SCA 22nd ANNUAL

ECHO WEEK

Comprehensive Review & Advanced Applications of Perioperative Echo

FEBRUARY 17–22, 2019
Loews Atlanta Hotel | Atlanta, GA

www.scahq.org | #SCAEchoWeek

CONNECT TO WIFI

Network Name: ECHO19
Password: ECHO19
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How to Connect

Up-to-date information on the meeting can be easily found by following @scahq on Twitter or liking the SCA Facebook page.
GENERAL INFORMATION

The SCA 22nd Annual Echo Week: Comprehensive Review and Advanced Applications of Perioperative Echocardiography is a 5-day course covering the fundamentals of echocardiography and exploring its applications. This interdisciplinary program has been developed to meet the continuing demand for education on the applications of ultrasound technologies as a fundamental diagnostic modality and a monitor of perioperative cardiac performance.

CME Information

Attendees can review general continuing medical education (CME) information for the meeting, including designation and accreditation information, learning objectives, and faculty disclosures, by visiting www.scahq.org/echoweek/education.

How to Claim Your CME

To claim CME credit, visit www.scahq.org/echoweek and complete your 2019 Echo Week evaluations. You must complete the evaluations by May 31, 2019, to claim credit. The deadline will not be extended.

Echo Week On Demand

Echo Week On Demand is an online library with more than 30 hours of educational content from the meeting. Revisit sessions you attended and participate in those you missed—anytime, anywhere. Plus, earn additional CME credits. Purchase the product at the onsite booth for a discounted rate!

Disclaimer

The material presented in this activity represents the opinion of the faculty and does not necessarily reflect the views of SCA.

Earn MOCA® Credit

The CME credits you earn at Echo Week can help fulfill your ABA Maintenance of Certification in Anesthesiology™ Part II credit requirement. Now, you also can earn Patient Safety credits for select sessions. Part II Patient Safety sessions are identified by the MOCA icon in the schedule.

Please note: To qualify for MOCA credit, you must attend the full session and complete a session evaluation. SCA reports Society members’ Part II credits directly to ABA as a member benefit.

Registration

The registration desk will be located outside the Ellington Ballroom during the following hours:

- Sunday, February 17 .............. 2:30–7:15 pm
- Monday, February 18 ............. 6 am–3:30 pm
- Tuesday, February 19 .......... 6:30 am–1:30 pm
  5–6:45 pm
- Wednesday, February 20 ......... 6:15 am–5 pm
- Thursday, February 21.......... 7 am–5:30 pm
- Friday, February 22 .............. 7–8:30 am

Media Use

Video Recording

By attending this SCA event, you agree not to record or digitize any parts of the scientific programming.

Photography

Please be advised that photos may be taken throughout the meeting for use in SCA marketing materials, including the e-newsletter and SCA Facebook and Twitter pages. If you do not consent to being photographed, please advise the SCA staff in writing at info@scahq.org.
ECHO WEEK APP

Access the App
Echo Week abstracts and evaluations are available electronically. Attendees will have access to Echo Week materials before, during, and after the meeting. To access them:

- Visit www.scahq.org/echoweek on our website.

Via the SCA Meeting app:

- Download the app to your mobile device or tablet. Search SCA Meetings in your app store.

All preregistered attendees received meeting app login instructions prior to the start of Echo Week. The meeting app can be accessed via a mobile device, tablet, or computer. Log in with the email you used to register and the password ECHO19. Echo Week materials will be available through fall 2019.

Session Engagement Tools
Polling allows speakers to ask the audience questions during their presentations and then display the responses in real time. This is the tool you will use for all self-assessments at the Days in Review, Pre-Test, and Post-Test.

Use Social Q&A to submit your questions to the panelists during every presentation before the “Panel Discussion with Audience Participation” at the end of the session.

These engagement tools are found in the meeting app and will be used at nearly all sessions. Follow the steps below to access them.

- Click on the Schedule icon and select the session.
- Click on the Polling icon for both tools.
- Polling—When you see a question appear during the presentation, select the corresponding question under Polls to submit your response and watch as the votes come in!
- Social Q&A—Click the Ask button to submit a question. Did someone else already ask your question? Upvote it by clicking the arrow icon.
PROGRAM COMMITTEE AND FACULTY

Disclosures of Relevant Financial Relationships: Faculty disclosures are available online at www.scahq.org/echoweek/education.

Program Directors

Feroze Mahmood, MD FASE
Mark A. Taylor, MD FASE

Program Planning Committee

Kim Howard-Quijano, MD MS
Megan L. Krajewski, MD
Andrew D. Maslow, MD
Massimiliano Meineri, MD
Alina Nicoara, MD FASE
Charles B. Nyman, MBBCCh

Kent H. Rehfeldt, MD FASE
Stanton K. Sherman, MD
Douglas C. Shook, MD
Nikolaos J. Skubas, MD
Madhav Swaminathan, MD
Annette Vegas, MDCM FRCPC
FACULTY

**Michael N. Andrawes, MD**  
Cardiothoracic Anesthesiology Fellowship  
Director, Department of Anesthesia, Critical Care, and Pain Medicine  
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Assistant Professor, Anesthesiology  
Yale University  
New Haven, CT

**Bruce A. Bollen, MD**  
Anesthesiologist  
Missoula Anesthesiology/International Heart Institute MT  
Missoula, MT

**Nelson H. Burbano, MD**  
Pediatric and Adult Cardiac Anesthesiologist, Anesthesiology Institute  
Cleveland Clinic  
Cleveland, OH

**Amy L. Duhachek-Stapelman, MD**  
University of Nebraska Medical Center  
Bennington, NE

**Kim Howard-Quijano, MD MS**  
Associate Professor, Anesthesiology and Perioperative Medicine  
University of Pittsburgh School of Medicine  
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**Ravi V. Joshi, MD FASE**  
Associate Professor of Anesthesiology, Anesthesiology and Pain Management  
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Dallas, TX

**Kamal Khabbaz, MD**  
Chief, Cardiac Surgery  
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Director Cardiac Anesthesia, Anesthesia and Critical Care  
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Professor  
Harvard Medical School  
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**Yasdet Maldonado, MD**  
Cleveland Clinic  
Cleveland, OH

**Timothy M. Maus, MD**  
Clinical Professor, Anesthesiology  
University of California, San Diego  
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**Sharon L. McCartney, MD FASE**  
Assistant Professor  
Duke University  
Durham, NC

**Massimiliano Meineri, MD**  
Associate Professor of Anesthesia  
University of Toronto  
Toronto, Canada

**Alexander Mittnacht, MD**  
Professor, Anesthesiology  
The Icahn School of Medicine at Mount Sinai  
New York, NY

**Jacques Neelankavil, MD**  
Director, Perioperative Echocardiography  
University of California, Los Angeles  
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Faculty (continued)

Alina Nicoara, MD FASE  
Associate Professor of Anesthesiology  
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Durham, NC

Charles B. Nyman, MBBCCh  
Program Director, Adult Cardiothoracic  
Anesthesiology Fellowship, Anesthesiology  
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Catherine M. Otto, MD  
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University of Washington  
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Sheela Pai Cole, MD FASE  
Clinical Associate Professor, Anesthesiology,  
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Peter J. Panzica, MD  
Vice Chair and Assistant Professor of Clinical  
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Associate Professor of Anesthesiology  
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Nikolaos J. Skubas, MD  
Chairman, Cardiothoracic Anesthesiology  
Cleveland Clinic  
Cleveland, OH

Madhav Swaminathan, MD  
Professor, Anesthesiology  
Duke University  
Durham, NC

Bradley Taylor, MD  
Cardiovascular Surgeon, Cardiac Surgery  
University of Maryland Medical Center  
Baltimore, MD

Mark A. Taylor, MD FASE  
Department Chair Enterprise Surgical Operations  
Cleveland Clinic Foundation  
Cleveland, OH

Christopher A. Troianos, MD FASE  
Professor and Chair, Anesthesiology Institute  
Cleveland Clinic/Lerner College of Medicine  
Cleveland, OH

Annette Vegas, MDCM FRCPC  
Professor of Anesthesiology  
Toronto General Hospital  
Toronto, Canada
SCHEDULE

Unless otherwise noted, all sessions will take place in Ellington Ballroom.

Sunday, February 17

2:30–7:15 pm
Registration Open

4:45–5 pm
Introduction

5–8 pm
Core Concepts—Self Assessment and Review
Moderators: Feroze Mahmood, MD; Peter Panzica, MD; Mark Taylor, MD

Monday, February 18

Anatomy & Ventricular Function
6 am–3:30 pm
Registration Open

6:45–7:15 am
Continental Breakfast

7:30–11 am
Hands-On Porcine Heart Dissection with 2D and 3D Echocardiographic Correlation: Apply Anatomy and Imaging to Surgical and Structural Heart Decision Making
Moderator: Douglas Shook, MD

11 am–12:30 pm
Lunch on Own

12:30–1 pm
Overview and Announcements

1–2:30 pm
Ventricular Function
Moderator: Annette Vegas, MDCM

1–1:25 pm
Comprehensive Case-Based Left Ventricular Systolic Function
Sheela Pai Cole, MD

1:25–1:50 pm
Comprehensive Case-Based Right Ventricular Function Assessment
Alexander Mittnacht, MD

1:50–2:15 pm
Practical Diastology
Wanda Popescu, MD

2:15–2:30 pm
Panel Discussion with Audience Participation

2:30–3 pm
Coffee Break

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3–4:30 pm

**Tissue Doppler and Cardiac Kinetics**

*Moderator: Massimiliano Meineri, MD*

- 3–3:25 pm  
  Tissue Doppler and Tissue Velocity  
  *Nikolaos Skubas, MD*
- 3:25–3:50 pm  
  Principles of Speckle Tracking  
  *Kim Howard-Quijano, MD*
- 3:50–4:15 pm  
  Clinical Applications of Strain  
  *Annette Vegas, MDCM*
- 4:15–4:30 pm  
  Panel Discussion with Audience Participation

4:30–5 pm

**Coffee Break**

5–6:30 pm

**Potpourri I**

*Moderator: Annette Vegas, MDCM*

- 5–5:25 pm  
  Artifacts and Pitfalls  
  *Yasdet Maldonado, MD*
- 5:25–5:50 pm  
  Pericardial Disease  
  *Wanda Popescu, MD*
- 5:50–6:15 pm  
  Intra-Cardiac Masses  
  *Peter Panzica, MD*
- 6:15–6:30 pm  
  Panel Discussion with Audience Participation

6:30–7:30 pm

**Day in Review**

*Moderator: Peter Panzica, MD*

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**Tuesday, February 19**

**Principles of 3D Imaging & Valves**

6:30 am–1:30 pm

**Registration Open**

7–7:30 am

**Continental Breakfast with Exhibitors**

7:30–7:45 am

**Overview and Announcements**

7:45–9 am

**3D Symposium I**

*Moderator: Massimiliano Meineri, MD*

- 7:45–8 am  
  Basics of 3D Physics and Image Formation  
  *Feroze Mahmood, MD*
- 8–8:15 am  
  3D Terminology and Imaging Modes  
  *Douglas Shook, MD*
- 8:15–8:30 am  
  Introduction to Multi-Planar Reformatting  
  *Stanton Shernan, MD*
- 8:30–8:45 am  
  How 3D Imaging Makes a Difference—Clinical Cases  
  *Annette Vegas, MDCM*
- 8:45–9 am  
  Panel Discussion with Audience Participation

9–9:30 am

**Coffee Break with Exhibitors**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30–11:30 am</td>
<td><strong>Aortic Valve Symposium</strong></td>
</tr>
</tbody>
</table>
| 9:30–9:55 am | Echocardiographic Quantification of Aortic Stenosis  
*Kim Howard-Quijano, MD* |
| 9:55–10:20 am| Echocardiographic Quantification of Difficult Subgroups  
*Mark Taylor, MD* |
| 10:20–10:45 am| Echocardiographic Quantification of Aortic Regurgitation  
*Sheela Pai Cole, MD* |
| 10:45–11:10 am| Challenging Aortic Valve Case Presentation  
*Mark Taylor, MD* |
| 11:10–11:30 am| Panel Discussion with Audience Participation |
| 11:30 am–12:15 pm| **Prosthetic Valve Symposium**                                        |
| 11:30–11:50 am| Prosthetic Valves—Principles of Echocardiographic Visualization  
*Yasdet Maldonado, MD* |
| 11:50 am–12:10 pm| Hemodynamic Assessment of Prosthetic Valves  
*Amit Bardia, MBBS* |
| 12:10–12:15 pm| Panel Discussion with Audience Participation |
| 12:15–1:15 pm| **Lunch Provided**                                                    |
| 1:15–3 pm    | **Tricuspid Valve Symposium**                                         |
| 1:15–1:35 pm | Echocardiographic Assessment of Tricuspid Valve  
*Peter Panzica, MD* |
| 1:35–1:55 pm | Comprehensive Assessment of Tricuspid Regurgitation  
*Alexander Mittnacht, MD* |
| 1:55–2:15 pm | Functional Tricuspid Regurgitation in Left-Sided Disease  
*Massimiliano Meineri, MD* |
| 2:15–2:35 pm | Challenging Tricuspid Valve Case Presentation  
*Douglas Shook, MD* |
| 2:35–3 pm   | Panel Discussion with Audience Participation |
| 3–3:30 pm    | **Coffee Break with Exhibitors**                                      |
| 3:30–5:30 pm| **Mitral Valve Symposium**                                            |
| 3:30–3:50 pm | Echocardiography of Mitral Valve Apparatus  
*Annette Vegas, MDCM* |
| 3:50–4:10 pm | Mitral Regurgitation—Comprehensive Assessment  
*Madhav Swaminathan, MD* |
| 4:10–4:30 pm| Ischemic Mitral Regurgitation and Echocardiographic Indices of Remodeling  
*Douglas Shook, MD* |
| 4:30–4:50 pm | Mitral Stenosis  
*Sharon McCartney, MD* |
| 4:50–5:10 pm| Challenging Mitral Valve Case Presentation  
*Feroze Mahmood, MD* |
| 5:10–5:30 pm| Panel Discussion with Audience Participation |
| 5–6:45 pm    | **Registration Open**                                                 |
| 5:30–6:30 pm| **Welcome Reception**                                                 |
|              | *The Maintenance of Certification in Anesthesiology™ (MOCA®) program logo is a trademark of the American Board of Anesthesiology.* |

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6:30–7:30 pm
Day in Review
Moderator: Peter Panzica, MD

Wednesday, February 20

Advanced 3D Imaging, Innovations, & Dilemmas
6:15 am–5 pm
Registration Open

6:30–7:25 am
Continental Breakfast with Exhibitors

6:45–7:45 am
3D Image Acquisition Workshop
Mercer Ballroom
See page 16 for full details. Separate registration required.

7:45–8 am
Announcements

8–9:40 am
3D Symposium II
Moderator: Feroze Mahmood, MD

8–8:20 am Essential 3D Examination Kent Rehfeldt, MD
8:20–8:40 am 3D Imaging Platforms—Compare and Contrast Amy Duhachek-Stapelman, MD
8:40–9 am 3D Imaging Artifacts and Pitfalls Amit Bardia, MBBS
9–9:20 am Qualitative and Quantitative Aspects of 3D Imaging Stanton Shernan, MD
9:20–9:40 am Panel Discussion with Audience Participation

9:40–10:10 am
Coffee Break with Exhibitors

10:10 am–Noon
Innovations in Echocardiography
Moderator: Bruce Bollen, MD

10:10–10:30 am Co-Registration and Fusion Imaging Charles Nyman, MBCh
10:30–10:50 am Artificial Intelligence and Valve Analyses Alina Nicoara, MD
10:50–11:30 am Perioperative Echocardiography—The Future Madhav Swaminathan, MD
11:30 am–Noon Panel Discussion with Audience Participation

Noon–1:30 pm
Lunch Provided
Overlook Room

1:30–3 pm
Moderates Session
Moderator: Feroze Mahmood, MD
Panelists: Kamal Khabbaz, MD; Stanton Shernan, MD; Bradley Taylor, MD; Christopher Trojanos, MD

1:30–2 pm Moderate Mitral Regurgitation Madhav Swaminathan, MD
2–2:30 pm Moderate Aortic Stenosis Mark Taylor, MD
2:30–3 pm Moderate Tricuspid Regurgitation Timothy Maus, MD
3–3:30 pm
Coffee Break with Exhibitors

3:30–5 pm
Potpourri II
Moderator: Charles Nyman, MBCh

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>3:30–4:10 pm</td>
<td>Adult Congenital Heart Disease <strong>Nelson Burbano, MD</strong></td>
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<td>4:10–4:30 pm</td>
<td>Anuloplasty Rings <strong>Kamal Khabbaz, MD</strong></td>
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<td>4:30–4:50 pm</td>
<td>Rescue Transesophageal Echocardiography <strong>Christopher Troianos, MD</strong></td>
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<tr>
<td>4:50–5 pm</td>
<td>Panel Discussion with Audience Participation</td>
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5–6 pm
Day in Review
Moderator: Megan Krajewski, MD

6–7 pm
Poster Session with Reception
Overlook Room

**Thursday, February 21**

Decision Making & Cases

7 am–5:30 pm
Registration Open

7–7:30 am
Continental Breakfast with Exhibitors

7:30–9:30 am
**Decision Making in Mitral Valve Surgery**
Moderator: Bruce Bollen, MD

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<tbody>
<tr>
<td>7:30–7:50 am</td>
<td>Surgeon's Expectation from a Pre-Repair Examination of Mitral Valve <strong>Kamal Khabbaz, MD</strong></td>
</tr>
<tr>
<td>7:50–8:10 am</td>
<td>Pre-Repair Echocardiographic Assessment—What Do I Tell the Surgeon? <strong>Christopher Troianos, MD</strong></td>
</tr>
<tr>
<td>8:10–8:30 am</td>
<td>Assessment of a Repaired Mitral Valve <strong>Alina Nicoara, MD</strong></td>
</tr>
<tr>
<td>8:30–8:50 am</td>
<td>Ischemic Mitral Regurgitation—Guidelines and Clinical Dilemmas: Surgical Perspective <strong>Bradley Taylor, MD</strong></td>
</tr>
<tr>
<td>8:50–9:10 am</td>
<td>Mitral Valve Case Presentation <strong>Timothy Maus, MD</strong></td>
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<tr>
<td>9:10–9:30 am</td>
<td>Panel Discussion with Audience Participation</td>
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9:30–10 am
Coffee Break with Exhibitors

10–11:30 am
**Decision Making in Aortic Valve Surgery**
Moderator: Timothy Maus, MD

<table>
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<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>10–10:20 am</td>
<td>Controversies in the Intraoperative Assessment of Aortic Stenosis <strong>Kent Rehfeldt, MD</strong></td>
</tr>
<tr>
<td>10:20–10:40 am</td>
<td>Aortic Valve Repair—Surgical Perspective <strong>Bradley Taylor, MD</strong></td>
</tr>
<tr>
<td>10:40–11 am</td>
<td>New Concepts in Echocardiographic Imaging of the Aortic Valve <strong>Stanton Sherman, MD</strong></td>
</tr>
<tr>
<td>11–11:30 am</td>
<td>Aortic Valve Case Presentations/Panel Discussion with Audience Participation <strong>Ravi Joshi, MD</strong></td>
</tr>
</tbody>
</table>

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11:30 am–Noon
Lunch Provided  
Ellington Foyer

Noon–12:45 pm
12th Annual Arthur E. Weyman, MD Lecture
Moderators: Feroze Mahmood, MD; Mark Taylor, MD
Aortic Stenosis: Time to Intervene Earlier?  Catherine Otto, MD

12:45–1 pm
Award Presentations

1–2:30 pm
Advanced Clinical Decision Making—Mechanical Support Devices
Moderator: Peter Panzica, MD
1–1:20 pm  Role of Echocardiography in VAD Patients  Ravi Joshi, MD
1:20–1:40 pm  Echocardiography for ECMO Patients  Michael Andrawes, MD
1:40–2 pm  Mechanical Assist Devices—A Case-Based Approach  Megan Krajewski, MD
2–2:30 pm  Panel Discussion with Audience Participation

2:30–3 pm
Coffee Break

3–5 pm
Structural Heart Disease Symposium I  MOCA
Moderator: Alina Nicoara, MD
3–3:20 pm  Trans-Septal Puncture—Echocardiographic Guidance  G. Burkhard Mackensen, MD
3:20–3:40 pm  Percutaneous Approach to Mitral Valve Repair and Echocardiographic Guidance  Charles Nyman, MBBCh
3:40–4 pm  Percutaneous Approach to ASD/VSD Closure and Echocardiographic Guidance  Megan Krajewski, MD
4–4:20 pm  Percutaneous Closure of Left Atrial Appendage and Echocardiographic Guidance  Ravi Joshi, MD
4:20–5 pm  Heart Team Case Presentations  Alina Nicoara, MD; Charles Nyman, MBBCh; Mark Reisman, MD

5–6 pm
Day in Review
Moderator: Feroze Mahmood, MD

5:15–8:15 pm
3D Imaging and Laptop Computer Workshop  Overlook Room
See page 16 for full schedule. Separate registration required.

5:15–8:15 pm
Hands-On Structural Heart Disease Workshop  Mercer Ballroom
See page 16 for full schedule. Separate registration required.
Friday, February 22

7–8:30 am
Registration Open

7–7:30 am
Continental Breakfast

7:30–9:30 am
Structural Heart Disease Symposium II
Moderator: Charles Nyman, MBBCh

7:30–7:50 am Trans-Catheter Valve in Valve Therapy
Mark Reisman, MD

7:50–8:10 am Trans-Catheter Mitral Valve Replacement
G. Burkhard Mackensen, MD

8:10–8:30 am TAVR and Echocardiography
Jacques Neelankavil, MD

8:30–8:50 am Percutaneous Approach to Tricuspid Valve and Echocardiography
Mark Reisman, MD

8:50–9:30 am Heart Team Case Presentations
Michael Andrawes, MD; G. Burkhard Mackensen, MD; Jacques Neelankavil, MD

9:30–9:45 am
Coffee Break

9:45 am–12:15 pm
Echo Week Post-Test
Moderators: Megan Krajewski, MD; Feroze Mahmood, MD; Peter Panzica, MD

SAVE THE DATE FOR THE

SCA 8TH ANNUAL THORACIC ANESTHESIA SYMPOSIUM

MAY 17, 2019 • HYATT REGENCY CHICAGO • CHICAGO, IL

View program and registration details at www.scahq.org/TAS

Find us on Facebook and Twitter @scahq and be sure to use the hashtag #SCATAS in your posts!

Claim your CME: www.scahq.org/echoweek/education
WORKSHOP SESSIONS
Separate registration required.

Wednesday, February 20

6:45–7:45 am
3D Image Acquisition Workshop  
Mercer Ballroom
During this hands-on session, participants will practice 3D imaging acquisition and optimization techniques using phantom heart models and ultrasound equipment. Subject-matter experts will guide participants through operating multiple 3D imaging platforms and workflows.

Faculty:
Amit Bardia, MBBS  
Amy Duhachek-Stapelman, MD  
Kim Howard-Quijano, MD  
Sharon McCartney, MD  
Massimiliano Meineri, MD  
Alina Nicoara, MD  
Peter Panzica, MD  
Nikolaos Skubas, MD

Thursday, February 21

5:15–8:15 pm
3D Imaging and Laptop Computer Workshop  
Overlook Room
This interactive workshop explores 3D platforms and allows participants to manipulate data sets, perform measurements, and qualitatively and quantitatively analyze 3D data sets.

Faculty:
Michael Andrawes, MD  
G. Burkhard Mackensen, MD  
Jacques Neelankavil, MD  
Alina Nicoara, MD  
Kent Rehfeldt, MD  
Stanton Shernan, MD

5:15–8:15 pm
Hands-On Structural Heart Disease Workshop  
Mercer Ballroom
In this workshop, participants will work with porcine hearts, demonstration equipment, and simulators to understand the spatial orientation and workflow of various cardiac imaging techniques. Participants will work with a multidisciplinary panel of experts, including anesthesiologists and interventional cardiologists, to develop skills to conduct various structural heart disease interventions.

Faculty:
Ravi Joshi, MD  
Megan Krajewski, MD  
Charles Nyman, MBBCCh  
Mark Reisman, MD  
Douglas Shook, MD
SCIENTIFIC ABSTRACTS AND POSTERS

(EW01) Tricuspid Valve-in-Ring Implantation: Transfemoral Transcatheter Valve-in-Ring Implantation for Treatment of Tricuspid Regurgitation and Para-Valvular Leak in a Patient With Rheumatic Heart Disease
Andaleeb Ahmed, John Mitchell, MD, Shahzad Shaeti, MD MPH

(EW02) Huge Left Atrium Thrombus After Left Atrial Appendage Occlusion With Amplatzer Amulet Device
Yicha Wang, MD, Chi-Hsiang Huang, MD

(EW03) Right Atrial Fibrinous Mass Attached to the Chiari Network
Ethan Kim, MD, Steven M. Haddy, MD, Tawfiq Ayoub, MD

(EW04) Optimizing Alignment of the LVAD Inflow Cannula: Leveraging Intraoperative 3D Imaging
Elizabeth Webber, MD, Ryan Childs, DO, Torvi E. Perry, MD MMSc; Ranjit Jain, MD; Andrew Shaffer, MD

(EW05) Pulmonary Artery Anastomosis Stenosis: Better Catch It in the OR...
William P. Qiao, MD, Marie-Louise Meng, MD

(EW06) Intraoperative Transesophageal Echocardiography for Diagnosis of a Right Coronary Artery Pseudoaneurysm
Lauren D. Sutherland, MD, Andrea Milliades, MD

(EW07) Incidental Finding of Ascending Aortic Intramural Hematoma on Preoperative Transesophageal Echocardiography
Karen Singh, MD, Christopher Racine, MD, Joshua Roach, MD, Daniel Smith, Leora T. Varboro, MD

(EW08) Dissection of Superior Vena Cava, Right Atrium, and Right Ventricle from Pulmonary Artery Catheter Placement
Nicholas Suraci, MD; Gerald P. Rosen, MD; Orlando Santana, MD, Jason Hoyos, DO

(EW09) Left Ventricular Noncompaction Cardiomyopathy: TEE Use for Diagnosis and Intraoperative Management
Viachaslau Koushyk, MD; Dmitry Sinavsky, MD; Austin W. Pulliam, MD, Chris Schwan

(EW10) Metastatic Ewing Sarcoma in the LVOT
Revati Nafday, MD, Matthew K. Cirigliano, MD

(EW11) What to Do When Clot is in the Way: Novel Use of Atrial Occlusion Device in the Aorta
Ashley Taylor, MD, Raj Modak, MD

(EW12) Left Ventricular Device Failure: A Twisted Diagnosis
Joseph Cody, DO; Michael Busada, DO; Matthew McConnell, MD

(EW13) Management of a Single Site Veno-Venous Extracorporeal Membrane Oxygenation Cannula Obstruction After TEE Guided Diagnosis
Rafael Zamper, MD, Satoru Fuji; Daniel T. Bainbridge, FRCP, MD, Dave Nagpal

(EW14) A Rare Case of Intravenous With Intracardiac Leiomyomatosis—An Echocardiographic Case Report From the Mater Misericordiae University Hospital, Dublin
Ciara Hanley, MB BCh BAO FCAI JFICMI; Rose Kearsley, MB BCh BAO MBMedSc FCAI; Tom Wall, MB FCAI FJICMI MRCPI; Irmina Bukowska, MD PES ESA FCAI; Kathryn Byrne, MB BCh BAO FCAI; Georgina M. Flood, MBBS FRCA

(EW15) In Vivo Echocardiographic Evaluation Prior to Transplant in a Porcine Model of Donation After Circulatory Death and Normothermic Regional Perfusion
Mbadjeu Hondjeu Arnaud Romeo, MD; Emanuela Paradiso, MD; R. V. Pinta Ribeiro; J. S. Alvarez, MD; M. Badwala, MD; V. Rao, MD; M. Meineri, MD

(EW16) The Heroin Epidemic Forbodes the Acquired Gerbode Defect
Vybhav Jetty, MD, David Harris

(EW17) New Sinus of Valsalva Aneurysm With Rupture Following Bicuspid Aortic Valve Replacement
Joseph K. Edwards, MD; Lauren M. Meyer, MD

(EW18) TEE-Guided Intraoperative Surgical Management of Penetrating Trauma to the Right Ventricle
Brian Butala, DO; Edward Gologorsky, MD FASE

(EW19) New Setup for Epicardiac Echocardiography in the Evaluation of Ex Vivo Heart Prior to Transplant
Mbadjeu Hondjeu Arnaud Romeo, MD; E. Paradiso; Joshua Q. Hiansen, MSc; G. M. Ruggieri; R. Ribeiro; B. Geilner; X. Liming; M. Meineri

(EW20) Valve-Sparing Root Aortic Reconstruction With Complex Mitral Repair: Intraoperative TEE Challenge
Andreia Cardoso, MD; Chiara Tessmer Gatto, FASE MD; Ricardo Dias; Filomena Galas, MD PhD
COMMERCIAL SUPPORT

SCA would like to thank the following companies for providing an educational grant and/or in-kind equipment support for the hands-on workshops:

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NETWORKING WITH EXHIBITORS

Exhibits will be located outside the Ellington Ballroom during the following hours:
Tuesday, February 19 ............... 7 am–6:30 pm
Wednesday, February 20 ...... 6:30 am–3:30 pm
Thursday, February 21 ................. 7–10 am

All attendees are invited to join our exhibitors and sponsors at the Welcome Reception on Tuesday evening from 5:30 to 6:30 pm. Light refreshments will be offered. Attendees will have the opportunity to network with colleagues and industry partners.
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