patients at risk for perioperative lung injury; (2) Review the principles of protective ventilation; (3) Identify the anesthetic factors in the perioperative period that contribute to lung injury; and (4) Appreciate new advances in therapy for perioperative lung injury.

**RCL-18 • 10:00 – 10:55 am**

**SIZE MATTERS: PERIOPERATIVE MANAGEMENT OF THE  
MORBIDLY OBESE**

**Presenter:** Frances Chung FRCPC, *Professor, Department of Anesthesiology and Pain Medicine, University of Toronto, Medical Director, Ambulatory Surgical Unit, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the different aspects of anesthetic challenges in anesthesia care to the morbidly obese patients especially the airway, and pharmacology; and (2) Optimize the perioperative ventilation strategy and postoperative care.

**RCL-19 • 11:00 – 11:55 am**

**READING YOUR MIND:  
MONITORING THE BRAIN UNDER ANESTHESIA**

**Presenter:** Michael S. Avidan, MBBCh, FCASA, *Professor of Anesthesiology and Cardiothoracic Surgery; Division Chief, CT Anesthesiology and CT Intensive Care; Director, Institute of Quality Improvement, Research and Informatics, Washington University School of Medicine, St. Louis, Missouri*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will have reviewed and discussed: (1) Why monitor the brain; (2) Introduction to the EEG; (3) Features of an "ideal" depth of anesthesia (DOA) monitor; (4) Why current processed EEG monitors (pEEGs) are limited as candidate DOA monitors; (5) Meaningful information from the raw EEG; (6) EEG features and prognosis; (7) Better candidate pEEG approaches; and (8) Going forward with EEG monitoring.

**RCL-20 • 1:00 – 1:55 pm**

**ANESTHESIA AND THE COMPLEX EP PATIENT:  
DO ANESTHETIC TECHNIQUES MATTER?**

**Presenter:** Aman Mahajan, MD, PhD, FAHA, *Professor and Vice-Chair, Acute Care Medicine Chief, Cardiothoracic Anesthesiology Director, UCLA Interventional Cardiovascular Operations Co-Director, UCLA Cardiac Arrhythmia Center David Geffen School of Medicine at UCLA, Los Angeles, California*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the effects of anesthetics on cardiac electrophysiology; (2) Review the role of general anesthesia and MAC in management of clinical EP procedures – AF/VT ablations; and (3) Review the use of central and peripheral autonomic blockade in managing VT.

**RCL-21 • 2:00 – 2:55 pm**

**HERBAL MEDICINES IN ANESTHETIC PRACTICE**

**Presenter:** Tony Gin, FANZCA, FRCA, MD, *Professor and Chairman, Department of Anaesthesia and Intensive Care, Chinese University of Hong Kong, Prince of Wales Hospital, Shatin, Hong Kong, China*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Appreciate historical aspects of herbal medicines as adjuvants to anesthesia; (2) Identify potential interactions between common herbal medicines and anesthesia; and (3) Review recommendations for stopping (or continuing) herbal medicines.

● Review Course Lectures — continued

RCL-22 • 3:00 – 3:55 pm

**THE POOR MAN'S EPIDURAL: SYSTEMIC LOCAL ANESTHETICS AND SURGICAL OUTCOMES**

**Presenter:** Marcel E. Durieux, MD, PhD, *Professor, Departments of Anesthesiology and Neurological Surgery, University of Virginia, Charlottesville, Virginia*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the effects of systemic local anesthetics on inflammatory signaling; (2) Describe the effects of systemic local anesthetics on experimental and postoperative pain; and (3) Discuss the beneficial actions of systemic local anesthetics on postoperative recovery.

RCL-23 • 4:00 – 4:55 pm

**WHAT TO DO: CONTROVERSIAL CASE STUDIES IN REGIONAL ANESTHESIA**

**Presenters:**

**John F. Butterworth, IV, MD,** *Professor and Chair, Department of Anesthesiology, VCU School of Medicine, Richmond, Virginia*

**James R. Hebl, MD,** *Associate Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

**Denise J. Wedel, MD,** *Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify controversial practice areas in regional anesthesia and determine how to proceed based on current data; (2) Diagnose and manage complications related to higher risk procedures in regional anesthesia; and (3) Avoid complications when possible by weighing risk/benefit in controversial procedures.

**Join the IARS and save on your registration!**

IARS Members receive discounted registration fees at the Annual Meeting. Not a Member? Join today! Visit [www.iars.org/membersinfo](http://www.iars.org/membersinfo)

● Panels



P-10 • 8:00 – 9:30 am

**OSA PATIENT AND ANESTHESIA – A CLINICAL CHALLENGE**

**Moderator:** Frances Chung, FRCPC

**Panelists:**

• **Neurobiology of Sleep and Anesthesia**

**Ralph Lydic, PhD,** *Bert La Du Professor of Anesthesiology and Professor of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, Michigan*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Recognize the brain mechanisms underlying increased risk of respiratory problems; and (2) Evaluate effects of drugs on breathing, sleep, and brain levels of acetylcholine in obese/metabolic syndrome rats.

• **Upper Airway, OSA and Anesthesia**

**David Hillman, MBBS, FANZCA, FRCP (Edin), FRACP (Hon),** *Head, Department of Pulmonary Physiology and Sleep Medicine, Director, West Australian Sleep Disorders Research Institute, Sir Charles Gairdner Hospital, Perth, Australia*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the influences of sleep and anesthesia on upper airway patency; and (2) Examine the common factors predisposing to upper airway obstruction during sleep and to difficulties with perioperative airway management.

• **OSA and Perioperative Complications: What Do We Need to Know So Far?**

**Roop Kaw, MD,** *Associate Professor of Medicine, Department of Hospital Medicine and Outcomes Research, Anesthesiology, Cleveland Clinic, Cleveland, Ohio*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Examine the strengths and weaknesses of evidence for perioperative risk from OSA from the available literature; and (2) Identify the reasons and a strategy for a novel risk stratification approach.

• **The Approach to STOP-Bang Questionnaire - What and How?**

**Frances Chung FRCPC,** *Professor, Department of Anesthesiology and Pain Medicine, University of Toronto, Medical Director, Ambulatory Surgical Unit, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Appraise STOP-Bang questionnaire and how to use it properly for screening; and (2) Formulate algorithms for the perioperative management of OSA patients.



9:00 am - 12:00 pm

## CLINICAL RESEARCH SYMPOSIUM

### THE ROLE OF SPECIALIST SOCIETIES IN CLINICAL OUTCOMES RESEARCH: HOW CAN THEY TAKE A LEAD?

#### Introduction: Why Clinical Outcomes Research?

**Keith A. (Tony) Jones, MD**, Alfred Habeeb Professor and Chair, Department of Anesthesiology, University of Alabama, Birmingham, Alabama

#### Cost Efficiency of Knowledge Generation: Observational vs. Interventional Trials

**Andreas Hoefft, MD, PhD**, Professor, Department of Anesthesiology and Intensive Care Medicine, University Hospital Bonn, Bonn, Germany

#### Why P Values, C Statistics and AUCs Don't Matter a Hoot in Outcomes Research

**Simon C. Body, MBChB, MPH**, Associate Professor in Anaesthesia, Harvard University, Boston, Massachusetts

#### Variability of Surgical Outcomes in Europe (EUSOS)

**Rupert Pearse, FRCA, MD**, Senior Lecturer and Consultant in Intensive Care Medicine, Centre for Translational Medicine and Therapeutics, William Harvey Research Institute, Barts and the London School of Medicine and Dentistry, Royal London Hospital, Whitechapel, London, United Kingdom

#### Pulmonary Complications in Catalonia and in Europe (PERISCOPE)

**Jaume Canet, MD, PhD**, Chairman of the Department of Anesthesiology and Postoperative Critical Care, Hospital Universitari Germans Trias i Pujol, Badalona, Barcelona, Spain

#### How to Do an Interventional Study with Minimal Money (PROVHILO)

**Marcus J. Schultz, MD, PhD**, Professor and Intensivist, Departments of Intensive Care and Anesthesiology, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands

#### Large Clinical Trials: A Dream or a Nightmare?

**Lars S. Rasmussen, MD, PhD**, Department of Anesthesia, Centre of Orthopaedics, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark

#### Panel Discussion and Question and Answer with Attendees

Simon C. Body, MBChB, MPH, Jaume Canet, MD, PhD, Andreas Hoefft, MD, PhD, Keith A. (Tony) Jones, MD, Andrea M. Kurz, MD, Rupert Pearse, FRCA, MD, Lars S. Rasmussen, MD, PhD, Marcus J. Schultz, MD, PhD

## ● Panels — continued



P-11 • 10:00 – 11:00 am

### ABA PROGRAMS FOR PRIMARY CERTIFICATION AND MAINTENANCE OF CERTIFICATION IN ANESTHESIOLOGY (MOCA®)

#### Panelists:

**Deborah J. Culley, MD**, Assistant Professor, Harvard Medical School, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

**Santhanam Suresh, MD, FAAP**, Vice Chairman and Director of Research and Pain Medicine, Children's Memorial Hospital, Professor of Anesthesiology and Pediatrics, Northwestern University, Chicago, Illinois

#### Primary Certification

- Comparison of the Part 1 and Part 2 Examinations
- Overview of specific areas evaluated in the Part 2 Examination
- Outline of the Part 2 Examination process
- Identification of common problems encountered by candidates
- Discussion of the successful candidate of the Part 2 Examination

#### Maintenance of Certification in Anesthesiology (MOCA®)

- Part 1: Assessments of Professional Standing (Medical Licensure)
- Part 2: Lifelong Learning and Self-Assessment (CME activities)
- Part 3: Cognitive Examination and Prerequisites
- Part 4: Practice Performance Assessment and Improvement
- Diplomates' online portal accounts
- MOCA-SUBS for maintenance of subspecialty



P-12 • 10:00 – 11:30 am

### SAFETY IN AMBULATORY SURGERY

**Moderator: Steven Butz, MD**, Associate Professor of Anesthesiology, Medical College of Wisconsin, Medical Director, Surgicenter of Greater Milwaukee, Milwaukee, Wisconsin

#### Panelists:

##### • Accreditation

**Beverly K. Philip, MD**, Anesthesiologist, Brigham and Women's Hospital, Professor of Anaesthesia, Harvard Medical School, Boston, Massachusetts, Past President of SAMBA

##### • Outcome Registries

**Lucinda L. Everett, MD**, Chief – Pediatric Anesthesia, Massachusetts General Hospital; Associate Professor, Harvard Medical School, Boston, Massachusetts, Past President of SAMBA

##### • Obstructive Sleep Apnea

**Girish P. Joshi, MBBS, MD, FFARCSI**, Professor of Anesthesiology and Pain Management, Director of Perioperative Medicine and Ambulatory Anesthesia, University of Texas Southwestern Medical Center at Dallas, Dallas, Texas, Past President of SAMBA

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Recognize a connection between quality and accreditation, (2) Discuss how outcomes can be improved by database analysis, (3) Assess the risks of sleep apnea in ambulatory surgery, and (4) Identify appropriate selection of patient with OSA for ambulatory surgery.

● Panels — continued

**SmartTots** P-13 • 1:00 – 2:30 pm

**PEDIATRIC ANESTHESIA NEUROTOXICITY PANEL**

**Moderator:** Randall Flick, MD, MPH, *Affiliate Advisory Council Member, SmartTots, Associate Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

**Panelists:**

**Andrew J. Davidson, MBBS, MD, FANZCA,** *Affiliate Advisory Council Member, SmartTots, Department of Anaesthesia and Pain Management, The Royal Children's Hospital Melbourne, Victoria, Australia*

**Vesna Jevtovic-Todorovic, MD, PhD, MBA,** *Scientific Advisory Board Member, SmartTots, Professor of Anesthesiology and Neuroscience, University of Virginia Health System, Charlottesville, Virginia*

**Merle Paule, PhD,** *Scientific Advisory Board Member, SmartTots and Director, Division of Neurotoxicology, National Center for Toxicological Research, US Food and Drug Administration, Jefferson, Arkansas*

**David O. Warner,** *Affiliate Advisory Council Member, SmartTots, Professor of Anesthesiology, Mayo Clinic, Departments of Anesthesiology and Pediatric and Adolescent Medicine, Mayo Clinic, Rochester, Minnesota.*

**About SmartTots:** Recent studies in juvenile animal models show that exposure to some anesthetics and sedatives is associated with memory and learning deficits and other neurodegenerative changes in the central nervous system. SmartTots, a public-private partnership between the International Anesthesia Research Society and U.S. Food and Drug Administration, is designed to address research gaps to support or refute the possibility that similar effects occur in pediatric patients.



Liver Intensive Care  
Group of Europe

P-14 • 3:00 – 4:30 pm

**COAGULOPATHY AND THROMBOSIS:  
THE YIN AND YANG OF LIVER FAILURE**

**Moderator:** Gebhard Wagener, MD

**Panelists:**

- **Coagulation and thrombosis: Why do laboratory results not correlate with reality?**

**Panelist:** Gebhard Wagener, MD, *Associate Professor of Clinical Anesthesiology, Chief, Division of Vascular Anesthesia, Member, Divisions of Critical Care Medicine and Liver Transplant Anesthesia, College of Physicians and Surgeons of Columbia University, New York, New York*

- **What we learned about hypercoagulability from liver failure and transplantation.**

**Robert J. Porte, MD, PhD,** *Professor of Surgery, Hepato-Pancreato-Biliary Surgery and Liver Transplantation, University Medical Center Groningen, Groningen, The Netherlands*

- **When to transfuse what? Correcting coagulopathy without doing harm.**

**Paul Picton MD, MRCP, FRCA,** *Assistant Professor, Director, Transplant Anesthesia, Director, Vascular Anesthesia Medical Center, Ann Arbor, Michigan*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to (1) Identify coagulation and thrombosis; (2) Review what we learned about hypercoagulability from liver failure and transplantation; and (3) Know when to transfuse what – correcting coagulopathy without doing harm.

P-15 • 3:00 – 4:30 pm

**CONTROVERSIES IN CLINICAL AIRWAY MANAGEMENT**

**Moderator:** D. John Doyle, MD, PhD

**Panelists:**

- **Should the “Rapid Sequence Induction” Remain the “Standard of Care” in Full Stomach Patients?**

**D. John Doyle, MD, PhD,** *Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic, Cleveland, Ohio*

- **Comparing the ASA Difficult Airway Algorithm with Other Published Airway Algorithms**

**Ling Qun Hu, MD,** *Assistant Professor of Anesthesiology, Northwestern University, Chicago Illinois, Founder and Chief Executive Director, No Pain Labor N<sup>o</sup> Delivery*

- **Where Does Video Laryngoscopy Fit Into Modern Clinical Airway Management?**

**Michael T. Walsh, MD,** *Assistant Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

● **Workshop**

**W-03 • 8:00 – 11:00 am**

**ULTRASOUND, SIMULATION AND STIMULATION FOR PERIPHERAL NERVE BLOCKS**

**Workshop Leader: Andrew D. Rosenberg, MD, Chief,**  
*Department of Anesthesiology, NYU Hospital for Joint Diseases, Executive Vice Chair, Department of Anesthesiology, NYU School of Medicine, Professor of Anesthesiology and Orthopedic Surgery, New York, New York*

**Workshop presenters to be announced:**

During this Workshop, emphasis will be placed on learning the basic terminology of ultrasound guided regional anesthesia and how to perform blocks utilizing this technique. The participant will have hands-on experience with simulators for upper extremity blocks, femoral nerve blocks, sciatic, popliteal and TAP blocks utilizing ultrasound simulators and as well as live models for demonstration.

**LEARNER OBJECTIVES:** After participating in this activity, the learner will:  
(1) Better recognize how to perform peripheral nerve blocks utilizing ultrasound guided and nerve stimulator techniques; and (2) Better describe how to perform blocks of the upper and lower extremity.



**REGISTER TODAY!**

Join us in Boston and benefit from four days of outstanding education.

Register by February 17 and Save!

**ABSTRACT AWARDS SESSION**

***BEST OF ABSTRACT MEETING AWARDS***

**1:00 – 2:30 pm**

At this Award session, the six highest scoring abstracts, selected from over 500 total submissions representing patient-oriented research and basic science research will be presented to a panel of judges and attendees for review and award.

The abstracts judged the best patient-oriented research and the best basic science research will each receive a \$1,000 award.

***KOSAKA ABSTRACT AWARDS***

**2:30 – 4:00 pm**

Co-sponsored by the IARS and the Japan Society for Clinical Anesthesia (JSCA), the Kosaka Award will be presented to the best patient-oriented research abstract and the best basic science research abstract. An award of \$500 will be presented to both winners.

Three abstracts submitted by Japanese researchers along with three abstracts on matching topics submitted by international colleagues will be selected from over 500 submissions and presented to a panel of judges and attendees for review and award at this session.

*The IARS gratefully acknowledges the support of the Japanese Society for Clinical Anesthesia (JSCA) and their contribution of \$1000 toward the award.*

**JUDGES**

**Keith A. (Tony) Jones, MD,** *University of Alabama, Birmingham, Alabama*

**Colleen Koch, MD, MS, MBA, FACC,** *Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland Clinic, Cleveland, Ohio*

**Makoto Ozaki, MD, PhD,** *Tokyo Women's Medical University, Tokyo, Japan*

**Santhanam Suresh, MD, FAAP,** *Children's Memorial Hospital, and Northwestern University, Chicago, Illinois*

## DAILY SCHEDULE AT-A-GLANCE

6:30 am – 11:30 am Registration

7:00 am – 8:00 am Problem-Based Learning Discussions

8:00 am – 12:00pm Concurrent Education Sessions

- Review Course Lectures
- Panels

### ● Problem-Based Learning Discussions

*The Problem-Based Learning Discussions (PBLDs) will be conducted as case-based, problem-oriented, learner-centered discussions.*

*PBLD seating is limited and pre-registration is required. Turn to the registration form on page 23 for details.*

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#### PBLD-01 • 7:00 – 8:00 am

##### **INFECTIOUS COMPLICATIONS ASSOCIATED WITH REGIONAL ANESTHESIA**

**Moderator: James R. Hebl, MD, Associate Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Recognize the infectious risks of performing regional anesthesia in febrile or infected patients; (2) Identify the importance and implications of aseptic technique during regional anesthesia; (3) Recognize the infectious risks of performing regional anesthesia in immune compromised patients; and (4) Identify the risk factors associated with infectious complications of peripheral nerve catheters.



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#### PBLD-02 • 7:00 – 8:00 am

##### **PATIENT WITH OSA FOR AMBULATORY SURGERY: WHERE DO YOU DRAW THE LINE?**

**Moderator: Girish P. Joshi, MB BS, MD, FFARCSI, Professor of Anesthesiology and Pain Management Director of Perioperative Medicine and Ambulatory Anesthesia University of Texas Southwestern Medical Center, Dallas, Texas**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Investigate the pathophysiology of sleep apnea syndrome in adults; (2) Identify the importance of appropriate selection of sleep apnea patient and procedure scheduled for ambulatory surgery; and (3) Discuss optimal care that minimize perioperative risks in sleep apnea patients.



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#### PBLD-03 • 7:00 – 8:00 am

##### **DEALING WITH COAGULOPATHY AFTER CARDIOPULMONARY BYPASS**

**Moderator: Roman M. Sniecinski, MD, FASE, Assistant Professor of Anesthesiology, Department of Anesthesiology, Division of Cardiothoracic Anesthesia, Emory University School of Medicine, Atlanta, Georgia**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify patients at high risk for post-CPB coagulopathy; (2) Discuss pros and cons of various transfusion approaches to non-surgical bleeding; and (3) Be familiar with pharmacological agents to treat/prevent coagulopathy.

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#### PBLD-04 • 7:00 – 8:00 am

##### **SETTING UP OBSTETRIC SERVICES IN THE THIRD WORLD**

**Moderator: Ling Qun Hu, MD, Assistant Professor of Anesthesiology, Northwestern University, Feinberg School of Medicine, Chicago, Illinois, Founder and Chief Executive Director, No Pain Labor N' Delivery.**

## ● Review Course Lectures

RCL-24 • 8:00 – 8:55 am

### NANOTECHNOLOGY AND THE FUTURE OF ANESTHESIA

**Presenter:** D. John Doyle, MD, PhD, *Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic, Cleveland, Ohio*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the state of the art of molecular pharmacology in broad terms as well as; (2) List the anticipated future benefits and possible drawbacks of medical nanotechnology; and (3) Discuss how nanotechnology might be expected to impact on the delivery of anesthesia and critical care medicine.

RCL-25 • 9:00 – 9:55 am

### QUALITY, PATIENT SAFETY AND YOUR PRACTICE: WHAT'S ON THE HORIZON?

**Presenter:** Richard P. Dutton, MD, MBA, *Executive Director, Anesthesia Quality Institute, Park Ridge, Illinois*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Review the definition of quality in healthcare; (2) Recognize current and future regulatory efforts to improve healthcare quality; and (3) Know the role of the AQI in facilitating anesthesia practice quality improvement.

RCL-26 • 10:00 – 10:55 am

### UPDATE ON THE TREATMENT OF TRAUMATIC BRAIN INJURY

**Presenter:** Christian Werner, MD, *Professor and Chairman, Department of Anesthesiology, University Medical Center, Johannes Gutenberg-Universität, Mainz, Germany*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the pathophysiology of TBI; (2) Treat patients based on a homeostatic approach; (3) Apply an escalating algorithm of treatment modalities; and (4) Distinguish between evidence and expert treatment concepts of TBI.

RCL-27 • 11:00 – 11:55 am

### ANESTHESIA AND ENDOCRINE FUNCTION – PHEOCHROMOCYTOMA AND BEYOND!

**Presenter:** Keith A. (Tony) Jones, MD, *Alfred Habeeb Professor and Chair, Department of Anesthesiology, University of Alabama, Birmingham, Alabama*

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss current concepts and new developments in the perioperative care of patients with pheochromocytoma and other endocrine disorders; (2) Review the diagnostic criteria and natural history of endocrine diseases, as well as their pathophysiology, thereby forming the fundamental basis and rationales for optimal perioperative management; and (3) Review clinical scenarios to illustrate and enhance the knowledge regarding the behavior of catecholamine-secreting tumors and to outline current approaches to comprehensive perioperative management of patients with these tumors.

## ● Panels

P-16 • 8:00 – 9:30 am

### POINT OF CARE (POC) DIAGNOSTICS

**Moderator:** Douglas B. Coursin, MD

**Panelists:**

#### • The Push Toward POC Testing: The Good, Bad, and the Ugly

**Douglas B. Coursin, MD, Professor, Department of Anesthesiology, University of Wisconsin School of Medicine and Public Health, Madison Wisconsin**

#### • POC Meter Technology: Measurement of Glucose, Hematocrit, and Coagulation

**Mark J. Rice, MD, Associate Professor of Anesthesiology, Section Chief, Liver Transplantation and General Surgery Sections, Department of Anesthesiology, University of Florida College of Medicine**

#### • The Use of POC Meters in the Perioperative Environment

**Paul G. Barash, MD, Professor of Anesthesiology, Yale School of Medicine, New Haven, Connecticut**

#### • Evaluation and Purchasing of POC Devices

**Timothy E. Morey, MD, Executive Associate Chairman, Department of Anesthesiology, Associate Chairman for Research, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida**

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Explore the reasons for increased POC testing and why we need to proceed with caution; (2) Discuss accuracy, ease of use, interferences for thromboelastography as well as glucose and hematocrit meters; (3) Describe how to use the POC information correctly; and (4) Explain accuracy metrics (BA plots, bias, Clarke and Hb error grids) and factors in making smart purchasing decisions.

● Panels — continued



P-17 • 10:00 – 11:30 am

**EXPLORING THE FUTURE OF ANESTHESIA TECHNOLOGY**

**Moderator:** D. John Doyle, MD, PhD, *Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic Foundation, Cleveland, Ohio*

**Panelists:**

• **Transforming Bedside Observations into Clinical Monitors: What is the Pathway Forward?**

**Kirk Shelley, MD, PhD,** *Professor, Department of Anesthesiology, Yale School of Medicine, New Haven, Connecticut*

• **The Future of Anesthesia: Will we be replaced by Robots?**

**Thomas M. Hemmerling, MD,** *Associate Professor, Department of Anesthesia, McGill University Health System, Montreal, Quebec, Canada*

• **Human Error in Anesthesiology – Is More Technology the Answer?**

**Brian Rothman, MD,** *Assistant Professor, Division of Multispecialty Adult Anesthesiology, Associate Director of Perioperative Informatics, Vanderbilt University Medical Center, Nashville, Tennessee*

**TABLETOP EXHIBITS**

*CONTINUE YOUR EDUCATION AT THE TABLETOP EXHIBIT DISPLAYS!*

*DISPLAY HOURS*

**Friday, May 18 . . . . . 7:00 am – 1:00 pm**

**Saturday, May 19 . . . . . 7:00 am – 1:00 pm**

**Sunday, May 20 . . . . . 7:00 am – 1:00 pm**

*EXHIBITORS AND SUPPORTERS  
(AS OF PRESS TIME)*

- **Advanced Infusion, Inc.**
- **Anesthesiology News**
- **Cleveland Clinic Abu Dhabi**
- **ConMed**
- **Hospira**
- **Karl Storz Endoscopy**
- **Lippincott Williams &**
- **Wilkins-WKH**
- **LMA North America, Inc.**
- **Masimo**
- **Mercury Medical**
- **Parker Medical**
- **Piramal Critical Care**

Meet with industry representatives to view, test and learn about the latest innovations and products and the cutting edge techniques you need in your research and practice.

*Sessions and presenters listed are as of press time and subject to change. Visit **www.iars.org** for updates to the program.*

# GENERAL INFORMATION

## ANNUAL MEETING HOTEL INFORMATION

### HEADQUARTERS HOTEL

Boston Marriott Copley Place  
110 Huntington Avenue  
Boston, Massachusetts 02116

The Marriott Copley Place is an award-winning hotel located in Boston's historic Back Bay district. Ideally situated for all your adventures – it is only minutes away from the historic Trinity Church and Boston Common, connected to the Copley Place Mall and the Prudential Mall and within walking distance of the many shops on Newbury Street.

All Annual Meeting Education Sessions, Tabletop Exhibits, Scientific Exhibits and IARS Services will be conveniently located under one roof at the Marriott. Take the elevator to the fourth floor, step around the corner and you will be in the heart of the IARS Annual Meeting!

### Hotel Reservations

The IARS has secured a limited block of rooms for our meeting attendees at the Marriott Copley Place at the special rate of \$269 plus tax for single/double occupancy.

Marriott Hotel Reservations will open for the IARS special rate on Wednesday, November 30, 2011.

Use one of the following easy steps to book your room:



Call the Marriott – Passkey Reservation Desk at:  
1-800-266-9432 or  
1-506-474-2009 (International Dialing)

*Note: Be sure to mention the International Anesthesia Research Society (IARS) to receive the special rate of \$269 plus tax.*



Go online to reserve:  
<https://resweb.passkey.com/go/IARS2012>.

Everyone is encouraged to make their reservations early! Since Boston is such a popular city, the hotel is expected to sell out. The reservation deadline for the IARS special room rate is 6:00 pm (Eastern Time) on Thursday, April 19, 2012.

## ATTENDEE REGISTRATION INFORMATION

### ANNUAL MEETING REGISTRATION

Early Bird registration opens Wednesday, November 30, 2011, and ends Friday, February 17, 2012, at 11:59 pm Eastern Time.

General registration opens Saturday, February 18, 2012, and ends Friday, May 4, 2012, at 11:59 pm Eastern Time.

After May 4, 2012 you will need to register for the meeting onsite in Boston.

- To register online, go to [www.iars.org/congress](http://www.iars.org/congress) and follow the links. Online registration must be accompanied by a credit card payment.
- To pay by check, complete the registration form on page 23 and mail per the form instructions.
- To register by phone, call 415-296-6900, Monday – Friday, 8:00 am – 5:00 pm Pacific Time.

### Annual Meeting – Onsite Registration Hours

Thursday, May 17 . . . . . 1:00 pm – 5:00 pm  
Friday, May 18 . . . . . 6:00 am – 5:30 pm  
Saturday, May 19 . . . . . 6:00 am – 5:30 pm  
Sunday, May 20 . . . . . 6:30 am – 5:00 pm  
Monday, May 21 . . . . . 6:30 am – 11:30 am

### Annual Meeting – Registration Cancellation Policy

Registrations cancelled on or before Friday, May 4, will receive a registration refund less a \$50 processing charge. Registration fees will not be refunded if cancelled after Friday, May 4. All Workshop and Problem-Based Learning Discussion (PBLD) registration fees are non-refundable.

## OTHER INFORMATION

### Special Services

If you have a disability and require specific accommodations in order to fully participate in the IARS Annual Meeting, please contact the IARS staff at [info@iars.org](mailto:info@iars.org).

### No Smoking

Smoking is not permitted where any IARS-sponsored activities are scheduled. We respectfully request that you abide by our smoke-free Annual Meeting policy.

### Photography Release

The IARS plans to take photographs at the Annual Meeting and reproduce them in IARS news or promotional materials, whether in print, electronic or other media, including the IARS website. By participating in the IARS 2012 Annual Meeting you grant the IARS the right to use your name, photograph, and biography for such purposes.



NAME \_\_\_\_\_  MD  DO  PhD  CRNA  Other \_\_\_\_\_

PROFESSIONAL TITLE \_\_\_\_\_ INSTITUTION/ORGANIZATION \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  Home  Business

CITY \_\_\_\_\_ STATE/COUNTRY \_\_\_\_\_ POSTAL CODE \_\_\_\_\_

PHONE \_\_\_\_\_  Home  Business  Cell EMAIL \_\_\_\_\_

### Member Registration Fees

	Early Bird	After February 17, 2012	May 18-21
Abstract Presenter .....	<input type="checkbox"/> \$300 .....	<input type="checkbox"/> \$300 .....	<input type="checkbox"/> \$300 .....
Annual Meeting .....	<input type="checkbox"/> \$450 .....	<input type="checkbox"/> \$500 .....	<input type="checkbox"/> \$550 .....
In-Training .....	<input type="checkbox"/> \$75 .....	<input type="checkbox"/> \$75 .....	<input type="checkbox"/> \$75 .....

*Resident/Fellow/Student*

### Non-Member Registration Fees\*

Abstract Presenter .....	<input type="checkbox"/> \$450 .....	<input type="checkbox"/> \$450 .....	<input type="checkbox"/> \$450 .....
Annual Meeting .....	<input type="checkbox"/> \$625 .....	<input type="checkbox"/> \$675 .....	<input type="checkbox"/> \$725 .....
In-Training .....	<input type="checkbox"/> \$115 .....	<input type="checkbox"/> \$115 .....	<input type="checkbox"/> \$115 .....

*Resident/Fellow/Student*

### Guest Attendee Fees

(No CME credits awarded to guest registrants)  \$75 .....

\$100 .....

\$125 .....

\*FREE IARS MEMBERSHIP – for one year! If you are registering at the non-member rate, you are entitled to a one year membership at no additional charge (check to accept).

**Sub Total \$** \_\_\_\_\_

### Workshops: Seating is Limited – Pre-registration and non-refundable payment is required

**W-01:** Advanced Ultrasound Workshop .....

**W-02:** TEE Basics and Beyond Workshop .....

**W-03:** Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks Workshop .....

**Sub Total \$** \_\_\_\_\_

### PBLD'S (Problem-Based Learning Discussions): Online only with Annual Meeting registration

### Special Sessions: Seating is Limited – Please check to receive a ticket to attend

International Science Symposium .....

Resident Symposium .....

**Sub Total \$** \_\_\_\_\_

**TOTAL DUE \$** \_\_\_\_\_

### METHOD OF PAYMENT (US Dollars)

Please charge to:  Visa  MasterCard  AMEX  Discover Account # \_\_\_\_\_

Card Holder Name \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Signature \_\_\_\_\_

Online registration begins November 30, 2011. Visit [www.iars.org](http://www.iars.org).  
Online/Mail registration deadline is May 4, 2012 (payment required).

Questions? Email: [info@iars.org](mailto:info@iars.org) • Phone: 415-296-6900

Check payable to IARS (US funds) enclosed.

Mail to: IARS • P.O. Box 7695 • San Francisco, CA 94120-7695

Please check here if you require special services.

# Join us in Boston, Massachusetts



Often called the 'Cradle of American History' Boston is also the town of complementary contradictions. Skyscrapers surround parks, modern art is housed in historic buildings and one of the busiest international hubs is also the town-next door with true Americana charm.

While in town be sure to visit Beacon Street and the bar where everybody knows your name – 'Cheers!'



Or travel to the middle of the world in the Mapparium – a world-famous, three-story, painted glass globe with a 30-foot glass bridge through the center.

Tour the first college established in North America – Harvard University, founded in 1636.

For the Anesthesiologist, Boston is especially historic – visit the Ether Dome, the site where Dr. William



Thomas Green Morton first publically demonstrated anesthesia.

Step back in time and explore America's past in the daytime and then sample the entertainment and nightlife Boston offers in the evening - there's a little bit of everything in this town!

Whatever your pleasure you're sure to find it in Boston, during the IARS 2012 Annual Meeting!

## Tours & Excursions

The International Anesthesia Research Society is pleased to partner with Super Tours, LLC, a local Boston, Massachusetts company to offer tours at discounted rates to our attendees. Please contact Super Tours directly to make your reservations.



### What a Splashing good time!

Come Tour the streets of Boston with Super Tours, dba Boston Upper Deck Trolley Tours, and Super Duck Tours the newest fully narrated land and sea tour. Explore historic areas of the city such as: the North End, Quincy Market, travel the recently dedicated Rose Fitzgerald Kennedy Greenway, then pass through Beacon Hill, Back Bay, Chinatown, the Financial District, and the Seaport District.

Whether by Land or by Sea a **Fun, Exciting, and Educational** touring experience awaits you. Check out our tours at [www.Bostonsupertours.com](http://www.Bostonsupertours.com).

**To Book:** Please call 1-877-34-DUCKS or 617-742-1440 and mention you are attending the IARS Conference for special pricing.



*Every donation makes a difference*



SmartTots needs your help to assess the impact of anesthetics on the developing brain. Donate today to support the needed research and SmartTots Executive Board Chair Dr. Michael Roizen will add a matching donation. Your support will help ensure the safety of millions of infants and young children who undergo anesthesia and sedation each year.

*100% of your donation will support research!*

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IARS 2012  
**Annual Meeting**  
and International Science Symposium

Friday, May 18 to Monday, May 21  
Marriott Copley Place • Boston, Massachusetts

**T.H. Seldon Memorial Lecture**  
Friday, May 18, 2012 • 8:30 – 9:30 am

*Patient Safety: Anesthesia Can Lead the Way*  
James P. Bagian, MD, PE



### Featured Sessions Include:

- International Science Symposium – Focusing on the **MECHANISMS OF ANESTHESIA**
- NEW!** • The Clinical Research Symposium – Focusing on **INVESTIGATOR INITIATED TRIALS**
- NEW!** • Resident Symposium – A session dedicated to **RESIDENT EDUCATION AND ADVANCEMENT** including a Best of Resident Abstract Presentation



**IARS**

International Anesthesia Research Society

**Register by February 17 and Save!**  
Visit [www.iars.org/congress](http://www.iars.org/congress)  
for program updates.