PERFUSIONISTS START YOUR PUMPS!

Just a few weeks before the 2019 Daytona 500 many of us will be in Palm Coast, Florida (about 30 min south of Daytona) for the 40th anniversary meeting of the AACP!

After the Academy’s chief starter, Dave Palanzo, waves the green flag, meeting participants will enjoy five turbo charged special scientific sessions including:

**In Pole Position**, Linda Mongero and Ken Fung will moderate *Hot Topics and Current Trends*. This session includes talks on acute kidney injury by Michael Manning, MD, virtual reality tools for surgery by Jonathan Chen, MD, Heartmate lll by Justin Sleasman and Transmedics for Lungs by Sally Paul.

**Next up**, Ken Shann and Kevin Lilly will rev up *Education, Communication and Collaboration with Industry Partners*. This session gives a voice to our meeting sponsors who will deliver talks on the product in their pit that they believe has or will have the greatest impact on patient care.

Allison Weinberg and Bob Grimmett are in sole possession of the **third position** moderating *Extracorporeal Support- In & Out of the Operation Room*. This session is sure to put a spark in your engines including talks on extracorporeal support for lung transplantation and ECLS for shock by Desiree Bonadonna, available heaters for use during ECMO by Kevin Charette, heparinless ECMO by James Beck and the evolution of ECMO support outside of an ICU setting by the ultimate racing crew chief, Dr. Robert Bartlett, MD.

**Always a strong finisher** and my personal favorite *Complex Congenital Heart Surgery* sits in fourth position. Pediatric speedsters Mike Brewer and Alex Gum will moderate this sleek session including talks about using the cardiopulmonary bypass circuit to prime the ECMO circuit by Mandy Cornelius, management of the adult congenital patient by Rich Walzak, the Ozaki procedure by Christopher Baird, MD, mitochondrial transplantation by Molly Bryant and the use of antibody filters for ABO incompatible heart transplantation by Nigel Cross.

The early favorite to take the checkered flag is in the far lane entitled *Perfusion Considerations for the New Graduate*. Hotshot moderators Joe Deptula and Bharat Datt will lead this session that threatens to **overtake the field** with talks on being the new perfusionist in town by Alex Gum, financial and debt concerns by Kevin Lilly, managing stress and job satisfaction by Josh Walker, and communication and compassion training by Dave Fitzgerald.
Use of ECMO for a Tracheal Slide Procedure:  
A Case Report

Airway and surgical management for pediatric patients with tracheal stenosis is complicated and exceptionally difficult if there is an obstruction present. The case being presented involves a seven-month old male weighing 6 kg with a BSA of 0.32 m². The patient had a complex medical history including: vascular rings which had been repaired and severe bronchopulmonary dysplasia and tracheal stenosis with complete tracheal rings. The patient was being managed for respiratory failure; however, he was unable to be adequately ventilated despite several valiant attempts. Figure 1 shows how the patient’s blood gases were trending at this time.

Figure 1

<table>
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After a recent cardiac arrest and resuscitation requiring CPR with epinephrine, the decision was made to initiate veno-arterial ECMO.

The Stockert Sled ECMO pump was used with a Terumo tubing pack with a ¼ x ¼ A-V loop. A Maquet Quadrux pediatric oxygenator, Sorin Revolution centrifugal pump head, and Microtemp heater cooler were also used. The Hemochron ACT machine was used to monitor heparin level at the time of ECMO initiation with a goal of approximately 250. The Gem 5000 blood gas analyzer was used to monitor arterial gases. The circuit was primed with two units of washed packed red blood cells with 600 units of heparin, 12.5 grams of albumin, 15 meq sodium bicarbonate, and 150mg calcium chloride added to the circuit prime. Patients was cannulated in the right internal jugular with a 12F Biomedicus cannula and in the right carotid with a 10 F Biomedicus cannula.

The use of VA ECMO to manage oxygenation and cardiac dynamic stability while waiting until the patient was stable enough to endure a successful tracheal slide repair. VA ECMO is a critical adjunct for preserving the viability of the lungs and heart support. After five days of ECMO with flows at an index at a 2.5 index approximately 800ml/min, sweep at .9L/min FIO2 at 100%, CRRT for fluid overload, and therapeutic anticoagulation with anti Xa of 0.3—0.7, the patient was brought to the OR and placed on cardiopulmonary bypass to undergo a tracheal slide repair to correct the tracheal stenosis and rings. Figure 2 is a representative of a typical patient arterial blood gas throughout the ECMO run.

Figure 2

<table>
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<tr>
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The cardiopulmonary bypass circuit that was used was a Stockert S% heart lunch machine with a Terumo tubing pack and a 3/16 x ¼ AV loop with a ¼” boot. A Terumo venous reservoir and oxygenator (FX 05) , Sorin Revolution centrifugal pump, vanguard cardioplegia setup, CardioQuip heater cooler, and Fresenious Cats cell saver were also used. The circuit was primed with 220ml of plasmalyte, 12.5g albumin, 2000 units heparin, 7 meq sodium bicarbonate, 1g
mannitol, 90 mg calcium chloride, and 120ml washed packed red blood cells.

Upon the transition from VA ECMO to cardiopulmonary bypass, careful measures were taken to ensure that no air was entrained into the ECMO circuit or to the patient during this transition. This involved having to periodically clamp out the ECMO circuit while cannulating so that the negative and positive pressure caused by the ECMO circuit did not lead to any air. The patient was cannulate in the right atrium with a single stage 18 F and in the ascending aorta with a 10 F. The choice was also made to disconnect the retired ECMO circuit, but to flush and dead-end those cannulas and leave them in the patient in case ECMO was still needed after the repair. The bypass run lasted for 168 minutes and Figure 3 shows the corresponding blood gasses.

Figure 3

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<td>272</td>
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<td>1.2</td>
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<td>139</td>
<td>4.2</td>
<td>113</td>
<td>1.2</td>
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<tr>
<td>7.42</td>
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<td>322</td>
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After the trachea was repaired, the patient was wean off of cardio pulmonary bypass. Clinical indicators including blood gases and x-ray were performed to assess the lungs and to determine the state of the patient on ventilation without ECMO. Figure 4 shows the respective blood gases during the 90-minute monitoring period post bypass. The patient was determined to be stable with a successful repair.

Figure 4

5 Minutes Post Bypass

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30 Minutes Post Bypass

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60 Minutes Post Bypass

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90 Minutes Post Bypass

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<td>144</td>
<td>3.1</td>
<td>126</td>
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Use of ECMO for a Tracheal Slide Procedure: A Case Report

Continued from Page 3

ECMO was able to provide a reliable source of gases exchange in place of a challenging airway management situation. In addition, cardiopulmonary bypass offered the advantage of improved visibility during the procedure without the risk of air entrainment into a closed system. The use of this technique should lead to better outcomes for tracheal slide repair in the future.

Citations


THE ACADEMY TO OFFER LIVE WEBCAST

The American Academy of Cardiovascular Perfusion will again be offering a live webcast of our 2019 Annual Meeting in Palm Coast, Florida. The General Sessions of the meeting and one Fireside Chat each day will be broadcast in high quality streaming video. There will also be an opportunity for attendees to ask questions, thus qualifying for Category I CEUs from the American Board of Cardiovascular Perfusion.

Folks, the race does not end there. Entertaining us between these sessions are a thunderous roar of supporting events including additional scientific presentations and the ever-popular fireside chats. Organized by the renowned chatterbox Gregory Smigla, the fireside chats are information infernos that are happening on all three full meeting days. In addition, racing enthusiasts Richard, leadfoot, Melchior and Giovanni Andretti (also known as Cecere) are planning a virtual death race, 2019 with the acquisition of perfusion knowledge and support for our meeting sponsors as the ultimate prizes. During this event, participants will have an opportunity to join pit crews and work in teams to help construct their own virtual racecars! Finally, peer into the winner’s circle of the memorial lecture session during which Robert Bartlett, MD (drop the mic) will deliver the Charles C. Reed Memorial Lecture followed by the Thomas G. Wharton Memorial Lecture by yours truly.

The venue for all this excitement is at the lovely Hammock Beach Resort where our golf balls are sure to touch the sea. The resort is also near historic St. Augustine and Daytona International Speedway and there is even an onsite water park for the kids. See you there!

Kevin Charette
President, American Academy of Cardiovascular Perfusion
Quantum
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Spectrum Medical adds to its Quantum product line the world’s first Perfusion Ventilation System.

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www.spectrummedical.com
40th Annual Seminar of The American Academy of Cardiovascular Perfusion

Hammock Beach Resort
200 Ocean Crest Drive
Palm Coast, Florida
February 6-9, 2019

(Tentative Program)

Wednesday, February 6, 2019
1:00 PM – 5:00 PM REGISTRATION
3:30 PM - 4:00 PM Opening Business Meeting
   Fellow, Member, Senior and Honorary Members
4:00 PM – 7:00 PM Manufacturers’ Breakout Rooms

Thursday, February 7, 2019
7:00 AM REGISTRATION
7:00 AM – 8:00 AM Video Presentations
8:00 AM – 09:30 AM Scientific Paper Session
9:30- AM – 11:30 AM Fireside Chats
   Clinical Instructor Session
   ECMO (Webcast Also)
   Myocardial Preservation
   Student Forum
   Using EMRs, Apps and New Technologies to Improve Patient Safety

11:30AM - 1:00PM Lunch (Historical Videos)
1:00 PM – 3:00 PM  Special Scientific Panel Session  
**Hot Topics and Current Trends**  
*Moderators: Linda Mongero, Ken Fung*  
Transmedics for Lungs and Hearts (Sally Paul)  
Heartmate III Experience *(Justin Sleasman)*  
Ultrafiltration and AKI, *(Dr. Michael Manning)*  
3D Imaging and Virtual Reality; Tools for Surgery *(Dr. Jonathan Chen)*  
Panel Q&A

3:00 PM – 3:30PM  Break

3:30PM – 5:30PM  Special Scientific Panel Session  
**Education, Communication and Collaboration with Industry Partners**  
*Moderators: Kenny Shann, Kevin Lilly*

06:00PM  Sponsor’s Hands-On Workshop & Reception

**Friday, February 8, 2019**

7:00 AM  REGISTRATION
7:00 AM – 7:45 AM  Video Presentations
7:45 AM – 9:30 AM  Scientific Paper Session
9:30- AM – 11:30 AM  Fireside Chats  
Anticoagulation  
ECMO Scenarios  
Perfusion Accidents  
Pump On: The First Five Years (Webcast Also)  
Research: How to Conduct, Publish and Get IRB Approval

11:30AM - 1:00PM  Lunch (Historical Videos)

1:00 PM – 3:00 PM  Special Scientific Panel Session  
**Extracorporeal Support - In & Out of the Operating Room**  
*Moderators: Allison Weinberg, Robert Grimmett*  
Extracorporeal Support for Lung Transplant: Pre, Peri, and Postoperative Techniques *(Desiree Bonadonna)*  
ECLS for Shock *(Desiree Bonadonna)*  
Heaters for ECMO *(Kevin Charette)*  
Heparinless ECMO: It is long past due, are we there yet? *(James Beck)*  
How to Get ECMO Out of the ICU *(Dr. Robert Bartlett)*  
Panel Q&A

3:00 PM – 3:30PM  Break

3:30 PM – 5:30 PM  Memorial Session  
**Charles C. Reed Memorial Lecture** *(Robert H. Bartlett, MD)*  
**Thomas G. Wharton Memorial Lecture** *(Kevin Charette, CCP)*

6:30 PM  Induction Dinner  
*All Attendees and Guests*
Saturday, February 9, 2019

7:00 AM          REGISTRATION
7:00 AM – 7:45 AM  Video Presentations
7:45 AM – 9:30 AM  Scientific Paper Session

9:30 AM – 10:00 AM  Break

10:00 AM – 11:30 AM  Special Scientific Panel Session
                      **Complex Congenital Heart Surgery**
                      Moderators: Michael Brewer, Alex Gum
                      Using CPB to Prime ECMO (Mandy Cornelius)
                      Managing the Adult Congenital Patient (Richard Walczak)
                      Ozaki Procedure (Dr. Christopher Baird)
                      Mitochondrial Transplantation (Molly Bryant)
                      Antibody Filters During Their ABO Incompatible Heart
                      Transplants (Nigel Cross)
                      Panel Q&A

11:30 AM – 1:00 PM  Lunch (Historical Videos)

1:00 PM – 3:30 PM  Special Scientific Panel Session
                    **Perfusion Considerations For The New Perfusionist**
                    Moderators: Joseph Deptula, Bharat Datt
                    Managing the “New Perfusionist in Town” role (Alex Gum)
                    Managing Finances and Incurring Debt (Kevin Lilly)
                    Managing Stress and Job Satisfaction (Josh Walker)
                    Interpersonal/Professional Communication (Anthony Corsino)
                    Compassion & Empathy Training for Interaction with Patient and Family
                    Outside the OR (David Fitzgerald)
                    Panel Q&A

3:30 PM – 5:30 PM  Fireside Chats
                    Blood Conservation, Transfusion Triggers
                    Dealing With Stress, Work Life Balance, Team Building, Communication
                    Evolving Scope of Practice: Past, Present and Future
                    Pediatrics
                    Taking the Show on The Road: Transporting VADs and ECMOs (Webcast Also)

5:30 PM  Closing Business Meeting
          **Fellow, Senior and Honorary Members Only**
2019 Annual Academy Meeting
Host Hotel

Hammock Beach Resort
200 Ocean Crest Drive
Palm Coast, Florida

Single/Double Occupancy - $220.00 per night
(Main Tower Ocean View - Premium One Bedroom)
Reservations: 866-841-0287 (Code: CARDIO)

Please mention that you will be attending the Annual Conference of The American Academy of Cardiovascular Perfusion when making your reservations.
Paper and Poster Presentations

AACP 2019 Paper Presentations

Thursday, February 7, 2019 (07:45 – 9:30 AM)

EFFECTS OF BLOOD MANAGEMENT AND HEMATOCRIT THRESHOLD ON CLINICAL OUTCOME
Dustin Steht; NSUH-LIU Post SCVP

THE EVOLUTION OF PATIENT BLOOD MANAGEMENT PROGRAMS IN AORTIC VALVE SURGERY: WHAT IS THE ULTIMATE FRONTIER?
Kevin McCusker¹, Serdar Gunaydin², Steve Singh³; New York Medical College, Valhalla, New York¹; Department of Cardiac Surgery, University of Health Sciences, Ankara-Turkey², Brigham and Women’s Hospital, Boston, MA³

THE EFFECT OF VARIOUS BLOOD MANAGEMENT STRATEGIES ON INTRAOPERATIVE RED BLOOD CELL TRANSFUSION IN FIRST TIME CORONARY ARTERY BYPASS GRAFT PATIENTS
Alfred H. Stammers, Eric Tesdahl, Linda B. Mongero, Andy Stasko; Medical Department, SpecialtyCare, Nashville, TN

FLOLAN VS. BIVALIRUDIN DURING CARDIOPULMONARY BYPASS: COST, OUTCOMES, LIMITATIONS
Nathali Gomez; NSUH-LIU Post SCVP

VALIDATION OF TRANSCUTANEOUS CARBON DIOXIDE DURING PULSATILE ADULT CARDIOPULMONARY BYPASS
Lawrence Garrison¹, Jeff Riley², Steve Wysocki¹, Jennifer Souai¹, Hali Julick¹; ¹Franciscan Health Indianapolis, Indianapolis IN and ²State University of New York Upstate, Syracuse NY

Friday, February 8, 2019 (07:45 – 9:30 AM)

SAFETY RELATIVE TO STAFFING REQUIREMENTS FOR THE CARDIOVASCULAR PERFUSIONIST
Alexandra Rezler; NSUH-LIU School of Cardiovascular Perfusion

MODIFIED BLOOD RICH DEL NIDO VS THE TRADITIONAL DEL NIDO RELATIVE TO CLINICAL OUTCOMES
Joseph Catricala; NSUH-LIU SCVP

SAFETY DILEMMA OF LONG-TERM PROTECTION OF DEL NIDO / HTK CARDIOPLEGIA IN MINIMALLY INVASIVE VALVE SURGERY: CLINICAL IMPACT ON MICROVASCULAR INTEGRITY CONFIRMED BY CELL CULTURE DATA
Kevin McCusker¹, Serdar Gunaydin², Steve Singh³; New York Medical College, Valhalla, New York¹; Department of Cardiac Surgery, University of Health Sciences, Ankara-Turkey², Brigham and Women’s Hospital, Boston, MA³

SCIENCE AND SPECIFICS OF VENTRICULAR ASSIST DEVICES IN PEDIATRICS AND IMPLICATIONS FOR CLINICAL PRACTICE
Isaac Chinnappan; Monroe Carell Jr. Children's Hospital at Vanderbilt University, Nashville, TN
PREVENTION OF HYPERNATREMIA DURING PERIOPERATIVE PHASES OF CARDIOPULMONARY BYPASS IN PEDIATRICS: EVALUATION OF ACIDIC BIOMARKERS AND OPTIMIZATION OF SODIUM BICARBONATE ADMINISTRATION
Isaac Chinnappan; Monroe Carell Jr. Children's Hospital at Vanderbilt University, Nashville, TN

RETROSPECTIVE REVIEW OF ROTATIONAL THROMBOELASTOMETRY (ROTEM) DURING REWARMING IN CARDIAC SURGICAL PATIENTS LESS THAN TEN KILOGRAMS
Jillian Faircloth, Ryan Botham, Nico Festejo, Minoo Kavarana, Scott Bradley, David Fitzgerald Joseph J. Sistino; Medical University of South Carolina

Saturday, February 9, 2019 (07:45 – 9:30 AM)

RETROGRADE AUTOLOGOUS PRIMING TO REDUCE ALLOGENEIC BLOOD TRANSFUSION REQUIREMENTS: A SYSTEMATIC REVIEW
NPA Vranken1, ZB Babar1, JAM Montoya2, PW Weerwind1;
1Department of Cardiothoracic Surgery, Maastricht University Medical Center, Maastricht, the Netherlands, 2Perfusion Sciences Program, Department of Pharmacology, University of Arizona, Tucson, Arizona

CAN UPPER EXTREMITY, PERIPHERAL NIRS MONITORING BE USED TO ASSESS INNOMINATE ARTERY AND CEREBRAL PERFUSION ON ADULT ECMO PATIENTS?
James Beck, Killian Patton-Rivera, Kenmond Fung, Christine Chan, Hiroo Takayama; New York Presbyterian Hospital, Columbia University Medical Center, New York, NY

UTILIZING NEW TECHNOLOGIES BY INCORPORATING PREDICTIVE ANALYTICS FOR EXTRACORPOREAL MEMBRANE OXYGENATOR CHANGE-OUT
Christine Chan; New York Presbyterian Hospital, Columbia University Medical Center, New York, NY

EFFECTS OF HEMOCENTRIFICATION DURING CARDIOPULMONARY BYPASS ON RENAL FUNCTION POST-OPERATIVELY
Natasha Povar; NSUH-LIUP SCVP

USING A QUALITY IMPROVEMENT INITIATIVE TO REDUCE ACUTE KIDNEY INJURY DURING ON-PUMP CORONARY ARTERY BYPASS GRAFTING
Mitchell Katona, Joshua Walker, Nitin Das, Stewart Miller1, Edward Sako; The University of Texas Health Science Center at San Antonio, Department of Cardiothoracic Surgery, The University of Texas at San Antonio, College of Business1

BLOOD FLOW PROFILES OF THREE CONTEMPORARY ADULTS OXYGENATORS
Rik H. J. Hendrix, Yuri M. Ganushchak, Patrick W. Weerwind; Department of Extra-Corporeal Circulation, Maastricht University Medical Centre, Maastricht, The Netherlands

AACP 2019 Poster Presentations

COMPARING TWO OXYGENATORS FOR ARTERIAL OXYGEN CONCENTRATION AND DELIVERY OF OXYGEN DURING CARDIOPULMONARY BYPASS
Ian Nielsen; Quinnipiac University Cardiovascular Perfusion Program

SUCCESSFUL USE OF ECMO FOR A TRACHEAL SLIDE PROCEDURE: A CASE REPORT
Jessica Abellera; NSUH-LIU Post SCVP
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**MUST be a current Student Member of The Academy.**

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PRINT OR TYPE

NAME ____________________________________________

HOME ADDRESS ________________________________________

CITY __________________________ STATE ______ ZIP ________________

HOME PHONE __________________ WORK PHONE ______________________

E-MAIL ADDRESS __________________________________________ (Required for confirmation)

ANTICIPATED ARRIVAL DATE IN PALM COAST _______________________

How long have you been in the perfusion field? ______

Will you be attending the Induction Dinner on Friday evening? YES NO
*(Dark Suit and Tie Required / Black Tie Optional)*

Please read all instructions and information before completing this form.

If you have questions completing this form, please call the national office. Hotel Reservations must be made separately through the hotel directly.

Total Amount of Payment $ ________ METHOD OF PAYMENT: Check** __ Money Order __ Credit Card __

VISA/MasterCard # ____________________________ Exp. Date _______ 3-digit security code __ __ __

Credit card billing address if different from above.

ADDRESS ______________________________________

CITY __________________________ STATE ______ ZIP ________________

Signature __________________________

** There will be a $25.00 service charge for any check returned for insufficient funds.
INSTRUCTIONS and INFORMATION
- Complete each appropriate section of this form by printing or typing.
- All attendees are invited to the Induction Dinner on Friday evening. Attire is dark suit and tie required.
- Members must pay their 2019 Annual Dues along with their registration fees by completing that portion of the form.
- You will receive acknowledgment of your pre-registration by January 11, 2019—bring it with you to the meeting.
- No pre-registration will be processed after January 4, 2019.
  -- After this date you must register at the meeting.
- Your receipt and meeting credentials will be available for you at the Pre-Registration desk at the meeting.
- There will be NO ADMISSION to any Fireside Chat without proper admission credentials.
- If you are joining The Academy with your registration you must:
  1) complete appropriate areas of the form;
  2) you MUST INCLUDE the membership application form;
  3) include the $25 filing fee;
  4) include $155 for the 2019 Annual Dues;
  (Your membership begins with the closing business meeting)
- ONLY VISA/MasterCard credit cards are accepted - with VISA/MasterCard you may FAX your registration to (717) 867-1485
- The AACP Federal Tax ID Number: 63-0776991 (for hospital use only)
- Refund policy: Anyone that is pre-registered for this meeting and is unable to attend will receive a full refund minus $50.00 for handling, mailing, and processing upon written request before January 11, 2019.

- Make checks payable to AACP (US dollars). Mail completed pre-registration form and check to:
  AACP
  515A East Main Street
  Annville, PA 17003

IF YOU HAVE QUESTIONS FILLING OUT THIS FORM, PLEASE CONTACT THE NATIONAL OFFICE (717) 867-1485.

- If paying by VISA/MasterCard you may FAX this form to (717) 867-1485 or mail to above address.
Important Academy Dates

The ACADEMY ANNUAL MEETING DEADLINES

<table>
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<th>Abstract Deadline</th>
<th>October 15, 2018</th>
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<tr>
<td>Membership Deadline</td>
<td>December 6, 2018</td>
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<tr>
<td>Pre-Registration</td>
<td>January 9, 2019</td>
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<td>Hotel Registration</td>
<td>January 9, 2019</td>
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<td>2019 Annual Meeting</td>
<td>February 6-9, 2019</td>
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Others Meetings

Chop Cardiology and Pediatric Cardiac Surgery
February 13 – 17, 2019
Hyatt Regency Huntington Beach Resort and Spa
Huntington Beach, CA
Phone: (714) 698-1234
Contact Name: Tami Rosenthal
Contact Phone: 215-206-8491
Contact Email: rosenthalt@email.chop.edu

18th European Congress on Extracorporeal Circulation Technology
Grand Hotel
Salerno, Italy
June 12 – 14, 2019
Sponsored by the Foundation European Congress on Extracorporeal Circulation Technology (FECECT)
Website: http://www.fecect.org
Contact Phone: +31 10 452 70 04 / +31 6 29 229 655
Contact E-mail: office@fecect.org

Contact Information for Our Sponsoring Partners

CARDIOQUIP
Phone: 979-691-0202 or 888-267-6700
Website: www.CardioQuip.com

GETINGE GROUP
Phone: 888-627-8383
Fax: 732-667-1901
Website: www.maquet.com

INVOSURG
Fax: 617-507-6462
Website: www.invosurg.com

LIVANOVA
SORIN GROUP USA, INC.
Phone: 800-221-7943 or 303-467-6517
Fax: 303-467-6375
Website: www.soringroup.com

MEDTRONIC PERFUSION SYSTEMS
Phone: 763-391-9000
Websites: www.medtronic.com
www.perfusionsystems.com

QUEST MEDICAL, INC.
Phone: 800-627-0226 or 972-390-9800
Fax: 972-390-2881
Website: www.questmedical.com

SPECIALTYCARE
Phone: 800-348-4565 or 615-345-5400
Fax: 615-345-5405
Website: www.specialtycare.net

SPECTRUM MEDICAL, INC.
Phone: 800-265-2331
Fax: 803-802-1455
Website: www.spectrummedical.com

TERUMO CARDIOVASCULAR SYSTEMS
Phone: 734-663-4145 or 800-521-2818
Fax: 734-663-7981
Website: terumo-cvs.com