Who We Are
SmartTots is a collaborative effort of the IARS, the U.S. FDA and many others who are working to make anesthesia safer for infants and children.

What We Do
SmartTots funds research into pediatric anesthesia with the goal of making surgery safer for infants and children.

Why It Matters
Scientific studies in animals show certain common anesthetic and sedation drugs appear to harm the developing brain. SmartTots is working to identify and lessen the risks for children.

SmartTots.org/donate
Welcome to the IARS 2018 Annual Meeting and International Science Symposium in Chicago, Illinois!

Explore the city of Chicago, Illinois, and experience the rich culture and historical attractions. As a leader in the arts, Chicago is widely known for its state-of-the-art museums and thrives on the diversity of its neighborhoods and visitors. Historical sites range from those honoring U.S. veterans, including the National Veterans Art Museum and the John Alexander Logan Monument, to the second largest collection of fine arts at The Art Institute of Chicago. While in the birthplace of the modern skyscraper, come visit the 1,450-foot Sears Tower, completed in 1974, the tallest building in North America and the third tallest in the world. For the more adventurous, stop by Willis Tower for Skydeck Chicago, and view the city at 1,300 feet, suspended from The Ledge, a clear glass box. Spark your curiosity and visit The Field Museum, home of Sue, the largest and most complete T. rex. Indulge in the many museums, comedy shows, and live music Chicago has to offer plus so much more.

Chicago, Illinois, By The Numbers

- **237** square miles of land located at the southwestern tip of Lake Michigan
- As the third-most populous city in the U.S., Chicago has an estimated **2.7** million residents
- **77** community areas containing more than **100** neighborhoods
- Home of the iconic deep-dish pizza, Chicago serves as a gourmet dining epicenter and hosts over **5,195** restaurants
- More than **250** art galleries and **20** neighborhood art centers
- Over **26** miles of lakefront with an **18.5**-mile lakefront path
- **8,100** acres of green space with **580** parks and **26** beaches
- Over **225** miles of bike lanes and more than **13,000** bike racks
- Over **3,000** bikes and **300** stations through the Divvy bike sharing system
- **28** CTA bus routes and **8** train routes serving **146** stations
- **119** hotels with **39,000** hotel rooms in the Central Business District
- **37** moveable bridges – Chicago has more than any city in the world. Most are the design-style called bascule, from the French word for teeter-totter.
Session Highlights of the IARS 2018 Annual Meeting

Collaborate with the World’s Thought Leaders in Anesthesiology to Impact Discovery and Advance Patient Care!

Join us for the must-attend anesthesia meeting, developed by your colleagues and peers, to discuss the top-of-mind anesthesia topics and address your most pressing education and research needs. Join 1,000 of the world’s thought leaders in the field to shape the direction of anesthesiology in an open, collaborative environment. Experience intellectual energy and inspiration with discussions on the latest discoveries and innovations in the field.

Saturday, April 28 • 7:30 am – 9:00 am
with Dr. Jeffrey R. Balser
Dr. Balser oversees Vanderbilt University Medical Center, one of the nation’s largest fully integrated academic health centers. As a national spokesperson on health system governance and finance, Dr. Balser has led efforts to understand and promote the fiscal health and sustainability of research and training in academic medicine. His original National Institutes of Health-(NIH) supported scholarship focused on the functional genomics of cardiac arrhythmias. Over the past two decades, Dr. Balser has guided the expansion of Vanderbilt University’s research programs in personalized medicine, human subjects research, and population health, moving Vanderbilt University School of Medicine’s ranking to eighth in the nation among U.S. medical schools in total grant support provided through the NIH. A world leader in health informatics and genomic medicine, Vanderbilt University is home to the NIH Data and Research Center for the U.S. Precision Medicine Initiative.

Saturday, April 28 • 9:30 am – 12:00 pm
AUA Symposium: Mitochondria and Bioenergetics in Health and Disease: It’s Not Just a Power Failure!
with Drs. Paul S. Brookes, Elizabeth A. Jonas, Y.S. Prakash, Douglas L. Rothman, and Douglas C. Wallace
Mitochondria are well-known as the cell’s powerhouse. They are also the source of reactive oxygen species that influence physiological functions, homeostasis, signal transduction, inflammation, survival, and bioenergetics in the context of disease that, in turn, modulates mitochondrial structure and function. This symposium will investigate the important questions relating to mitochondria and bioenergetics that impact the perioperative environment.

Saturday, April 28 • 3:30 pm – 6:00 pm
SAGA Symposium: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions
with Drs. Faraj W. Abdallah, Manoj M. Lalu, Daniel I. Mclsaac, and Hannah M. Wunsch
Older patients require a unique approach to their perioperative care, are likely to have multimorbidity, often have impaired organ function which impacts pharmacokinetics and pharmacodynamics, and may face significant cognitive, functional and psychosocial impairments. Attend this important session and evaluate the current state of knowledge regarding the epidemiology and clinical impact of our aging population and the presence of perioperative frailty.
Session Highlights of the IARS 2018 Annual Meeting and International Science Symposium

Sunday, April 29 • 9:30 am – 12:00 pm

International Science Symposium:
Designing Drugs: Transforming Anesthesiology Practice
with Drs. Laura M. Bohn, Alex S. Evers, Aashish Manglik, and Eugene R. Viscusi

The concept of specific ligands acting on receptor subtypes (full or partial agonists or antagonists) to modulate a second messenger signaling system is a fundamental principle of traditional pharmacology. It is now known that some ligands can bind to a specific site on a single receptor isoform to activate two different signaling pathways; various ligands for these sites can be biased signaling agents because they activate one signaling pathway in preference to the other. During this symposium, participants will explore this novel but fundamental concept in pharmacology with an emphasis on opioids and implications for the future clinical use of narcotic agents.

Sunday, April 29 • 3:30 pm – 6:00 pm

CAS Symposium: Social Accountability: How Can Anesthesiology Face the Challenge?
with Drs. Arika Lafontaine, Stuart Iglesias, Susan S. O’Leary, Beverley A. Orser, Pavithra Ranganathan, Brian Spain, and Ruth Wilson

The World Health Organization (WHO) defines the social accountability of a medical school as the obligation to direct their education, research and service of activities toward addressing the priority health concerns of the community, region and/or nation that they are mandated to serve. A priority health concern is access to safe and timely anesthesia care; however, even affluent counties such as the United States, Canada and Australia face serious challenges in providing anesthesia care in rural and remote communities. Departments of anesthesia, including those in academic institutions, are major stakeholders in the development of health care policies and the training of physician-led anesthesia care teams to support the surgical and obstetric needs of rural and remote communities. The presenters in this symposium will offer insights from their own experiences and discuss how to better deliver and expand anesthesia services to ensure excellence in clinical care, research and education in remote areas.

Monday, April 30 • 9:30 am – 12:00 pm

with Drs. Azra Bihorac, Eric Hoste, John A. Kellum, and Alexander Zarbock

The incidence of perioperative acute kidney injury (AKI) is more common than previously recognized especially in high-risk patients undergoing higher risk procedures. The growing number of patients who develop perioperative AKI is related, in part, to the aging population and increase in the number of individuals with chronic co-morbidities particularly those with pre-morbid chronic kidney disease. Despite the acceptance of standardization in the definition of AKI, clinicians routinely under-diagnose AKI and fail to appreciate that it is associated with considerable morbidity and mortality. This symposium will cover the role of novel damage biomarkers and new therapy strategies to prevent surgery-associated AKI.

Monday, April 30 • 3:30 pm – 6:00 pm

Symposium: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer’s Disease
with Drs. Michelle L. James, Ines P. Koerner, Vivianne Tawfik, and Niccolo Terrando

Constituting over 70% of cells in the central nervous system (CNS), glial cells in their homeostatic states contribute to synaptic pruning, neurotransmission and immune surveillance. CNS glial cells (including microglia and astrocytes) may become activated in response to injury, resulting in the release of factors that influence synaptic transmission and ultimately alter neuronal circuits. Attend this important symposium and identify the basic mechanisms of CNS diseases that connect many seemingly unrelated conditions and glial modulators of clinical importance.
IARS, AUA & SOCCA Annual Meetings
Together in One Location – Hyatt Regency Chicago!

AUA 2018 Annual Meeting • Thursday, April 26 – Friday, April 27
Engage with the leaders in academic anesthesiology and take away valuable tools designed to enhance your practice at the AUA 2018 Annual Meeting, April 26-27, in Chicago, Illinois, then stay through Saturday, April 28, for the Aligned Meeting Day, available complimentary to AUA registrants. Review the intricacies of Motivation, Metacognition, and Self-Regulation in Education, investigate The Science of Longitudinal Assessment, and discuss the latest in Sepsis Revisited – Important Updates at the President’s Panel. Learn what makes the Host Program Institutions, Northwestern University Feinberg School of Medicine and The University of Chicago Medicine, unique. Plus, discover original research during two days of Scientific Advisory Board (SAB) Oral Sessions and Moderated Poster Discussion Sessions.

SOCCA 2018 Annual Meeting and Critical Care Update • Friday, April 27
Join the leaders in critical care anesthesiology at the SOCCA 2018 Annual Meeting and Critical Care Update, Friday, April 27, in Chicago, Illinois, to explore current practices in critical care anesthesia and focus on new discoveries in critical care research and education. Program topics include Metabolic Support for the Postoperative Patient in the ICU, Enhancing Recovery from Critical Illness and Life Thereafter, Wellness for the Anesthesiologist-Intensivist, and Innovative Uses of Ultrasound in the ICU. Plus, stay an extra day for the IARS Aligned Meeting Day and SOCCA Focus on Critical Care Day on Saturday, April 28, available complimentary to SOCCA registrants.

IARS Aligned Meeting Day and SOCCA Focus on Critical Care Day • Saturday, April 28
The attendees of the IARS, AUA and SOCCA Annual Meetings will have the opportunity to take advantage of a special Aligned Meeting and SOCCA Focus on Critical Care Day on Saturday, April 28. The thought leaders in academic anesthesiology will present a wide selection of robust education sessions highlighting pioneering topics in anesthesia and celebrating advances in education, science, research and the art of anesthesiology.

IARS Aligned Meeting Day Sessions
7:30 am – 9:00 am: Opening General Session and T.H. Seldon Memorial Lecture: Personalizing Health Care in the Era of Big Data with Dr. Jeffrey R. Balser
Over the past two decades, Dr. Balser has guided expansion of Vanderbilt University School of Medicine research programs in personalized medicine, human subjects research, and population health, moving Vanderbilt University School of Medicine’s ranking to eighth in the nation among U.S. medical schools in total grant support provided through the National Institutes of Health (NIH).

9:30 am – 12:00 pm: Symposium: AUA: Mitochondria and Bioenergetics in Health and Disease: It’s Not Just a Power Failure! with Drs. Paul S. Brookes, Elizabeth A. Jonas, Y.S. Prakash, Douglas L. Rothman, and Douglas C. Wallace
This invigorating symposium will highlight important questions relating to mitochondria and bioenergetics that impact the perioperative environment. Examine the roles of altered mitochondrial structure and function as well as bioenergetics and unintended consequences of drugs or other interventions on mitochondria and bioenergetics and how this may help improve and individualize patient care.

12:00 pm – 1:00 pm: Problem-Based Learning Discussion: AUA: Why Study Time Doesn’t Always Lead to Learning: How Do We Help the Struggling Trainee? with Drs. Ersne Eromo and Daniel Saddawi-Konefka
This hands-on session will provide various self-study methods available to trainees, including relative effectiveness of each technique, offering an approach to unpack a trainee’s study habits and to prepare a study plan for a hypothetical trainee that combines effective learning modalities.
4:00 pm – 5:00 pm: Problem-Based Learning Discussion: AUA: Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and The Hemodynamically Unstable Patient
   with Drs. Alexander S. Kuo and Abraham Sonny
   Evaluate the role of anesthesiologist-performed focused cardiac and pulmonary ultrasound in the perioperative period and the role of focused ultrasound in hemodynamic assessment for guiding diagnosis and management of undifferentiated shock.

SOCCA Focus on Critical Care Day Sessions

9:30 am – 10:30 am: Problem-Based Learning Discussion: SOCCA: To Intubate or Not: Management of Post-Operative Acute Respiratory Failure
   with Dr. Kunal Karamchandani
   Management of postoperative acute respiratory failure can be challenging. Early recognition and prompt treatment is critical to prevent significant morbidity and mortality. In this case-based session, discuss the principles and utility of non-invasive ventilation (NIV) and high flow nasal cannula (HFNC) in the management of acute hypoxic respiratory failure.

11:15 am – 12:00 pm: Review Course Lecture: SOCCA: The Tele-Vision: Taking Care to the Patient and Expanding the Scope of the Intensivist
   with Dr. Liza M. Weavind
   The reality of virtual care is upon us, and it is our responsibility as intensivists to maximize the potential of telemedicine to leverage ourselves and provide care to an ever widening circle of patients, not limited to the critically ill in our ICUs. Our patients may be acutely deteriorating on a non-monitored floor or being evaluated in an ED. Our input as intensivists, in real time, in remote geographic locations, within or outside of the hospital may be lifesaving. Utilizing telemedicine to take critical care to the patient, rather than bringing the patient to the ICU, should be our goal.

2:00 pm – 3:00 pm: Problem-Based Learning Discussion: SOCCA: The Sweet Escape: A Complicated Case of DKA
   with Dr. George W. Williams, II
   Join this exciting discussion and examine an intriguing case of diabetic ketoacidosis (DKA). Evaluate a case of a middle-aged man who presents with a preliminarily negative cardiac workup and yet has chest pain. Endocrine, renal and infectious diseases come into play in this real case.

4:00 pm – 5:00 pm: Problem-Based Learning Discussion: SOCCA: Perioperative Renal Replacement Therapy for the Anesthesiologist: Does It Make A Difference?
   with Dr. Dragos Galusca
   Anesthetic management of high-risk patients undergoing major hepatic surgery can involve the use of perioperative renal replacement therapy (RRT). Examine the risk factors and etiology of renal injury for patients undergoing major (hepatic) surgery during this discussion session.

5:00 pm – 5:45 pm: Review Course Lecture: SOCCA: Heart Failure with Preserved Ejection Fracture (HFpEF) as a Perioperative Risk
   with Dr. Aalok Kacha
   Heart failure with preserved ejection fraction (HFpEF) accounts for approximately 50% of cases of heart failure. HFpEF confers an increased risk of perioperative morbidity and mortality. Assess how the phenotypes, evaluation, and management of HFpEF is important for the perioperative physician given the increasing prevalence of ICUs.

Plus, A Bonus Focus on Critical Care Session on Sunday, April 29, Complimentary for SOCCA Attendees:

4:00 pm – 5:30 pm: Panel: SOCCA: 50 Years of ARDS: An Update
   with Drs. Kunal Karamchandani, Brian Kavanagh, Daniel S. Talmor, Avery Tung, and Michael H. Wall
   Despite heightened awareness and extensive research related to ARDS over the last 50 years, ARDS represents an important public health problem globally and is associated with a mortality rate of approximately 40%. ARDS continues to be under-recognized and under-treated in terms of the use of optimal, proven, or recommended approaches to mechanical ventilation. Attend this panel and discover strategies to prevent and treat ARDS.
Scholars’ Program • Friday, April 27 – Saturday, April 28

The Scholars’ Program requires a separate $50 non-refundable fee and pre-registration. This fee includes education sessions, reception, breakfast and lunch. Seating is limited.

The Scholars’ Program will have a broad appeal, particularly to early-stage scholars in anesthesiology who are looking for best practices in adapting to the rapidly changing world of academic anesthesia and medicine. Through innovative teaching approaches, scholars will receive the much-needed skills they desire while interacting with peers and mentors.

Friday, April 27 • 6:00 pm – 7:00 pm
IARS, AUA, SOCCA & eSAS Scholars’ Program Mentor-Trainee Reception
Based on rigorous evaluation of both mentors’ expertise and trainees’ needs, goal-focused interactions will be catalyzed. Trainees will be matched with a mentor and have an opportunity to interact during this reception.

Saturday, April 28 • 6:15 am – 7:15 am
Breakfast with IARS, AUA & SOCCA Presidents
Share the most important meal of the day and network with the IARS, AUA & SOCCA Presidents.

Saturday, April 28 • 9:30 am – 9:40 am
Introduction to the Scholars’ Program and eSAS with Drs. Vivianne Tawfik and Elizabeth L. Whitlock
The Scholars’ Program is an amazing opportunity for early-stage faculty, fellows, residents and other trainees to gain exposure to exciting advances in the field, learn more about career development in academic anesthesiology and meet other early-stage scholars.

Saturday, April 28 • 9:40 am – 10:30 am
Moving from Insight to Scientific Premise to Research Program and What This is All About with Drs. Max B. Kelz and Katie J. Schenning
Delve deeply into scientific premises and gain insight into the most thought-provoking research programs in anesthesiology.

Saturday, April 28 • 10:45 am – 12:15 pm
Shine Like a Rockstar: Different Paths to Success with Drs. Boris D. Heifets, Laureen Hill, Manoj M. Lalu, Peter Nagele, and Paloma Toledo
Learn how to succeed on the clinician-investigator track and observe highlighted pathways, illustrating lessons learned towards success in academic anesthesiology.

Saturday, April 28 • 12:30 pm – 2:00 pm
Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond with Drs. Julie K. Freed, Ken Solt, and Elizabeth L. Whitlock
As young physician scientists continue to face unique challenges, it is important to address the transition from trainee to early-stage faculty including all the pitfalls along the way. Hear about the paths taken by two early-stage scholars during this session.

Saturday, April 28 • 2:15 pm – 3:45 pm
Moving Fluidly Across the Translational Spectrum: Current Opioid Crisis with Drs. Catherine Chen, Afton Hassett, Michael R. Mathis, Giancarlo Vanini, and Jennifer F. Waljee
Explore the promising avenue of innovative and scalable self-management strategies and discuss how effectively empowering patients with anxiety and pain-coping skills would hopefully decrease the use of analgesics and increase patient satisfaction.

Saturday, April 28 • 4:00 pm – 5:00 pm
Priorities for Developing Researchers: Perspectives from the NIH and IARS with Drs. Emery N. Brown, Alison Cole, and Julie K. Freed
Discover and evaluate the most important priorities for developing researchers from several perspectives including the NIH and IARS.

Saturday, April 28 • 5:10 pm – 6:10 pm
From the Editor’s Desk: A No-Nonsense Guide to Successful Publication with Drs. Hilary P. Grocott, Kate Leslie, and Jamie R. Privratsky
Great research deserves wide dissemination; therefore, providing early-career researchers a no-nonsense and hassle-free approach to designing, implementing, reporting and submitting studies is necessary to maximize impact.
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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 purpose of the International Anesthesia Research Society (IARS) 2018 Annual Meeting and International Science Symposium is to provide an evidence-based and clinically oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience
The IARS 2018 Annual Meeting and International Science Symposium is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, anesthesia investigators, 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 participating in this live CME activity, learners will be able to:

- Describe the latest developments in critical care, perioperative medicine, pain management, and other anesthesiology subspecialty areas.
- Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.
- Develop and apply strategies for integrating new knowledge and behaviors into their professional practice.

Accreditation Statement
The IARS is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CME Credit
The IARS designates this live activity for a maximum of 29.75 AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Claiming CME Credit
The IARS will provide online program evaluation and session tracking to support claiming CME credit immediately following the close of the live activity.

Maintenance of Certification in Anesthesiology Program® (MOCA®)
Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis.

Disclosure
The IARS makes every effort to develop CME activities that are independent, objective, scientifically balanced presentations of information. The IARS has implemented mechanisms requiring everyone in a position to control content to disclose all relevant financial relationships with commercial interests. Relevant financial relationships are defined as financial relationships in any amount occurring within the past 12 months, including financial relationships of the spouse or partner of the person in control of content. Disclosure of any or no relationships is made available in advance of all educational activities. The IARS evaluates, and if necessary, resolves any conflicts of interest prior to the start of the activity. Individuals who refuse or fail to provide the required disclosures are disqualified from being a planning committee member, teacher, or author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

Disclaimer
The information provided in this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a health care provider relative to diagnostic and treatment options of a specific patient’s medical condition.

Commercial Support
As of press time, there is no commercial support for this activity.
How to Use the Preliminary Program

In this Preliminary Program, you will find the important information needed to plan your Annual Meeting experience. Included is a listing of Annual Meeting events, a list of sessions by subspecialty topic and page number and a Schedule-at-a-Glance for the meeting. The education sessions are listed by day and then by time within the Preliminary Program.

### Education Sessions Key for Anesthesia Subspecialty Topics

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty topic to which they pertain.

<table>
<thead>
<tr>
<th>AM</th>
<th>Airway Management</th>
<th>OB</th>
<th>Obstetric Anesthesiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMB</td>
<td>Ambulatory Anesthesia</td>
<td>PA</td>
<td>Perioperative Anesthesia</td>
</tr>
<tr>
<td>AP</td>
<td>Anesthetic Pharmacology</td>
<td>PED</td>
<td>Pediatric Anesthesiology</td>
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<tr>
<td>BLD</td>
<td>Blood Management</td>
<td>PM</td>
<td>Pain Medicine</td>
</tr>
<tr>
<td>CA</td>
<td>Cardiovascular Anesthesiology</td>
<td>PME</td>
<td>Pain Mechanisms</td>
</tr>
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<td>CC</td>
<td>Critical Care</td>
<td>PS</td>
<td>Patient Safety</td>
</tr>
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<td>EEP</td>
<td>Economics, Education and Policy</td>
<td>RA</td>
<td>Regional Anesthesia</td>
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<td>GA</td>
<td>Geriatric Anesthesia</td>
<td>RES</td>
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<td>Global Health</td>
<td>SM</td>
<td>Sleep Medicine</td>
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<td>TCSEM</td>
<td>Technology, Computing and Simulation, Equipment Monitoring</td>
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<td>NR</td>
<td>Neuroscience in Anesthesiology and Perioperative Medicine</td>
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<td>Obesity</td>
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</table>

**AM = Airway Management**

- PBLD-02 ................. 17
- RCL-03 .................. 23
- PBLD-07 .................. 23
- PBLD-08 ................. 24
- Panel-09 ................. 29
- PBLD-14 .................. 34
- RCL-07 .................. 33
- RCL-12 .................. 40
- RCL-13 .................. 42
- PBLD-19 ................. 44
- Panel-21 ................. 44
- RCL-16 .................. 49
- Panel-32 .................. 55
- Panel-33 .................. 56
- RCL-24 .................. 60
- RCL-25 .................. 61

**AMB = Ambulatory Anesthesia**

- Panel-02 ................. 18
- Panel-05 .................. 24
- RCL-11 .................. 40
- PBLD-16 ................. 40
- Panel-25 .................. 48
- PBLD-24 .................. 55
- Panel-33 ................. 56
- PBLD-29 .................. 64

**AP = Anesthetic Pharmacology**

- T.H. Seldon Memorial Lecture 16
- Symposium-01 ............ 18
- PBLD-03 .................. 20
- PBLD-06 .................. 22
- PBLD-08 .................. 24
- Panel-05 .................. 24
- Scholar-05 ................. 26
- RCL-05 .................. 28
- Panel-09 .................. 29
- ISS ...................... 35
- Panel-15 .................. 38
- PBLD-17 .................. 42
- PBLD-18 ................. 43
- Panel-25 .................. 48
- Panel-26 ................. 48
- Panel-28 ................. 55
- Panel-29 ................. 56
- Panel-34 ................. 56
- Panel-36 ................. 59
- PBLD-27 ................. 64
- PBLD-28 ................. 64
- PBLD-29 ................. 64

**BLD = Blood Management**

- Panel-01 ................. 17
- PBLD-04 .................. 20
- Panel-07 .................. 25
- RCL-05 .................. 28
- PBLD-10 .................. 28
- RCL-06 .................. 28

**CA = Cardiovascular Anesthesiology**

- Symposium-01 ............ 18
- Workshop-01 ............. 19
- RCL-02 .................. 23
- RCL-03 .................. 23
- PBLD-07 .................. 23
- Workshop-02 ............. 26
- PBLD-10 .................. 28
- Panel-09 ................. 29
- RCL-06 .................. 30

**CC = Critical Care**

- Panel-02 ................. 18
- Panel-02 ................. 18
- Symposium-01 ............ 18
- Workshop-01 ............. 19

(continued)
<table>
<thead>
<tr>
<th>CC, continued</th>
<th>EEP, continued</th>
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<tr>
<td>RCL-01</td>
<td>Scholar-06</td>
<td>Panel-38</td>
<td>RCL-22</td>
</tr>
<tr>
<td>Panel-03</td>
<td>Panel-08</td>
<td>RCL-28</td>
<td>RCL-24</td>
</tr>
<tr>
<td>Panel-04</td>
<td>Scholar-07</td>
<td>Panel-06</td>
<td>Workshops-01</td>
</tr>
<tr>
<td>PBLD-06</td>
<td>Panel-11</td>
<td>RCL-01</td>
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<tr>
<td>RCL-02</td>
<td>Panel-12</td>
<td>Panel-12</td>
<td>RCL-02</td>
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<tr>
<td>RCL-03</td>
<td>PBLD-12</td>
<td>Panel-13</td>
<td>Panel-03</td>
</tr>
<tr>
<td>PBLD-07</td>
<td>Kosaka</td>
<td>Panel-14</td>
<td>Panel-04</td>
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<tr>
<td>PBLD-08</td>
<td>ISS</td>
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THURSDAY, APRIL 26
AUA & SOCCA Annual Meetings
6:00 am – 6:00 pm Registration
8:30 am – 5:45 pm AUA Education Sessions and Moderated Poster Discussion Sessions
7:00 pm – 8:00 pm SOCCA Reception with Exhibitors
7:00 pm – 9:30 pm AUA Social Event Reception

FRIDAY, APRIL 27
IARS, AUA & SOCCA Annual Meetings
6:00 am – 6:00 pm Registration
8:00 am – 5:45 pm SOCCA Education Sessions and Moderated Poster Discussion Sessions
8:00 am – 6:00 pm AUA Education Sessions and Moderated Poster Discussion Sessions
5:00 pm – 6:00 pm IARS First-Time Attendee Orientation and Networking Session
6:00 pm – 7:00 pm IARS, AUA, SOCCA, & eSAS Scholars’ Program Mentor-Trainee Reception
7:30 pm – 9:00 pm Dine-Around Session 1

SATURDAY, APRIL 28
IARS Annual Meeting, Aligned Meeting Day and SOCCA Focus on Critical Care Day
6:00 am – 6:00 pm Registration
6:15 am – 7:15 am Scholars’ Program Breakfast with IARS, AUA & SOCCA Presidents
6:30 am – 4:00 pm Tabletop Exhibits
7:30 am – 9:00 am Opening General Session and T.H. Seldon Memorial Lecture: Personalizing Health Care in the Era of Big Data
Jeffrey R. Balser, MD, PhD
9:30 am – 12:00 pm AUA Symposium: Mitochondria and Bioenergetics in Health and Disease: It’s Not Just a Power Failure!
9:30 am – 12:30 pm Workshop: Focused Cardiovascular Ultrasound (FoCUS): It’s for Everyone!
9:30 am – 6:00 pm Concurrent Sessions
• Panels
• Problem-Based Learning Discussions (PBLDs)
• Review Course Lectures (RCLs)
• Moderated Poster Discussion Sessions
9:30 am – 11:00 am Kosaka Best of Meeting Abstract Awards Session
9:30 am – 12:30 pm International Science Symposium: Designing Drugs: Transforming Anesthesiology Practice
9:30 am – 12:30 pm Workshop: Truncal Block Workshop: An Enhanced Recovery After Surgery (ERAS) Approach
2:00 pm – 5:00 pm Workshop: Teaching Anesthesia Teams to Perform After Action Reviews: Lessons Learned from Aviation and Health Care
3:30 pm – 6:00 pm CAS Symposium: Social Accountability: How Can Anesthesiology Face the Challenge?
6:00 pm – 7:30 pm Dine-Around Session 2

MONDAY, APRIL 30
6:00 am – 6:00 pm Registration
6:30 am – 9:30 am Tabletop Exhibits
7:30 am – 6:00 pm Concurrent Sessions
• Panels
• Problem-Based Learning Discussions (PBLDs)
• Review Course Lectures (RCLs)
• Moderated Poster Discussion Sessions
9:30 am – 12:00 pm A&A Symposium: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside
9:30 am – 12:30 pm SAGA Workshop: Interactive Boot Camp for Brief Perioperative Cognitive Assessment
2:00 pm – 5:00 pm Workshop: Transformational Leadership: You’re Not a Born Leader!
3:30 pm – 6:00 pm Symposium: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction and Alzheimer’s Disease

TUESDAY, MAY 1
7:00 am – 12:00 pm Registration
8:00 am – 11:45 am Concurrent Sessions
• Panels
• Problem-Based Learning Discussions (PBLDs)
• Review Course Lectures (RCLs)
9:30 am – 6:10 pm IARS, AUA & SOCCA Scholars’ Program Education Sessions and Lunch
2:00 pm – 5:00 pm Workshop: Advanced Perioperative Ultrasound
3:30 pm – 6:00 pm SAGA Symposium: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions
6:00 pm – 7:30 pm IARS, AUA & SOCCA Alignment Reception
6:00 pm – 7:30 pm Tabletop Exhibits

Preliminary schedule and sessions are as of press time and subject to change.
Opening General Session

T.H. Seldon Memorial Lecture: 
Personalizing Health Care in the Era of Big Data

Saturday, April 28, 2018
7:30 am – 9:00 am

Jeffrey R. Balser, MD, PhD
Dean, Vanderbilt University School of Medicine; President and CEO, Vanderbilt University Medical Center, Nashville, Tennessee

Jeffrey R. Balser, MD, PhD, oversees Vanderbilt University Medical Center, one of the nation’s largest fully integrated academic health centers. A national spokesperson on health system governance and finance, he has led efforts to understand and promote the fiscal health and sustainability of research and training in academic medicine. His original National Institutes of Health (NIH)-supported scholarship focused on the functional genomics of cardiac arrhythmias. Over two decades, Dr. Balser has guided expansion of Vanderbilt’s research programs in personalized medicine, human subjects research, and population health, moving Vanderbilt University School of Medicine into eighth place in the U.S. in NIH funding. A world leader in health informatics and genomic medicine, Vanderbilt University is home to the NIH Data and Research Center for the U.S. Precision Medicine Initiative.

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the limitations of data sets previously available for research, and the new data sets becoming available through electronic health records; (2) Review how genomic information can be linked to electronic health record phenotypes, and used for the discovery of new drug targets as well as drug side effects; and (3) Assess the challenges and opportunities associated with bringing genetic information into point-of-care actionable use in clinical care.

Subspecialty Key: AP, EEP, PS, TCSEM

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 T.H. Seldon Memorial Lecture in 1992 after Dr. Seldon's death in 1991.
Friday, April 27

Daily Schedule-at-a-Glance

6:00 am – 6:00 pm  Registration
5:00 pm – 6:00 pm  IARS First-Time Attendee Orientation and Networking Session
6:00 pm – 7:00 pm  IARS, AUA, SOCCA & eSAS Scholars’ Program Mentor-Trainee Reception
7:30 pm – 9:00 pm  Dine-Around Session 1

5:00 pm – 6:00 pm  
IARS First-Time Attendee Orientation and Networking Session

At the IARS First-Time Attendee Orientation and Networking Session, review what’s new at the IARS Annual Meeting and gain strategies to make the most of your experience and maximize the value to you. Meet other first-time attendees and learn from loyal return attendees. Discover how to select your sessions and when to visit the exhibitors. Plus, receive tips on how, when and where to network most effectively. Grow your network and gain insight from your peers and colleagues.

This session is included in the general registration fee. Space is limited and pre-registration is required to attend.

Please note: No CME is offered for this session.

6:00 pm – 7:00 pm  
IARS, AUA, SOCCA & eSAS Scholars’ Program Mentor-Trainee Reception

Based on rigorous evaluation of both mentors’ expertise and trainees’ needs, early-stage scholars and trainees will be matched with mentors who will provide first-hand advice and guidance during the event on a variety of topics important to the trainee. Take advantage of this unique occasion to network and socialize with fellow scholars and participate in mentoring opportunities.

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.

7:30 pm – 9:00 pm  
Dine-Around Session 1

The IARS is offering Dine-Arounds, 10-person dinners where attendees can network. Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

Each Dine-Around Session will include 5-6 groups and each group will include 2 experts as hosts and facilitators for discussion topics, topics to be determined.

Locations, restaurant cuisines and price points will be provided closer to the meeting. Sign-up today when registering and make sure you secure one of the limited spaces!

Space is limited and pre-registration is required. An additional session is offered on Sunday, April 29, 6:30 pm – 8:00 pm. Attendees may attend both sessions if space is available. Locations will be provided by IARS. Dining costs are the responsibility of attendees.
Daily Schedule-at-a-Glance

6:00 am – 6:00 pm  Registration
6:15 am – 7:15 am  Scholars’ Program Breakfast with IARS, AUA & SOCCA Presidents
7:30 am – 9:00 am  Opening General Session and T.H. Seldon Memorial Lecture
Jeffrey R. Balser, MD, PhD
9:30 am – 12:00 pm  AUA Symposium: Mitochondria and Bioenergetics in Health and Disease: It’s Not Just a Power Failure!
9:30 am – 12:30 pm  Workshop: Focused Cardiovascular Ultrasound (FoCUS): It’s for Everyone!
9:30 am – 5:45 pm  Concurrent Sessions
• Moderated Poster Discussion Sessions
• Panels
• Problem-Based Learning Discussions (PBLDs)
• Review Course Lectures
9:30 am – 6:10 pm  Scholars’ Program Education Sessions and Lunch
2:00 pm – 5:00 pm  Workshop: Advanced Perioperative Ultrasound
3:30 pm – 6:00 pm  SAGA Symposium: Perioperative Care of the Frail or High-risk Older Patient: Current Knowledge and Future Directions
6:00 pm – 7:30 pm  IARS, AUA & SOCCA Alignment Reception

6:30 am – 4:00 pm • 6:00 pm – 7:30 pm Tabletop Exhibits

6:15 am – 7:15 am

Scholars’ Program

Scholars’ Program Breakfast with IARS, AUA & SOCCA Presidents

Join the IARS, AUA & SOCCA Presidents and your mentors and peers for an informal networking breakfast. This is your opportunity to ask the leaders of IARS, AUA & SOCCA the questions you’ve been afraid to ask in an intimate environment and gain advice from mentors. Plus, get to know your peers and colleagues better.

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.

Please note: No CME is offered for this session.

Register Early and Save!

Online registration will open December 2017.

Register by Thursday, February 22, 2018, and take advantage of discounted early rates.

Join us in Chicago, Illinois, this April!

For more details on the program and how to register, visit

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Subspecialty Key

AM  Airway Management  EEP  Economics, Education and Policy  OB  Obstetric Anesthesiology  RA  Regional Anesthesia
AMB  Ambulatory Anesthesia  GA  Geriatric Anesthesiology  PA  Perioperative Anesthesia  RES  Respiratory
AP  Anesthetic Pharmacology  GH  Global Health  PED  Pediatric Anesthesiology  SM  Sleep Medicine
BLD  Blood Management  L  Liver  PM  Pain Medicine  TCSEM  Technology, Computing and Simulation, Equipment Monitoring
CA  Cardiovascular Anesthesiology  NR  Neuroscience in Anesthesiology and Perioperative Medicine  PME  Pain Mechanisms  T  Trauma
CC  Critical Care  O  Obesity  PS  Patient Safety
Opening General Session and T.H. Seldon Memorial Lecture:

Personalizing Health Care in the Era of Big Data
Presenter: Jeffrey R. Balser, MD, PhD, Dean, Vanderbilt University School of Medicine; President and CEO, Vanderbilt University Medical Center, Nashville, Tennessee

Dr. Balser oversees Vanderbilt University Medical Center, one of the nation’s largest fully integrated academic health centers. A national spokesperson on health system governance and finance, he has led efforts to understand and promote the fiscal health and sustainability of research and training in academic medicine. Join him for the T.H. Seldon Memorial Lecture.

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the limitations of data sets previously available for research, and the new data sets becoming available through electronic health records; (2) Review how genomic information can be linked to electronic health record phenotypes, and used for the discovery of new drug targets as well as drug side effects; and (3) Assess the challenges and opportunities associated with bringing genetic information into point-of-care actionable use in clinical care.

Subspecialty Key: AP, EEP, PS, TCSEM

This session is part of the Aligned Meeting Day and is open to AUA and SOCCA attendees as part of their registration fee for their Annual Meetings.

Affiliate Society Meetings
Tuesday, May 1

Stay all day Tuesday, May 1 and take advantage of the Affiliate Society Meetings offered that afternoon.

1:00 pm - 4:00 pm: Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting
1:00 pm - 6:00 pm: 2nd Symposium of the Society for the Advancement of Transplant Anesthesia (SATA)
For more information, see page 68.
To Intubate or Not: Management of Postoperative Acute Respiratory Failure

Presenter: Kunal Karamchandani, MD, FCCP, Assistant Professor, Anesthesiology and Perioperative Medicine, College of Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the causes of postoperative acute hypoxemic respiratory failure; (2) Review the principles and differences between Continuous Positive Airway Pressure (CPAP) and Bi-level Positive Airway Pressure (BIPAP) ventilation; (3) Discuss the physiological effects of High-Flow Nasal Cannula (HFNC) in acute hypoxemic respiratory failure; and (4) Analyze the role of non-invasive mechanical ventilation in acute hypoxemic respiratory failure.

This session is part of the SOCCA Focus on Critical Care Day and is open to SOCCA attendees as part of their registration fee for their Society Annual Meeting.

Clinical Research Consortium: Call for Letters of Intent for Clinical Research Proposals

Submission Deadline: Sunday, December 31, 2017

Submit clinical research proposals that will have a high probability of receiving support from the National Institutes of Health (NIH) or another funding agency. This invitation is for investigators to submit letters of intent for pragmatic clinical trials in perioperative medicine. We are currently soliciting letters of intent from investigators who are interested in leading a pragmatic clinical trial focusing on any or all of the following areas: preoperative care/optimization, operating room management, postoperative management, perioperative critical care, peri- and postpartum care, and pain management. Outcomes should be clinically relevant and important to society.

Letters of intent should be no more than 2 pages in length, with 1 page being the Specific Aims Page. They should be single spacing, minimum of size 11 font (Arial or Times New Roman) with minimum borders of 0.5 inches.

For more information or to send submissions, contact: vabalama@iars.org.
9:30 am – 11:00 am (continued)

Panel-02


Moderator: Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA, Professor and Chairman, Department of Anesthesiology, Stony Brook School of Medicine, Stony Brook, New York; Founding President, ASER

Panelists:

- **Perioperative Nutrition**
  Paul E. Wischmeyer, MD, EDIC, Professor, Department of Anesthesiology, Division of Critical Care Medicine, Associate Vice Chair for Clinical Research, Co-Director, Academic Career Enrichment Scholars (ACES) Resident Research Program, Duke University School of Medicine; Director, Perioperative Research, Duke Clinical Research Institute (DCRI), Durham, North Carolina

- **Prevention and Management of Postoperative Ileus**
  Julie K. Marosky Thacker, MD, Medical Director, Clinical Research Unit, Associate Professor of Surgery, Division of Advanced Oncologic and Gastrointestinal Surgery, Duke University School of Medicine, Durham, North Carolina; President, ASER

- **Perioperative Fluid Management**
  Timothy E. Miller, MB, ChB, FRCA, Chief, Division of General, Vascular, and Transplant Anesthesiology, Clinical Director, Abdominal Transplant Anesthesiology, Director, Perioperative Medicine Fellowship, Associate Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina; President-Elect, ASER; Associate Editor, Anesthesia & Analgesia

- **Patient-Reported Outcomes**
  Elliott Bennett-Guerrero, MD, Professor, Department of Anesthesiology, Vice Chair for Clinical Research, Medical Director, Perioperative Quality and Patient Safety, Stony Brook School of Medicine, Stony Brook, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the strategies to prevent and manage postoperative ileus within an Enhanced Recovery Pathway (ERP); (2) Define preoperative nutritional assessment and evaluate the role of immunonutrition and management of postoperative nutritional stress; (3) Discuss aspects of ERP that impact fluid management and make recommendations on preoperative oral hydration; strategy on perioperative fluid management; and (4) Evaluate which patient-reported outcomes should be measured within an ERP.

Subspecialty Key: AMB, CC, PA, PS, TCSEM

9:30 am – 12:00 pm

**Symposium-01**

Mitochondria and Bioenergetics in Health and Disease: It’s Not Just a Power Failure!

Moderator: Y.S. Prakash, MD, PhD, Professor of Anesthesiology and Physiology; Chair, Department of Physiology and Biomedical Engineering, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

Presenters:

- **Mitochondria From Evolution to Disease: It’s in the Genes**
  Douglas C. Wallace, PhD, Director, Center for Mitochondrial and Epigenomic Medicine (CMEM), Michael and Charles Barnett Endowed Chair of Pediatric Mitochondrial Medicine and Metabolic Diseases, Children’s Hospital of Philadelphia Research Institute; Professor, Department of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

- **Brain Bioenergetics: Watch that Oxygen Level**
  Elizabeth A. Jonas, MD, Professor, Department of Internal Medicine, Division of Endocrinology, Yale School of Medicine, New Haven, Connecticut

- **Taking a Closer Look at Mitochondria**
  Douglas L. Rothman, PhD, Professor of Biomedical Engineering and Radiology and Biomedical Imaging, Director, Magnetic Resonance Research Center (MRRC), Yale School of Engineering and Applied Sciences, New Haven, Connecticut

- **Anesthetic Preconditioning and Mitochondria**
  Paul S. Brookes, PhD, Professor, Department of Anesthesiology & Perioperative Medicine, Research (SMD), Professor, Department of Pharmacology and Physiology (SMD), University of Rochester Medical Center, Rochester, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Appraise the breadth and impact of mitochondrial functions in normal organ function; (2) Identify mitochondrial mechanisms and dysfunctional bioenergetics that contribute to diseases relevant to perioperative medicine; (3) Review ongoing multidisciplinary approaches to the study of mitochondria and bioenergetics in the context of disease; and (4) Analyze ongoing efforts to develop novel therapies that target mitochondria and energetics.

Subspecialty Key: AP, CA, CC, L, NR, O, OB, PA, PED, PME, PS, RES, T

**This session is part of the Aligned Meeting Day and is open to AUA and SOCCA attendees as part of their registration fee for their Annual Meetings.**
Saturday, April 28

**9:30 am – 12:30 pm**

**Workshop-01**

**Focused Cardiovascular Ultrasound (FoCUS) – It's for Everyone!**

Focused cardiovascular ultrasound (FoCUS) can be defined as limited bedside transthoracic echocardiography that the perioperative physician can use to rule in or out broad categories of dysfunction for improving patient care. In this hands-on workshop and online tutorial, trainees will learn how to obtain and evaluate the five FoCUS views, as well as learn the equipment needed, general transthoracic ultrasound nomenclature and technique, indications, and limitations.

**Workshop Leader:** Candice K. Morrissey, MD, MSPH, Assistant Professor (Clinical), Anesthesiology, University of Utah Health Care, Salt Lake City, Utah

**Presenters:**

- Bradley J. Coker, MD, Assistant Professor, Anesthesiology, University of Alabama at Birmingham, Birmingham, Alabama
- Jason Harig, MD, Assistant Professor (Clinical), Anesthesiology, University of Utah Health Care, Salt Lake City, Utah
- Orode Badakhsh, MD, Assistant Professor, Anesthesiology, University of California, Davis Medical Center, Sacramento, California
- Nate Birgenheier, MD, Assistant Professor, Anesthesiology, University of Utah Health Care
- Joshua M. Zimmerman, MD, FASE, Associate Professor, (Clinical), Adjunct Assistant Professor, Surgery Director, Perioperative Echocardiography, Director, Preoperative Clinic, University of Utah Health Care, Salt Lake City, Utah

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review the indications, limitations, and diagnostic targets of focused cardiovascular ultrasound (FoCUS); (2) Identify the equipment required and demonstrate important elements of patient positioning when performing focused cardiovascular ultrasound; and (3) Demonstrate probe positions, basic anatomic structures and how to rule in or out broad categories of cardiac dysfunction with the use of focused cardiovascular ultrasound.

**Subspecialty Key:** CA, CC, GA, L, NR, O, OB, PED, PA, RES, SM, TCSEM, T

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**9:40 am – 10:30 am**

**Scholars’ Program**

**Scholar-02: Moving from Insight to Scientific Premise to Research Program and What This is All About**

**Moderator:** Katie J. Schenning, MD, MPH, Assistant Professor of Anesthesiology and Perioperative Medicine, School of Medicine, Oregon Health & Sciences University, Portland, Oregon; Co-Chair Membership, eSAS

**Presenter:** Max B. Kelz, MD, PhD, David E. Longnecker Associate Professor of Anesthesiology and Critical Care, Chair of Admissions, Department of Neuroscience MD PhD Program, MSTP Program Advisor, Director for Research Education, Department of Anesthesiology and Critical Care, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify how early experiences including adverse ones have the potential to positively impact and shape your career; (2) Plan to disprove your own hypotheses and don’t be devastated if/when you do; and (3) Discuss how to seek out good mentors who are invested in helping and how they are invaluable.

**Subspecialty Key:** EEP

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.

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10:45 am – 11:45 am
PBLD-03
Heroin PCA for Labor Pain: What Are You Smoking or How to Get Controversial Research through the IRB
Presenter: Michael H. Andreae, MD, Associate Professor, Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the basic tenants of research ethics with specific reference to the issues arising in clinical trials of controlled controversal substances, including autonomy, non-maleficence, and justice, especially in vulnerable populations who might benefit most; (2) Interpret ethical, social, and legal concerns and conflicts arising in the conduct of clinical trials on the benefit of illegal or tightly controlled drugs; (3) Analyze typical biases and objections, like concerns about the ability to give informed consent in people living with drugs; and (4) Debate the conflicting ethical principles and potential risk for research participants, investigators, institutions, and regulators arising in the conduct of clinical trials involving controlled controversal drugs.

Subspecialty Key: AP, EEP, NR, PA, PM, PME, PS

10:45 am – 12:15 pm
Scholars’ Program
Scholar-03: Shine Like a Rockstar: Different Paths to Success
Moderators:
Boris D. Heifets, MD, PhD, Clinical Assistant Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California
Manoj M. Lalu, MD, PhD, FRCPC, Vice Chairman for Clinical Research and Faculty Development, Clinical Scholar, Department of Anesthesiology and Pain Medicine, The Ottawa Hospital; Associate Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Co-Chair Membership, eSAS

Panelists:
- Academic Leadership Path
  Peter Nagele, MD, MSc, Assistant Professor, Department of Anesthesiology and Genetics, Chief, Section of Trauma Anesthesiology, Division of Clinical and Translational Research, Washington University School of Medicine in St. Louis, St. Louis, Missouri

- Organizational Leadership Path
  Laureen Hill, MD, MBA, Senior Vice President and Chief Operating Officer, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

- Educational Leadership Path
  Paloma Toledo, MD, MPH, Assistant Professor of Anesthesiology, Department of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Associate Editor, Anesthesia & Analgesia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review pathways and lessons learned towards success in academic anesthesiology; (2) Discuss strategies for succeeding on the clinician investigator track; (3) Describe the current objectives and challenges for leaders in academic health care; (4) Identify the skills, experiences and attributes that make successful academic health care leaders; (5) Identify traditional and non-traditional resources available to anesthesiologists for achieving academic success; and (6) Explain the value of building a network of collaborators, both within, and outside of your institution.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.
11:15 am – 12:00 pm

RCL-01

The Tele-Vision: Taking Care to the Patient and Expanding the Scope of the Intensivist

Presenter: Liza M. Weavind, MBBCh, FCCM, MMHC, Professor of Anesthesiology and Surgery, Associate Division Chief of Anesthesiology Critical Care Medicine, Associate Chief of Staff, Director of Tele-ICU, Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify opportunities in Tele-ICU to improve patient care around the hospital; (2) Review Tele-ICU outcomes in remote locations; (3) Examine internal and external barriers to advancing the Tele-Critical Care agenda; and (4) Discuss how to expand the reach of the Intensivist beyond the boundaries of the ICU.

Subspecialty Key: CC, PS, RA, TCSEM

11:15 am – 12:45 pm

Panel-03

The Microbiome and Brain Health: An Emerging Frontier of Perioperative Neuroscience

Moderator: Dhanesh Kumar Gupta, MD, Chief of Neuroanesthesiology and Non-Operating Room Anesthesiology, Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina

Panelists:

- **Microbiome 101: Therapeutic Opportunities or Innocent but Influential Bystanders?**
  Paul E. Wischmeyer, MD, EDiC, Chief of Neuroanesthesiology and Non-Operating Room Anesthesiology, Professor of Anesthesiology, Associate Vice Chair for Clinical Research, Co-Director, Academic Career Enrichment Scholars (ACES) Resident Research Program, Duke University School of Medicine; Director, Perioperative Research, Duke Clinical Research Institute (DCRI), Durham, North Carolina

- **Does the Microbiome Influence Cognitive Health in the Perioperative Period**
  Zhiyi E. Zuo, MD, MS, PhD, Robert M. Epstein Professor of Anesthesiology, Professor of Neuroscience and Neurological Surgery, University of Virginia School of Medicine, Charlottesville, Virginia

- **The Microbiome Influences on Cerebrovascular Disease**
  Tomoki Hashimoto, MD, Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how the microbiome can affect health and neurologic disease; (2) Examine the current knowledge regarding the impact of the microbiome on brain function; (3) Examine the emerging evidence linking the microbiome to cognitive health in the perioperative period; and (4) Examine the emerging evidence linking the microbiome to cerebrovascular disease and the outcomes in stroke and arteriovenous malformations.

Subspecialty Key: CC, GA, NR, PA

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11:15 am – 12:45 pm (continued)

**Panel-04**

Research Statistics for the Non-Statisticians

**Moderator:** Edward J. Mascha, PhD, Associate Staff Biostatistician, Department of Quantitative Health Sciences and Department of Outcomes Research in the Anesthesiology Institute, Learner College of Medicine, Cleveland Clinic, Cleveland, Ohio; Statistical Editor, Anesthesia & Analgesia

**Panelists:**

- Common Reasons for Violating the Statistical Review Checklist of Anesthesia & Analgesia
  Edward J. Mascha, PhD
- Review of the Research Guidelines: What Is It About the Statistics?
  Won Ho Kim, MD, PhD, Clinical Associate Professor, Department of Anesthesiology and Pain Medicine, Seoul National University Hospital, Seoul, South Korea
- Common Pitfalls of Statistical Study Design and Analysis of Research Data
  Thomas R. Vetter, MD, MPH, Director of Perioperative Care, Professor, Surgery and Perioperative Care, Population Health, Dell Medical School at the University of Texas at Austin, Austin, Texas; Deputy Editor-in-Chief, Anesthesia & Analgesia

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the statistical checklists for Anesthesia & Analgesia; (2) Discuss how to design a study from a statistical point of view and how to analyze a research data; (3) Review the common statistical pitfalls that the researchers often make; and (4) Review the research guidelines focusing the statistical analysis and papers published regarding the statistical analysis in major anesthesia journals.

12:00 pm – 1:00 pm

**PBLD-05**

**Why Study Time Doesn’t Always Lead to Learning: How Do We Help the Struggling Trainee?**

**Presenters:**

- Ernse Eromo, MD, MBA, Instructor in Anaesthesia, Clerkship Director for Harvard Medical Students, Harvard Medical School, Simulation Fellow, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital Learning Lab, Massachusetts General Hospital, Boston, Massachusetts
- Daniel Saddawi-Konefka, MD, MBA, Anesthesia Residency Program Director, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Assistant Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss various self-study methods available to trainees, including relative effectiveness of each technique; (2) Describe an approach to unpacking a trainee’s study habits; and (3) Prepare a study plan for a hypothetical trainee that combines effective learning modalities.

**Register Early and Save!**

Online registration now open!

Register by Thursday, February 22, 2018, and take advantage of discounted early rates.

Join us in Chicago, Illinois, this April!

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**PBLD-06**

**Taking Assent to New Heights: Do-Not-Resuscitate Status in Pediatric Palliative Care Procedures**

**Presenter:** Heather A. Ballard, MD, Instructor of Anesthesiology, Department of Pediatric Anesthesiology, Northwestern University Feinberg School of Medicine, Attending Physician, Anesthesiology, Ann & Robert H. Lurie Children’s Hospital of Chicago, Chicago, Illinois

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Assess the terminally ill adolescent’s ability to assent/consent to advanced directives and anesthetic plans; (2) Discuss anesthetic goals when caring for a dying patient and the potential conflict with DNR status; (3) Assess the value of establishing a therapeutic patient relationship including an advanced directives discussion prior to administering an anesthetic for a palliative procedure; and (4) Assess when to involve other services (palliative care, primary caregivers, ethics board, risk management) when discussing end-of-life issues as part of a collaborative care model.
12:15 pm – 1:00 pm | RCL-02

**Perioperative Cardiac Risk Assessment and Management: The Internist’s Perspective**

**Presenter:** Steven L. Cohn, MD, FACP, SFHM, Professor, Clinical Medicine, and Medical Director, UHealth Preoperative Assessment Center (UPAC), Medical Consultation Service, University of Miami Miller School of Medicine, Miami, Florida; Chief, Division of General Internal Medicine, Director of the Preoperative Medical Consultation Clinic and Medical Consultation Service, Kings County Hospital Center, Brooklyn, New York; Governing Board, SPAQI

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Explain the ACC/AHA algorithm for perioperative cardiac risk assessment; (2) Identify various tools and calculators to assess risk of postoperative cardiac complications; (3) Judge appropriate evidence-based decisions as to when further cardiac tests are indicated; and (4) Assess the evidence or lack thereof for risk reduction strategies including revascularization and medical therapy.

**Subspecialty Key:** CA, CC, PA, PS

12:30 pm – 2:00 pm | Scholars’ Program

**Scholar-04: Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond**

**Moderator:** Elizabeth L. Whitlock, MD, MSc, Clinical Instructor and T32 Fellow, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California; Co-President, eSAS

**Panelists:**
- **Junior Investigator Perspective**
  
  **Julie K. Freed, MD, PhD**, Assistant Professor, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Co-Chair Events, eSAS

- **Senior Investigator Perspective**
  
  **Ken Solt, MD**, Associate Professor, Anaesthesia, Harvard Medical School; Associate Anesthetist, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the challenges physicians encounter when transitioning from trainee to junior faculty; (2) Apply strategies to manage difficult situations during the transition to junior faculty; (3) Describe the importance of mentoring in the development of physician-scientists; and (4) Describe the unique challenges faced by academic anesthesiologists who are transitioning to independence.

**Subspecialty Key:** EEP

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.

2:00 pm – 2:45 pm | RCL-03

**What’s New with the Management of Vasodilatory Shock in the ICU?**

**Presenter:** Ashish K. Khanna, MD, FCCP, Staff Anesthesiologist and Intensivist, Assistant Professor of Anesthesiology, Anesthesiology Institute, Vice Chief for Research, Center for Critical Care and Department of Outcomes Research, Cleveland Clinic, Center for Critical Care, Anesthesiology Institute, Cleveland Clinic Foundation, Cleveland, Ohio

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify evidence of the duration and extent of hypotension during the intraoperative, postoperative and acute critical illness periods in the ICU that affects outcomes; (2) Describe how low blood pressure will influence the brain, heart and kidney hypoperfusion syndromes; (3) Formulate a plan for prioritizing different vasopressors and their usage in vasodilatory shock states in the ICU; and (4) Identify the mechanism of action, physiology and clinical perspectives with the newer vasopressors in refractory vasodilatory shock.

**Subspecialty Key:** AM, CA, CC, NR, PA, PS, TCSEM

2:00 pm – 3:00 pm | PBLD-07

**The Sweet Escape: A Complicated Case of DKA**

**Presenter:** George W. Williams, II, MD, FCCP, Division Chief, Division of Critical Care Medicine, Fellowship Program Director, Division of Critical Care Medicine, Assistant Program Director, Anesthesiology Residency, McGovern School of Medicine at the University of Texas Health Science Center, Houston, Texas; Chief Resident for Education, University Hospitals Case Medical Center, Case Western Reserve School of Medicine, Cleveland, Ohio

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review pathogenesis and management of DKA; (2) Describe acid-base disorders and their diagnosis; and (3) Review appropriate management for circulatory shock.

**Subspecialty Key:** AM, CA, CC

This session is part of the SOCCA Focus on Critical Care Day and is open to SOCCA attendees as part of their registration fee for their Society Annual Meeting.
2:00 pm – 3:00 pm (continued)  
**PBLD-08**

**Defining Acute Epiglottitis and Anesthetic Management in the Post-Haemophilus Influenzae Type B (Hib) Vaccination Era**

**Presenter:** Claude Abdallah, MD, MSc, Associate Professor of Anesthesiology and Pediatrics, Division of Anesthesiology, Pain and Perioperative Medicine, Children’s National Health System, Washington, DC

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review the demographics and presentation of acute epiglottitis in the Post-Haemophilus influenzae type B (Hib) vaccination era; (2) Analyze the interventions and outcomes of acute epiglottitis; (3) Describe differentiating symptoms and signs of epiglottitis and other airway emergencies; and (4) Discuss the different steps of anesthesia management in a patient with diagnosis of epiglottitis.

**Subspecialty Key:** AM, AP, CC

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**Sign-Up for Dine-Arounds!**

Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

Locations, restaurant cuisines and price points will be provided closer to the meeting. Sign-up when registering and make sure you secure one of the limited spaces!

- **Friday, April 27 • 7:30 pm - 9:00 pm:** Dine-Around Session 1
- **Sunday, April 29 • 6:30 pm - 8:00 pm:** Dine-Around Session 2

*Space is limited and pre-registration is required. Attendees may attend both sessions if space is available. Locations will be provided by IARS. Dining costs are the responsibility of attendees.*

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2:00 pm – 3:30 pm  
**Panel-05**

**Regional Anesthesia: An Evidence-Based Look at Current Controversies and Unknowns**

**Moderator:** Joseph M. Neal, MD, Anesthesiology Faculty, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

**Panelists:**
- **Should Blocks Be Performed in Anesthetized Patients?**  
  Joseph M. Neal, MD
  Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children’s Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

- **Single Injection Versus Continuous Blocks for Total Knee Arthroplasty**  
  Sandra L. Kopp, MD, Vice Chair, Practice Convergence and Integration, Department of Anesthesiology and Perioperative Medicine, Chair, Division of Community Anesthesiology, Department of Anesthesiology and Perioperative Medicine, Associate Professor of Anesthesiology, Mayo Clinic College of Medicine and Science, Rochester, Minnesota
  Edward R. Mariano, MD, MAS, Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine; Stanford, California; Chief, Anesthesiology and Perioperative Care Service, and Associate Chief of Staff, Inpatient Surgical Services, Veterans Affairs Palo Alto Health Care System, Palo Alto, California

- **Evolving Trends in Local Anesthetic Systemic Toxicity**  
  Sandra L. Kopp, MD
  Joseph M. Neal, MD
  Santhanam Suresh, MD

- **Bold Predictions: The Role of New Blocks and Drugs**  
  Sandra L. Kopp, MD
  Edward R. Mariano, MD, MS
  Santhanam Suresh, MD

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Appraise the nuances of performing blocks in anesthetized adults versus children; (2) Assess evidence supporting the choice of either a single injection or continuous technique for total knee arthroplasty analgesia; (3) Identify evolving trends in local anesthetic systemic toxicity; (4) Evaluate the future of new blocks and new drugs; and (5) Demonstrate awareness of unusual complications associated with regional anesthesia.

**Subspecialty Key:** AMB, AP, PED, PS, RA
Panel-06

Preoperative Management and Optimization Strategies

Moderator: Monty Mythen, MBBS, MD, FRCA, FFICM, Professor of Anaesthesia and Critical Care, University College London; Director, The University College London Discovery Lab, The London 2012 Olympic Legacy Institute of Sport Exercise and Health, London, England

Panelists:
- Redesigning the Pathway to Surgery
  Timothy E. Miller, MB, ChB, FRCA, Chief, Division of General, Vascular, and Transplant Anesthesiology, Clinical Director, Abdominal Transplant Anesthesiology, Director, Perioperative Medicine Fellowship, Associate Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina; President-Elect, ASER; Associate Editor, Anesthesia & Analgesia

- Fit-4-Surgery
  Michael P. Grocott, MD, Professor of Anaesthesia and Critical Care Medicine, Head, Integrative Physiology and Critical Illness Group, CES Lead, Critical Care Research Area, Southampton NIHR Respiratory BRC, University of Southampton, Southampton, England

- Perioperative Pain Care: Care Pathways to Manage High Resource Utilizers
  Padma Gulur, MD, Professor of Anesthesiology, Vice Chair, Operations and Performance, Medical Director, Acute Pain and Pain Consult Service, Duke University School of Medicine, Durham, North Carolina

- Collaborative Design-Making
  Angela M. Bader, MD, MPH, Professor, Anaesthesia, Harvard Medical School; Director, Weiner Center for Preoperative Evaluation, and Vice Chairman for Perioperative Medicine, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how preoperative optimization has the potential to improve outcomes; (2) Describe the potential advantage and practical limitations of planning perioperative care based on estimated risk; and (3) Identify the advantages of care pathways to manage patients with chronic pain undergoing major surgery.

Panel-07

Detection of Sepsis: Beyond Culture

Moderator: Jeanine P. Wiener-Kronish, MD, Chief of Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Professor of Anaesthesia, Harvard Medical School; President, AUA

Panelists:
- Whole Blood and Single Cell Transcriptomes to Diagnose Sepsis
  Abraham Sonny, MD, MBBS, Faculty, Department of Anesthesia, Critical Care and Pain Medicine, Harvard Medical School; Massachusetts General Hospital, Boston, Massachusetts

- Gene Transcription to Diagnose Sepsis: Leveraging Heterogeneity Across Multiple Datasets for Robust Gene Signatures
  Purvesh Khatri, PhD, Assistant Professor (Research), Medicine, Assistant Professor (Research), Biomedical Data Science, Member, Bio-X, Member, Child Health Research Institute, Faculty Fellow, Stanford ChEM-H, Stanford University School of Medicine, Stanford, California

- Exosomes: What They Are and Why They May Help Us Identify Specific Groups of Pathologies
  Aranya Bagchi, MD, Assistant Professor, Anaesthesia, Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the studies of whole blood transcriptomes in infected patients and why they are important; (2) Discuss why biological and technical heterogeneity across data sets is beneficial; and (3) Explain how to leverage this heterogeneity to identify robust gene signatures.

Subspecialty Key: BLD, CC, T

Call for Abstracts!

Submit your abstracts to the IARS 2018 Annual Meeting and International Science Symposium for the opportunity to share your research with 1,000 anesthesia educators and researchers.

Submission Deadline: Thursday, December 28, 2017

For more information, visit bit.ly/IARS_AMeduc
2:00 pm – 5:00 pm

**Workshop-02**

**Advanced Perioperative Ultrasound**

This advanced workshop will build on basic techniques to expand learners’ knowledge and skill set. The presenters will focus on assessment of left and right ventricular function, valvular pathology, and volume responsiveness. Course instruction via small-group format will include a combination of reviewing short lectures, scanning live models, and utilizing simulator mannequins. Workshop participants should have an understanding of basic perioperative ultrasound prior to taking this advanced workshop.

**Workshop Leader:** Julia B. Sobol, MD, Assistant Professor of Anesthesiology, Program Director, International Anesthesiology Fellowship, Anesthesiology PGY1 Program Director, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

**Presenters:**
- Oliver Panzer, MD, Assistant Professor, Anesthesiology, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York
- David Kiamanesh, MD, Assistant Professor, Department of Anesthesiology, Stony Brook University School of Medicine, Section Chief, Critical Care, Stony Brook University Hospital, Stony Brook, New York
- James A. Osorio, MD, Assistant Professor, Clinical Anesthesiology, Weill Cornell Medical Center, Cornell University; Assistant Attending Anesthesiologist, New York-Presbyterian Hospital, New York, New York
- Mark A. Weller, MD, Assistant Professor of Anesthesiology, Columbia University Medical Center; Director of Anesthesia, Allen Hospital for Spine Surgery, New York-Presbyterian Hospital, New York, New York
- Paul D. Weyker, MD, Associate Physician, Anesthesiology and Pain Medicine, Kaiser Permanente Medical Group of Northern California; University of California, San Francisco Pain Management Center; University of California, San Francisco Medical Center at Mount Zion; University of California, San Francisco Medical Center at Parnassus; San Francisco, California

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Assess left ventricular function, including regional wall motion abnormalities, diastolic dysfunction, and measures of cardiac output; (2) Assess the right ventricle for systolic dysfunction; (3) Evaluate the heart for valvular pathology; and (4) Examine parameters of volume responsiveness.

Subspecialty Key: CA, CC, PA, TCSEM

2:15 pm – 3:45 pm

**Scholars’ Program**

**Scholar-05: Moving Fluidly Across the Translational Spectrum: Current Opioid Crisis**

**Moderators:**
- Catherine Chen, MD, MPH, Assistant Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California
- Michael R. Mathis, MD, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan; Co-Chair Events, eSAS

**Panelists:**
- The Role of Acute Care Prescribing in the Opioid Epidemic
  - Jennifer F. Waljee, MD, MPH, MS, Associate Professor, Section of Plastic and Reconstructive Surgery, Member, Early Career Faculty Advisory Council (ECFAC), Institute for Healthcare Policy & Innovation, University of Michigan Medicine, Ann Arbor, Michigan
- Caffeine Alleviates the Increase in Postoperative Pain Sensitivity induced by Previous Sleep Loss in Rats: An Alternative to Opioids for Pain Relief?
  - Giancarlo Vanini, MD, Research Assistant Professor of Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan
- Tapping into Patient Resilience: The Use of Innovative Self-Management Strategies to reduce Anxiety and Pain in the Perioperative Setting
  - Afton Hassett, PsyD, Associate Research Scientist and Clinical Psychologist, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify the clinical impact of sleep loss on pain and comorbid conditions; (2) Review potential central mechanisms by which insufficient sleep worsens pain; (3) Identify potential non-opioids therapeutic interventions to alleviate pain in patients with insufficient sleep; (4) Describe the impact of anxiety and pain catastrophizing on surgical outcomes; (5) Discuss the role of positive affect and resilient thoughts in reducing anxiety and pain; and (6) Identify self-management strategies that foster resilience and can improve perioperative outcomes.

Subspecialty Key: AP, EEP, PA, PM, PME, PS, SM

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.
2:55 pm – 3:40 pm

RCL-04

Anesthesia for Children with Inborn Errors of Metabolism: Opening Up the Black Box

Presenter: Johnny J. Kenth, BSc, MSc, MBBS, FRCA, Manchester Foundation Trust, Department of Anesthesia, Royal Manchester Children's Hospital

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe a broad conceptual overview of the different types of inborn errors of metabolism (IEM); (2) Identify the pathophysiological nuances involved contextualized to the dysregulation of the normal metabolic pathways; (3) Assess the perioperative considerations for children with IEMs; and (4) Identify the anaesthetic complications in patients with IEM including catastrophic metabolic decompensation.

Subspecialty Key: PA, PED, PS

3:30 pm – 6:00 pm

Symposium-02

**SAGA** Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions

Moderator: Daniel I. McIsaac, MD, MPH, FRCP, Assistant Professor, Junior Research Chair in Perioperative Health Systems and Outcomes Research, Department of Anesthesiology and Pain Medicine, University of Ottawa Faculty of Medicine, Associate Scientist, Ottawa Hospital Research Institute, Staff Anesthesiologist, The Ottawa Hospital; Health Systems Planning and Evaluation Fellow, Institute for Clinical Evaluative Sciences (ICES), Ottawa, Ontario, Canada

Presenters:

- **Epidemiology and Preoperative Assessment of Frailty**
  Daniel I. McIsaac, MD, MPH, FRCP

- **Biomarkers, Physiologic Changes, and Translational Research Findings in Perioperative Aging and Frailty**
  Manoj M. Lalu, MD, PhD, FRCP, Vice Chairman for Clinical Research and Faculty Development, Clinical Scholar, Department of Anesthesiology and Pain Medicine, The Ottawa Hospital; Associate Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Co-Chair Membership, eSAS

- **Postoperative Acute Care of Frail and High Risk Older Patients**
  Hannah M. Wunsch, MD, MSc, Associate Professor of Anesthesia, University of Toronto Faculty of Medicine; Senior Scientist, Critical Care Medicine, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

- **Rational and Evidence-Based Postoperative Pain Management in High Risk Older Patients**
  Faraj Abdallah, MD, MSc, Associate Professor, Anesthesia, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada; Assistant Editor, Anesthesia & Analgesia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify frailty as a key risk factor for adverse postoperative outcomes, including an understanding of underlying causal mechanisms; (2) Identify, choose, and assess frailty instruments appropriate for different clinical settings; (3) Identify existing evidence-based interventions that may improve the care and outcomes of frail and older patients in the perioperative setting; and (4) Identify how emerging scientific discoveries may translate into enhanced care of our older surgical population.

Subspecialty Key: CC, EEP, GA, NR, PA, PS
### RCL-05
Neurologic Complications Associated with Neuraxial Regional Anesthesia

**Presenter:** Joseph M. Neal, MD, Anesthesiology Faculty, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify factors that may predispose patients to neuraxial injury associated with a regional anesthetic; (2) Differentiate those conditions that demand immediate diagnosis and select the proper diagnostic modality; (3) Evaluate the controversial role of corticosteroids and cerebrospinal fluid (CSF) drainage as therapeutic intervention; and (4) Assess critically the emerging concerns over the possible contribution of spinal stenosis, blood pressure control, and pre-existing disease to these injuries.

**Subspecialty Key:** AP, BLD, NR, RA, PS

### PBLD-11
Perioperative Renal Replacement Therapy for the Anesthesiologist: Does It Make a Difference?

**Presenter:** Dragos M. Galusca, MD, FCCP, Division Head, Critical Care Anesthesia, Anesthesiology, Pain Management and Perioperative Medicine, Henry Ford Health System, Detroit, Michigan

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify the risk factors and etiology of renal injury for patients undergoing major (hepatic) surgery; (2) Discuss timing and indications for intraoperative renal replacement therapy in high-risk patient populations; (3) Review the different techniques of perioperative renal replacement therapies and their indications; and (4) Review evidence-based renal protective modalities in the perioperative period and their limitations.

**Subspecialty Key:** CC, L, PA

### PBLD-10
Getting to the Heart of the Matter: Perioperative Focused Cardiac and Pulmonary Ultrasound, and The Hemodynamically Unstable Patient

**Presenters:**
- Alexander S. Kuo, MD, Instructor in Anaesthesia, Harvard Medical School, Department of Anaesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts
- Abraham Sonny, MD, MBBS, Faculty, Department of Anesthesia, Critical Care and Pain Medicine, Harvard Medical School; Massachusetts General Hospital, Boston, Massachusetts

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss and apply the evidence for anesthesiologist-performed focus cardiac and pulmonary ultrasound in the preoperative setting; (2) Appraise and apply the information available from focus cardiac and pulmonary ultrasound in the intraoperative and postoperative care of a hemodynamically unstable patient; (3) Evaluate critically current evidence for using focus cardiac and pulmonary ultrasound in hemodynamic assessment during the perioperative period, and its limitations; and (4) Review the differential diagnosis and management of undifferentiated hypotension and shock in the perioperative setting.

**Subspecialty Key:** BLD, CA, CC, EEP, PA

This session is part of the Aligned Meeting Day and is open to AUA and SOCCA attendees as part of their registration fee for their Society Annual Meetings.

### Scholars’ Program
Scholar-06: Priorities for Developing Researchers: Perspectives from the NIH and IARS

**Moderator:** Julie K. Freed MD, PhD, Assistant Professor, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Co-Chair Events, eSAS

**Panelists:**
- **NIH Perspective**
  - Alison Cole, PhD, Branch Chief, Pharmacological and Physiological Sciences Branch, Division of Pharmacology, Physiology, and Biological Chemistry, National Institute of General Medical Sciences, Bethesda, Maryland

- **IARS Perspective**
  - Emery N. Brown, MD, PhD, Warren M. Zapol Professor of Anaesthesia, Harvard Medical School, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Edward Hood Taplin Professor of Medical Engineering, Institute for Medical Engineering and Science; Professor of Computational Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, Massachusetts; Treasurer, IARS

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss current NIH priorities for funding as well as opportunities for funding for early-stage investigators; (2) Assemble strategies for identifying important new research questions as a young faculty member; and (3) Discuss strategies for identifying funding opportunities for important new research questions.

**Subspecialty Key:** EEP

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.
Panel-08

Investigating, Conceptualizing and Addressing Health Care Disparity in Anesthesiology and Perioperative Medicine

Moderator: Michael H. Andreae, MD, Associate Professor, Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

Panelists:

- Who Is Responsible for Health Care Disparities in Anesthesia?
  Michael H. Andreae, MD

- Enhancing Academic Diversity to Address and Overcome Health Care Disparity
  J. Renee Navarro, PharmD, MD, Vice Chancellor, Diversity and Outreach, Professor of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

- Conceptualizing and Investigating Race in Health Care Disparities
  Jay S. Kaufman, PhD, Professor, Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Quebec, Canada

- Enforcing Fair Employment Practices in the Academic Setting
  Amos Jones, JD, Interim President and Chief Executive Officer, Hepatitis Foundation International, Washington, DC

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify and explain systemic and individual bias as mechanisms which can drive health care disparity in anesthetics and perioperative medicine; (2) Analyze and criticize discourse claiming a biological or genetic basis as an excuse to justifying health care disparity; (3) Compose research questions to demonstrate persistent cognitive and subconscious bias as mechanistic target to reduce underlying health care disparity; and (4) Appraise barriers to improved workforce diversity and identify the legal framework, including the Civil Rights Act, to enforce fair hiring and promotion practices.

Subspecialty Key: EEP, PA

Panel-09

Management of Patients with Pulmonary Hypertension

Moderator: Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor, Anesthesiology, Perioperative and Pain Medicine, Chair, Anesthesia Department, Member, Cardiovascular Institute, Stanford University School of Medicine, Stanford, California

Panelists:

- Intraoperative and Postoperative Management
  Ronald Pearl, MD, PhD

- Treatment of Right Ventricular Failure
  André Denault, MD, PhD, FRCPC, ABIM-CCM, FASE, FCCS, Professor of Anesthesiology and Pharmacology, University of Montreal Faculty of Medicine, Montreal, Quebec, Canada

- Mechanisms and Treatment of Chronic Pulmonary Hypertension
  Neil Goldenberg, MD, PhD, FRCPC, Clinical Fellow, Department of Anesthesia, The Hospital for Sick Children, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

- Preoperative Assessment of Pulmonary Hypertension
  Harish Ramakrishna, MD, Professor of Anesthesiology and Perioperative Medicine, Vice Chair of Research, Mayo Clinic College of Medicine and Science, Scottsdale, Arizona

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the treatment options for patients with chronic pulmonary hypertension; (2) Analyze the risks and benefits of surgery in patients with pulmonary hypertension; (3) Formulate an anesthetic plan for patients with pulmonary hypertension; and (4) Assess how best to treat the perioperative complications that may occur in patients with pulmonary hypertension.

Subspecialty Key: AP, AM, CA, CC, PA, PS, RES

The Chicago Theatre is more than a few plays, offering Broadway, dance, and symphony.
RCL-06

Heart Failure with Preserved Ejection Fraction (HFrEF) as a Perioperative Risk Factor

Presenter: Aalok K. Kacha, MD, PhD, Assistant Professor, Department of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify severe heart failure as a risk factor for overall mortality; (2) Describe the perioperative risks of heart failure with reduced ejection fraction vs. heart failure with preserved ejection fraction; (3) Interpret preoperative testing of cardiac function for patients with heart failure with preserved ejection fraction; and (4) Propose strategies for management of decompensated patients with heart failure with preserved ejection fraction.

Subspecialty Key: CA, CC, PA, PS

This session is part of the SOCCA Focus on Critical Care Day and is open to SOCCA attendees as part of their registration fee for their Society Annual Meeting.

Scholars’ Program

Scholar-07: From the Editor’s Desk: A No-Nonsense Guide to Successful Publications

Moderator: Jamie R. Privratsky, MD, PhD, Assistant Professor of Anesthesiology, Duke University Medical Center, Durham, North Carolina

Panelists:
- From the Editor’s Desk to Publication
  Hilary P. Grocott, MD, FRCPC, Adjunct Professor, Duke University School of Medicine, Professor, Department of Anesthesia and Perioperative Medicine, Professor, Department of Surgery, Director, Cardiac Anesthesia Fellowship Program, University of Manitoba Faculty of Medicine, Winnipeg, Manitoba, Canada; Editor-in-Chief, Canadian Journal of Anesthesia
- How to Successfully Publish in Anesthesia & Analgesia
  Kate Leslie, MD, Head of Research, Department of Anaesthesia and Pain Management, Royal Melbourne Hospital, University of Melbourne, Melbourne, Australia; Senior Editor, Anesthesia & Analgesia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how to design a study that will be published; (2) Review how to write a paper that maximizes the impact of your research; and (3) Discuss how to deal with the editorial and review process.

Subspecialty Key: EEP

This session is included in the registration fee for the Scholars’ Program. Space is limited and pre-registration is required.

IARS, AUA & SOCCA Alignment Reception

Take advantage of this networking opportunity to connect, collaborate, and join your colleagues and peers while visiting the Tabletop Exhibits at the Alignment Reception.

This event is part of the Aligned Meeting Day and available to AUA and SOCCA attendees complimentary as part of the registration fee for their Society Annual Meetings.

Build and expand your professional network and make the most of your Annual Meeting experience with the

IARS, AUA & SOCCA 2018 Mobile App!

Available for iPhone, iPad, Android and HTML5 for Blackberry

With the IARS, AUA & SOCCA 2018 Mobile App, you can network with your colleagues and peers, view the complete event schedule, explore sessions, and review detailed speaker information. Keep informed of the highlights of the day through the app’s Activity Feed, providing useful comments, photos, ratings, surveys and more!
Daily Schedule-at-a-Glance

6:00 am – 6:00 pm  Registration
7:30 am – 5:45 pm  Concurrent Sessions
  • Moderated Poster Discussion Sessions
  • Panels
  • Problem-Based Learning Discussions (PBLDs)
  • Review Course Lectures
9:30 am – 11:00 am  Kosaka Best of Meeting Abstract Awards Session
9:30 am – 12:00 pm  International Science Symposium: Designing Drugs: Transforming Anesthesiology Practice
2:00 pm – 5:00 pm  Workshop: Truncal Blocks Workshop: An Enhanced Recovery After Surgery (ERAS) Approach
3:30 pm – 6:00 pm  CAS Symposium: Social Accountability: How Can Anesthesiology Face the Challenge?
6:00 pm – 6:30 pm  Dine-Around Session 2
6:30 am – 4:00 pm  Tabletop Exhibits

7:30 am – 9:00 am  Panel-10
Understanding and Making Use of the Electroencephalogram During General Anesthesia

Moderator: Gerhard Schneider, MD, Faculty of Medicine, Anesthesiology, Technical University Munich School of Medicine; Klinikum rechts der Isar, Munich, Germany

Panelists:
- Making Use of EEG-derived Information to Safely Navigate a Patient through General Anesthesia
  Paul S. Garcia, MD, PhD, Assistant Professor, Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia
- (Paradoxical) EEG Changes after Noxious
  Jamie S. Sleigh, MBChB, MD, Professor, Anaesthesia, Waikato Hospital, Hamilton, Waikato, New Zealand
- From Molecular Actions of Anesthetics to Changes in the EEG
  Stephan A. Kratzer, MD, Anesthesiologist, Department of Anesthesiology, Technical University Munich School of Medicine, Klinikum rechts der Isar, Munich, Germany

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the basics of EEG generation and how (different) anesthetics influence neuronal activity that leads to the EEG patterns that can be seen in an anesthetized patient; (2) Assess how the recorded EEG is a very complex signal as are many of the tools used to extract information from it; (3) Describe basic (e.g., power spectrum, spectral coherence) as well as more sophisticated (e.g., different entropy measures) signal analysis techniques; (4) Appraise how signal analytical basics can help the clinician to identify an appropriate level of anesthesia as well as EEG signatures that are associated with adverse outcomes; (5) Discuss adequate pain management during anesthesia based on the EEG-based indices and how this is difficult due to paradoxical EEG changes to noxious stimuli; and (6) Explain how to read the EEG to detect these reactions to painful stimuli.

Subspecialty Key: NR, PME, PS, TCSEM

Subspecialty Key

AM  Airway Management  EEP  Economics, Education and Policy  OB  Obstetric Anesthesiology  RA  Regional Anesthesia
AMB  Ambulatory Anesthesia  GA  Geriatric Anesthesiology  PA  Perioperative Anesthesia  RES  Respiratory
AP  Anesthetic Pharmacology  GH  Global Health  PED  Pediatric Anesthesiology  SM  Sleep Medicine
BLD  Blood Management  L  Liver  PM  Pain Medicine  TCSEM  Technology, Computing and Simulation, Equipment Monitoring
CA  Cardiovascular Anesthesiology  NR  Neuroscience in Anesthesiology and Perioperative Medicine  PME  Pain Mechanisms  T  Trauma
CC  Critical Care  O  Obesity  PS  Patient Safety  

Preliminary schedule and sessions are as of press time and subject to change.
Panel-11

Physician Wellness in Hospital Medicine: Thriving, Not Simply Surviving

Moderator: Santhanam Suresh, MD, Arthur C. King
Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children’s Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

Panelists:

- Improving Physician Resilience: Personal Approaches to Wellness
  Gregory B. Hammer, MD, Professor of Anesthesiology and Pediatrics, Department of Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

- Physician Burnout: Defining the Problem, Its Causes, and Its Cures
  Susan E. Connolly, MD, Ophthalmologist, Physician Wellbeing Committee and Department of Ophthalmology, Palo Alto Medical Foundation, Palo Alto, California

- The Role of Culture for a Healthy Practice
  Jeffery S. Vender, MD, Clinical Professor, Anesthesiology, University of Chicago Medicine; Harris Family Foundation Chair Emeritus, NorthShore Medical Group, Evanston, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the manifestations, causes, and consequences of physician burnout; (2) Formulate institutional approaches to reduce burnout via improvements in culture and practice efficiencies; and (3) Identify individual approaches to improve resilience and job satisfaction.

Subspecialty Key: EEP, PA, PS

Panel-12

Universal Access and Safe Anesthesia: Global Anesthesia Workforce

Moderator: Davy C.H. Cheng, MD, MSc, FRCPS, FCAHS, CCPE, Medical Director, MEDICI Centre, Anesthesia & Perioperative Medicine, Western University; Chair, WFSA Scientific Affairs Distinguished University Professor and EPiCOR Research Chair, London, Ontario, Canada

Panelists:

- Migration and Workforce Planning in Anesthesiology
  Jannicke Mellin-Olsen, MD, DPH, Consultant Anesthesiologist, Department of Anaesthesia and Intensive Care Medicine, Baerum Hospital, Baerum, Norway; President-Elect, WFSA

- The Global Anesthesia Workforce and The WFSA Workforce Map
  Wayne Morriss, MBChB (Otago), Dip Obst (Otago), FANZCA, Clinical Senior Lecturer, Anaesthesia, Otago Medical School, University of Otago; Consultant Anaesthetist, Christchurch Hospital, Christchurch, New Zealand; Director of Programmes, WFSA

- WFSA Fellowship Programs: Training of Teachers and Leaders
  Miodrag Milenovic, MD, PhD, Assistant Professor, Department of Anaesthesiology, University of Belgrade School of Medicine, Clinical Center of Serbia, Belgrade, Serbia; Chair, Education Committee, WFSA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the United Nations Sustainable Development Goals and describe the global anesthesia human resources workforce and the workforce map; (2) Discuss the complexity regarding mechanisms related to migration and workforce planning in anaesthesiology at the global level; and (3) Appraise the joint efforts of the WFSA and other stakeholders in the creation of critical mass of teachers and leaders, capable to generate changes and to strengthen the global capacity to deliver safe anaesthesia and effective pain relief in Low and Middle Income Countries (LMIC).

Subspecialty Key: EEP, GH, PS

Downtown Chicago provides a unique opportunity for anyone interested in bridges. In just two miles, you will find eighteen movable bridges.
**RCL-07**

**Airway Management of the Obstetric Patient: What’s New?**

**Presenter:** Sonia Vaida, MD, Professor of Anesthesiology, Obstetrics and Gynecology, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Formulate a plan for airway management for cesarean delivery; (2) Describe the role of supraglottic airway devices in the obstetric airway; (3) Discuss advantages and disadvantages of video laryngoscopy in obstetric anesthesia; and (4) Formulate a plan to exchange a supraglottic airway device with an endotracheal tube.

Subspecialty Key: AM, OB, RES, TCSEM

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**PBLD-13**

**Ventricular Assist Devices: Anesthetic Management of Patients Presenting for Noncardiac Procedures**

**Presenter:** Peter Von Homeyer, MD, FASE, Associate Professor of Anesthesiology and Surgery, University of Washington Medicine, Seattle, Washington

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review the basic principles of mechanical circulatory support; (2) Describe the various support options and implications for clinical management; and (3) Summarize the important perioperative challenges in these patients (e.g., right heart dysfunction, anticoagulation).

Subspecialty Key: BLD, CA, PA, TCSEM

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**PBLD-12**

**A New Research Ethical Paradigm for Health Services Research and Cluster Randomized Trials**

**Presenter:** Michael H. Andreae, MD, Associate Professor, Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe motivation and study designs of pragmatic and cluster randomized clinical trials for contemporary health systems research in perioperative medicine; (2) Assess ethical concerns arising in the conduct of cluster randomized trials and clinical health services research and explain how the underlying ethical principles are evolving; (3) Propose safeguards and study design modifications to mitigate these ethical concerns and evaluate their feasibility in the perioperative setting; and (4) Debate, compare and contrast the conflicting ethical principles and potential conflict of interests for investigators, gatekeepers and regulators arising in the conduct of cluster randomized trials and health services research.

Subspecialty Key: EEP, PA, PS, TCSEM

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**RCL-08**

**LVADs & Noncardiac Surgery: What To Do When They Come to Your OR**

**Presenter:** David W. Barbara, MD, Assistant Professor, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the increasing incidence of and reasons for LVAD patients presenting for noncardiac surgery; (2) Identify LVAD console parameters and construct a framework to manage intraoperative hemodynamic perturbations based on these parameters; (3) Apply current evidence and expert opinion regarding optimal intraoperative hemodynamic monitoring for LVAD patients undergoing noncardiac surgery; and (4) Formulate an understanding of perioperative anticoagulation management for LVAD patients undergoing noncardiac surgery.

Subspecialty Key: BLD, CA, CC, PA, PS
9:30 am – 10:30 am

PBLD-14

Anesthetic Considerations in Blast Injury

Presenter: Andrew Milne, MBChB, FRCA, DMCC, Anaesthetics Registrar, Anaesthesia, Central London School of Anaesthetics, London, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define the different forms of blast injury; (2) Define the anesthesiologist's role in secondary triage; (3) Identify key considerations in the perioperative and critical care management of blast victims; and (4) Identify and effectively manage blast lung and other challenges presented by these patients.

Subspecialty Key: AM, CC, GH, RES, T

9:30 am – 11:00 am

Kosaka Best of Meeting Abstract Awards Session

The top 30 abstract authors submitted in Clinical Research, Basic Science or by a scholar will be selected, by an expert panel of reviewers, to display their physical posters for viewing and discussion during the Kosaka Best of Meeting Abstract Awards Session.

The top 9 finalists (3 from Clinical Research, 3 from Basic Science, and 3 authors who are scholars) will be selected to present their original research orally during this session. These top 9 finalists will also compete for the top award in their area and a $500 prize in each category.

Moderator: Beverley A. Orser, MD, PhD, FRCPC, Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

Judges:

Keith A. (Tony) Jones, MD, Alfred Habeeb Professor of Anesthesiology and Perioperative Medicine, Chief Physician Executive, The University of Alabama at Birmingham Health System, Birmingham, Alabama; Trustee, IARS

Makoto Ozaki, MD, PhD, Professor, Department of Anesthesiology, Tokyo Women’s Medical University, Tokyo, Japan; Secretary, IARS

Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children’s Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

The Kosaka Best of Meeting Abstract Awards Session is supported by the Japan Society for Clinical Anesthesia (JSCA) and the International Anesthesia Research Society (IARS).

Subspecialty Key: EEP
The concept of specific ligands acting on receptor subtypes (full or partial agonists or antagonists) to modulate a second messenger signaling system is a fundamental principle of traditional pharmacology. It is now known that some ligands can bind to a specific site on a single receptor isoform to activate two different signaling pathways; various ligands for these sites can be biased signaling agents because they activate one signaling pathway in preference to the other. During this symposium, participants will discover this novel but fundamental concept in pharmacology with emphasis on opioids and implications for the future clinical use of narcotic agents.

Moderator:
Alex S. Evers, MD, Henry E. Mallinckrodt Professor, Anesthesiology, Head, Department of Anesthesiology, Professor, Internal Medicine and Developmental Biology, Washington University School of Medicine in St. Louis, St. Louis, Missouri; Trustee, IARS

Panelists:
General Principles of Biased Signaling with Cannabinoid and Kappa-Opioid Receptors
Laura M. Bohn, PhD, Professor, Department of Molecular Medicine and Neuroscience, The Scripps Research Institute, Jupiter, Florida

Biased Signaling and the Opioid Receptor
Aashish Manglik, MD, PhD, Assistant Professor, Department of Pharmaceutical Chemistry, University of California, San Francisco School of Medicine; Affiliate, Molecular and Cellular Physiology, Instructor, Molecular and Cellular Physiology Department, Stanford University School of Medicine, Stanford, California

Clinical Application of Biased Signaling Opioids
Eugene R. Viscusi, MD, Professor, Pain Management, and Director, Acute Pain Management, Thomas Jefferson University, Director, Acute Pain Management, Physician, Jefferson University Hospitals, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania

Will Anesthetic Drug Design Change The Way We Do Business?
Alex S. Evers, MD

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate how G protein-coupled receptors function in an endogenous setting to control physiologically relevant processes; (2) Discuss general principles of biased signaling with Cannabinoid and Kappa-Opioid receptors; (3) Discuss the concept of biased agonism and its potential for pharmacological targeting of G-protein-coupled receptors; (4) Describe structure-based drug discovery and its role in modern drug development; (5) Discuss mechanism of anesthetic action for anesthetic neurosteroids in pain management; (6) Review the clinical application of biased signaling opioids; and (7) Examine how this novel but fundamental concept in pharmacology, with emphasis on opioids, may affect future clinical use of narcotic agents.

Subspecialty Key: AP, CA, EEP
Workshop-03
Truncal Blocks Workshop: An Enhanced Recovery After Surgery (ERAS) Approach
This truncal blocks workshop focuses on hands-on ultrasound-guided truncal blocks, including rectus sheath, transversus abdominis (TAP), quadratus lumborum (QL), paravertebral, iliouinguinal and iliohypogastric, PECS 1 and PECS 2 (serratus plane) blocks. Participants will acquire a thorough knowledge of imaging, innervation, surface anatomy, and needling techniques. In addition, participants will discover the indications for these specialized blocks.

Workshop Leader: Christina L. Jeng, MD, Assistant Professor, Anesthesiology, Perioperative and Pain Medicine, Assistant Professor, Orthopaedics, Director of the Regional Anesthesiology Fellowship, Assistant Program Director for Clinical Competence, Resident Training Program, Icahn School of Medicine at Mount Sinai, Mount Sinai Queens, The Mount Sinai Hospital, New York, New York

Presenters:
- Elisha J. Dickstein, MD, Assistant Professor, Anesthesiology, Icahn School of Medicine at Mount Sinai, Mount Sinai Queens, The Mount Sinai Hospital, New York, New York
- Jordan F. Wicker, MD, Assistant Professor, Anesthesiology, Perioperative and Pain Medicine, Icahn School of Medicine at Mount Sinai; The Mount Sinai Hospital; Mount Sinai St. Luke’s; Mount Sinai West; New York, New York
- Nadia Hernandez, MD, Assistant Professor, Department of Anesthesiology, McGovern School of Medicine at the University of Texas Health Science Center, Houston, Texas
- Yan Lai, MD, FASA, MPH, Assistant Professor, Department of Anesthesiology, Perioperative, and Pain Medicine, Icahn School of Medicine at Mount Sinai, Mount Sinai West & St. Luke’s Hospitals, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Demonstrate competence to perform ultrasound-guided regional anesthesia procedures; (2) Demonstrate proper transducer manipulation and system optimization to produce diagnostic images; (3) Identify and differentiate the topographic and cross-sectional anatomy; (4) Demonstrate imaging techniques for performing ultrasound-guided truncal blocks on live models; (5) Identify how to incorporate protocols, scan techniques, and interpretation criteria to integrate the skills learned into clinical practice; and (6) Identify those surgical patients whose recovery/discharge could be better optimized by the incorporation of these blocks.

Panel-13
Increasing Diversity and Gender Equivalency in Your Department

Moderator: Jeanine P. Wiener-Kronish, MD, Chief of Anesthesia, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Professor of Anaesthesia, Harvard Medical School; President, AUA

Panelists:
- How Diverse Are Anesthesia Programs and Departments? J. Renee Navarro, PharmD, MD, Professor of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California
- How Diverse are Medical Schools and Other Fields? William “Bill” McDade, MD, PhD, Executive Vice President and Chief Academic Officer, Ochsner Health System, New Orleans, Louisiana
- What Can We Do to improve Diversity in Medicine and Science? Chiquita A. Collins, PhD, Vice Dean for Inclusion and Diversity; Chief Diversity Officer, Office of the Dean; Associate Professor, Department of Epidemiology and Biostatistics, UT Health San Antonio, Joe R. & Teresa Lozano Long School of Medicine, San Antonio, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify ways to increase diversity in medical school classes; (2) Formulate ways to increase diversity in anesthesia residencies; (3) Identify ways to improve leadership training for women and under-represented minority candidates; and (4) Discuss how to teach cultural competency.

Affiliate Society Meetings
Tuesday, May 1
Stay Tuesday, May 1, and take advantage of the Affiliate Society Meetings offered that afternoon.

1:00 pm - 4:00 pm:
Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting
1:00 pm - 6:00 pm:
2nd Symposium of the Society for the Advancement of Transplant Anesthesia (SATA)

For more information, see page 68.
9:45 am – 11:15 am (continued)

Panel-14
Can Human Factors and Cognitive Science Make Medicine and Anesthesiology Safer?

Moderator: Anna Clebone, MD, Assistant Professor of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois

Panelists:
- Matching Cognitive Aid Design to the Way Anesthesiologists Approach Critical Events
  Anna Clebone, MD
- Is Every Intervention Always Good? The Unrecognized Hazards of Alarm Fatigue
  Keith Ruskin, MD, Professor of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois
- Cognitive Aid Creation and Implementation: More than a Tick-Box
  Barbara K. Burian, PhD, Research Psychologist, Human Systems Integration Division, NASA Ames Research Center, Moffett Field, California
- The Science of Error: Beyond the Individual
  Key Dismukes, PhD, Ames Associate/Consultant, Human Systems Integration Division, NASA Ames Research Center, Moffett Field, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Examine how our thinking about error has evolved from blaming the individual to using the science of human performance to examine the underlying causes of mistakes in anesthesiology and medicine; (2) Inspect the science behind alarms and alerts in anesthesiology, and how these can lead to alarm fatigue, as well as potential solutions; (3) Discuss the steps in the lifecycle of perioperative checklist development for anesthesiology including conception, determining content and design, testing and validation, induction, training and implementation, and revision; and (4) Examine ways to make anesthesia critical event checklist design meet specific clinical user needs within the anesthesia environment.

Subspecialty Key: EEP, PA, TCSEM

10:25 am – 11:10 am

RCL-09
Cerebrospinal Fluid Drainage Catheters in Endovascular and Open Aortic Surgery

Presenter: Maged Y. Argalious, MD, MSc, MBA, MEd, FASE, Professor and Vice Chair for Education, Anesthesiology Institute, Cleveland Clinic, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the indications of Cerebrospinal fluid (CSF) drainage catheters in endovascular and open aortic surgery; (2) Describe the safe steps in insertion and management of CSF drainage catheters; (3) Differentiate prophylactic from therapeutic CSF drainage; and (4) Identify CSF drainage catheter-related complications, including measures to prevent and manage these complications.

Subspecialty Key: BLD, CA, PA, PS

10:45 am – 11:45 am

PBLD-15
Modern Pain Management Concepts for Patients Undergoing Thoracic Surgery

Presenter: Peter Von Homeyer, MD, FASE, Associate Professor of Anesthesiology and Surgery, University of Washington Medicine, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss general principles of pain management after thoracic surgery; (2) Describe the different analgesic modalities and how they pertain to various thoracic surgical procedures; and (3) Interpret the literature and assess outcome data related to pain management after thoracic surgery.

Subspecialty Key: CA, PM, PME, PS

Subspecialty Key: EEP, PA, TCSEM

Preliminary schedule and sessions are as of press time and subject to change.
11:20 am – 12:05 pm

RCL-10

Neurological Complications of Cardiovascular Diseases

Presenter: Avinash B. Kumar, MD, FCCM, FCCP, Professor, Division of Anesthesiology Critical Care Medicine and Neurology, Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objectives: After participating in this activity, the learner will be able to: (1) Examine the diagnostic approach to a cardiac surgical patient who does not “wake up” after successful cardiac surgery; (2) Distinguish how to diagnose and manage infectious central nervous system (CNS) complications in the patient with cardiovascular disease; and (3) Discuss the diagnosis and management of cardiovascular complications and sequelae of primary neurological illness.

Subspecialty Key: CA, CC, NR

11:30 am – 1:00 pm

Panel-15

Anesthesiologists within the U.S. Veterans Health Administration: Contributions to Anesthesia and Perioperative Medicine

Moderator: Jonathan Mark, MD, Professor of Anesthesiology, Duke University School of Medicine; Durham Veterans Affairs Medical Center, Durham, North Carolina

Panelists:

- Perioperative Surgical Home
  Edward R. Mariano, MD, MAS, Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine; Stanford, California; Chief, Anesthesiology and Perioperative Care Service, and Associate Chief of Staff, Inpatient Surgical Services, Veterans Affairs Palo Alto Health Care System, Palo Alto, California

- Perioperative Beta-Blockade
  Arthur R. Wallace, MD, PhD, Professor, Anesthesiology, University of California, San Francisco School of Medicine, San Francisco, California

- Perioperative Opioid Use
  Karthik Raghunathan, MD, MPH, Associate Professor, Department of Anesthesiology, Duke University School of Medicine; Durham Veterans Affairs Medical Center, Durham, North Carolina

Learner Objectives: After participating in this activity, the learner will be able to: (1) Design a Cardiac Risk Reduction program for a medical center; (2) Identify the components of a successful Perioperative Surgical Home; (3) Formulate and evaluate a program to reduce the prolonged use of opioids following surgery; and (4) Contrast anesthesia practices in Veterans Affairs and non-Veterans Affairs health systems.

Subspecialty Key: AP, CA, EEP, PA, PM, PS

Register Early and Save!

Online registration now open!

Register by Thursday, February 22, 2018, and take advantage of early registration rates.

Join us in Chicago, Illinois, this April!

For more details on the program and how to register, visit bit.ly/IARSreg.

Tabletop Exhibits Area

Be sure to visit the Tabletop Exhibits, Saturday, April 28 through Monday, April 30. Plus, attend the Alignment Reception on Saturday, April 28, from 6:00 pm – 7:30 pm.

Tabletop Exhibit Hours:

Saturday, April 28 .............. 6:30 am – 4:00 pm
Alignment Reception .......... 6:00 pm – 7:30 pm
Sunday, April 29 ............... 6:30 am – 4:00 pm
Monday, April 30 .............. 6:30 am – 9:30 am
11:30 am – 1:00 pm (continued)

Panel-16

**Neurotoxicity in Children Exposed to Anesthesia**

**Moderator:** Santhanam Suresh, MD, Arthur C. King Professor and Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children’s Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Trustee and Journal Liaison, IARS

**Panelists:**
- **The Developing Brain Under Anesthesia: Oscillations, Neural Circuits, and Critical Period Plasticity**
  **Patrick L. Purdon, PhD,** Nathaniel M. Sims Endowed Scholar in Anesthesia Innovation and Bioengineering, Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital; Associate Professor, Anesthesia, Harvard Medical School, Boston, Massachusetts

- **Preclinical Data: Is This Always Reproducible?**
  **Beverley A. Orser, MD, PhD, FRCPC,** Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

- **The MASK Study: What Does It Tell Us?**
  **David O. Warner, MD,** Professor of Anesthesiology, Consultant, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review basic neural circuit mechanisms of anesthetic drugs, and how they relate to the electroencephalogram (EEG); (2) Examine age-dependent changes in the anesthesia-induced EEG in children, and how this activity relates to brain development; (3) Examine how anesthesia-induced brain activity differs in infants, and what this can tell us about early childhood development; (4) Discuss the basic neurobiology of critical period plasticity in early childhood development, and how it relates to anesthetic mechanisms; (5) Describe the major findings of the Mayo Anesthesia Safety in Kids (MASK) study; and (6) Compare how the MASK study results relate to prior preclinical and clinical research studies of anesthesia neurotoxicity.

**Subspecialty Key:** PED, PS

Panel-17

**Innovations in Anesthesiology Resident Education**

**Moderator:** Julia B. Sobol, MD, Assistant Professor of Anesthesiology, Program Director for the International Anesthesiology Fellowship, Anesthesiology PGY1 Program Director, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

**Panelists:**
- **Overview of Educational Resources for Graduate Medical Education**
  **Julia B. Sobol, MD**

- **Gaming and Virtual Reality Simulation in Graduate Medical Education**
  **Robert Maniker, MD,** Assistant Professor, Anesthesiology, Division of Regional Anesthesia and Pain Medicine, Columbia University Medical Center, New York, New York

- **Simulation in Graduate Medical Education**
  **Presenter to be Announced**

- **Blended and Social Learning in Graduate Medical Education**
  **Glenn Woodworth, MD,** Associate Professor and Director of Regional Anesthesia, Program Director, Regional Anesthesiology Fellowship, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss adult educational theory and new educational modalities; (2) Compare and contrast blended and social learning in graduate medical education; (3) Appraise simulation as an educational tool for trainees; and (4) Examine gaming and virtual reality simulation as other tools for teaching residents.

**Subspecialty Key:** EEP, TCSEM

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The Buckingham Fountain, dedicated in 1927 and located in Grant Park, is one of the largest fountains in the world.
12:15 pm – 1:00 pm

**RCL-11**


**Presenter:** Elizabeth Watson Duggan, MD, Division Chief, General and Transplant Anesthesiology, Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the impact of long-term and short-term glycemic control in various surgical populations; (2) Identify patient characteristics associated with perioperative hyperglycemia as a means to risk stratify surgical candidates; and (3) Interpret recommended blood glucose targets and discern the risks/benefits of the various hypoglycemic treatment options.

**Subspecialty Key:** AMB, O, PA, PS

2:00 pm – 2:45 pm

**RCL-12**

**Perioperative Venous Thromboembolism: A Review**

**Presenter:** Ronald Gordon, MD, PhD, Assistant Clinical Professor of Anesthesiology, University of California, San Diego School of Medicine, San Diego, California

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Assess the enormous magnitude of the problem of perioperative venous thromboembolism (VTE) and its effect on health care costs; (2) Identify the basic pathophysiology of deep vein thrombosis and pulmonary embolism; (3) Discuss the key role anesthesiologists can play in its prevention; (4) Demonstrate two interventions that can immediately be introduced into practice at no cost to reduce the incidence of VTE; and (5) Identify the role of genomics in predicting VTE risk.

**Subspecialty Key:** AM, BLD, EEP, PS

2:00 pm – 3:00 pm

**PBLD-16**

**How Should I Manage My Patient’s Regional Anesthesia Associated with Neurologic Complication?**

**Presenter:** Joseph M. Neal, MD, Anesthesiology Faculty, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify factors that may predispose patients to neurologic injury; (2) Differentiate those conditions that demand immediate diagnosis and therapeutic intervention; and (3) Demonstrate knowledge of those factors that may predispose patients to neurologic injury.

**Subspecialty Key:** AMB, NR, PA, PS, RA

2:00 pm – 3:30 pm

**Panel-18**

**Updates to Perioperative Outcomes Research: So Far We’ve Come, So Far to Go**

**Moderator:** Michael R. Mathis, MD, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan; Co-Chair Events, eSAS

**Panelists:**

- **Maintaining Perioperative Database Integrity: An Approach by the Multicenter Perioperative Outcomes Group (MPOG)**
  **Michael R. Mathis, MD**

- **Validation of Medicare Data as Applied to Intensive Care and Mechanical Ventilation**
  **Hannah M. Wunsch, MD, MSc,** Associate Professor of Anesthesia, University of Toronto Faculty of Medicine; Senior Scientist, Critical Care Medicine, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

- **Modeling Patient Trajectories in Perioperative Medicine Using Regular Patient Data**
  **Linda Peelen, PhD,** Assistant Professor of Epidemiology, Department of Anesthesiology, Intensive Care and Emergency Medicine, University Medical Center Utrecht, Utrecht, Netherlands

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the limitations of previous perioperative database research, and demands imposed for improving data quality; (2) Discuss the continued importance of high-quality perioperative outcomes studies, and their role in shaping the anesthesia research landscape; and (3) Identify specific methods anesthesiologist clinician-investigators can use to successfully navigate pitfalls encumbering previous outcomes database analyses, to generate new and improved generation of perioperative outcomes research.

**Subspecialty Key:** CC, PA, TCSEM
Panel-19

Health Care Quality Infrastructure: Too Much Stick, Not Enough Carrot

Moderator: Mark E. Nunnally, MD, FCCM, Director, Adult Critical Care Services, Anesthesiology, New York University Langone Medical Center, New York, New York

Panelists:

- The Social Construction of Medicine
  Michael O’Connor, MD, Professor of Anesthesia and Critical Care, Section Head, Critical Care Medicine, Course Director, Vignettes in Physiology, Critical Care Flow, Director, Adult ICUs, The University of Chicago Medicine, Chicago, Illinois

- Metrics: Guiding or Gaming?
  Avery Tung, MD, FCCM, Professor of Anesthesia and Critical Care, Quality Chief for Anesthesia, The University of Chicago Medicine, Chicago, Illinois; President, SOCCA; Executive Section Editor, Critical Care and Resuscitation, Anesthesia & Analgesia

- Evidence-Based Medicine is Evidence of What?
  Brian Kavanagh, MD, MB, BSc, MRCP(I), FRCP(C), FFARCS(I) Hons, Staff Physician, Critical Care Medicine, The Hospital for Sick Children, Senior Scientist, Translational Medicine, Research Institute, Professor, Department of Anesthesia, Dr. Geoffrey Barker Chair in Critical Care Medicine, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the meaning and consequences of social constructions in complex systems; (2) Discuss how social constructions change and control medical care; and (3) Review the social potential of several common practice processes.

Panel-20

Meet the Editors

Moderators:

Jean-Francois Pittet, MD, David Hill Chestnut Endowed Professor of Anesthesiology and Perioperative Medicine, Director, Organ Injury and Trauma Research, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, Anesthesia & Analgesia and A&A Practice

Thomas R. Vetter, MD, MPH, Director of Perioperative Care, Professor, Surgery and Perioperative Care, Population Health, Dell Medical School at the University of Texas at Austin, Austin, Texas; Deputy Editor-in-Chief, Anesthesia & Analgesia and A&A Practice

Please join Drs. Pittet and Vetter, as well as several of the Journal’s Executive Section Editors, for an informal and collegial dialogue about ongoing changes to and the future direction of Anesthesia & Analgesia and A&A Practice.

Potential authors and peer reviewers are especially encouraged to attend.

Note: This session is open to all attendees. CME is not offered for this session.

The IARS Board of Trustees and the Annual Meeting Oversight Committee acknowledge with thanks the 2018 Session Proposal Review Panel Committee Members.

The Session Proposal Review Panel Committee Members played a critical role in selecting session proposals for presentation at the IARS 2018 Annual Meeting and International Science Symposium. This year, 277 total sessions were submitted and reviewed including 107 Panels, 63 Problem-Based Learning Discussions, 83 Review Course Lectures, 9 Symposia, and 15 Workshop sessions.

The Committee Members’ valuable perspectives and experience help develop IARS educational content which advances anesthesia education and research, and continues to improve care for our patients.
Workshop-04
Teaching Anesthesia Teams to Perform After Action Reviews: Lessons Learned from Aviation and Health Care

In intense, high-risk medical domains, such as anesthesia, improving patient safety is a major concern. Although widely used in simulation-based trainings (SBT) and studied in the context of simulation, debriefings are underutilized and understudied in clinical practice. The leaders in aviation and health care will provide important lessons to apply simulation-based debriefings methods to clinical practice, showcasing a promising lens for examining work in high-risk domains.

Workshop Leader: Bastian Grande, MD, Consultant Anesthesiologist, Simulation Center, Teaching Models, University Hospital Zurich, Institute of Anesthesiology, Zurich, Switzerland

Presenters:
- Dieter Eppler, Captain, Swiss International Airlines, Deputy Head of Training 3rd Party, Lufthansa Aviation Training, Zurich, Switzerland
- Michael Hanusch, MD, Doctoral Student, Anaesthesiology, University Hospital Zurich, Zurich, Switzerland
- Adrian Marty, MD, Clinical Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California
- Julia Seelandt, PhD, Psychologist, Simulation Center, University Hospital Zurich, Zurich, Switzerland
- Michaela Kolbe, PhD, Director of Research and Development, Simulation Center, University Hospital Zurich, Zurich, Switzerland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the core elements of simulation-based trainings (SBT), and how the use of debriefing is not limited to the simulated setting; (2) Describe how debriefings offer multiple learning possibilities for ACTs; (3) Assess how learning and performance of ACTs will be effectively enhanced by structured debriefings in clinical practice which could provide a cost-effective and potentially powerful learning infrastructure; (4) Discuss how ACT debriefings have to be embedded in organizational learning, set up, and conducted to provide an effective yet feasible and low-threshold learning tool for ACTs; and (5) Identify what health care providers need in order to learn and apply debriefing techniques during clinical practice and how faculty development programs can be targeted most usefully.

PBLD-17
Anesthesia for Acute Stroke: Updates in Management

Presenter: Shobana Rajan, MD, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic, Cleveland, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Formulate a plan of anesthesia (general versus monitored anesthesia care); (2) Recall the drugs that could be used for monitored anesthesia care and the rationale for its use; (3) Apply the current updates to their practice based on review of the current literature; (4) Recall the consensus guidelines from the Society of Neuroscience in Anesthesiology and Critical Care (SNACC) for the management of patients with acute stroke; (5) Describe the hemodynamic management before, during and after recanalization; (6) List the neuroprotective strategies available in literature in ischemic stroke; and (7) List the intraprocedural complications and understand its management.

RCL-13
The Practicalities of Delivering Massive Transfusions in Trauma Resuscitation

Presenter: Andrew Milne, MBChB, FRCA, DMCC, Anaesthetics Registrar, Anaesthesia, Central London School of Anaesthetics, London, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Compare different intravenous catheters and access sites; (2) Discuss the function of rapid infusion devices; (3) Evaluate key targets in hemostatic resuscitation; (4) Apply point-of-care tests to guide resuscitation; and (5) Describe key non-technical skills vital to effective delivery of massive transfusion resuscitations.
**Symposium-03**

**Social Accountability: How Can Anesthesiology Face the Challenge?**

**Introduction:** Beverley A. Orser, MD, PhD, FRCPC, Professor, Department of Anesthesia and Physiology, and Chair, Department of Anesthesia, University of Toronto Faculty of Medicine; Scientist, Sunnybrook Research Institute; Director of Research, Department of Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; Trustee, IARS

**Moderator:** Susan S. O’Leary, MD, Associate Professor Faculty of Health Sciences, Anesthesiology, McMaster University; Hamilton Health Sciences, Hamilton, Ontario, Canada

**Presenters:**
- **Report on Rural Health Services in Canada**
  Ruth Wilson, MD, MSc, CCFP, FCFP, Professor, Department of Anesthesiology and Critical Care Medicine, Queen’s University, Kingston, Ontario, Canada; Chair, Institute for Safe Medicine Practice (Canada); President, North American Region, World Organization of Family Doctors (WONCA)
- **Anesthesia in Rural Australia**
  Brian Spain, MBBS, FANZCA, Co-Director, Department of Anaesthesia and Perioperative Medicine, Division of Surgery and Critical Care, Royal Darwin Hospital, Darwin, Australia
- **Health Care in First Nations and Inuit Peoples**
  Alika Lafontaine, MD, Assistant Clinical Professor, Department of Anesthesiology, First Nations University of Canada, Grand Prairie, Alberta, Canada
- **Generalist Anesthesiologists and Enhanced Skill Training**
  Stuart Iglesias, MD, Lead Enhanced Surgical Skills, Rural Coordination Centre British Columbia, Bella Bella, British Columbia, Canada
- **Improving Rural Access to Anesthesia Care in the United States**
  Pavithra Ranganathan, MD, Associate Professor, Anesthesiology, West Virginia University, Morgantown, West Virginia; Incoming Chair, ASA Committee on Rural Access to Anesthesia Care

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the delivery of anesthesia services in rural and indigenous communities in Canada and Australia; (2) Identify the challenges of providing anesthesia care in rural and indigenous communities; (3) Review potential solutions to improve anesthesia service delivery in these communities; and (4) Compare and contrast the differences between your practice and that of colleagues in remote and indigenous communities.

**Subspecialty Key:** CC, EEP, GH, PS

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**RCL-14**

**Enhanced Recovery Program: Key Components, Implementation and Outcomes**

**Presenter:** Tong Joo (TJ) Gan, MD, MHS, FRCA, MBA, Professor and Chairman, Department of Anesthesiology, Stony Brook University School of Medicine, Stony Brook, New York; Founding President, ASER

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the changing health care landscape and the importance of increasing the value proposition; (2) List the key components of the enhanced recovery protocol (ERP); (3) Demonstrate the outcomes of the enhanced recovery strategy; and (4) Identify barriers and share tips for successful implementation of the ERP.

**Subspecialty Key:** EEP, PA, PS, TCSEM

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**PBLD-18**

**Acute Pulmonary Hypertensive Crisis: Integrating Old and New Hemodynamic Monitoring at the Bedside**

**Presenter:** Kathleen Tyson, MD, Assistant Professor, Anesthesiology, Lewis Katz School of Medicine at Temple University Hospital, Philadelphia, Pennsylvania

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the signs and symptoms of acute pulmonary hypertensive crisis; (2) Assess the degree of pulmonary hypertensive decompensation with interval 2D POC echocardiography imaging; (3) Discuss the integration of pulmonary artery catheter data to confirm diagnosis; (4) Review pulmonary vasodilator therapy dosing and safe routes of administration; (5) Discuss the vasopressor and inotropic management options and approach; and (6) Identify other organ system goals of therapy including ventilator management, fluid balance goals, and blood product administration.

**Subspecialty Key:** BLD, CA, CC, PS, TCSEM
4:00 pm – 5:00 pm (continued)

**PBLD-19**

The Difficult Airway in Obstetrics

**Presenter:** Mohammad El-Orbany, MD, Professor of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the physiological changes associated with pregnancy and their impact on airway anatomy, functional residual capacity, and gastric emptying time; (2) Formulate a plan for assessing and preparing the patient for general anesthesia in the short time available between the decision to operate and induction; (3) Formulate a plan to follow in case of inability to visualize the vocal cords; (4) Discuss the different options and devices that can be used in case of tracheal intubation failure after induction; and (5) Discuss the issue of fetal versus mother wellbeing in case of persistent inability to establish the airway.

**Subspecialty Key:** AM, OB, PED, RES

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4:00 pm – 5:30 pm

**Panel-21**

50 Years of ARDS: An Update

**Moderator:** Michael H. Wall, MD, FCCM, J.J. Buckley Professor and Chair, Department of Anesthesiology, University of Minnesota Medical School, Chief of Anesthesiology, University of Minnesota Twin Cities, Fellow (FCCM), American College of Critical Care Medicine, Minneapolis, Minnesota

**Panelists:**
- **Can We Really Prevent ARDS?**
  Avery Tung, MD, FCCM, Professor of Anesthesia and Critical Care, Quality Chief for Anesthesia, The University of Chicago Medicine, Chicago, Illinois; President, SOCCA; Executive Section Editor, Critical Care and Resuscitation, Anesthesia & Analgesia

- **Spontaneous Breathing in ARDS**
  Brian Kavanagh, MD, MB, BSc, MRCP(I), FRCP(C), FFARCS(I) Hons, Staff Physician, Critical Care Medicine, The Hospital for Sick Children, Senior Scientist, Translational Medicine, Research Institute, Professor, Department of Anesthesia, Dr. Geoffrey Barker Chair in Critical Care Medicine, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

- **Recent Trends in Mechanical Ventilation for ARDS**
  Daniel S. Talmor, MD, MPH, Professor and Chief, Anesthesia, Pain Medicine and Critical Care, Beth Israel Deaconess Medical Center, Boston, Massachusetts

- **Changing the Outcomes in ARDS: Proning and Paralysis**
  Kunal Karamchandani, MD, FCCP, Assistant Professor, Anesthesiology and Perioperative Medicine, College of Medicine, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify the potential strategies to prevent ARDS; (2) Analyze the role of spontaneous breathing in patients with ARDS; (3) Identify the recent developments in mechanical ventilation for patients with ARDS; and (4) Describe the strategies that can improve mortality in patients with ARDS.

**Subspecialty Key:** AM, CC, PS

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**Sign-Up for Dine-Arounds!**

Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

Locations, restaurant cuisines and price points will be provided closer to the meeting. Sign-up today when registering and make sure you secure one of the limited spaces!

**Friday, April 27, 7:30 pm - 9:00 pm:**
Dine-Around Session 1

**Sunday, April 29, 6:30 pm - 8:00 pm:**
Dine-Around Session 2

Space is limited and pre-registration is required. Attendees may attend both sessions if space is available. Locations will be provided by IARS. Dining costs are the responsibility of attendees.

This is a bonus session for the SOCCA Focus on Critical Care education program and is offered complimentary to SOCCA attendees as part of their registration fee for their Society Annual Meeting.
Panel-22

Ketamine for Acute Pain, Chronic Pain, and Psychiatric Disorders: An Evidence-Based Review of Efficacy, Safety, and Logistics

Moderator: Steven Porter, MD, Assistant Professor, Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Jacksonville, Florida; Program Director, Regional Anesthesia and Acute Pain Medicine Fellowship

Panelists:
- Ketamine for Psychiatric Disorders: An Evidence-Based Review
  Steven Porter, MD

- Ketamine for Acute Pain: An Evidence-Based Review of Efficacy and Safety
  Eric S. Schwenk, MD, Associate Professor, Anesthesiology, Director, Orthopedic Anesthesia, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania

- Ketamine for Chronic Pain: Efficacy and Logistics
  Eugene R. Viscusi, MD, Professor, Pain Management, and Director, Acute Pain Management, Thomas Jefferson University; Physician, Jefferson University Hospitals, Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply an evidence-based rationale dosing strategy for perioperative ketamine for acute pain; (2) Create perioperative order sets to administer ketamine on the hospital ward; (3) Discuss the safety and side effect profile of ketamine infusions in the hospital setting; and (4) Identify the psychiatric patient populations who may benefit from perioperative ketamine.

Panel-23

Interpreting and Applying Systematic Reviews in Perioperative Medicine

Moderator: Manoj M. Lalu, MD, PhD, FRCPC, Vice Chairman for Clinical Research and Faculty Development, Clinical Scholar, Department of Anesthesiology and Pain Medicine, The Ottawa Hospital; Associate Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada; Co-Chair Membership, eSAS

Panelists:
- Emerging Applications for Systematic Reviews (Knowledge Synthesis to Better Understand Basic Science/Preclinical Data)
  Manoj M. Lalu, MD, PhD, FRCPC

- Interpreting Systematic Reviews and Applying Them to Your Clinical Practice
  Daniel I. McIsaac, MD, MPH, FRCPC, Assistant Professor, Junior Research Chair in Perioperative Health Systems and Outcomes Research, Department of Anesthesiology and Pain Medicine, University of Ottawa Faculty of Medicine, Associate Scientist, Ottawa Hospital Research Institute, Staff Anesthesiologist, The Ottawa Hospital; Health Systems Planning and Evaluation Fellow, Institute for Clinical Evaluative Sciences (ICES), Ottawa, Ontario, Canada

- Performing Knowledge Synthesis to Support Your Perioperative Clinical Trial
  W. Scott Beattie, MD, PhD, FRCPC, Professor, Department of Anesthesiology, University of Toronto Faculty of Medicine, Staff Anesthesiologist, Toronto General Hospital; Adjunct Scientist, The Institute for Clinical Evaluative Sciences, Toronto, Ontario, Canada; Associate Editor-in-Chief for Cardiovascular Anesthesiology, Anesthesia & Analgesia

- Emerging Methods for Knowledge Synthesis (Network Meta-Analysis, Trial Sequential Analysis)
  Duminda Nalaka Wijeysundera, MD, PhD, FRCPC, Associate Professor, Department of Anesthesia, University of Toronto Faculty of Medicine, and Clinical Researcher, The Institute of Health Policy Management and Evaluation, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify key issues in analyzing and applying systematic reviews to their perioperative practice; (2) Discuss how systematic reviews and knowledge synthesis may inform their perioperative research program; (3) List emerging methods for systematic reviews (i.e., network meta-analysis); and (4) Assess how systematic reviews can help interpretation of perioperative basic science/preclinical data.
5:00 pm – 5:45 pm

**RCL-15**

**Ultrasound Findings in Intraoperative Anesthetic Emergencies**

**Presenter:** Julia B. Sobol, MD, Assistant Professor of Anesthesiology and Critical Care, Program Director for the International Anesthesiology Fellowship, Anesthesiology PGY1 Program Director, Columbia University Medical Center; New York-Presbyterian Hospital, New York, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe how arrests in the operating room may be different from those that occur in the emergency room, in other parts of the hospital, or outside the hospital; (2) Review ultrasound findings in different causes of perioperative arrest, focusing on cardiovascular, respiratory, and anesthetic causes of arrest; and (3) Recall the logistics of performing ultrasound during cardiopulmonary arrest.

Subspecialty Key: AP, CA, CC, RES, T

**6:30 pm – 8:00 pm**

**Dine-Around Session 2**

The IARS is offering Dine-Arounds, 10-person dinners where attendees can network. Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

Each Dine-Around Session will include 5-6 groups and each group will include 2 experts as hosts and facilitators, topics to be determined.

Locations, restaurant cuisines and price points will be provided by IARS. Dining costs are the responsibility of attendees.

Space is limited and pre-registration is required. An additional session is offered on Friday, April 27, 7:30 pm – 9:00 pm. Attendees may attend both sessions if space is available.

Locations will be provided by IARS. Dining costs are the responsibility of attendees.
### Daily Schedule-at-a-Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 am – 6:00 pm</td>
<td>Registration</td>
</tr>
<tr>
<td>7:30 am – 5:40 pm</td>
<td>Concurrent Sessions</td>
</tr>
<tr>
<td></td>
<td>• Moderated Poster Discussion Sessions</td>
</tr>
<tr>
<td></td>
<td>• Panels</td>
</tr>
<tr>
<td></td>
<td>• Problem-Based Learning Discussions (PBLDs)</td>
</tr>
<tr>
<td></td>
<td>• Review Course Lectures</td>
</tr>
<tr>
<td>9:30 am – 12:00 pm</td>
<td>A&amp;A Symposium: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside</td>
</tr>
<tr>
<td>9:30 am – 12:30 pm</td>
<td>SAGA Workshop: Interactive Boot Camp for Brief Cognitive Assessment</td>
</tr>
<tr>
<td>2:00 pm – 5:00 pm</td>
<td>Workshop: Transformational Leadership: You’re Not A Born Leader!</td>
</tr>
<tr>
<td>3:30 pm – 6:00 pm</td>
<td>Symposium: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer’s Disease</td>
</tr>
<tr>
<td>6:30 am – 9:30 am</td>
<td>Tabletop Exhibits</td>
</tr>
</tbody>
</table>

### 7:30 am – 9:00 am

**Panel-24**

**Innovative Training for Future Leaders in Anesthesiology**

**Moderator:** Thomas E. Cox, MD, Professor, Vice-Chair of Education, and Chief of Pediatric Anesthesiology, Department of Anesthesiology, Washington University School of Medicine, St. Louis Children’s Hospital, St. Louis, Missouri

**Panelists:**

- **Innovative Training of Clinician-Educators**
  
  Pedro P. Tanaka, MD, PhD, MACM, Clinical Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

- **Innovative Training of Experts in Perioperative Medicine**
  
  Timothy E. Miller, MB, ChB, FRCA, Chief, Division of General, Vascular, and Transplant Anesthesiology, Clinical Director, Abdominal Transplant Anesthesiology, Director, Perioperative Medicine Fellowship, Associate Professor of Anesthesiology, Duke University School of Medicine, Durham, North Carolina; President-Elect, ASER; Associate Editor, Anesthesia & Analgesia

**Innovative Training of Clinician-Scientists**

Aaron Norris, MD, PhD, Instructor of Anesthesiology, Chair, Scholarship Oversight Committee, Washington University School of Medicine in St. Louis, St. Louis, Missouri; Co-Vice President, eSAS

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review the pertinent Accreditation Council for Graduate Medical Education (ACGME) and The American Board of Anesthesiology (ABA) policies and procedures for innovative program application and approval; (2) Identify current innovative programs for training future clinician-scientists, educators, and leaders in perioperative medicine; and (3) Discuss future directions for innovative training program design and implementation to promote the development of future leaders in anesthesiology.

**Subspecialty Key:** EEP, PA, TCSEM

### Subspecialty Key

| AM | Airway Management |
|    |                   |
| AMB | Ambulatory Anesthesia |
| AP | Anesthetic Pharmacology |
| BLD | Blood Management |
| CA | Cardiovascular Anesthesiology |
| CC | Critical Care |
| EEP | Economics, Education and Policy |
| GA | Geriatric Anesthesiology |
| GH | Global Health |
| L | Liver |
| NR | Neuroscience in Anesthesiology and Perioperative Medicine |
| O | Obesity |
| OB | Obstetric Anesthesiology |
| PA | Perioperative Anesthesia |
| PE | Pediatric Anesthesiology |
| PM | Pain Medicine |
| PME | Pain Mechanisms |
| PS | Patient Safety |
| RA | Regional Anesthesia |
| RES | Respiratory |
| SM | Sleep Medicine |
| TCEM | Technology, Computing and Simulation, Equipment Monitoring |
| T | Trauma |

Preliminary schedule and sessions are as of press time and subject to change.
Panel-25

The Perioperative Management of the Heroin/Fentanyl Addicted Patient: The Epidemic is Upon Us!

Moderator: Corey S. Scher, MD, Clinical Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University School of Medicine, New York, New York

Panelists:

- The Ongoing Understanding of the Neurobiology of Heroin Addiction
  Corey S. Scher, MD

- Intraoperative Strategy of the Heroin/Fentanyl Addict
  Levon Capan, MD, Professor, Department of Anesthesiology, Perioperative Care and Pain Medicine, New York University School of Medicine; Associate Director of Anesthesia, Bellevue Hospital Center, New York, New York

- Postoperative Management Including Pain Control in the Addict Who Refused Regional Anesthesia
  Alan Kaye, MD, PhD, DABA, DABPM, DABIPP, Chairman and Program Director, Department of Anesthesiology, Professor of Anesthesiology, The Louisiana State University School of Medicine, New Orleans, Louisiana; Editor-in-Chief, Pain Physician Journal

- Preoperative Assessment of the Heroin Addict
  Ethan O. Bryson, MD, Associate Professor, Anesthesiology, Perioperative and Pain Medicine, Associate Professor, Psychiatry, The Icahn School of Medicine at Mount Sinai, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate what in the social history should be asked that is relevant for anesthesiology; (2) Identify essential lab tests that must be ordered preoperatively, including the echo cardiogram, chest x-ray, and a comprehensive blood evaluation, including Hepatitis C and HIV status; (3) Identify essential tests that must be included in preoperative testing by participating in this activity; (4) Formulate a plan that addresses the opioid needs during the hospitalization; and (5) Compose data to decide whether ambulatory patients should remain in the hospital in a monitored setting.

Panel-26

Data Driven Quality Improvement

Moderator: Nirav J. Shah, MD, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan

Panelists:

- From Aspiration to Action: The Journey of MPOGs Quality Improvement Initiative
  Nirav J. Shah, MD

- Using Novel Decision Support Tools to Support Quality Improvement Initiatives
  Leif Saager, MD, MMM, FCCM, FCCP, Assistant Professor, Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan

- Implementing Data Driven Quality Improvement Programs in Large Group Practices
  Richard Dutton, MD, MBA, Chief Quality Officer, United States Anesthesia Partners, Inc. (USAP), Houston, Texas

- AIRS: Building Quality Improvement Applications Integrated with Leading EHR Vendors
  Patrick Guffey, MD, Associate Professor, Anesthesiology, University of Colorado Denver School of Medicine, Children’s Hospital Colorado, Aurora, Colorado

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss three different types of quality improvement infrastructure: large group practices, hospitals that are members of the Multicenter Perioperative Outcomes Group (MPOG), and hospitals that have implemented Epic Electronic Health Records (EHR); (2) Describe the breadth of decision support tools (from validated, frequently used tools to experimental, leading edge ones) that enable practice leaders and quality improvement champions to improve performance; and (3) Formulate a plan to enhance the quality improvement program at the learner’s institution based on the infrastructure, processes, experience, and tools described by the panelists.

Subspecialty Key: EEP, PS, TCSEM

Subspecialty Key: AMB, AP, BLD, CC, CA, PM, PS
8:00 am – 8:45 am

**RCL-16**

**Blue Babies: How Do They Survive?**

**Presenter:** Minal J. Menezes, PhD, Research Officer/Senior Lecturer, Department of Anaesthesia, Sydney Medical School, University of Sydney, Sydney, Australia

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Define nitrate physiology in both the adaptations to, and surgical management of, congenital heart disease; (2) Discuss basic research in anesthesiology and organize the process of building a successful research proposal and its timely execution; (3) Describe new technology like side stream dark microscopy and its scope in anesthesia; and (4) Assess the benefits of building collaborative studies involving multidisciplinary departments.

Subspecialty Key: AM, CA, PA, PED

9:30 am – 10:15 am

**RCL-17**

**Medicine for Care of Older Persons and Emergency Laparotomy: The Lessons and How We Can Improve Care**

**Presenter:** Geeta Aggarwal, MBBS, MrCP, FRCA, Anaesthetist, Anaesthetics, Royal Surrey County Hospital, Surrey, England

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Assess how to improve care for elderly patients in their hospital; (2) Assess and measure outcomes for emergency general surgery; and (3) Formulate a care bundle that has been proven to reduce mortality for emergency surgery.

Subspecialty Key: CC, GA, PA

8:00 am – 9:00 am

**PBLD-20**

**End of Life Option Act: What Role Do Pediatric Practitioners Have in the Provision of Aid-in-Dying Drugs**

**Presenter:** Gabriel E. Sarah, MD, Assistant Clinical Professor, Anesthesiology, OMFS Pediatric Anesthesia Clerkship, University of California, San Francisco School of Medicine, San Francisco, California

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Assess the implications of the California End of Life Option Act and others like it; (2) Identify primary concerns of pediatric anesthesiologists surrounding the implementation of end of life option acts nationally; (3) Evaluate the importance of the implementation of rules and regulations surrounding end of life options planning; and (4) Evaluate personal feelings regarding the ethics of pediatric health care practitioners providing patients with aid-in-dying drugs.

Subspecialty Key: CC, EEP, PM, PED

9:30 am – 10:30 am

**PBLD-21**

**Ketamine for Perioperative Analgesia: Just the Facts**

**Presenter:** Steven Porter, MD, Assistant Professor, Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Jacksonville, Florida; Program Director, Regional Anesthesia and Acute Pain Medicine Fellowship

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Apply an evidence-based rationale dosing strategy for perioperative ketamine for acute pain; (2) Discuss the safety and side effect profile of ketamine infusions in the hospital setting; (3) Identify the necessary logistical support for ketamine use outside of the operating room; and (4) Discuss psychiatric conditions that may benefit from perioperative ketamine.

Subspecialty Key: PM, PME, PA, PS

Register Early and Save!

Online registration now open!

Register by Thursday, February 22, 2018, and take advantage of discounted early rates.

Join us in Chicago, Illinois, this April!

For more details on the program and how to register, visit

bit.ly/IARS18reg
Symposium-04

Acute Kidney Injury in the Perioperative Period: From Bench to Bedside

Introduction: Jean-François Pittet, MD, David Hill Chestnut Endowed Professor of Anesthesiology and Perioperative Medicine, Director, Organ Injury and Trauma Research, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, Anesthesia & Analgesia and A&A Practice

Moderator: Alexander Zarbock, MD, Clinician Scientist, Director and Chair, Department of Anesthesiology and Critical Care Medicine, University of Münster Faculty of Medicine, University Hospital Münster, Münster, Germany; Executive Section Editor, Basic Science, Anesthesia & Analgesia

Presenters:

- Prevention of Acute Kidney Injury (AKI)
  Alexander Zarbock, MD

- Definition and Epidemiology of Surgery Associated AKI
  Eric Hoste, MD, PhD, Chair, Acute Kidney Injury Section, University of Ghent Faculty of Medicine and Health Sciences, Ghent, Belgium

- Pathophysiology of AKI
  John A. Kellum, MD, FACP, MCCM, Tenured Professor, Critical Care Medicine, Chair of Critical Care Research, Professor of Medicine, Bioengineering, and Clinical and Translational Science, Director, Center for Critical Care Nephrology, Vice Chair for Research, Department of Critical Care Medicine, Director, Center for Assistance in Research Using eRecord (CARE), University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

- Oliguria: Physiologic or Pathologic Response
  Presenter to be Announced

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the role of AKI in perioperative medicine; (2) Discuss the role of novel damage biomarkers in diagnosing AKI; (3) Assess the importance of oliguria during surgery; and (4) Formulate strategies to prevent surgery associated AKI.

Workshop-05

SAGA Interactive Boot Camp for Brief Perioperative Cognitive Assessment

Taking a few minutes to assess the brain is particularly important given the growing number of older adults electing surgery and the rise of dementia internationally. For this workshop, clinical neuropsychologists who specialize in dementia assessment and perioperative cognitive change will conduct an interactive workshop for anesthesiologists interested in sharpening their skills in rapid pre- and post-operative cognitive-behavioral assessment.

Workshop Leader: Catherine Price, PhD, ABPP/CN, Associate Professor/Paul Satz Term Professor, Clinical and Health Psychology/Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

Presenters:

- Tania Giovannetti, PhD, Associate Professor, Department of Psychology, Temple University, Philadelphia, Pennsylvania

- Melissa Lamar, PhD, Associate Professor, Department of Neurological Sciences, Rush Medical College, Chicago, Illinois

- Catherine Price, PhD, ABPP/CN

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the basics of administration for brief behavioral tools and common screeners for assessing general cognitive impairment, memory, and executive function; (2) Discuss the basics of interpretation for these brief behavioral assessment tools; (3) Describe common forms of test errors produced by patients with different dementing disorders; and (4) Discuss which forms of cognitive impairment are predictive of negative outcome after participating in a series of short TED-talks involving case vignettes followed by practice on “pseudopatients” with distinct cognitive profiles.

Subspecialty Key: CC, PA, PS
9:45 am – 11:15 am  
Panel-27

Clinical Informatics Training for Anesthesiologists

**Moderator:** Richard H. Epstein, MD, Professor of Clinical Anesthesiology, Director, Clinical Anesthesiology, Anesthesia Information Systems, University of Miami Miller School of Medicine, Miami, Florida

**Panelists:**
- Data Quality and Access Issues Related to Publishing from Electronic Health Record Systems  
  Richard H. Epstein, MD
- Data Issues in Converting from an Institutionally Maintained Enterprise Health Record System to a Commercial System  
  Jonathan Wanderer, MD, Associate Professor of Anesthesiology, Division of Multispecialty Adult Anesthesiology, Associate Professor of Biomedical Informatics, Medical Director, Vanderbilt Anesthesiology and Perioperative Informatics Research (VAPIR) Division, Medical Director of Procedure Preparation Center Vanderbilt University School of Medicine, Nashville, Tennessee; Associate Editor, Anesthesia & Analgesia
- Challenges of Data Access from Commercial Enterprise Health Record Systems  
  Karl Poterack, MD, Assistant Professor of Anesthesiology; Medical Director, Applied Clinical Informatics Office of Information and Knowledge Management, Mayo Clinic College of Medicine and Science, Phoenix, Arizona
- Building a Data Warehouse for Efficient Use of Enterprise Health Record System Data  
  Ira Hofer, MD, Director, Division of Bioinformatics and Analytics, Department of Anesthesiology and Perioperative Medicine, University of California, Los Angeles David Geffen School of Medicine; Director of Analytics and Reporting, University of California, Los Angeles Health Operative Services, Los Angeles, California

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the issues related to providing specifications or pulling research data from electronic health record systems; (2) Compare the various options to achieve expertise in clinical informatics and analytics; and (3) Interpret how an anesthesia department achieved extremely high research productivity using its anesthesia information system data.

Panel-28

So You Want To Be A Leader: A How-To Guide

**Moderator:** Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor, Anesthesiology, Perioperative and Pain Medicine, Chair, Anesthesia Department, Member, Cardiovascular Institute, Stanford University School of Medicine, Stanford, California

**Panelists:**
- Creating and Implementing a Vision  
  Colleen Koch, MD, MS, MBA, fACC, Mark C. Rogers Professor and Chair, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins School of Medicine, Baltimore, Maryland; Member-at-Large, IARS
- Basics of Negotiation  
  Warren S. Sandberg, MD, PhD, Professor and Chair, Department of Anesthesiology, Surgery and Biomedical Informatics, Division of Multispecialty Adult Anesthesiology, Vanderbilt University School of Medicine, Nashville, Tennessee
- Dealing with Setbacks and Personal Conflicts  
  Keith A. (Tony) Jones, MD, Alfred Habeeb Professor of Anesthesiology and Perioperative Medicine, Chief Physician Executive, The University of Alabama at Birmingham Health System, Birmingham, Alabama; Trustee, IARS
- Leadership Training  
  James P. Rathmell, MD, Leroy D. Vandam Professor, Anaesthesia, Harvard Medical School, Head, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, Massachusetts

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe specific skills required to be successful in leadership roles; (2) Create and employ a vision; (3) Demonstrate the skills of negotiation and dealing with interpersonal conflicts; and (4) Describe options for obtaining leadership training.
10:25 am – 11:10 am  
**RCL-18**

**Safety Reporting, Checklists, and Root Cause Analysis: What Are They Good For? Absolutely Nothing?**

**Presenter:** Jonathan B. Cohen, MD, MS, Department Safety Officer, H. Lee Moffitt Cancer Center and Research Institute, Tampa, Florida

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the evolution and application of safety reporting, checklists, and root cause analysis from high-reliability organizations to health care; (2) Identify components of an effective safety reporting system; (3) Summarize essential elements of perioperative checklist implementation; and (4) Assess the effectiveness of actions intended to address hazards identified by root cause analyses.

Subspecialty Key: PA, PS

11:20 am – 12:05 pm  
**RCL-19**

**Principles of Lean Management and Systems Engineering for Anesthesiologists**

**Presenter:** Jeanna Blitz, MD, Medical Director, Preoperative Evaluation Clinic, New York University School of Medicine, New York, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Apply concepts of lean management to quality and efficiency initiatives at their institution; (2) Prepare a charter to advocate for support to begin a quality improvement initiative; (3) Evaluate the best approach to collect data and confidently and independently analyze results; and (4) Formulate ongoing quality improvement and efficiency projects for the department and institution.

Subspecialty Key: EEP, GH, PA

10:45 am – 11:45 am  
**PBLD-22**

**Effective Perioperative Care of the Surgical Patient with Obstructive Sleep Apnea (OSA)**

**Presenter:** Ellen M. Soffin, MD, PhD, Clinical Assistant Professor, Department of Anesthesiology, Hospital for Special Surgery, New York, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Formulate a comprehensive, individualized plan-of-care for patients with known or suspected Obstructive Sleep Apnea (OSA) presenting for surgery; (2) Construct a risk-stratified plan for which patients with (known or suspected) OSA should have surgery delayed or cancelled for further investigation and optimization; (3) Define the role of continuous positive airway pressure (CPAP) in mitigating perioperative risk and complications; and (4) Discuss opportunities to optimize OSA sequelae, minimize surgical impact, and improve outcomes after surgery.

Subspecialty Key: O, PA, SM

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**Sign-Up for Dine-Arounds!**

Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics. Take advantage of this unique opportunity for a more meaningful networking experience.

Locations, restaurant cuisines and price points will be provided closer to the meeting. Sign-up today when registering and make sure you secure one of the limited spaces!

- **Friday, April 27 • 7:30 pm - 9:00 pm:** Dine-Around Session 1
- **Sunday, April 29 • 6:30 pm - 8:00 pm:** Dine-Around Session 2

Space is limited and pre-registration is required. Attendees may attend both sessions if space is available. Locations will be provided by IARS. Dining costs are the responsibility of attendees.
Panel-29

**Impact of Anesthesia in Patients with Concussion**

Moderator: Martin Smith, MBBS, FRCA, FFICM, Consultant and Honorary Professor, Neuroanaesthesia and Neurocritical Care, The National Hospital for Neurology and Neurosurgery, University College London Hospitals, London, England; Editor-in-Chief, *Journal of Neurosurgical Anesthesiology*

Panelists:

- **Perioperative Considerations in Concussion: Why Should It Matter to Us?**
  Monica S. Vavilala, MD, Professor, Anesthesiology and Pediatrics, University of Washington Medicine; Director, Harborview Injury Prevention and Research Center, Seattle, Washington

- **Epidemiology of Anesthesia Utilization in Patients with Concussion**
  Jeffrey J. Pasternak, MD, Associate Professor, Anesthesiology and Perioperative Medicine, Mayo Clinic College of Medicine and Science, Rochester, Minnesota; President, SNACC

- **Brain Homeostasis Following Mild Traumatic Brain Injury**
  Deepak Sharma, MBBS, MD, DM, Virginia & Prentice Bloedel Professor and Division Chief, Neuroanesthesiology and Perioperative Neurosciences, University of Washington Medicine; Harborview Medical Center, Seattle, Washington

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the rationale for concussion considerations during the perioperative period; (2) Describe the epidemiology of anesthetic utilization in patients with concussion; (3) Explain how brain homeostasis is affected by mild traumatic brain injury; (4) List factors that can occur in the perianesthetic period that can potentially impact outcome following traumatic brain injury; and (5) List areas of future investigation in the field of concussion relevant to perianesthesia care.

Panel-30

**The “I” in “Team”: Interdisciplinary Thinking for Whole-Patient Perioperative Care**

Moderator: Julie K. Freed, MD, PhD, Assistant Professor, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; Co-Chair Events, eSAS

Panelists:

- **Perioperative Screening for High Blood Pressure: The Interdisciplinary Challenge of Bringing MIPS Measure 317 into Practice**
  Robert B. Schonberger, MD, MHS, Associate Professor, Anesthesiology, Faculty Research, and Office of Cooperative Research, Yale School of Medicine, New Haven, Connecticut

- **Building an Interdisciplinary Research Team for Implementation Science Research**
  Meghan Lane-Fall, MD, MSHP, Assistant Professor of Anesthesiology and Critical Care, Senior Fellow, Leonard Davis Institute of Health Economics; Co-Director, Center for Perioperative Outcomes Research and Transformation, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

- **Distant Time Horizons: A Geriatrics Approach to Perioperative Cognitive Change**
  Elizabeth L. Whitlock, MD, MSc, Clinical Instructor and T32 Fellow, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California; Co-President, eSAS

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss factors relating to, and prevention of, postoperative cognitive dysfunction in the geriatric patient; (2) Describe how anesthesiologists can have an impact on their patients’ overall cardiovascular health; (3) Assess how to improve patient safety in the perioperative period through effective communication; and (4) Demonstrate how to create a successful interdisciplinary research team to improve patient outcomes.
Leveraging Machine Learning to Improve Patient Care: What Is Involved, and What It Really Means

**Moderator: Maxime Cannesson, MD, PhD, Professor, Anesthesiology, University of California, Los Angeles David Geffen School of Medicine, Vice Chair for Perioperative Medicine, Ronald Reagan University of California, Los Angeles Medical Center, Los Angeles, California; Board of Directors, ASER; Executive Section Editor, Technology, Computing, and Simulation, Anesthesia & Analgesia**

**Panelists:**
- Extracting Meaningful Information from Clinical Waveforms: A Physiological and Statistical Approach Maxime Cannesson, MD, PhD
- Extracting Structured Data from the Electronic Medical Record for Research and Quality Improvement Purposes Ira Hofer, MD, Director, Division of Bioinformatics and Analytics, Department of Anesthesiology and Perioperative Medicine, University of California, Los Angeles David Geffen School of Medicine; Director of Analytics and Reporting, University of California, Los Angeles Health Operative Services, Los Angeles, California
- What Are Machine Learning and Deep Learning, and How Can They Be Applied to Health Care? Christine Lee, MS, PhD Candidate, Biomedical Engineering, University of California, Irvine School of Medicine, Irvine, California
- Using Multicenter Data to Collaborate, Improve Care, and Advance Science: Pitfalls and Opportunities Sachin Kheterpal, MD, MBA, Associate Dean for Research Information Technology, Associate Professor of Anesthesiology, Director, Anesthesiology Performance Improvement and Reporting Exchange (ASPIRE) Collaborative Quality Initiative, University of Michigan Medicine, Ann Arbor, Michigan

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the various types of data available from the electronic medical record (EMR) and how they can be leveraged for reporting in the perioperative environment; (2) Compare and contrast the types of waveforms and other visual data generated as part of patient care, and how to extract meaningful information about the patient; (3) Assess the challenges and opportunities in combining data from various institutions and computer systems, and how this integration can increase the power of the underlying data; and (4) Discuss advanced statistical techniques such as machine learning and deep learning, and how they can be applied to various types of health care data.

**Subspecialty Key: EEP, TCSEM**

The Preoperative Anesthesia Clinic Improves Patient Recruitment for Clinical Research

**Presenter: George Silvay, MD, PhD, Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Icahn School of Medicine at Mount Sinai, New York, New York**

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify the challenges associated with enrollment in medical research in the perioperative period, and their underlying causes; (2) Identify the utility of an advanced preoperative visit for the success of recruitment for trial participation; (3) Review a specific model for Preoperative Assessment Clinic (PAC) that has been implemented at the academic institution; and (4) Interpret how the presented experience could be incorporated with the acquired knowledge in their own practice.

**Subspecialty Key: CC, EEP**

Women in Medicine and Leadership: Glass Ceiling, Sticky Floors, and Everything in Between

**Presenter: Maya J. Hastie, MD, Associate Professor of Anesthesiology, Co-Director, Faculty Development and Career Advancement Program, Associate Program Director, Adult Cardiothoracic Anesthesia Fellowship, Columbia University Medical Center, New York, New York**

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Appraise and examine the factors leading to the under-representation of women in leadership positions in academic medicine; (2) Identify the challenges faced by women in medicine during their careers, including gender biases, lack of mentoring, and work-life balance; (3) Organize and differentiate those challenges in a meaningful framework; (4) Describe and interpret commonly used metaphors in the context of the career paths of women in academic medicine; (5) Appraise and formulate practical approaches for advancing the career of women in academic medicine; and (6) Differentiate and formulate the initial personal, organizational, and societal plans of action to increase the representation of women in leadership positions.

**Subspecialty Key: EEP**
2:00 pm – 2:45 pm

**RCL-21**

**Biases in Education and Research and Their Impact on Patient Safety**

**Presenter:** Edward C. Nemergut, MD, Frederic A. Berry Professor of Anesthesiology, Professor of Neurosurgery, University of Virginia School of Medicine, Charlottesville, Virginia; Editor-in-Chief, OpenAnesthesia, Executive Section Editor, Medical Education, Anesthesia & Analgesia

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) List the most common biases encountered in education, clinical practice, and scientific research; (2) Define the most common biases encountered in education, clinical practice, and scientific research; (3) Explain how the most common biases encountered in scientific research impact our interpretation of research studies and the quality of care; and (4) Identify their own biases and work to eliminate or reduce their impact on education and clinical practice.

Subspecialty Key: EEP, PS

2:00 pm – 3:00 pm

**PBLD-24**

**Hip Fracture in a Patient with Severe Pulmonary Hypertension**

**Presenter:** Jessica Tashjian, MD, Assistant Clinical Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the preoperative evaluation and outpatient management of patients with pulmonary hypertension; (2) Compare the pros and cons of general versus neuraxial anesthesia in patients with severe pulmonary hypertension; and (3) Formulate strategies for intraoperative monitoring and hemodynamic management of these patients.

Subspecialty Key: AMB, BLD, CA

2:00 pm – 3:30 pm

**Panel-32**

**Rise of the Machines: Mechanical Support for Organ Failure**

**Moderator:** Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor, Anesthesiology, Perioperative and Pain Medicine, Chair, Anesthesia Department, Member, Cardiovascular Institute, Stanford University School of Medicine, Stanford, California

**Panelists:**
- **Lung Failure:** ECMO and Artificial Lungs
  Ronald Pearl, MD, PhD

- **Liver Failure:** Liver Support and Liver Replacement
  Gebhard Wagener, MD, Professor of Anesthesiology, Chief, Division of Vascular Anesthesiology, College of Physicians and Surgeons of Columbia University Medical Center, New York, New York; Member, Divisions of Critical Care Medicine and Liver Transplant Anesthesia

- **Heart Failure:** Ventricular Assist Devices and the Total Artificial Heart
  Mark Chaney, MD, Professor of Anesthesia and Critical Care, Director, Cardiac Anesthesia, Director, Adult Cardiothoracic Anesthesia Fellowship Program, The University of Chicago Medicine, Chicago, Illinois

- **CNS Failure:** Brain Stimulation and Neural Interfaces
  Deborah J. Culley, MD, Associate Professor, Vice Chair for Research, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the ventricular assist devices currently available for support of the failing heart and discuss their risks and benefits; (2) Describe the options for support and replacement of the failing liver; (3) Discuss the use of Extracorporeal membrane oxygenation (ECMO) and artificial lung support for the patient with severe respiratory failure; and (4) Describe the current state of brain stimulation and neural interfaces for treatment of central nervous system diseases.

Subspecialty Key: AM, CA, L, NR, PA, PS, RES, TCSEM
2:00 pm – 3:30 pm (continued) ______________

Panel-33

Morbid Obesity: Recent Advances and New Insights in the Perioperative Anesthetic Care of Affected Patients

Moderator: Roman Schumann, MD, Vice-Chair for Academic Affairs, Department of Anesthesiology; Vice-Chair, Tufts Health Sciences IRB; Medical Staff President; Professor, Tufts University School of Medicine, Boston, Massachusetts; President, ISPCOP

Panelists:

- **Point-of-Care Gastric Ultrasound and Airway Assessment in the Obese Patient: Why and How**
  Anahi Perlas, MD, Associate Professor, Anesthesia, University of Toronto Faculty of Medicine, Director, Clinical Regional Anesthesia Program, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

- **Preoxygenation Practices in the Obese Patient: What’s the Buzz?**
  Rainer Lenhardt, MD, Professor and Vice Chair, Department of Anesthesiology and Perioperative Medicine, University of Louisville School of Medicine, Louisville, Kentucky

- **Current Principles and Evidence of Opioid-Sparing Anesthesia and Analgesia for Bariatric Patients: ERABS Considerations and Patient Satisfaction**
  Adrian Sultana, MD, Senior Consultant Anaesthetist, Sydney Institute for Obesity Surgery, Sydney, Australia

- **OSA in the Parturient: Implications and Perioperative Management Pearls**
  Ellen Lockhart, MD, Professor and Vice Chairman, Anesthesiology, Washington University School of Medicine in St. Louis, St. Louis, Missouri

Learner Objectives: After participating in this activity, the learner will be able to: (1) Report at least two indications for point-of-care gastric ultrasound to evaluate gastric content; (2) Identify the cricothyroid membrane in the longitudinal airway scan; (3) Assess the range of pharmacological techniques that are available for opioid-sparing anesthesia and analgesia for the bariatric surgical patient; (4) Discuss high flow nasal cannula and continuous positive airway pressure (CPAP) pre-oxygenation and rapid insufflation ventilatory exchange in obese patients; and (5) Describe the clinical implications and management of Obstructive Sleep Apnea (OSA) during pregnancy.

Subspecialty Key: AM, AP, O, OB, PA, PS, RES

Panel-34

Review of the Top Blood Management Publications in A&A

Moderator: Marisa B. Marques, MD, Professor, Pathology, Assistant Professor, Medical Director, Transfusion Services, University of Alabama at Birmingham, Birmingham, Alabama; Executive Section Editor, Blood Management, Anesthesia & Analgesia

Panelists:

- **Blood Product Utilization, Including Massive Transfusion**
  Arthur W. Bracey, MD, Chief of Clinical Pathology, Baylor St. Luke’s Medical Center, Houston, Texas

- **PBM in the Pediatric Patient**
  Susan Goobie, MD, FRCPC, Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

- **Transfusion in Adult Cardiac Surgery Patients**
  Aryeh Shander, MD, FCCM, FCCP, FASA, Chief, Anesthesiology, Pain Management and Hyperbaric Medicine, Englewood Hospital and Medical Center, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the value of A&A as a source of information on blood management topics; (2) List reasons to practice blood management in their institutions; and (3) Recall evidence-based indications and risks of transfusions.

Subspecialty Key: BLD, EEP, PS
2:00 pm – 5:00 pm

**Workshop-06**

**Transformational Leadership: You’re Not a Born Leader!**

In most cases, there’s no such thing as a born leader. Good leaders learn how to inspire others and lead effective teams and that means you can, too. This workshop will share proven strategies for cultivating leadership skills, allowing for meaningful change in the OR, and will provide techniques to implement positive change and improve patient care.

**Workshop Leader:** Chet Wyman, MD, Attending Physician, Anesthesiology and Critical Care Medicine, Johns Hopkins Bayview Medical Center, Baltimore, Maryland

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Apply tools to identify and illustrate their leadership style and how that style relates to their performance and the performance of others in the organization; (2) Discuss tools to identify and interpret their conflict style and how conflict style relates to the performance of individuals and teams; (3) Identify and assemble tools to measure and set up trust within the organization and increase engagement; (4) Describe characteristics of Transformational Leaders and explain the differences between the different types of leadership; and (5) Describe and demonstrate strategies to engage staff and motivate change.

**Subspecialty Key:** EEP, PS

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2:30 pm – 3:30 pm

**PBLD-25**

**Clinical Research for the Busy Anesthesia Provider: When Research is “Not Your Thing”**

**Presenter:** Olubukola Nafiu, MD, FRCA, MS, Associate Professor of Pediatrics and Anesthesia, Director, Pediatric Anesthesia Research, University of Michigan Medicine, University of Michigan Health System, Ann Arbor, Michigan

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review different types of research that can be explored by busy anesthesia personnel including, retrospective database query, prospective observational, surveys, and medical education methods; (2) Identify limiting factors to successful perioperative research and how to overcome them; (3) Discuss novel ideas that can assist faculty in doing research while in the operating room; (4) Define basic statistical terminologies needed for writing a proposal and a manuscript: variable selection, dependent vs. independent variable, categorical variable, hypothesis vs. aims, case-control vs. cohort studies; (5) Discuss a sample research idea and develop a workable proposal from this; and (6) Collect tips on how to turn an idea into a manuscript.

**Subspecialty Key:** O, PED, PA, SM

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**Register Early and Save!**

Online registration will open December 2017.

**Register by Thursday, February 22, 2018,** and take advantage of discounted early rates.

**Join us in Chicago, Illinois, this April!**

For more details on the program and how to register, visit [bit.ly/IARS18reg](http://bit.ly/IARS18reg)

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**Tabletop Exhibits Area**

Be sure to visit the Tabletop Exhibits, Saturday, April 28 through Monday, April 30. Plus, attend the Alignment Reception on Saturday, April 28, from 6:00 pm – 7:30 pm.

**Tabletop Exhibit Hours:**

- **Saturday, April 28** . . . . . . . . . . . . . . 6:30 am – 4:00 pm
- **Alignment Reception** . . . . . . . . . . . . . 6:00 am – 7:30 pm
- **Sunday, April 29** . . . . . . . . . . . . . . 6:30 am – 4:00 pm
- **Monday, April 30** . . . . . . . . . . . . . . 6:30 am – 9:30 am
2:55 pm – 3:40 pm

RCL-22

The Trials and Tribulations of ERABS: Implementing ERAS in Bariatric Anesthesia!

Presenter: Naveen Eipe, MBBS, MD, Assistant Professor of Anesthesiology, Department of Anesthesiology and Pain Medicine, University of Ottawa Faculty of Medicine, Staff Anesthesiologist, The Ottawa Hospital, Ottawa, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate the role of ERAS in improving patient safety and outcomes; (2) Appraise the evidence for ERABS-ERAS in bariatric anesthesia; and (3) Formulate an ERABS strategy for patients with morbid obesity.

Subspecialty Key: O, PA, PS

3:30 pm – 6:00 pm

Symposium-05

A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer's Disease

Moderator: Vivianne Tawfik, MD, PhD, Assistant Professor, Department of Anesthesiology, Perioperative and Pain Medicine (Adult Pain), Assistant Director, Fellowship in Anesthesia Research & Medicine Program (FARM), Stanford University School of Medicine, Stanford, California; Co-President, eSAS

Presenters:
- Microglial Modulation as a Target for Chronic Pain: From the Bench to the Bedside and Back
  Vivianne Tawfik, MD, PhD

- The Dual-Edged Sword of Neuroinflammation in Injury and Recovery after Brain Ischemia
  Ines P. Koerner, MD, PhD, Associate Professor, Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon

- Non-Resolving Inflammation in Postoperative Cognitive Dysfunction: Can We Prevent It?
  Niccolo Terrando, PhD, Assistant Professor, Anesthesiology, Duke University Medical Center, Durham, North Carolina

- PET Imaging of Neuroinflammation: Visualizing Neuroimmune Interactions in the Context of CNS Diseases
  Michelle James, PhD, Assistant Professor, Department of Radiology and Department of Neurology and Neurological Sciences, Stanford University School of Medicine, Stanford, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the key functions of microglia and other monocyte-lineage cells in central nervous system (CNS) pathology; (2) Identify the contribution of microglia to neuron loss after stroke and how they can be targeted to improve outcomes; (3) Explain how microglial activation contributes to the transition from acute to chronic pain; (4) Describe the neuroinflammatory contribution to post-operative cognitive dysfunction; (5) Identify the utility of PET imaging for detecting neuroinflammation in Alzheimer’s disease and post-stroke dementia and evaluate how this imaging technique can be used in clinical trials to influence patient care; and (6) Recall the common CNS mechanisms underlying stroke, chronic pain, Post-Operative Cognitive Dysfunction (POCD), and Alzheimer’s disease and how this overlap can help develop better therapies.

Subspecialty Key: NR, PME, PS

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4:00 pm – 4:45 pm  
**RCL-23**

**Update on Health Care Reform: The Impact of MACRA on the Practice of Anesthesia**

**Presenter:** Alice A. Tolbert Coombs, MD, MPA, FCCP, Associate Professor, Anesthesiology and Critical Care Medicine, Virginia Commonwealth University, Richmond, Virginia

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review the recent changes in MACRA; (2) Discuss the Impact of APM and MIPS on the practice of anesthesia and the reporting requirement; and (3) Discuss strategies to develop a sustainable anesthesia practice.

**Subspecialty Key:** EEP

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4:00 pm – 5:00 pm  
**PBLD-26**

**Management of DOAC’s in the Patient Blood Management (PBM) Arena**

**Presenter:** Seth Perelman, MD, Clinical Associate Professor, Department of Anesthesiology, Perioperative Care and Pain Medicine, New York University School of Medicine, New York University Langone Medical Center, New York, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review currently available non-vitamin K direct oral anticoagulant (DOAC)’s and their indications for use; (2) Review safety data compared to warfarin; (3) Discuss preoperative management of patients receiving DOAC’s and Society recommendations for preoperative management; (4) Assess limitations of laboratory measurement of anticoagulation in patient’s receiving DOAC’s; and (5) Discuss the reversal and treatment of DOAC-induced bleeding.

**Subspecialty Key:** BLD, PA, PS

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4:00 pm – 5:30 pm  
**Panel-35**

**Your Patient Has Memory Problems: Now What?**

**Moderator:** Ruben Azocar, MD, MHMC, FCCM, Professor and Chair, Department of Anesthesiology and Perioperative Medicine, Tufts University School of Medicine, Boston, Massachusetts; President, SAGA

**Panelists:**

- **Consenting Your Memory Impaired Patients**
  **Miles Berger, MD, PhD,** Assistant Professor, Neuroanesthesiology Division, Anesthesiology Department, Duke University Medical Center, Durham, North Carolina; Co-Vice-President, eSAS

- **Intraoperative Anesthesia Considerations for Your Memory Impaired Patients**
  **Deborah J. Culley, MD,** Associate Professor, Vice Chair for Research, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts

- **Delirium and Mortality in Your Memory Impaired Patients**
  **Stacie G. Deiner, MD,** Associate Professor, Anesthesiology, Perioperative and Pain Medicine, Icahn School of Medicine at Mount Sinai, New York, New York; Associate Editor, Anesthesia & Analgesia

- **Pre- and Post-operative Cognitive Care Considerations for Your Memory Impaired Patient**
  **Catherine Price, PhD, ABPP/CN,** Associate Professor/ Paul Satz Term Professor, Clinical and Health Psychology/ Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss improved consent procedures; (2) Identify ways to improve intraoperative care needs; (3) Demonstrate the relationship between memory impairment and delirium risk; and (4) Formulate tools for improving communication and cognitive care for the memory impaired patient both pre- and post-operatively.

**Subspecialty Key:** GA, NR, PA

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*Preliminary schedule and sessions are as of press time and subject to change.*
4:00 pm – 5:30 pm (continued)

Panel-36

The Role of Implementation Science in Patient Safety

Moderator: Ankeet D. Udani, MD, MSEd, Assistant Professor, Anesthesiology, Duke University School of Medicine, Durham, North Carolina

Panelists:

- Introduction to Implementation Science
  Ankeet D. Udani, MD, MSEd

- Case Study: Structured Post-operative Handoff Implementation
  Meghan Lane-Fall, MD, MSHP, Assistant Professor of Anesthesiology and Critical Care, Senior Fellow, Leonard Davis Institute of Health Economics, Co-Director, Center for Perioperative Outcomes Research and Transformation, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

- Case Study: Emergency Manual Implementation
  Sara Goldhaber-Fiebert, MD, Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

- Case Study: Surgical Safety Checklist Implementation
  Aalok V. Agarwala, MD, MBA, Division Chief, General Surgery Anesthesia, Associate Director, Anesthesia Quality and Safety, Massachusetts General Hospital, Anesthesiology, Critical Care and Pain Medicine, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define central concepts in implementation science (efficacy, effectiveness, population health, Diffusion of Innovation and Motivational Behavior theories, CFIR, PARiHS and RE-AIM frameworks, sustainability, dissemination, mixed-methods research); (2) Identify opportunities for the application of implementation science in patient safety research; and (3) Apply mitigation strategies to common implementation pitfalls to improve program sustainability and dissemination.

Subspecialty Key: EEP, PA, PS

4:55 pm – 5:40 pm

RCL-24

Perioperative Pain Management in Children with Sleep-Disordered Breathing: A Difficult Balancing Act

Presenter: Olubukola O. Nafiu, MD, FRCA, MS, Associate Professor of Pediatrics and Anesthesia, Director, Pediatric Anesthesia Research, University of Michigan Medicine, University of Michigan Health System, Ann Arbor, Michigan

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the epidemiology of obstructive sleep apnea (OSA) and pain symptoms; (2) Discuss the pathophysiology of OSA and acute pain states; (3) Explain the mechanisms underlying opioid-induced respiratory depression; (4) Express a unifying hypothesis for pain-related behavior, hypoxia and opioid side effects; (5) Analyze analgesic options for OSA patients; and (6) Discuss the importance of preoperative screening for OSA as a risk factor for post-anesthesia care unit (PACU) pain requiring intervention.

Subspecialty Key: AM, AP, O, PA, PED, PM, SM, RES

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Daily Schedule-at-a-Glance

7:00 am – 12:00 pm  Registration
8:00 am – 11:45 am  Concurrent Sessions
• Panels
• Problem-Based Learning Discussions (PBLDs)
• Review Course Lectures

1:00 pm – 6:00 pm  
Affiliate Society Meeting:
Clinical Research Consortium:
Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting

8:00 am – 9:00 am  PBLD-27
Simplifying the ESC and AHA Guidelines for Perioperative Management for Noncardiac Surgery: A Clinician’s Approach

Presenter: Shamsuddin Akhtar, MD, MBBS, Associate Professor of Anesthesiology, Department of Anesthesiology, Director of Medical Student Education, Medical Director of YNHH 7-1 Surgical Intensive Care Unit, Yale School of Medicine, New Haven, Connecticut; President-Elect, SAGA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Compare the 2014 ACC/AHA guidelines, in relation to the 2009/2007 guidelines; (2) Identify a simplified method of determining who should be sent for further cardiac evaluation; (3) Identify when to offer elective surgery after myocardial infarction; and (4) Assess the role of perioperative medical management in reducing major adverse cardiac events.

Subspecialty Key: CA, EEP, PA

Subspecialty Key
AM  Airway Management  OB  Obstetric Anesthesiology
AMB Ambulatory Anesthesia  PA  Perioperative Anesthesia
AP  Anesthetic Pharmacology  PED  Pediatric Anesthesiology
BLD  Blood Management  PM  Pain Medicine
CA  Cardiovascular Anesthesiology  PME  Pain Mechanisms
CC  Critical Care  PS  Patient Safety
EEP  Economics, Education and Policy  RA  Regional Anesthesia
GA  Geriatric Anesthesiology  RES  Respiratory
GH  Global Health  SM  Sleep Medicine
L  Liver  TCSEM  Technology, Computing and Simulation, Equipment Monitoring
NR  Neuroscience in Anesthesiology and Perioperative Medicine  T  Trauma
O  Obesity

Preliminary schedule and sessions are as of press time and subject to change.
Tuesday, May 1

8:00 am – 9:30 am

Panel-37

Leveraging Mobile Apps for Medical Education

Moderator: Vikas N. O’Reilly-Shah, MD, PhD, Assistant Professor of Anesthesiology, Emory University School of Medicine, Children’s Healthcare of Atlanta, Atlanta, Georgia

Panelists:

- Cloud-Based Tracking of Access to Didactics and Case-Specific Reference Material Among Pediatric Anesthesia Learners Using a Custom Mobile App
  Vikas N. O’Reilly-Shah, MD, PhD

- Moving Beyond Multiple Choice: Use of Smartphone-Based Audience Response Systems to Enhance Learner Engagement
  Matthew K. Whalin, MD, PhD, Assistant Professor of Anesthesiology, Director, Grady Division of Neuroanesthesiology, Emory University School of Medicine, Atlanta, Georgia

- Use of a Web App for Mobile Access to Classroom Based Lectures in an Anesthesia Residency
  Pedro K. Tanaka, MD, PhD, MACM, Clinical Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe development and implementation of a mobile web app for blended teaching and learning; (2) Identify the advantages of web and cloud based approaches to providing learner content and tracking usage of this content; and (3) Compare and contrast the use of multiple-choice and word-cloud audience response formats to engage learners.

Subspecialty Key: EEP, TCSEM

Panel-38

Practical Clinical Approaches to Prevention of Postoperative Delirium: A Review of Modern Evidence

Moderator: Miles Berger, MD, PhD, Assistant Professor, Neuroanesthesiology Division, Anesthesiology Department, Duke University Medical Center, Durham, North Carolina; Co-Vice-President, eSAS

Panelists:

- Perioperative Cognitive Protection: Cognitive Exercise and Cognitive Reserve for Prevention of Postoperative Delirium
  Michelle Humeidan, MD, PhD, Assistant Professor-Clinical, Department of Anesthesiology, Physician, FGP-Anesthesiology, The Ohio State University, Wexner Medical Center, Columbus, Ohio

- Intraoperative Ketamine and Associations with Postoperative Delirium: Results from the PODCAST Trial
  Phillip E. Vlisides, MD, Assistant Professor, Department of Anesthesiology, University of Michigan Medicine, Ann Arbor, Michigan

- Cerebral Autoregulation and Blood Flow and Associations with Postoperative Delirium
  Charles H. Brown, IV, MD, Assistant Professor, Anesthesiology and Critical Care Medicine, Johns Hopkins School of Medicine, Baltimore, Maryland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe current approaches to prevention of postoperative delirium, including medical and behavioral therapies; (2) Discuss how recent evidence has refined proposed approaches to prevention of postoperative delirium; and (3) Assess the importance of clinical trial design and research methods, used to address current challenges to rigor and reproducibility increasingly emphasized in modern research.

Subspecialty Key: GA, NR, PA

Chicago is home to 300 bridge and viaduct structures, including 37 operable, movable bridges along the Chicago and Calumet rivers.
9:00 am – 9:45 am  
**RCL-26**  
Advanced Teaching Skills for the OR: How to Teach Effectively when Faced with High Clinical Workload and Lack of Time  
**Presenter:** Marek Brzezinski, MD, PhD, Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco School of Medicine, San Francisco, California  
**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the current and relevant teaching theories, including the adult learning theory and the Dreyfus model; (2) Explain the development of clinical decision-making by residents; (3) Identify potential obstacles to teaching in the fast-paced, high-pressure environment of the OR; and (4) Describe simple approaches to optimize the curriculum, as well as effective techniques to improve teaching, while not compromising quality of care.

Subspecialty Key: EEP

9:45 am – 11:15 am
**Panel-39**
**A National Strategy to reduce the Opioid Epidemic:** A Report from the National Academies of Sciences, Engineering and Medicine  
**Moderator:** Mark A. Schumacher, MD, PhD, Professor, Department of Anesthesia and Perioperative Care, Division of Pain Medicine, University of California, San Francisco School of Medicine, San Francisco, California  
**Panelists:**  
- **Introduction: Balancing Societal and Individual Benefits and Risks of Prescription Opioid Use**  
  Richard Bonnie, LLB, Harrison Foundation Professor of Medicine and Law, Professor of Psychiatry and Neurobehavioral Sciences; Director, Institute of Law, Psychiatry and Public Policy, Professor of Public Policy, Frank Batten School of Leadership and Public Policy, The University of Virginia School of Law, Charlottesville, Virginia  
- **Evidence on Strategies for Addressing the Opioid Epidemic**  
  Mark A. Schumacher, MD, PhD  
- **Pain Management and Progress and Future Directions in Research on Pain and Opioid Use Disorder**  
  David Clark, MD, PhD, Professor, Anesthesiology, Perioperative and Pain Medicine, Professor, Medical Center Line, Anesthesiology, Perioperative and Pain Medicine, Member, Bio-X, Member, Stanford Neurosciences Institute, Stanford University School of Medicine, Palo Alto, California; Director of Pain Service, Veterans Affairs Palo Alto Health Care System, Palo Alto, California  
- **The Epidemiology of the Opioid Epidemic: Trends in Opioid Use and Harms**  
  Traci Green, PhD, MSc, Associate Professor, Emergency Medicine, Associate Director and Senior Scientist, Injury Prevention Research Center, Boston Medical Center, Boston, Massachusetts  
**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Discuss the epidemiology of the opioid epidemic and strategies to reduce harm; (2) Describe gaps and strategies to educate health professional trainees, physicians and the public on pain management, opioid use disorder and opioid prescribing practices; (3) Assess the potential impact of patients with opioid use disorder in the perioperative period; (4) Analyze the current and proposed changes to the FDA risk-benefit framework for opioid approval and monitoring; and (5) Formulate research questions that need to be addressed to assist private and public agencies in addressing the opioid epidemic.

Subspecialty Key: AP, BLD, CA, PA

9:15 am – 10:15 am  
**PBLD-28**  
Emergency TEVAR Patient Taking a Novel Oral Anticoagulant: Best Evidence for Coagulation Management  
**Presenter:** Michael Duggan, MD, FASE, Assistant Professor of Anesthesiology, Department of Anesthesiology, Emory University School of Medicine; Emory University Hospital, Atlanta, Georgia  
**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review the indications and superiority of novel anticoagulants (compared to warfarin) as means to aid the anesthesiologist in their understanding and identification of conditions for which surgical patients will present using these agents; (2) Review the pharmacologic considerations of the most frequently prescribed agents; (3) Discuss the availability and reliability of laboratory testing in patients using novel anticoagulants, including an in-depth interpretation of lab results including coagulation studies and point-of-care testing (thromboelastography); and (4) List reversal options using case-specific scenarios (preemptive reversal, reversal during active bleeding, urgent need for lumbar drain).

Subspecialty Key: AP, BLD, CA, PA
9:45 am – 11:15 am (continued)

Panel-40
Managing Professionalism Issues in the Workplace

Moderator: Michael Sandison, MBBCh, Professor of Anesthesiology, Vice Chair for Education, Albany Medical College, Albany, New York; President, SEA

Panelists:

- **Professionalism Problems for and with Trainees**
  Franklyn P. Cladis, MD, Associate Professor, Director, Pediatric Anesthesiology Fellowship Program, Department of Anesthesiology, University of Pittsburgh Medical Center, Children’s Hospital of Pittsburgh, Pittsburgh, Pennsylvania

- **Professionalism Problems for and with Staff: How They Differ**
  Annette Mizuguchi, MD, Assistant Professor, Department of Anesthesiology, Brigham and Women’s Hospital, Boston, Massachusetts

- **Administrative Approaches: Probation, Warnings and Documentation**
  Carol A. Diachun, MD, MSEd, Associate Chair for Education, Residency Program Director, Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

- **Training and Teaching to Avoid Professionalism Issues**
  John D. Mitchell, MD, Residency Program Director, Associate Professor of Anesthesia, Department of Anesthesia, Critical Care, and Pain Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the scope of professional problems in the perioperative workplace; (2) Discuss problems and solutions relevant for staff physicians; (3) Contrast professionalism issues and approaches for resolution in trainees to those of staff; (4) Formulate a plan for remediation; and (5) List evidence-based approaches to teaching coping skills and avoiding professionalism issues.

Subspecialty Key: EEP

10:00 am – 10:45 am

RCL-27
The Adult Patient with Congenital Heart Disease Presenting for Noncardiac Surgery

Presenter: Viviane Nasr, MD, Associate, Anesthesiology, Perioperative and Pain Medicine, Division of cardiac anesthesia, Boston Children’s Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the diverse epidemiology of Adult Congenital Heart Disease (ACHD); (2) Discuss perioperative risk assessment of ACHD; and (3) Describe perioperative anesthetic considerations of ACHD.

Subspecialty Key: CA, PA, PED, PS

10:30 am – 11:30 am

PBLD-29
Management of a Patient with Pulmonary Hypertension for Noncardiac Surgery: Anesthetic Implications

Presenter: Sudarshan Setty, MD, MBBS, Assistant Professor, Department of Anesthesiology, University of Minnesota Medical School, Minneapolis, Minnesota

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define the pathophysiology of pulmonary hypertension and identify the perioperative considerations in patients set to undergo noncardiac surgery; (2) Review the different techniques available for monitoring patients with pulmonary hypertension and the relative merits and demerits of each modality; (3) Discuss the complex hemodynamic variables influencing pulmonary hypertension, propose strategies for management of pulmonary hypertension in the operating room and the postoperative period and prepare changes in clinical practice; and (4) Review the current pharmacologic management of pulmonary hypertension and its implications for the anesthesiologist.

Subspecialty Key: AMB, BLD, CA, CC, PS
Tuesday, May 1

11:00 am – 11:45 am

RCL-28 SAGA The Dementia Brain: Considerations for Anesthesiologists

Presenters:
- Catherine Price, PhD, ABPP/CN, Associate Professor/ Paul Satz Term Professor, Clinical and Health Psychology/ Anesthesiology, University of Florida College of Medicine, Gainesville, Florida
- Brenda G. Fahy, MD, MCCM, Professor and Chair, 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) Summarize important behavioral differences of common neurodegenerative disorders encountered preoperatively; (2) Identify areas of the brain vulnerable to cortical (Alzheimer’s disease, Frontotemporal dementia) versus subcortical (small vessel vascular dementia, Parkinson’s disease with and without dementia); (3) Discuss potential interactions between neurodegenerative disease relative to anesthesia mechanisms; and (4) Discuss intelligently how pain management and medication management may differ for each behavioral profile.

Subspecialty Key: GA, NR, PA, PM, PME

The IARS Board of Trustees and the Annual Meeting Oversight Committee acknowledge with thanks the 2018 Session Proposal Review Panel Committee Members.

The Session Proposal Review Panel Committee Members played a critical role in selecting session proposals for presentation at the IARS 2018 Annual Meeting and International Science Symposium. This year, 277 total sessions were submitted and reviewed including 107 Panels, 63 Problem-Based Learning Discussions, 83 Review Course Lectures, 9 Symposia, and 15 Workshop sessions.

The Committee Members’ valuable perspectives and experience help develop IARS educational content which advances anesthesia education and research, and continues to improve care for our patients.

The Jay Pritzker Pavilion, located in Millenium Park, was designed by Frank Gehry and is the home of the Grant Park Symphony Orchestra and Chorus and the Grant Park Music Festival.
Clinical Research Consortium: Collaborative Research Initiative for Perioperative Clinical and Translational Science Meeting

A consortium of academic anesthesiology organizations has launched an initiative to help establish a clinical trials network in the U.S., which would focus on perioperative medicine, critical care, pain management, and peri- and post-partum care. These organizations include the Association of University Anesthesiologists (AUA), Early-Stage Anesthesiology Scholars (eSAS), the Foundation for Anesthesia Education and Research (FAER), the International Anesthesia Research Society (IARS), and the Society of Critical Care Anesthesiologists (SOCCA). The proposed clinical trials network could naturally collaborate with other existing international networks.

On May 1, 2018, from 1:00 pm to 4:00 pm, following the IARS, AUA and SOCCA Annual Meetings, there will be a symposium to launch this exciting initiative. This meeting will be open to those interested in anesthesiology-related clinical and translational science. The agenda for the symposium will include:

- Panel on innovative and efficient approaches to multicenter clinical trials. Presentation and review of three selected clinical trial protocols. The review will include constructive feedback regarding clarity of hypotheses, merit of research methods, and feasibility. The goal of the review panel is to address issues common to many proposals to ensure an educational experience for all investigators who attend the symposium, in addition to those whose proposals are selected.

- Presentations by the Duke Clinical Research Institute [DCRI] and the Multicenter Perioperative Outcomes Group [MPOG]. These exemplify organizations that can serve as data coordinating centers and provide other “core” support to clinical trials.

See the box on this page for additional information on how to submit a letter of intent by the submission deadline. **Submission deadline is Sunday, December 31, 2017.**

**Affiliate Society Meetings • Tuesday, May 1**

1:00 pm – 4:00 pm

1:00 pm – 6:00 pm

2nd Symposium of the Society for the Advancement of Transplant Anesthesia (SATA)

The Society for the Advancement of Transplant Anesthesia (SATA) will host a national conference for transplant anesthesiologists and critical care physicians. The didactic sessions will consist of panels, pro/con debates and problem-based case discussions. The main themes of the 2018 conference will be Anesthetic Management of the Organ Donor (cadaveric and living) and Anesthetic Priorities for the Safe Management of Kidney and Thoracic Organ Transplant Recipients. National and international experts in the field will deliver lectures, interactive case presentations and discussions with an emphasis on controversial topics in transplant anesthesiology and critical care medicine.

**Mission:** The Society for the Advancement of Transplant Anesthesia (SATA) is an independent clinician-based association founded to serve the educational and professional needs of anesthesiologists, critical care specialists, residents and fellows, and other anesthesia practitioners involved in the field of organ transplantation. SATA's mission is to improve the perioperative care of the organ donor and transplant recipient. SATA's goal is greater utilization of donor tissues and organs with better outcomes for more recipients. In order to accomplish this goal, members of SATA are working towards the establishment of evidence-based guidelines and standards for clinical practice management, expansion of educational and training programs, as well as facilitating and conducting innovative research.

Build and expand your professional network and make the most of your Annual Meeting experience with the

**IARS, AUA & SOCCA 2018 Mobile App!**

Available for iPhone, iPad, Android and HTML5 for Blackberry

With the **IARS, AUA & SOCCA 2018 App**, you can network with your colleagues and peers, view the complete event schedule, explore sessions, and review detailed speaker information. Keep informed of the highlights of the day through the app’s Activity Feed, providing useful comments, photos, ratings, surveys and more!
General Information

Annual Meeting Registration

Online registration opens December 2017! Register early and save at www.iars.org! Register online before Thursday, February 22, 2018, to take advantage of early reduced registration rates!

Online registration will close on Thursday, April 12, 2018. After this date, you will need to register for the meeting onsite in Chicago, Illinois.

IARS Onsite Registration Hours
Thursday, April 26 6:00 am – 6:00 pm
Friday, April 27 6:00 am – 6:00 pm
Saturday, April 28 6:00 am – 6:00 pm
Sunday, April 29 6:00 am – 6:00 pm
Monday, April 30 6:00 am – 6:00 pm
Tuesday, May 1 7:00 am – 12:00 pm

Annual Meeting Registration Cancellation Policy
Registrations canceled on or before Thursday, April 12, 2018, will be refunded, less a $50 processing charge. Registration fees will not be refunded if canceled after Thursday, April 12, 2018. All Workshops and the Scholars’ Program sessions require a separate non-refundable fee and pre-registration.

Visit www.iars.org for more information on registration for the IARS 2018 Annual Meeting.

Other Information

Special Services
If you have a special need, please contact the IARS staff at meetings@iars.org.

No Smoking Policy
Smoking is not permitted at any IARS-sponsored events.

Photography Release
The IARS plans to take photographs at the Annual Meeting and reproduce them in the IARS news or promotional materials, whether in print, electronic or other media, including the IARS website. By participating in the IARS 2018 Annual Meeting, you grant the IARS the right to use your name, photograph, and biography for such purposes.

IARS On Demand – Back in 2018!
IARS On Demand will maximize your Annual Meeting investment!

The CME-accredited IARS On Demand program includes easy access to an online library of 80 hours of educational content from the meeting. Revisit sessions you attended and participate in those you missed any time, anywhere.

Select the Gold Registration Upgrade on your registration form and lock-in pre-registration savings!

IARS, AUA & SOCCA 2018 Annual Meetings App
The IARS, AUA & SOCCA 2018 Annual Meetings will feature an interactive app that will allow you to view the complete event schedule, explore all sessions, and get detailed presenter information.

Expand your professional network and make the most of your Annual Meeting experience! Visit www.iars.org for more information.

Sessions and Special Events

IARS First-Time Attendee Orientation and Networking Session
At the IARS First-Time Attendee Orientation and Networking Session on Friday, April 27, 5:00 pm – 6:00 pm, review what’s new at the IARS Annual Meeting and gain strategies to make the most of your experience and maximize the value to you. Meet other first-time attendees and learn from loyal return attendees. Sign-up during registration to attend this session!

Dine-Around Sessions
Make friends and gain mentors in the casual setting of a Dine-Around while discussing the top-of-mind anesthesia topics during the two sessions on Friday, April 27, 7:30 pm – 9:00 pm and Sunday, April 29, 6:30 pm – 8:00 pm. Take advantage of this unique opportunity for a more meaningful networking experience. Space is limited and pre-registration is required. Attendees may attend both sessions if space is available. Locations will be provided by IARS. Dining costs are the responsibility of attendees. Sign-up during registration and make sure you secure one of the limited spaces.

IARS, AUA, SOCCA & eSAS Scholars’ Program Mentor-Trainee Reception
Network and socialize with fellow scholars, plus participate in mentoring opportunities, Friday, April 27, 6:00 pm – 7:00 pm. The Mentor-Trainee Reception is part of the Scholars’ Program and requires a separate, non-refundable fee and pre-registration.

IARS, AUA & SOCCA Alignment reception
Come together and celebrate the convergence of the IARS, AUA & SOCCA Annual Meetings and meet the leaders in all subspecialties in anesthesiology in one location, Chicago, Illinois. Relax, unwind and join your colleagues and peers on Saturday, April 28, 6:00 pm – 7:30 pm.

Travel Tips for Chicago, Illinois

Chicago, Illinois, Airports
In the Chicago area, there are two major airports: Chicago O’Hare International Airport (airport code: ORD) and Chicago Midway International Airport (airport code: MDW). Both airports offer U.S. and international flights daily.

O’Hare International Airport is 18 miles from the Hyatt Regency Chicago or a 45-minute drive. Expected travel time from O’Hare International Airport to hotel can be a 1 hour and 40-minute drive depending on traffic. Midway International Airport is 12 miles from airport to hotel or a 35-minute drive. Expected travel time from Midway International Airport to hotel can be a 55-minute drive depending on traffic.


Weather: Springtime in Chicago means blooming flowers and a lively lakefront. Temperatures start to warm up with April typically in the 50s °F (10-15°C) and May weather up to around 70°F (21°C). Expect the chance for occasional showers.
Hotel Information

Headquarters Hotel: Hyatt Regency Chicago
Make Your Hotel Reservation Today!

The Hyatt Regency Chicago offers a chic, downtown retreat, located steps from the Magnificent Mile and iconic Chicago destinations. Slip away for an afternoon at The Art Institute of Chicago, ride on the Chicago Architectural Foundation’s boat tour, or snap a photo in front of Cloud Gate, locally known as the Bean. Plus, savor the unparalleled views of downtown and Navy Pier from the Hyatt Regency Chicago.

Headquarters Hotel
Hyatt Regency Chicago
151 East Wacker Drive
Chicago, Illinois, USA, 60601

All education sessions, special events and tabletop exhibits will take place at the Hyatt Regency Chicago except where noted in the Preliminary Program.

Hotel Reservations
IARS has secured a limited block of rooms for meeting attendees at the Hyatt Regency Chicago.

Housing will open in December 2017. Visit bit.ly/IARS18hotel for more information.

Hotel Reservation Cancellation Policy
To avoid a one night room and tax charge, reservations must be cancelled within 72 hours of arrival.

Room Rates
The special IARS conference rate for either single or double occupancy is $219.

Room rates are quoted exclusive of state and local taxes, fees and assessments, currently 16.4%. Taxes are subject to change. Quoted rates will be offered based on availability. The additional fee for every third occupant in a room is $25 per person and $50 per person for a fourth occupant.

Deadlines
Chicago, Illinois, in April is a popular travel destination and hotel rooms sellout rapidly! Special Hotel Rates for IARS Attendees end Thursday, March 29, 2018. Rooms are limited and available on a first come, first-served basis.

We highly recommend you book early to guarantee a room reservation at the Headquarters Hotel.
REGISTRATION FORM
IARS 2018 Annual Meeting and International Science Symposium
April 28 – May 1, 2018 • Hyatt Regency Chicago • Chicago, Illinois
Registration Opens December 2017 at www.iars.org!

FIRST NAME ____________________________ MIDDLE NAME ________________________ LAST NAME ______________________________________________

☐ MD  ☐ DO  ☐ PhD  ☐ CRNA  ☐ Other ____________________________ ORGANIZATIONAL JOB TITLE __________________________________________

INSTITUTION/ORGANIZATION NAME _______________________________________________________________________________________________________

MAILING ADDRESS  ☐ Home  ☐ Work _____________________________________________________________________________________________________

___________________________________________________________________________________________________________________________________________

CITY ___________________________________________ STATE __________________ POSTAL CODE __________________ COUNTRY __________________________

PHONE  ☐ Home  ☐ Work  ☐ Cell _______________________________________ EMAIL _________________________________________________________

☐ SPECIAL SERVICES REQUIRED: _____________________________________________________________

IARS On Demand will maximize your Annual Meeting investment!
Select the Gold Registration Upgrade on your registration form and lock-in pre-registration savings! The Gold Registration Upgrade adds the IARS On Demand, an online library with 80 hours of educational content from the meeting to your registration package. Revisit sessions you attended and participate in those you missed anytime, anywhere. Plus, earn additional CME credits. Add the Gold Registration Upgrade to any registration below and make the most of your Annual Meeting investment.

MEMBER REGISTRATION FEES
□ General Registration $450 $550 $650 $
□ Scholar Registration (Please check level) ☐ Fellow ☐ Resident ☐ Student $200 $200 $300 $

NON-MEMBER REGISTRATION FEES
□ General Registration $700 $800 $900 $
□ Scholar Registration (Please check level) ☐ Fellow ☐ Resident ☐ Student $450 $450 $550 $

GOLD REGISTRATION UPGRADE
□ Gold Registration Upgrade (Member) $300 $
□ Gold Registration Upgrade (Non-Member) $400 $

SUBTOTAL

SESSIONS AND SPECIAL EVENTS

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<td>ORIENTATION</td>
<td>Session included with meeting registration fee. Seating is limited and pre-registration is required.</td>
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| Friday, April 27 5:00 pm – 6:00 pm First-Time Attendee Orientation and Networking Session | $0 | $

IARS, AUA & SOCCA ALIGNMENT RECEPTION | Session included in general registration. Pre-registration is required. |
| Saturday, April 28 6:00 pm – 7:30 pm IARS, AUA & SOCCA Alignment Reception | $0 | $

DINE-AROUNDS
Space is limited and pre-registration is required. These 10-person dinners offer attendees an opportunity for a more meaningful networking experience. Each Dine-Around Session will include 5-6 groups with 2 expert facilitators per group. Topics, locations, restaurant cuisines and price points will be available closer to the meeting date. Dining costs are the responsibility of attendees.

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</table>
| Friday, April 27 7:30 pm – 9:00 pm Dine-Around Session 1 | $0 | $
| Sunday, April 29 6:30 pm – 8:00 pm Dine-Around Session 2 | $0 | $

OPENING GENERAL SESSION AND T.H. SELDON MEMORIAL LECTURE
Pre-registration is required. Included with meeting registration fee.

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| Saturday, April 28 7:30 am – 9:00 am Opening General Session and T.H. Seldon Memorial Lecture: Personalizing Health Care in the Era of Big Data | $0 | $

(continued)
**Registration Form**

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<td><strong>SYMPOSIA</strong></td>
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<tr>
<td>□ Saturday, April 28</td>
<td>9:30 am – 12:00 pm</td>
<td>S-01: AUA: Mitochondria and Bioenergetics in Health and Disease: It's Not Just A Power Failure!</td>
<td>$0</td>
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<tr>
<td>□ Saturday, April 28</td>
<td>3:30 pm – 6:00 pm</td>
<td>S-02: SAGA: Perioperative Care of the Frail or High-Risk Older Patient: Current Knowledge and Future Directions</td>
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<tr>
<td>□ Sunday, April 29</td>
<td>9:30 am – 12:00 pm</td>
<td>ISS: International Science Symposium: Designing Drugs: Transforming Anesthesiology Practice</td>
<td>$0</td>
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<tr>
<td>□ Sunday, April 29</td>
<td>3:30 pm – 6:00 pm</td>
<td>S-03: CAS: Social Accountability: How Can Anesthesiology Face the Challenge?</td>
<td>$0</td>
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<tr>
<td>□ Monday, April 30</td>
<td>9:30 am – 12:00 pm</td>
<td>S-04: A&amp;A: Acute Kidney Injury in the Perioperative Period: From Bench to Bedside</td>
<td>$0</td>
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<td>□ Monday, April 30</td>
<td>3:30 pm – 6:00 pm</td>
<td>S-05: A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer’s Disease</td>
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**SCHOLARS’ PROGRAM**

*Pre-registration is required. The Scholars' Program requires a separate non-refundable fee and includes education sessions, reception, breakfast and lunch* $50 $________

Select all sessions you will be attending during the Scholars’ Program below:

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<tr>
<th>DATE</th>
<th>TIME</th>
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<tbody>
<tr>
<td>□ Friday, April 27</td>
<td>6:00 pm – 7:00 pm</td>
<td>IARS, AUA, SOCCA &amp; eSAS Mentor-Trainee Reception</td>
<td>$0</td>
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<tr>
<td>□ Saturday, April 28</td>
<td>6:15 am – 7:15 am</td>
<td>Breakfast with IARS, AUA &amp; SOCCA Presidents</td>
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<tr>
<td>□ Saturday, April 28</td>
<td>9:30 am – 6:10 pm</td>
<td>Education Sessions (see Preliminary Program page 6 for session details)</td>
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<tr>
<td>□ Saturday, April 28</td>
<td>12:30pm – 2:00 pm</td>
<td>Lunch Session: Resilience Personified: Transitioning from Trainee to Junior Faculty and Beyond</td>
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**WORKSHOPS**

*Seating is limited. Workshops require a separate non-refundable fee and pre-registration.*

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<th>DATE</th>
<th>TIME</th>
<th>SESSION #/TITLE</th>
<th>FEES</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Saturday, April 28</td>
<td>9:30 am – 12:30 pm</td>
<td>W-01: Focused Cardiovascular Ultrasound (FoCUS): It’s for Everyone!</td>
<td>$200</td>
<td>$________</td>
</tr>
<tr>
<td>□ Saturday, April 28</td>
<td>2:00 pm – 5:00 pm</td>
<td>W-02: Advanced Perioperative Ultrasound</td>
<td>$200</td>
<td>$________</td>
</tr>
<tr>
<td>□ Sunday, April 29</td>
<td>9:30 am – 12:30 pm</td>
<td>W-03: Truncal Blocks Workshop: An Enhanced Recovery After Surgery (ERAS) Approach</td>
<td>$200</td>
<td>$________</td>
</tr>
<tr>
<td>□ Sunday, April 29</td>
<td>2:00 pm – 5:00 pm</td>
<td>W-04: Teaching Anesthesia Teams to Perform After Action Reviews: Lessons Learned from Aviation and Health Care</td>
<td>$200</td>
<td>$________</td>
</tr>
<tr>
<td>□ Monday, April 30</td>
<td>9:30 am – 12:30 pm</td>
<td>W-05: SAGA: Interactive Boot Camp for Brief Perioperative Cognitive Assessment</td>
<td>$200</td>
<td>$________</td>
</tr>
<tr>
<td>□ Monday, April 30</td>
<td>2:00 pm – 5:00 pm</td>
<td>W-06: Transformational Leadership: You’re Not a Born Leader!</td>
<td>$200</td>
<td>$________</td>
</tr>
</tbody>
</table>

**PROBLEM-BASED LEARNING DISCUSSIONS (PBLDs):**

*For information only. PBLDs Require Online Registration.*

Seating is limited to 12 participants per PBLD. There is no additional fee to attend, however, you must pre-register to guarantee a seat. PBLDs are offered throughout the day, Saturday, April 28 – Tuesday, May 1. Please refer to the online registration form to select your PBLD sessions.

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Registration opens December 2017! Visit www.iars.org for more details!
Map of IARS 2018 Annual Meeting Headquarters Hotel, Hyatt Regency Chicago, and Surrounding Attractions

Key for Attractions Near the Hyatt Regency Chicago

1. 360 Chicago
2. Adler Planetarium
3. Buckingham Fountain
4. Chicago Children's Museum
5. Chicago French Market
6. Chicago Riverwalk
7. Chicago Shakespeare Theater
8. Chicago Symphony Center
9. DuSable Bridge
10. Goodman Theater
11. Grant Park
12. House of Blues Chicago
13. Lakefront Trail
14. Maggie Daley Park
15. Magnificent Mile
16. Millennium Park (Cloud Gate/The Bean, Pritzker Pavilion, Crown Fountain)
17. Museum of Contemporary Art
18. Navy Pier
19. Shedd Aquarium
20. Skydeck Chicago – The Ledge
21. The Art Institute of Chicago
22. The Chicago Theater
23. The Field Museum
24. Theatres at Roosevelt
THANK YOU TO THE SESSION PROPOSAL REVIEW PANEL COMMITTEE

for the IARS 2018 Annual Meeting and International Science Symposium
April 28 – May 1 • Chicago, Illinois

The International Anesthesia Research Society Board of Trustees and the Annual Meeting Oversight Committee acknowledge with thanks the following 2018 Session Proposal Review Panel Committee Members.

The Session Proposal Review Panel Committee Members played a critical role in selecting session proposals for presentation at the IARS 2018 Annual Meeting and International Science Symposium. This year, 277 total sessions were submitted and reviewed including 107 Panels, 63 Problem-Based Learning Discussions, 83 Review Course Lectures, 9 Symposia, and 15 Workshop sessions.

The Committee Members’ valuable perspectives and experience help develop IARS educational content which advances anesthesia education and research, and continues to improve care for our patients.

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