CONGENITAL CARDIAC ANESTHESIA SOCIETY

ANNUAL MEETING

March 12, 2015 • Arizona Biltmore • Phoenix, AZ

For up-to-date program and registration information, please visit www.ccasociety.org
Education Mission Statement
The CCAS Meeting will focus on topics of interest to those who provide anesthesia, sedation, pain management, and critical care services to infants and children with heart disease, and adults with congenital heart disease. The overall goals for attendees of the program are to reinforce and enhance their existing fund of knowledge, while introducing them to new and state-of-the-art techniques and information that affect their practice and improve the perioperative care of patients with heart disease.

Scope & Types of Activities
The program brings together experts from clinical and basic science disciplines related to cardiology, anesthesia and cardiac surgery. General topic areas include cardiac anatomy, pathophysiology, anesthesia, echocardiography, electrophysiology, surgery, cardiopulmonary bypass, patient safety, and database resources.

The presentation format includes lectures and reviews, panels and discussions. An important part of the program is the presentation of new clinical and basic science research in oral and moderated poster-discussion forums. Significant attendee involvement and feedback are encouraged in all aspects of the program, and will be facilitated by the use of real time computerized audience polling as well as sessions where the audience directly participates in case discussions. Program content is, in fact, the direct result of membership input and extensive audience polling at prior meetings.

Target Audience
This program is intended for anesthesiologists and other practitioners who care for children with any form of cardiac disease and adults with congenital heart disease. It is also intended for clinical and basic science researchers whose areas of investigation relate to pediatric cardiac anesthesia or congenital heart disease.

Accreditation and Designation
The Society for Pediatric Anesthesia is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The Society for Pediatric Anesthesia designates this Live activity for a maximum of 8.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Hotel Information
Since 1929, Arizona Biltmore has been a destination of inspiration. 39 acres of gardens, swimming pools and iconic architecture stir a city to life, provide safe haven to celebrities and presidents, and play muse to guests’ whims and wishes throughout this historical luxury resort. Championship golf, a 22,000+ square foot spa and fitness center, multiple restaurants, and a variety of amenities await you. Experience the unrivaled grace of this timeless treasure with a spirited soul.

Welcome to the 2015 CCAS Annual Meeting
Dear colleagues and friends,

Welcome to the 2015 Congenital Cardiac Anesthesia Society (CCAS) 9th Annual Meeting – to be held will be held at the Arizona Biltmore Resort in Phoenix, Arizona on Thursday, March 12th. This luxury desert resort has been a coveted vacation site since 1929 and is the perfect place to celebrate the 10th anniversary of the CCAS. You can also register for the SPA/AAP Pediatric Anesthesiology 2015 Meeting (March 13 – 15) at the same venue.

This year’s program celebrates achievements in our field since the CCAS was founded in 2005. It also reflects our society’s mission: to advance the perioperative care of patients with congenital heart disease by promoting excellence in clinical care, education and research. We are excited to host a faculty of experts presenting the latest information and advances in congenital cardiac anesthesia, pediatric cardiology, congenital cardiac surgery and cardiovascular research.

As customary, the meeting will open with a basic science and clinical application session. This year we highlight normal and pathologic physiology of the right ventricle. The basic science lecture will review the mechanical interactions between the right and left ventricle and why these interactions change in malformed hearts. It will be followed by a clinical application lecture presenting a comprehensive review of current and novel management strategies for right heart failure. The next session consists of three presentations each addressing a different controversial topic regarding the management of congenital cardiac patients during pediatric cardiopulmonary bypass. The final morning session will be a special tribute to Congenital Cardiac Anesthesiology starting with a review of several of the most influential articles in our field and their impact on current practice. The second lecture will provide a historical look at the development of congenital cardiac anesthesiology as a sub-specialty.

The afternoon begins with oral presentations of the three highest scoring research abstracts. Next, we emphasize the Congenital Cardiac Database and its key mission from a board perspective and the anesthesia viewpoint. We will discuss the importance of multi-institutional and multi-specialty databases in advancing quality improvement and examine the anesthesia portion of the Congenital Cardiac Database – its development, its value in quality improvement and what we’ve learned. We continue with an in-depth review of the complex congenital malformation total anomalous pulmonary venous connections. A multidisciplinary team (cardiologist, surgeon and anesthesiologist) will discuss this challenging lesion. The program concludes with a poster viewing session and a discussion of selected research abstracts. At the end of the day, join us for a celebratory wine and cheese reception.

At this year’s meeting, you will have the opportunity to reinforce your knowledge base, learn new concepts and share ideas with others. Our outstanding faculty will present both scientific and clinical relevant information appealing to a wide range of practice experiences. Anesthesiologists and other health care professionals are encouraged to attend, whether you are exclusively involved in congenital heart disease or provide for pediatric or adult patients with cardiac issues on a less regular basis.

This program is the combined effort of several individuals who are passionate about congenital cardiac anesthesiology. It has also been crafted out of the formal and informal, highly valuable input that many of you have provided. My sincere thanks to the meeting co-chairs, Mark Twite and Scott Walker, for their hard work and innovative solutions. I also want to acknowledge the efforts of the CCAS Board of Directors, Kim Battle and others at our association management company (Ruggles Service Corporation). We are confident that that this year’s meeting will be intellectually stimulating and clinically applicable.

We look forward to celebrating with you. Enjoy the meeting!
7:00 am - 5:00 pm  Registration
7:00 - 7:30 am  Breakfast with Exhibitors
7:30 - 7:45 am  Welcome
    Emad B. Mossad, MD
Outline of Educational Program
    Nina A. Guzzetta, MD

Session I: Basic Science & Clinical Application
Moderator: Nina A. Guzzetta, MD
7:45 - 8:25 am  Physiology of RV-LV Interactions in the Normal and Failing Heart
    Andrew N. Redington, MBBS, MRCP, MD, FRCP
8:25 - 9:05 am  Novel Therapeutic Strategies for the Management of RV Failure
    Jeffrey R. Fineman, MD
9:05 - 9:15 am  Questions and Discussion
9:15 - 9:45 am  COFFEE BREAK with Exhibitors

Session II: Controversial Aspects of Pediatric CPB
Moderator: Victor C. Baum, MD
9:45 – 10:05 am  Should NIRS be Standard Care for Pediatric CPB?
    Chandra Ramamoorthy, MBBS, FRCA
10:05 – 10:25 am  Antifibrinolytics for Pediatric CPB – Which Drug, How Much and When?
    Michael P. Eaton, MD
10:25 – 10:45 am  What is the Optimal Hematocrit During Pediatric CPB?
    Gina Whitney, MD
10:45 – 11:00 am  Questions and Discussion

Session III: Celebrating 10 Years of the Congenital Cardiac Anesthesia Society
Moderator: Mark D. Twite, MA, MB, BChir, FRCP
11:00 - 11:30 am  Landmark Articles in Congenital Cardiac Anesthesia
    Robert H. Friesen, MD
11:30 - Noon  Congenital Cardiac Anesthesia as a Specialty: Where We’ve Been and Where We’re Going
    Paul R. Hickey, MD
Noon - 1:00 pm  LUNCH with Exhibitors

Session IV: Selected Posters for Oral Presentations
Moderator: Scott G. Walker, MD
1:00 - 1:45 pm  Posters: Selected Oral Presentations (Three Posters)

Session V: The Congenital Cardiac Database and Clinical Practice
Moderator: Emad B. Mossad, MD
1:45 - 2:25 pm  Driving Quality Improvement with the Congenital Cardiac Database – Why Does It Matter?
    Sara K. Pasquali, MD, MHS
2:25 - 2:45 pm  An Update on the Congenital Cardiac Anesthesia Database
    David F. Vener, MD
2:45 - 3:00 pm  Questions and Discussion
3:00 - 3:30 pm  COFFEE BREAK with Exhibitors

Session VI: Focus on a Lesion: Total Anomalous Pulmonary Venous Connection
Moderator: Peggy P. McNaull, MD
3:30 - 3:55 pm  Anatomy and Diagnostic Imaging
    Timothy C. Slesnick, MD
3:55 - 4:20 pm  Surgical Management
    Daniel A. Velez, MD
4:20 - 4:45 pm  Anesthetic Considerations
    Andrew Wolf, MB, BChir, MD, FRCA
4:45 - 5:00 pm  Questions and Discussion

Session VII: Posters: Viewing and Discussion
Moderators: Jeremy M. Geiduschek, MD; Andrew D. Pitkin, MBBS MRCP FRCA; Lisa Wise-Faberowski, MD
5:00 - 6:00 pm  Posters: Viewing and Discussion
6:00 - 7:30 pm  CCAS 10th Anniversary Celebration Reception

CONVENIENT ONLINE REGISTRATION!
Visit www.ccasociety.org to register for the meetings and book your hotel reservations online.

Registration rates increase after February 13, 2015. Printable forms are also available at www.ccasociety.org.

Hotel Accommodations
Arizona Biltmore
2400 E Missouri Ave, Phoenix, AZ, 85016
(800) 950-0086 or (602) 955-6600
SPA Group Rates: $269 plus tax  Single/Double
Cut-off date is Thursday, February 18, 2015.

Go to www.ccasociety.org for the link to make your hotel reservations online. Or call (800) 950-0086 to make your reservations.
### OBJECTIVES

#### Session I: Basic Science and Clinical Application
Upon completion of this session, the participant will be able to:
- Understand the basic mechanical interactions between the RV and LV in both normal and malformed hearts
- Review conventional modalities used to assess RV function
- Review current medical and surgical management strategies for RV failure

#### Session II: Controversial Aspects of Pediatric CPB
Upon completion of this session, the participant will be able to:
- Review and discuss several controversial issues regarding the management of patients with congenital heart disease during CPB

#### Session III: Celebrating 10 Years of the Congenital Cardiac Anesthesia Society
Upon completion of this session, the participant will be able to:
- Review several of the most influential articles in the field of congenital cardiac anesthesiology
- Present the historical development and future trends of congenital cardiac anesthesiology as a sub-specialty

#### Session IV: Selected Posters for Oral Presentations
Upon completion of this session, the participant will be able to:
- Learn about new research findings pertinent to the practice of congenital cardiac anesthesia

#### Session V: The Congenital Cardiac Database and Clinical Practice
Upon completion of this session, the participant will be able to:
- Discuss the benefits and limitations of multi-institutional and multi-specialty databases in driving quality improvement
- Discuss the latest anesthesia data from the STS/ Congenital Cardiac Database and how certain trends may affect clinical practice

#### Session VI: Focus on a Lesion - Total Anomalous Pulmonary Venous Connections (TAPVC)
Upon completion of this session, the participant will be able to:
- Understand the various anatomic features and imaging modalities that characterize TAPVC
- Present the surgical approaches and outcome data
- Review the anesthetic and perioperative management

#### Session VII: Posters: Viewing and Discussion
Upon completion of this session, the participant will be able to:
- Learn about the latest research in the field of congenital cardiac anesthesia

For a full list of learning objectives, please visit [http://www.ccasociety.org/meetings](http://www.ccasociety.org/meetings).

### FACULTY

<table>
<thead>
<tr>
<th>Victor C. Baum, MD</th>
<th>Peggy P. McNaull, MD</th>
<th>Mark D. Twite, MA, MB, BChir, FRCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Virginia Medical Center</td>
<td>University of North Carolina at Chapel Hill</td>
<td>Children's Hospital of Colorado</td>
</tr>
<tr>
<td>Charlottesville, VA</td>
<td>Chapel Hill, NC</td>
<td>Aurora, CO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Michael P. Eaton, MD</th>
<th>Emad B. Mossad, MD</th>
<th>Daniel A. Velez, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Rochester Medical Center</td>
<td>Texas Children's Hospital</td>
<td>Phoenix Children's Heart Center</td>
</tr>
<tr>
<td>Rochester, NY</td>
<td>Houston, TX</td>
<td>Phoenix, AZ</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Jeffrey R. Fineman, MD</th>
<th>Sara K. Pasquali, MD, MHS</th>
<th>David F. Vener, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of California, San Francisco</td>
<td>CS Mott Children's Hospital/University of Michigan</td>
<td>Texas Children's Hospital</td>
</tr>
<tr>
<td>San Francisco, CA</td>
<td>Ann Arbor, MI</td>
<td>Houston, TX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Robert H. Friesen, MD</th>
<th>Andrew D. Pitkin, MBBS MRCP FRCA</th>
<th>Scott G. Walker, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children's Hospital of Colorado</td>
<td>University of Florida College of Medicine</td>
<td>Riley Children's Hospital</td>
</tr>
<tr>
<td>Aurora, CO</td>
<td>Gainesville, FL</td>
<td>Indianapolis, IN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Jeremy M. Geiduschek, MD</th>
<th>Chandra Ramamooorthy, MBBS, FRCA</th>
<th>Gina Whitney, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seattle Children's Hospital</td>
<td>Stanford University</td>
<td>Vanderbilt University Medical Center</td>
</tr>
<tr>
<td>Seattle, WA</td>
<td>Stanford, CA</td>
<td>Nashville, TN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nina A. Guzzetta, MD</th>
<th>Andrew N. Redington, MBBS, MRCP, MD, FRCP (C)</th>
<th>Lisa Wise-Fabersowski, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emory University School of Medicine</td>
<td>Hospital for Sick Children (SickKids)</td>
<td>Stanford University</td>
</tr>
<tr>
<td>Children's Healthcare of Atlanta</td>
<td>Toronto, ON, Canada</td>
<td>Stanford, CA</td>
</tr>
<tr>
<td>Atlanta, GA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paul R. Hickey, MD</th>
<th>Timothy C. Slesnick, MD</th>
<th>Andrew Wolf, MB, BChir, MD, FRCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston Children's Hospital</td>
<td>Emory University School of Medicine</td>
<td>Bristol Royal Children's Hospital, Bristol, Great Britain</td>
</tr>
<tr>
<td>Boston, MA</td>
<td>Sibley Heart Center</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Atlanta, GA</td>
<td>Visiting Professor Rush University Medical Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chicago, IL</td>
</tr>
</tbody>
</table>

Andrew Wolf, MB, BChir, MD, FRCA
Bristol Royal Children's Hospital, Bristol, Great Britain
Visiting Professor Rush University Medical Center, Chicago, IL
### Program Registration

**Register Online at www.ccasociety.org!**

If paying by check, please make checks payable to **SPA** and mail to:

2209 Dickens Road, Richmond, VA 23230-2005; Phone: (804) 282-9780; Fax: (804) 282-0090; E-Mail: ccas@societyhq.com

PLEASE PRINT OR TYPE

Name__________________________________________________________ Degree _____________ First Name for Badge ______________

Last   First   MI

Preferred Mailing Address _____________________________________________________________________________________________

City / State / Zip  _________________________________________________  Email Address* ________________________________

Office Phone _________________________________ Home Phone _______________________________ Fax # ________________________

Accompanying Person(s) Name(s) ________________________________________________________________________________________

*E-mail REQUIRED for registration confirmation.

<table>
<thead>
<tr>
<th></th>
<th>Through 2/13/2015</th>
<th>After 2/13/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ CCAS Member (US/Canada)</td>
<td>$300</td>
<td>$350</td>
</tr>
<tr>
<td>☐ CCAS Non-Member</td>
<td>$400</td>
<td>$450</td>
</tr>
<tr>
<td>☐ Resident ☐ Fellow</td>
<td>$75</td>
<td>$100</td>
</tr>
<tr>
<td>☐ CCAS International Member</td>
<td>$250</td>
<td>$300</td>
</tr>
</tbody>
</table>

CCAS, 2209 Dickens Road, Richmond, VA 23230-2005  (Credit Card payments may be faxed to 804-282-0090)

☐ Personal Check  ☐ VISA  ☐ MasterCard  ☐ American Express  ☐ Discover

Card No ______________________________________________________________ CVV Code: __________  Exp. Date __________________

Signature _____________________________________________________________ Printed Name on Card ________________________________________

Credit Card Billing Address: ____________________________________________ Credit Card Zip Code: __________________________

Please note that if you choose to pay by credit card, your statement will reflect a payment to the Society for Pediatric Anesthesia.

Refund Policy: A full refund through 2/13/2015; 50% refund from 2/14 - 2/27/2015; no refunds after 2/28/2015. Refunds will be determined by date written cancellation is received.

**IF YOU DO NOT RECEIVE A CONFIRMATION E-MAIL FROM THE CCAS WITHIN 30 DAYS OF SUBMITTING YOUR REGISTRATION, PLEASE CALL/EMAIL THE OFFICE TO CONFIRM THAT YOUR REGISTRATION MATERIAL HAS BEEN RECEIVED.**