



**Wisconsin Perfusion Society  
30th Annual Spring Educational Meeting**

Hyatt Regency Downtown Milwaukee  
April 26<sup>th</sup> – 28<sup>th</sup>, 2024

**Program Director: Natalie Neisen CCP, LP**

*As the program director, I welcome you to the Wisconsin Perfusion Society's 30th Annual Spring Educational Meeting. I, along with the WPS board, hope that you enjoy your time at this meeting. Please take advantage of this opportunity to learn from a great cross-section of speakers, to network with some old and new friends, and to share your ideas with the group. The WPS has always been about providing a comfortable atmosphere for the exchange of ideas.*

**Purpose:**

The Wisconsin Perfusion Society was founded in 1994 to provide continuing education and promote dialogue among perfusionists and cardiovascular professionals throughout the state and nation. In this tradition, the goal of the 30th Annual WPS Educational Meeting is to create an environment of discovery through continuing education and provide a forum for clinicians and industry professionals to present materials that pertain to the profession of cardiovascular perfusion and cardiovascular surgery.

**Intended Audience:**

The society hopes our meeting will appeal to a wide range of health care providers. We welcome perfusionists, physicians, physician assistants, nurses, allied health care providers and representatives from companies supplying the needs of open-heart programs.

**Recertification Points:**

**You must sign in and attend, to obtain the maximum number of CEUs.**

Our program was submitted to The American Board of Cardiovascular Perfusion once it was finalized. The ABCP has awarded **20.7** Category I CEUs for this educational program.

Friday: 5.4  
Saturday: 10.2  
Sunday: 5.1  
**Total: 20.7 CEUs**

**2023-24 Wisconsin Perfusion Society Executive Board**

<b>President:</b> Scott Niles, CCP, LP Madison, WI	<b>Vice-President:</b> Jeff Edwards, CCP, LP Marshfield, WI
<b>Secretary:</b> Jennifer Anderson, CCP, LP Waukesha, WI	<b>Treasurer:</b> Kirsten Kallies, CCP, LP Waukesha, WI
<b>Board Members at Large:</b> Carson Buss CCP, LP Natalie Neisen CCP, LP	

**2023-24 Wisconsin Perfusion Society Committee Chairs**

Manufacturer Liaison: Scott Brown, CCP, LP  
Awards Committee: Jeff Edwards, CCP, LP  
Education Committee: Scott Niles, CCP, LP and Marianne Pilger, CP, LP  
Election/Nominating Committee: Scott Niles, CCP, LP  
Membership Committee: Matthew Tittl, CCP, LP  
Scholarship Committee: Carson Buss, CCP, LP  
Webmaster: Matthew Tittl, CCP, LP

## **Friday, April 26<sup>th</sup>, 2024**

**1500 – 1930:** Registration and Sign-in – **Regency Ballroom Foyer**

**1530 – 1900:** Vendor Fair – **Regency Ballroom**

### **Poster Session:**

Social Hour with hors d'oeuvres and cash bar – **Regency Ballroom**

**1530 – 1730: Circulatory Arrest and Neurologic Complications**

Kayli Schofield BSN, RN, Quinnipiac University

**AKI During CPB: Pulsatile or Non-Pulsatile Flow?**

Michael Gallagher BS, AS, Quinnipiac University

**Cold Renal Perfusion and Postoperative AKI**

Jamie Merckling BS, Quinnipiac University

**Hypothermia Associated Coagulopathies**

Jason Van Beek BS, Milwaukee School of Engineering

**Distal Limb Preservation Techniques for Peripherally Cannulated ECMO**

Kameron Simpkin BS, Milwaukee School of Engineering

**ECMO Circuit Associated Coagulopathies**

Lauren Christensen BS, Milwaukee School of Engineering

**Hypercoagulability in COVID-19 Patients**

McKayla Zastrow BS, Milwaukee School of Engineering

**Washing Packed Red Blood Cells: Benefits and Issues**

Klaudia Mauro BS, Milwaukee School of Engineering

**ABO-Incompatible Cardiac Transplantation**

Lauren Croyle BS, Quinnipiac University

**Bivalirudin versus Heparin Anticoagulation Strategies on ECMO**

Zachary Dotson BS, Quinnipiac University

## **Scientific Presentations: Session 1**

### **Keynote Presentation**

Hors d'oeuvres and cash bar – **Regency Ballroom**

Moderated by **Natalie Neisen CCP**

**1730 – 1745: Opening Remarks**

Natalie Neisen CCP - Program Director

**1745 – 1845: Keynote – 2%: My Journey to the Edge and Back**

Delaney Kinstner

**1900 – 2000: Social Hour and Cash Bar – VUE Rooftop**

## **Saturday, April 27<sup>th</sup>, 2024**

**0730 – 1600:** Registration and Sign-in – **Regency Ballroom Foyer**

**0700 – 0800:** Continental Breakfast with Juice and Coffee – **Regency Ballroom Foyer**

**0900 – 1630:** Vendor Exhibitor Event Reception – **Regency Ballroom**

### **Scientific Presentations: Session 2**

#### **Regency Ballroom**

Moderated by Scott Brown CCP

**0730 – 0800: Development of Active Learning Activities for Didactic Perfusion Courses**

Catherine Kim BS, Milwaukee School of Engineering. Milwaukee, WI

**0800 – 0830: Flowing Forward: A Perfusion Experience in Cairo Egypt**

Joe Sleep CCP, LP, University of Wisconsin Hospital and Clinics.  
Madison, WI

**0830 – 0900: Heated Intraperitoneal Chemotherapy (HIPEC): A Quaternary Care Center Experience**

Geoffrey Bellini MD, FACS, FSSO, Aurora Medical Group. Milwaukee, WI

**0900 – 0930: Practical Use of TEG in Cardiac Surgery**

Joe Deily PA-C, Fort Meyers, FL. Sponsored by Haemonetics

### **BREAK**

Coffee and Soda Service – **Regency Ballroom**

## **Scientific Presentations: Session 3**

### **Regency Ballroom**

Moderated by Jenny Anderson CCP

- 0945 - 1015: To Vent or Not to Vent: Is Early LV Venting Beneficial for VA ECMO?**  
Tiffany Johnson BSN, RN, CES-A, E-AEC, Froedtert Hospital and Clinics.  
Milwaukee, WI
- 1015 - 1045: Advancements in Pediatric Mechanical Circulatory Support Options**  
Rob Niebler MD, Children's Wisconsin. Milwaukee, WI
- 1045 - 1115: Extracorporeal Support of Sheep Gravid Uterus**  
Nick Starkey CCP, FPP, LP and Natalie Neisen CCP, LP, Children's  
Wisconsin. Milwaukee, WI
- 1115 – 1145: Advancements in Preoperative Preparation and Anatomical  
Visualization: 3D Printing as an Economical and Practical Tool for  
Patient-Specific Care**  
Ben Neisen PhD, NatureWorks. Minneapolis, MN
- 1145 – 1245: Lunch and Awards Presentations – Madison Ballroom**

## **Scientific Presentations: Session 4**

### **Madison Ballroom**

Moderated by Kirsten Kallies CCP

- 1245 – 1315: Rooted in Perfusion**  
Carson Buss CCP, LP, University of Wisconsin Hospital and Clinics.  
Madison, WI  
**LeRoy H. Ferries Award Recipient**
- 1315 – 1345: Endocarditis Surgery: A Reflection on Infection**  
William Fischer III MD, Aurora Medical Group. Milwaukee, WI
- 1345 – 1415: Surgical Techniques in CHD: Reverse Subclavian Flap for  
Coarctation**  
Tracy Geoffrion MD, Children's Wisconsin. Milwaukee, WI
- 1415 – 1445: Nuclear Cell-Free DNA to Predict Adverse Outcomes Following  
Pediatric Cardiothoracic Surgery**  
Justinn Tanem MD, Children's Wisconsin. Milwaukee, WI

## **BREAK**

Coffee and Soda Service – **Regency Ballroom**

## **Scientific Presentations: Session 5**

**Regency Ballroom**

Moderated by Carson Buss CCP

- 1500 – 1530: Current Research in Operating Room Monitoring Technology**  
Verna Nelson CCP Emeritus, Sponsored by Innovative Medical Devices
- 1530 – 1600: Essenz Experience at Cleveland Clinic**  
Randi Lackritz CCP, Cleveland Clinic. Sponsored by LivaNova
- 1600 – 1630: Can a Syringe Pump Do That?**  
Josene Carlson BSN, RN, CCP. Sponsored by Innovative Medical Devices

## **Sunday, April 28<sup>th</sup>, 2024**

**0730 – 1130:** Registration and Sign-in – **Lakeshore Ballroom Foyer**

**0700 – 0800:** Continental Breakfast with Coffee and Juice – **Lakeshore Ballroom Foyer**

### **Scientific Presentations: Session 6**

#### **Lakeshore Ballroom**

Moderated by Scott Niles CCP

**0730 – 0800: The Future of Cardioplegia: the Next Step to Improved Myocardial Protection**

Luke Juricek, RUSH University. Chicago, IL

**0800 – 0830: Advancements in Ex Vivo Liver Perfusion**

Ashton Warlick BS, RUSH University. Chicago, IL

**0830 – 0900: Visual Aides Utilized in Perfusion Education**

Camille Dang, BSN, RN, RUSH University. Chicago, IL

### **BREAK**

Coffee and Soda Service – **Lakeshore Ballroom**

### **Scientific Presentations: Session 7**

#### **Lakeshore Ballroom**

Moderated by Natalie Neisen CCP

**0915 – 0930: Hypobaric Oxygenation**

Craig Fruth BS, Milwaukee School of Engineering. Milwaukee, WI

**0930 – 0945: The Use of Levosimendan in Patients Requiring Mechanical Circulatory Support and/or Cardiopulmonary Bypass**

Gabriel Kong BS, Milwaukee School of Engineering. Milwaukee, WI

**0945 – 1015: Balancing Osmolarity in Cardiopulmonary Bypass Primes**

Carrie Striker CCP, FPP, LP, Children's Wisconsin. Milwaukee, WI



**1015 – 1045: Cesarean EXIT Procedure for the Perfusionist**

Scott Niles CCP, LP, University of Wisconsin Hospital and Clinics.  
Madison, WI

**1045 – 1115: Training and Maintaining Competencies of ECMO Technicians**

Heidi Wellner BSN, RN, Children's Wisconsin. Milwaukee, WI  
**William P. Young Award Recipient**

**1115 – 1130: Efficacy of the Seraph 100**

Stephanie Hubbard BSN, RN, CCRN, Milwaukee School of Engineering.  
Milwaukee, WI

**1130 – 1145: The Creative Mind of Perfusion**

Brittany Finger CCP, LP. Ascension Columbia St. Mary's. Milwaukee, WI.

**Coordinating a meeting like this is no small task, but when you have a great organization like WPS, it becomes much easier. As program director, I was able to focus the majority of my attention on the educational content of the meeting because of the WPS team. Very special thanks go out to the entire WPS Board. Also, to our vendors, thank you for supporting this meeting - you and your companies are truly supporting the education of us all, and we appreciate it!**

**I would like to extend a very special thanks to our program faculty. I understand what a major task it is to not only put your talks together, but to give up your personal weekend to present at this meeting. I hope that you enjoy your experience speaking at this meeting, and I hope you will come back in the future.**

**Thanks again to everyone for attending the 30<sup>th</sup> Annual Wisconsin Perfusion Society Meeting! We hope to see you back next year!**

# NOTES

# 30th Annual Spring Educational Meeting Award Recipients

## **William P. Young Award**

Heidi Wellner BSN, RN, Children's Wisconsin. Milwaukee, WI

## **LeRoy H. Ferries Award**

Carson Buss MSP, CCP, LP, University of Wisconsin Hospitals and Clinics. Madison, WI

## **Ronald D. Nichols Merit Award**

Marianne Pilger CCP Emeritus

## **25 Year Service Awards:**

### **Class A:**

2024: Matthew P. Tittl CCP

## **35 Year Service Awards:**

### **Class A:**

2024: Shawn E. Mergen CCP

## **30 Year Service Awards:**

### **Class C:**

2024: Roy M. Kalu CCP

## **50 Year Service Awards:**

### **Class A:**

2024: Michael G. Harloff Emeritus

## **2024 Tony Taraskiewicz Award Winner**

Catherine Kim – Milwaukee School of Engineering

## **2024 WPS Scholarship Essay Contest Winners**

McKayla Zastrow – Milwaukee School of Engineering

Scholarships this year were sponsored by donations from:  
Ron Nichols and WPS Membership

**Thank you to all of the other WPS members  
who donated to the essay scholarship fund!**

**Your contributions are greatly appreciated!**



## 30th Annual Spring Educational Meeting Sponsors

Abbott Laboratories

CardioQuip

Century HLM

EPIC Cardiovascular Staffing Group

Getinge

Haemonetics

Heartbeat Perfusion Solutions, Inc.

Innovative Medical Devices, Inc.

LivaNova

Medtronic

Perfusion Life

Perfusion Solution

Quest Medical

Spectrum Medical

Terumo Cardiovascular

## Attendee Program Evaluation Form

### 30th Annual Wisconsin Perfusion Society Spring Educational Meeting April 26<sup>th</sup> – April 28<sup>th</sup>, 2024

Scoring: 1-5 (1 = poor, 5 = excellent)

Friday, April 26<sup>th</sup>, 2024

#### Poster Session:

##### **Circulatory Arrest and Neurologic Complications**

Kayli Schofield BSN, RN, Quinnipiac University. Hamden, CT

Content:        1                    2                    3                    4                    5

##### **AKI During CPB: Pulsatile or Non-Pulsatile Flow?**

Michael Gallagher BS, AS, Quinnipiac University. Hamden, CT

Content:        1                    2                    3                    4                    5

##### **Cold Renal Perfusion and Postoperative AKI**

Jamie Merckling BS, Quinnipiac University. Hamden, CT

Content:        1                    2                    3                    4                    5

##### **Distal Limb Preservation Techniques for Peripherally Cannulated ECMO**

Kameron Simpkin BS, Milwaukee School of Engineering. Milwaukee, WI

Content:        1                    2                    3                    4                    5

##### **Hypothermia Associated Coagulopathies**

Jason Van Beek BS, Milwaukee School of Engineering. Milwaukee, WI

Content:        1                    2                    3                    4                    5

##### **ECMO Circuit Associated Coagulopathies**

Lauren Christensen BS, Milwaukee School of Engineering. Milwaukee, WI

Content:        1                    2                    3                    4                    5

##### **Hypercoagulability in COVID-19 Patients**

McKayla Zastrow BS, Milwaukee School of Engineering. Milwaukee, WI

Content:        1                    2                    3                    4                    5

##### **Washing Packed Red Blood Cells: Benefits and Issues**

Klaudia Mauro BS, Milwaukee School of Engineering. Milwaukee, WI

Content:        1                    2                    3                    4                    5

**ABO-Incompatible Cardiac Transplantation**

Lauren Croyle BS, Quinnipiac University. Hamden, CT

Content: 1 2 3 4 5

**Bivalirudin Versus Heparin Anticoagulation Strategies on ECMO**

Zachary Dotson BS, Quinnipiac University. Hamden, CT

Content: 1 2 3 4 5

**Session One:**

**Keynote – 2%: My Journey to the Edge and Back**

Delaney Kinstner

Content: 1 2 3 4 5

Saturday, April 27<sup>th</sup>, 2024

**Session Two:**

**Development of Active Learning Activities for Didactic Perfusion Courses**

Catherine Kim BSed, Milwaukee School of Engineering. Milwaukee, WI

Content: 1 2 3 4 5

**Flowing Forward: A Perfusion Experience in Cairo Egypt**

Joe Sleep CCP, LP, University of Wisconsin Hospitals and Clinics. Madison, WI

Content: 1 2 3 4 5

**Heated Intraperitoneal Chemotherapy (HIPEC): A Quaternary Care Center Experience**

Geoffrey Bellini MD, FACS, FSSO. Aurora Medical Group. Milwaukee, WI

Content: 1 2 3 4 5

**Practical Use of TEG in Cardiac Surgery**

Joe Deily PA-C, Fort Meyers, FL. Sponsored by Haemonetics

Content: 1 2 3 4 5

**Session Three:**

**To Vent or Not to Vent: Is Early LV Venting Beneficial for VA ECMO?**

Tiffany Johnson BSN, RN, CES-A, E-AEC, Froedtert Hospital and Clinics. Milwaukee, WI

Content: 1 2 3 4 5

**Advancements in Pediatric Mechanical Circulatory Support Options**

Rob Niebler MD, Children's Wisconsin. Milwaukee, WI

Content: 1 2 3 4 5

**Extracorporeal Support of a Sheep Gravid Uterus**

Nick Starkey CCP, FPP, LP and Natalie Neisen CCP, LP, Children's Wisconsin. Milwaukee, WI

Content: 1 2 3 4 5

**Advancements in Preoperative Preparation and Anatomical Visualization: 3D Printing as an Economical and Practical Tool for Patient Specific Care**

Ben Neisen PhD, NatureWorks. Minneapolis, MN

Content: 1 2 3 4 5

## **Session Four:**

### **Rooted in Perfusion**

Carson Buss CCP, LP, University of Wisconsin Hospitals and Clinics. Madison, WI

Content: 1 2 3 4 5

### **Endocarditis Surgery: A Reflection on Infection**

William Fischer III MD, Aurora Medical Group. Milwaukee, WI

Content: 1 2 3 4 5

### **Surgical Techniques in CHD: Reverse Subclavian Flap for Coarctation**

Tracy Geoffrion MD, Children's Wisconsin. Milwaukee, WI

Content: 1 2 3 4 5

### **Nuclear Cell-Free DNA Predicts Adverse Outcomes Following Pediatric Cardiothoracic Surgery**

Justinn Tanem MD, Children's Wisconsin. Milwaukee, WI

Content: 1 2 3 4 5

## **Session Five:**

### **Current Research in Operating Room Technology**

Verna Nelson CCP Emeritus, Sponsored by Innovative Medical Devices

Content: 1 2 3 4 5

### **Essenz Experience at Cleveland Clinic**

Randi Lackritz CCP, Cleveland Clinic. Sponsored by LivaNova

Content: 1 2 3 4 5

### **Can a Syringe Pump Do That?**

Josene Carlson BSN, RN, CCP. Sponsored by Innovative Medical Devices

Content: 1 2 3 4 5



**Sunday, April 28<sup>th</sup>, 2024**

**Session Six:**

**The Future of Cardioplegia: the Next Step to Improved Myocardial Protection**

Luke Juricek RUSH University. Chicago, IL

Content:     1                   2                   3                   4                   5

**Advancements in Ex Vivo Liver Perfusion**

Ashton Warlick BS, RUSH University. Chicago, IL

Content:     1                   2                   3                   4                   5

**Visual Aides Utilized in Perfusion Education**

Camille Dang BSN, RN, RUSH University. Chicago, IL

Content:     1                   2                   3                   4                   5

**Session Seven:**

**Hypobaric Oxygenation**

Craig Fruth BS, Milwaukee School of Engineering. Milwaukee, WI

Content:     1                   2                   3                   4                   5

**The Use of Levosimendan in Patients Requiring Mechanical Circulatory Support and/or Cardiopulmonary Bypass**

Gabriel Kong BS, Milwaukee School of Engineering. Milwaukee, WI

Content:     1                   2                   3                   4                   5

**Balancing Osmolarity in Cardiopulmonary Bypass Primes**

Carrie Striker CCP, FPP, LP, Children's Wisconsin. Milwaukee, WI

Content:     1                   2                   3                   4                   5

**Cesarean EXIT Procedure for the Perfusionist**

Scott Niles CCP, LP, University of Wisconsin Hospitals and Clinics. Madison, WI

Content:     1                   2                   3                   4                   5

**Training and Maintaining Competencies of ECMO Technicians**

Heidi Wellner BSN, RN, Children's Wisconsin. Milwaukee, WI

Content:     1                   2                   3                   4                   5

**Efficacy of the Seraph 100**

Stephanie Hubbard BSN, RN, CCRN, Milwaukee School of Engineering

Content:     1                   2                   3                   4                   5

**The Creative Mind of Perfusion**

Brittany Finger CCP, LP, Ascension Columbia St. Mary's. Milwaukee, WI

Content:     1                   2                   3                   4                   5

**Venue Evaluation**

Conference Facilities:

1                      2                      3                      4                      5

Hotel Room:

1                      2                      3                      4                      5

Quality of Food:

1                      2                      3                      4                      5

Convenience of Venue:

1                      2                      3                      4                      5

Value of Meeting:

1                      2                      3                      4                      5

## FACULTY

Dr. Geoffrey Bellini, MD, General Surgeon, Surgical Oncology, Aurora Health Care. Milwaukee, WI

Carson Buss CCP, University of Wisconsin Hospital and Clinics. Madison, WI

Josene Carlson BSN, RN, CCP

Lauren Christensen BS, Milwaukee School of Engineering

Lauren Croyle BS, Quinnipiac University

Joe Deily PA, Haemonetics. Fort Myers, FL.

Zachary Dotson BS, Quinnipiac University

Camille Dang BSN, RN, RUSH University

Dr. William Fischer III, MD, Cardiothoracic Surgeon, Aurora Health Care. Milwaukee, WI

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Randi Lackritz CCP, Cleveland Clinic. Cleveland, OH

Klaudia Mauro BS, Milwaukee School of Engineering

Jamie Merckling BS, Quinnipiac University

Ben Neisen, PhD, NatureWorks. Minneapolis, MN

Natalie Neisen CCP, Children's Wisconsin. Milwaukee, WI

Verna Nelson CCP Emeritus

Dr. Rob Niebler, MD, Critical Care Specialist, Children's Wisconsin. Milwaukee, WI

Scott Niles CCP, University of Wisconsin Hospital and Clinics. Madison, WI

Kayli Schofield RN, BSN, Quinnipiac  
University

Kameron Simpkin BS, Milwaukee  
School of Engineering

Joe Sleep CCP, University of  
Wisconsin Hospital and Clinics.  
Madison, WI

Nick Starkey CCP, FPP, Children's  
Wisconsin. Milwaukee, WI

Carrie Striker CCP, FPP, Children'  
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McKayla Zastrow BS, Milwaukee  
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