

41st Annual Seminar of The American Academy of Cardiovascular Perfusion

**Grand Sierra Resort
2500 East Second Street
Reno, Nevada
February 5-8, 2020**

Wednesday, February 5, 2020

1:00 PM – 5:00 PM PRE-REGISTRATION Packets Pickup
3:30 PM - 4:00 PM Opening Business Meeting
 Fellow, Member, Senior and Honorary Members

4:00 PM New Authors “Help” Session
4:00 PM – 7:00 PM Manufacturers’ Breakout Rooms

Edwards LifeSciences

Title: The Changing Landscape of Tissue Oximetry Monitoring

Description: Examine the growth drivers expanding Cerebral/Tissue Oximetry monitoring. Review the new applications and scientific evidence supporting the growth.

Quest Medical

Title: A Versatile Delivery Platform For The Delivery of “MULTIPLE” Cardioplegia Solution/Protocols”

Description: The presenter will update, with audience participation, the shared clinical reality of daily myocardial solution deliveries and the theoretical challenges associated with institutional change as well as to explore the newest Quest Medical, Inc MPS vehicle/platform functionality for the “VERSATILE” delivery of Multiple Cardioplegic solutions!

Quest Medical, Inc would like to thank the AACP for the opportunity to participate, with other manufacturers, in renewed technological intervention into the clinical arena.

Spectrum Medical

Title: Quantum ECLS Technologies: The catalyst for quality improvement

Description: Spectrum is committed to the challenges currently facing the ECLS space and through Quantum analytics we can continue to shape the field moving forward. This session will focus on the Perfusionists role and influence in improving quality outcomes in both the ECMO and VAD populations.

Thursday, February 6, 2020

7:00 AM	REGISTRATION
7:00 AM – 7:45 AM	Historical Presentation: Women in Perfusion <i>Moderated by Steven Sutton</i>
7:45 AM – 09:30 AM	Scientific Paper Session ANALYSIS OF HEPARIN DOSE RESPONSE TEST TO IMPROVE QUALITY OF AN INDIVIDUALIZED HEPARIN MANAGEMENT Min-Ho Lee and William Riley, Massachusetts General Hospital, Boston, MA Sponsored by William Riley ANTITHROMBIN SUPPLEMENTATION TO CORRECT HEPARIN RESISTANCE IN ADULT PATIENTS UNDERGOING CARDIAC SURGERY WITH CARDIOPULMONARY BYPASS Alfred H. Stammers, Randi Miller, Anthony Nostro, Eric A. Tesdahl SpecialtyCare, Brentwood, TN and Lehigh Valley Hospital-Pocono, East Stroudsburg, PA Sponsored by Alfred Stammers OSMOTIC DIURETICS VS. LOOP DIURETICS AND EFFECTS ON FLUID BALANCE AND FILTRATION OF HEPARIN DURING CARDIOPULMONARY BYPASS SURGERY Claire Patrizz, Quinnipiac University, Hamden, CT Sponsored by Michael Smith COMPARISON OF FOUR ACTIVATED CLOTTING TIME DEVICES DURING CARDIAC SURGERY Han Li, Cyril Serrick, Vivek Rao, Paul M Yi, University Health Network, Toronto, Ontario, CANADA PERFUSION INTRAOPERATIVE NON-TECHNICAL SKILLS (PINTS) William Riley, David Fitzgerald
9:30- AM – 11:30 AM	Fireside Chats <i>Clinical Instructor Session</i> <i>ECMO: Starting, Maintaining and Growing a Program (Webcast also)</i> <i>Perfusion Accidents</i> <i>Pump Off: Making the Most of the Last Five Years</i> <i>Student Forum Only</i>
11:30AM - 1:00PM	Lunch Historical Presentation: Three Firsts: Women Pioneers in American Surgery - <i>Moderated by Steven Sutton</i>
1:00 PM – 3:00 PM	Special Scientific Panel Session Extracorporeal Life Support <i>Moderators: Allison Weinberg, Emily Kahring</i> Pumpless ECMO Bridge to Transplant: A Case Report: <i>Dorothy Garbin</i> EROCA Trial / ECPR: <i>Sage Whitmore, MD</i> Simulation Model for ECMO: <i>Sage Whitmore, MD</i> Venting the LV on ECMO: <i>Chloe Choi</i> Cleaning Out the Arterial Cannulas: <i>Kevin Charette</i> Panel Q&A
3:00 PM – 3:30PM	Break Historical Presentation: History of Women in Surgery <i>Moderated by Steven Sutton</i>

3:30PM – 5:30PM

Special Scientific Panel Session

Hot Topics and Current Trends

Moderators: Edward Delaney, Carmen Giacomuzzi

Double Lung Transplants: *Mat Tyndal*

Terumo/Sarns Fellowship Experience: *Ashleigh LeBlanc*

What's Up with Perfusion? Seeing Beyond the Emperor's New Clothes: *Al Stammers*

Transmedics: *Kristina Iwai*

Quantum QA/QI Initiatives/Best Practices: *James Beck*

Panel Q&A

06:00PM

Sponsor's Hands-On Workshop & Reception

Friday, February 7, 2020

7:00 AM

REGISTRATION

7:00 AM – 7:45 AM

Historical Presentation: Never Judge A Book By Its Cover: Nor the People - *Moderated by Steven Sutton*

7:45 AM – 9:30 AM

Scientific Paper Session

THE DEVELOPMENT OF A NATIONAL QUALITY PROGRAM FOR EXTRACORPOREAL MEMBRANE OXYGENATION

LB Mongero, AH Stammers, A Stasko, EA Tesdahl, SpecialtyCare, INC, Nashville, TN
Sponsored by Linda B. Mongero

PERIPHERAL VENO-ARTERIAL EXTRACORPOREAL MEMBRANE OXYGENATION: DISTAL PERFUSION CANNULATION COMPLICATION

Christine Chan, James Beck, Kenmond Fung, Hiroo Takayama, Koji Takeda
New York Presbyterian Columbia University Medical Center, New York, NY
Sponsored by Kenmond Fung

HOW DOES CONTINUOUS MONITORING OF TIME-DOSE RESPONSE OF OXYGEN DELIVERY AFFECT PERFUSIONIST PERFORMANCE ON CARDIOPULMONARY BYPASS?

Patton-Rivera K, Beck J, Fung K, Apsel-Mulin D, De Bois WD, George I
New York Presbyterian – Columbia University Medical Center, New York, NY
Sponsored by Dana Apsel-Mulin

“IS 300 ENOUGH?” A PRACTICAL INSIGHT INTO AORTIC ROOT VENTING AND EFFECTIVE DE-AIRING.

Nicholas Trafford (*DSci, ACP, LCCP*)

Essex Cardio-Thoracic Centre, Basildon University Hospital, Basildon, United Kingdom

STERILITY AND PERFORMANCE OF OPEN AND CLOSED EXTRACORPOREAL CIRCUITS AFTER LONG-TERM DRY AND WET SETUPS

Joseph Deptula, MPS, CCP¹, Catrina McGrath, CCP², Thomas Preston, CCP³, Hayden Miller, CCP³, Bianca Yen, CCP², Lenny Munari, CCP², Shaun P. Setty, MD²

¹ Department of Pediatric Cardiac Surgery, Levine Children's Hospital, Charlotte, NC

² Department of Pediatric and Adult Congenital Cardiac Surgery, MemorialCare Heart and Vascular Institute, Long Beach, CA

³ Innovative ECMO Concepts Inc, Arcadia, OK

Sponsored by Joseph Deptula

9:30- AM – 11:30 AM	<p>Fireside Chats <i>Blood Conservation and Transfusion Triggers (Webcast also)</i> <i>Dealing with Stress, Finding Work/Life Balance, Team Building and Communication</i> <i>ECMO Scenarios</i> <i>Myocardial Preservation</i> <i>Pediatrics</i> <i>Pump On: The First Five Years</i></p>
11:30AM - 1:00PM	<p>Lunch Historical Presentation: The Black Experience: Dr. Daniel Hale Williams - <i>Moderated by Steven Sutton</i></p>
1:00 PM – 3:00 PM	<p>Special Scientific Panel Session Heart Matters: Life Beyond the Pump Run <i>Moderators: Carmen Giacomuzzi, William Riley</i> Motivational Speaker: Craig Cunningham The Heart of the Matter: A parent’s perspective on raising a child with HLHS: <i>Aimee Mooney, OT, Assistant Professor</i> Integrated Life Skills for Creating Resilience to Burnout and Reconnecting with Joy in your Personal and Professional Life: <i>Ross Ungerleider, MD and Jamie Dickey Ungerleider, PhD</i> Panel Q & A</p>
3:00 PM – 3:30PM	<p>Break Historical Presentation: The Black Experience - Dr. Charles Drew <i>Moderated by Steven Sutton</i></p>
3:30 PM – 5:30 PM	<p>Memorial Session Charles C. Reed Memorial Lecture (Ross Ungerleider, MD) Thomas G. Wharton Memorial Lecture (Carmen Giacomuzzi, CCP) In Memorium - Aaron G. Hill</p>
6:30 PM	<p>Induction Dinner <i>All Attendees and Guests</i></p>

Saturday, February 8, 2020

7:00 AM	REGISTRATION
7:00 AM – 7:45 AM	<p>Historical Presentation: History of Cardiac Trauma <i>Moderated by Steven Sutton</i></p>
7:45 AM – 9:30 AM	<p>Scientific Paper Session DOES CARDIOPLEGIA PROVIDE CARDIAC PROTECTION BY INDUCING Nf-E2 RELATED FACTOR-2 (Nrf2)? Hongting Diao¹, Wujing Dai², Raymond Wong³, Qin Chen⁴ ¹Perfusion Sciences Graduate Program, Department of Pharmacology, College of Medicine, The University of Arizona, Tucson, AZ 85724 ²Department of Pharmacology, College of Medicine, The University of Arizona, Tucson, AZ ³Perfusion Sciences Graduate Program, Department of Pharmacology, College of Medicine, The University of Arizona, Tucson, AZ 85724 ⁴ Department of Pharmacology, College of Medicine, The University of Arizona, Tucson, AZ</p>

THE EFFECTS OF CARDIOPLEGIA ON NON-DIABETIC PATIENT GLUCOSE LEVELS
Caitlin Murdock, Quinnipiac University, Hamden, CT
Sponsored by Michael Smith

ESTIMATED QUANTIFICATION AND SCIENTIFIC JUSTIFICATION OF THE USAGE OF
FRESH FROZEN PLASMA AND HYPERTONIC ALBUMIN DURING CARDIOPULMONARY
BYPASS IN NEONATES AND INFANTS
Isaac Chinnappan, MS, CCP, LCP, FPP, CPBMT, CPBMS
Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN
Sponsored by Isaac Chinnappan

A SINGLE INSTITUTION CARDIAC INITIATIVE TO CUT BLOOD USE DURING CARDIAC
SURGERY
Charles Krumholz
University of Vermont Medical Center, Burlington, VT
Sponsored by Christine Clay

PULSATILE VS. NON-PULSATILE FLOW DURING CARDIOPULMONARY BYPASS
Stephanie Gayeski, Quinnipiac University, Hamden, CT
Sponsored by Molly Bryant

A SURVEY OF PERFUSIONISTS' COMMUNICATIONS DURING CRITICAL EVENTS
Emilianna Landry, Adam Murphy, and Peyton Higgins, David C. Fitzgerald, Joseph J. Sistino,
Medical University of South Carolina, CVP Program, Charleston, SC
Sponsored by David Fitzgerald
Presenter: Adam Murphy

9:30 AM – 10:00 AM

Break

Historical Presentation: Mitral Valve Repair - Dr. Alain Carpentier
Moderated by Steven Sutton

10:00 AM – 12:00 PM

Special Scientific Panel Session

Industry Partners: "Past, Present, and Future"

Moderators: Richard Melchior, Giovanni Cecere

Edwards

LivaNova

Medtronic

Spectrum Medical

Terumo

Panel Q&A

12:00 PM – 1:00 PM

Lunch

Historical Presentation: Development of Mechanical Heart Devices -
Dr. Michael DeBakey - *Moderated by Steven Sutton*

1:00 PM – 3:30 PM

Special Scientific Panel Session

Complex Congenital Heart Surgery

Moderators: Tami Rosenthal, Alex Gum

Clampless Cardioplegia: *Thomas Klein*

Case Report; Gunshot to the Heart: *D. Brad Sanders*

Circuit Miniaturization; Is it Worth the Effort: *D. Scott Lawson*

Cord Blood: Possibilities and Challenges: *Bharat Datt*

Antifibrinolytics for Pediatrics: *Isaac Chinnappan*

Panel Q & A

3:30 PM – 5:30 PM

Fireside Chats

Evolving Scope of Practice: Past, Present and Future

Low Fidelity Simulation: Buckets, Hoses and Duct Tape: Make the Most of What You've Got

Pediatrics (Webcast also)

Taking the Show on the Road: Transporting VADs and ECMO

Using EMRs, Apps and New Technology to Improve Patient Safety and Standards of Care

5:30 PM

Closing Business Meeting

Fellow, Senior and Honorary Members Only

There will not be any on-site registration this year so please pre-register. We have extended the deadline to January 12, 2020.