27th Annual Educational Conference
On Behalf of the ISPS Board of Directors, welcome to the 27th Annual Illinois State Perfusion Society Educational Conference!

First and most importantly, the Illinois State Perfusion Society Board of Directors extends our upmost respect and sincere thank you to all perfusionists for your ongoing efforts in stifling the global COVID pandemic. Because of your dedication and tireless work ethic, countless patients’ lives have been saved.

At this time last year, we were hopeful that this year’s conference would return to an in-person event. However early in this year’s planning, the board was again faced with rising COVID numbers and talks of reimplementing strict COVID precautions. In order to protect the meeting’s long-term interests and not forfeit booking deposits, the board decided to again hold this year’s conference virtually. The good news is that the planning committee is already in early discussions for next year’s conference to again, and finally, return to an in-person event!

An enormous thank you goes out to our presenters, speakers, and industry partners – they are all highly respected, internationally recognized experts in their professional fields. We hope that you find their lectures and this year’s entire academic agenda to be extremely up-to-date and relevant, thought provoking, and demonstrative of the breadth of our perfusion profession. In total, there are more than 300 publications authored by this year’s presenters. Additionally, there is cutting edge information regarding new market products presented by our industry partners. We hope that you are able to apply some of this information in your clinical practice to better patient care.

Holding to our society’s objectives, we are very pleased to offer this conference at an incredible value to all perfusionists, and completely free of charge to all perfusion students, for several reasons: Our speakers are donating their time in lecture preparation and presentation. All positions on the ISPS Board of Directors are unpaid volunteer positions. We have tremendous industry partners who believe in our mission to provide high quality education at a low cost. We charge a very minimal registration fee only to cover technology and advertising related costs associated with the production of this conference; and to generate funds for deposit costs of next year’s conference.

I would like to extend a very heart-felt thank you to each member of the ISPS Board of Directors. All members of the board have given, freely, many hours of their time in service to our profession in delivering this educational opportunity to all perfusionists and attendees. Thank you Meghan, Steve, Curtis, and Dave – you are true professionals and I am honored to work with you side-by-side as your colleague.

Last but not least, I would like to ask for the attendees of the perfusion community to consider volunteering on the Illinois State Perfusion Society’s Board of Directors. Next year is an election year for all positions on the ISPS Board. If you are interested in joining a dynamic group of perfusionists in serving our profession – please contact one of the board members for additional information on how to join our team!

We hope you enjoy this year’s academic agenda and we look forward to seeing everyone live, in-person, and virtually next year!
August 30, 2022

Mr. Ryan Piech, CCP

Dear Mr. Piech:

The American Board of Cardiovascular Perfusion has processed your letter regarding CEUs for the 27th Annual Illinois State Perfusion Society Educational Conference which will be held on October 8, 2022, online. After reviewing the program submitted, the American Board will allot 10.4 Category I CEUs to those perfusionists who attend the meeting.

Meeting sponsors are required to provide verification to all attendees in the form of an official document such as a letter or certificate, specifying the total number of CEU credit hours earned by that individual. This letter or certificate will serve as official verification of attendance and hours earned. A copy of this verification must be submitted by each Certified Clinical Perfusionist along with the Professional Activity Report when applying for recertification.

If you should have any questions or we can be of further assistance to you, please contact the National Office of the Board at the above address.

Sincerely,

Beth A. Richmond, Ph.D.
Stephen E. Oshrin, Ph.D.
Executive Co-Directors

BAR,SEO/km

Established 1975
Academic Agenda
Times Listed in Central Time

0645: Webinar Sign-On Opens

0655: Opening Welcome, Ryan Piech, MS, MBA, CCP
Illinois State Perfusion Society President’s Address

0700-0740: Gabrielle Ward, MS, CCP, LP
Staff Perfusionist, Columbia New York Presbyterian Medical Center, New York
“Perfusionists of the New Generation: New Advances for Game Changing Conduct of Perfusion”

0740-0820: Christopher Salerno, MD
Director, Adult Cardiac Surgery and MCS, University of Chicago Medical Center, Chicago, IL
“Heart Transplantation of the Future: Let’s Schedule Yours”

0820-0900: Amy Evans, MS, CCP
Staff Perfusionist, Duke University Medical Center, Durham, NC
“ExVivo Organ Perfusion of Duke’s Experience: Let the Truth Be Told”
0900-0940: Vika Kagen, CCRN, MSN, ACNP-BC  
MCS Program Manager, University of Chicago Medicine, Chicago, IL  
“ECMO, ECPR, Trauma, and More: Choosing The Best Path for Patient Outcomes”

0940-1020: Kristen Nelson-McMillan, MD  
Pediatric Cardiac Intensivist, Advocate Children’s Hospital, Oak Lawn, IL  
“Direct Thrombin Inhibitor Use in Pediatric Mechanical Circulatory Support”

1020-1100: Darren Bryan, MD  
Assistant Professor of Surgery, University of Chicago Medicine, Chicago, IL  
“Thoracic HIPEC: Using Perfusion Weaponry for a New Fight”

1100-1140: Mike Kotwas, CCP and Sejal Loberg, CCP  
Vice President and President, Perfusion Technologists, Oak Lawn, IL  
“ECMO During a Pandemic: Lessons Learned to Improve Future Management”

1140-1220: Matt Warhoover, CCP  
Medtronic Cardiopulmonary, Chicago, IL, ISPS Industry Partner  
“Why Nautilus Makes Our ECMO Program SMART’er”

1220-1300: Rob Sloan, BS, CCP, MBA  
LivaNova Cardiopulmonary, Chicago, IL, ISPS Industry Partner  
“Essenz Patient Monitor – The New Era of Perfusion”

1300-1340: Kumaran Shanmugarajah, MD, PHD  
General Surgeon, Scientific Director OPL, University of Chicago Medicine, Chicago, IL  
“Advances in Liver Perfusion Techniques: Expanding the Liver Donor Pool”
**1400-1440: Cindy Urbas, CCP**  
Chief Perfusionist, Advocate Children’s Hospital, Oak Lawn, IL  
“Single Center Experience in Multidisciplinary Simulations for Pediatric ECMO”

**1440-1520: Morgan Candace Shoaff**  
Perfusion Student, Rush University School of Perfusion, Chicago, IL  
“Incorporation of 3D Bioprinting For Multidisciplinary Simulation”

**1520-1540: Brynn Hoover**  
Perfusion Student, Rush University School of Perfusion, Chicago, IL  
“The Frequency of Microbial Growth in Expired Perfusion Cannulaes”

**1540: Closing Remarks / Meeting Adjourned**
Nautilus™* Smart ECMO module

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Course Faculty Biographies

Gabrielle Ward, MS, CCP, LP

Gabrielle Ward is a Cardiovascular Perfusionist at New York Presbyterian Columbia University Irving Medical Center. Working at one of the largest centers in the nation has given Gabrielle the opportunity to experience much of what Perfusion has to offer. She also partakes in research, presenting, and educational opportunities. It has only been 2 short years since Gabrielle has graduated, but she hopes to make a meaningful impact on the field of Cardiovascular Perfusion.

Education and Training

Graduate: Master’s Degree in Cardiovascular Sciences and Perfusion Medicine, Hofstra University, Uniondale, NY. 2019-2020
Undergraduate: Bachelor of Arts in Biology, Hofstra University, Uniondale, NY. 2013-2017

Certifications: American Board of Cardiovascular Perfusion, Certified Clinical Perfusionist (CCP)

Licensed, New York State Department of Education, Licensed Perfusionist (LP)

Affiliations and Professional Membership

New York State Society of Perfusion
Christopher Salerno, MD

Christopher Salerno, MD, is a global leader in cardiac surgery and an expert in performing complex surgeries for patients suffering from a wide range of heart conditions. Dr. Salerno’s practice primarily focuses on treating heart failure, mechanical circulatory support (ventricular assist devices) and heart transplantation.

Along with his devotion to his clinical practice, Dr. Salerno is also an avid researcher who investigates treatment and techniques to improve overall care for his patients. He has evaluated long-term outcomes of heart patients to assess which treatments deliver the best results, improve protocols and patient care. Dr. Salerno has also conducted intense research centered on caring for patients with heart conditions during COVID. His research has been published in a number of
highly respected, peer-reviewed journals, including *Journal of American College of Cardiology*, *Journal of Cardiothoracic Surgery*, *American Journal of Transplantation*, *Annals of Thoracic Surgery* and *Journal of Heart and Lung Transplantation*. 
Amy received her Bachelor of Science from College of Charleston in 2013. She graduated with her Master's degree from the MUSC Cardiovascular Perfusion program in 2019. She has been a pediatric perfusionist at Duke University Hospital since 2019.
Vika Kagen, CCRN, MSN, ACNP-BC

Vika Kagan is the manager of APPs for the Heart and Vascular Center at University of Chicago. She works clinically as the lead mechanical circulatory support coordinator working with a multi-disciplinary team to manage patients on acute and durable MCS, with a specialized interest in cardiogenic shock.

Vika had previously worked at University of Chicago as a VAD coordinator for several years before transitioning to Northwestern Memorial Hospital on the post op cardiac surgery team managing patients after cardiac surgery as well as facilitating the development of the Shock and ECMO program. She was the lead APN on the Shock Team and helped develop protocols and education for staff. Vika’s academic interests’ management of cardiogenic shock, development on clinical pathways and evidence based care for patients on temporary MCS as well as ECPR. She graduated from University of Michigan in Ann Arbor and obtained her degree as an Adult Geriatric Acute Care Nurse Practitioner.
Dr. Kristen Nelson McMillan completed her medical school at LSU, followed by pediatric residency and chief residency at LSU. She then completed pediatric critical care fellowship training at Johns Hopkins. She was the inaugural Director of the Pediatric Cardiac ICU and Pediatric Ventricular Assist Device Program at Johns Hopkins in Baltimore, Maryland from 2012-2019. In 2019, she was recruited to help build a VAD and transplant program in Illinois. She is now the Medical Director of Advanced Pediatric Heart Failure, Pulmonary Hypertension and VAD programs at Advocate Children's Heart Institute and The University of Chicago. Her research interests include coagulation assessment and anticoagulation management of complex pediatric cardiac patients within these programs.
Darren Bryan, MD

Darren Bryan, MD, is a highly skilled thoracic surgeon specializing in the treatment of disorders of the lung, esophagus, chest lining (pleura) and thymus gland. Dr. Bryan has particular expertise in caring for patients with lung cancer and mesothelioma.

Trained in both traditional (open) and minimally invasive/robotic surgical techniques, Dr. Bryan is able to personalize care for each patient. He works with his patients to decide what treatment option will work best for long-term success.

Along with his clinical practice, Dr. Bryan uses laboratory science and transitional research to investigate new therapies that can improve care for patients with lung
disease and cancer. His work has been published in multiple highly regarded peer-reviewed journals, including the *Annals of Thoracic Surgery*, *Annals of Surgery* and the *Proceedings of the National Academy of Sciences*.

As a surgeon at the University of Chicago, he is closely involved in the education of medical students, residents, and fellows, helping to guide their training paths and provide mentorship along the way.
Sejal Loberg, MS, CCP, LP

Mrs. Loberg currently serves as President of Perfusion Technologists of Greater Chicago. In 2005, Sejal graduated University of Illinois Chicago with her BS degree in Biochemical Engineering. After undergraduate, she graduated from RUSH University School of Cardiovascular Perfusion in 2007 earning her degree in Perfusion Technology.

Sejal’s clinical interests include ECMO and acute mechanical circulatory support. She served as lead VAD coordinator at Advocate Christ Medical Center for several years and currently serves as their ECMO clinical director. Most recently she was responsible for supervising 30 patients on ECMO at one time, and 80+ in total, during the height of the COVID pandemic. Her research work is focused in this area, where she and her group authored a publication in JAMA. Her professional affiliations include ELSO, ABCP, and AMSECT.

In her free time, Sejal loves staying active and is an avid runner. When the weather allows, she also enjoys sailing. Although not as much recently, she loves to travel, especially exploring new and exciting locations throughout the world.
Mike Kotwas, CCP

Mr. Kotwas currently serves as the Vice President for Perfusion Technologists of Greater Chicago, where a majority of his time is spent at Advocate Christ Medical Center and Rush University Medical Center. Mike attended Loyola University of Chicago for both his undergraduate degrees and perfusion degrees (Foster G McGraw School of Perfusion). After graduating perfusion school in 1990, Mike was a founding member of Perfusion Tech and has helped the group to grow serving over 20 locations since inception, serving in multiple capacities including manager and chief of perfusion.

Mike is an expert in mechanical circulatory support / ECMO, having set up multiple programs in his career. He extensively volunteers throughout the year as a member of the ELSO simulation team, for which he travels throughout the world. He is frequently an invited speaker at various perfusion and ECMO conferences, including the virtual 2020 ELSO conference for over 10,000 attendees. He professional memberships include AMSECT, ABCP, ASAIO, ELSO, and SCCM.

In his free time, Mike enjoys international travel, having traveled to many countries throughout the world. He particularly loves hiking – especially in the Seattle area and the greater pacific northwest. He is also interested in wine tasting, often frequenting Napa Valley for vacations.
Matt Warhoover, CCP

Matt Warhoover graduated from Vanderbilt University with a Masters in Health Care Management. He also earned a masters in Perfusion Science from Milwaukee School of Engineering. Matt is the current Associate Chief of Perfusion at Vanderbilt University Medical Center. He is the lead for the perfusion based ECMO service line performing nearly 100 ECMO patients and 20,000 hours annually.
His career started as a Cardiac and Thoracic Surgery Anesthesia Technician in 1997 and continued his education and started his perfusion career at Midwest Heart Institute in Milwaukee, WI in 2002. In 2005 Matt moved to Perfusionist Supervisor for McAllen Perfusion Associates, Inc. in McAllen, TX and in 2016 became Associate Chief of Perfusion at Vanderbilt University Medical Center in Nashville, TN.

He is certified with the American Board of Cardiovascular Perfusion and is a Licensed Perfusionist by Tennessee State Department of Health.


Matt is a member of the American Board of Cardiovascular Perfusion (2002 – Present), Tennessee Perfusion Association Member (2006 – Present) and Tennessee Perfusion Association President (2010 – Present)
Rob Sloan BS, CCP, MBA

Account Executive, LivaNova

Rob received his B.S. in Perfusion Technology from Rush University in 2001. While working as a perfusionist in Indianapolis, he began the evening MBA program at Butler University in 2011 and graduated in 2014. Shortly after graduation, he became the Director of Statewide Perfusion for IU Health in Indianapolis. In June of 2016, he transitioned to industry as the Account Executive for LivaNova for parts of Indiana, Kentucky, and Ohio. Rob enjoys utilizing his experience in clinical perfusion to help partner with hospitals and educate clinicians on the function and benefits of LivaNova’s products for the benefit of their patients.
Kumaran Shanmugarajah PhD, MD

Dr Shanmugarajah is a clinician-scientist working at the interface of basic science and clinical application. His research interests are 1) minimizing the burden of immunosuppression of recipients or organ transplants and 2) enhancing the quality of donor organs prior to transplants. He is currently a general surgery resident at the University of Chicago where he also serves as founding member of the Organ Perfusion Lab. Presently he is working within this multi-disciplinary group to alter the immunology of transplant organs maintained on normothermic ex vivo pumps. Prior to joining the University of Chicago, he was a general surgery resident at Massachusetts General Hospital and the University of Oxford. He is a member of the Royal College of Surgeons of England.
Cindy Urbas, CCP

Cindy has been a pediatric perfusionist at Advocate Children’s Hospital since 2003. In 2017, she was promoted to Chief of Perfusion at the Oak Lawn Campus Children’s Hospital. Cindy’s clinical concentrations include blood conservation in pediatric open heart surgery and quality improvement projects in pediatric ECMO. She enjoys spending time with her kids in their favorite activities, cooking, and gardening. In the summertime, she spends time with family and friends boating on Lake Michigan.
Currently, Morgan is working towards earning her masters in Cardiovascular Perfusion at Rush University. In her second year as a student, she is researching 3D-bioprinting in hopes of impacting the fundamental understanding of how emerging biomedical technologies could benefit teaching methods of perfusion. Once graduated, she will have better developed a proficiency in biofabrication of anatomical structures. In her free time, and as often as able, she is diving a tropical reef or seeking out the next mom and pop Michelin star restaurant.
Brynn Hoover, Rush Perfusion Student

Brynn Hoover graduated from the University of Arkansas with three degrees in Biology, Psychology and Chemistry. Brynn was a Perfusion Assistant at Northwest Perfusion in Fayetteville, Arkansas for a year before being accepted to perfusion school. She started school at Rush University in the Fall of 2021. As part of earning her Master's in Perfusion, she is researching the Frequency of Microbial Growth on Expired Cannulas.
ISPS Board of Directors and Conference Program Committee

President
Ryan Piech, MS, MBA, CCP

Mr. Piech currently serves as the Chief of Perfusion for University of Chicago Medicine and its affiliate hospitals, where he has practiced for the past 20 years. Prior to University of Chicago, he worked at Columbia New York Presbyterian Hospital for 1.5 years, immediately after graduating perfusion school (MS) in New York. In 2013, he graduated from University of Notre Dame's School of Business with his MBA. Ryan has served the perfusion community throughout his career volunteering with local and national perfusion organizations; including serving the Illinois State Perfusion Society for several years. In February 2020, Ryan was inducted as a Fellow Member into the American Academy of Cardiovascular Perfusion. He has been an invited speaker at numerous educational conferences; both local and national. He frequently travels to several perfusion schools to present as a guest lecturer. Ryan's clinical interests include heart failure and transplant, MCS, and robotic cardiac surgery. Ryan is a founding member of University of Chicago's Organ Perfusion Laboratory where his research interests include studies surrounding heart, lung, and liver methods for transplantation donor pool expansion, methods for increasing organ ischemic time, blood alternatives, and bloodless surgery. Outside of work Ryan enjoys staying active and spending time with family and friends.

Vice President
Meghan Meyer, BA, CCP

Meghan has worked at University of Chicago Medicine for the last 9 years and currently serves as the Assistant Chief of Perfusion for the hospital and its affiliate locations. Prior to University of Chicago, Meghan worked in private practice with Illinois Perfusion Technology, immediately following her graduation from University of Iowa Perfusion School where she simultaneously earned her BA degree in Biology. Meghan has mentored many prospective perfusion students (and even hired some!) and is currently in the process of starting the UCM Perfusion Student
Mentorship Program. Her clinical interests include rare and complex perfusion cases as well as minimally invasive surgery. Meghan is a perennial supporter of the University of Iowa Children’s Hospital, where she has spent many hours volunteering.

Secretary

Curtis Eldridge, MS, CCP

Mr. Eldridge has been a perfusionist at Rush University Medical Center for the past 23 years. He is the Assistant Director of Perfusion in the Department of Extracorporeal Technology at Rush University Medical Center in Chicago, IL. Additionally, he is a senior perfusion instructor in the Perfusion Technology Department of Cardiopulmonary Sciences at Rush University. He also serves as Clinical Coordinator at John H. Stroger Jr. Hospital of Cook County. No stranger to volunteer work, Curtis has served on numerous boards and in several perfusion groups throughout his career. Away from the hospital, Curtis is an avid cyclist and enjoys home improvement projects.

Treasurer

Steve Moss, BS, CCP

Mr. Moss is a graduate from the Penn State School of Perfusion. Currently, he works at Lurie Children’s Hospital, Chicago, IL, as a pediatric perfusionist since joining their program in 2006. Prior, he was perfusionist at University of Chicago, and University of Virginia doing both Pediatric and Adult perfusion cases. Steve graciously volunteers his time and has served on several perfusion-related boards including the Illinois State Perfusion Society (ISPS) and the Chicagoland Perfusion Foundation (CPF). Additionally, Steve is a Clinical Instructor for both Rush University and Midwestern University Perfusion Schools. Having a passion for travel, Steve has taught perfusion and pumped pediatric cases on many pediatric cardiac surgery mission trips in many different countries throughout the world. Steve lives in Berwyn, IL and spends most of his free time with his two sons, enjoying outdoor activities, and traveling abroad.
Senior Director

Dave Durdov, MS, CCP

Dave is a pediatric perfusionist at Lurie Children’s Hospital as well as an assistant professor at Rush University. At Rush, he serves as the perfusion clinical coordinator and course director for Anatomy & Physiology and Congenital Pediatric Heart Disease. Dave graduated with a B.S. from Rush University Perfusion Technology Program in 1996. In 2005, he graduated with a M.S. from Rush University Health Systems Management Program. In his free time, Dave coaches his son's hockey team and is a drummer in a rock band.
THANK YOU!!!! Please Join Us Next Year!