



**Wisconsin Perfusion Society's
17th Annual Spring Educational
Meeting**

Kalahari Resort & Convention Center
Wisconsin Dells, WI
March 26-28, 2010

**Shawn Mergen, BA, CCP, LP
Tiffany Holloway, CCP, LP
John Haag, CCP, LP
Program Directors**

Purpose

The Wisconsin Perfusion Society was founded in 1994 to provide continuing education and promote dialogue among the perfusionists throughout the state. The 17th Annual Wisconsin Perfusion Society Meeting will follow in this tradition. The Wisconsin Perfusion Society hopes to create a site for continuing education and provide a forum for perfusionists to present materials that pertain to the profession of cardiovascular perfusion. It is also the Society's intended goal to promote and improve dialogue among perfusionists throughout the region and to support perfusion education at all professional levels. A portion of the meeting will also be reserved for society members to transact business and elect officers. Awards, presentations for years of service, excellence and student scholarships will also be incorporated into this year's meeting.

Kalahari Resort & Convention Center
1305 Kalahari Drive
Wisconsin Dells, WI 53965-0590
www.kalahariresort.com
(877) 253-5466

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

The American Board of Cardiovascular Perfusion has awarded a total of **TBA**

Site

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Some thoughts from the Program Directors:

Dear Participant:

Thank you for attending the Wisconsin Perfusion Society 17th Annual Spring Meeting. Your role in caring for the surgical patient is as vital as is your role in attending and participating in this meeting. This annual event has been and will continue to be a success due to your interest and participation. We want to thank Mike Gough, Scott Brown, and Marianne Pilger for their help. We appreciate and thank the manufacturers for their financial support of the WPS. Because of their continued support we are able to give you a high caliber meeting. Again, we thank you, the attendees who faithfully support the WPS from instate and out. We encourage all of you to fill out the evaluation forms in this syllabus.

Respectfully,

Shawn Mergen CCP, LP Wausau WI

John Haag CCP, LP Weston WI

Tiffany Holloway CCP, LP Weston WI

**2009-10 Wisconsin Perfusion Society
Executive Board & Committee Chairs**

President: Michael Gough, CCP, LP
Milwaukee, WI

Secretary: Suzanne Keuler, CCP, LP
Milwaukee, WI

Vice-President: Eric Rauch CCP, LP
Lacrosse, WI

Treasurer: Scott Brown CCP, LP
Milwaukee, WI

Board Members at Large:

Jeffrey Gruenberger, CCP, LP

David Lieber CCP, LP

Awards Committee:

Kevin Ireland, CCP, LP

Education Committee:

Jim Bobby II, CCP, LP

Election/Nominating Committee:

Michael Gough, CCP, LP

Legislative Task Force:

Michael Gough, CCP, LP

Membership Committee:

Anna Young, CCP, LP

Scholarship Committee:

Tom Steffens, CCP, LP

Webmaster:

Matthew Hietpas, CCP, LP

Manufacture Liaison

Marianne Pilger, CP, LP

Friday March 26, 2010

1530-1715, Registration & Social Hour with Hour d'oeuvres' and Cash Bar.

1600-1715, **Session One, Posters.** Each Author available for questions during session.

1600-1615, **“ECMO Transport and Developing a Plan to Transport”**

James Neal CCP, Mayo Clinic, Rochester, Minnesota

1615-1630, **“Case Review: The Heartmate II used as a Destination Therapy”**

Chelsea L. Starrett B.S., First Year Student, Milwaukee School of Engineering Perfusion Program.

1630-1645, **“A Look at the Current Role of Stem Cells in Myocardial Revascularization”**

Danielle Berkowitz B.S., First Year Student, Milwaukee School of Engineering Perfusion Program.

1645-1700, **“Emergency Preparedness for Healthcare Professionals”**

Maressa Jonland, First Year Student, University of Iowa Perfusion Technology Program.

1700-1715, **“Implantation of the Heartware II”**

Harry Legaspi B.S., First Year Student, Milwaukee School of Engineering Perfusion Program.

1715, **Session Two,** Opening Remarks and Keynote Speakers:

1720, William Lynch M.D., Assistant Professor, Department of Cardiothoracic Surgery, Director of Cardiothoracic Intensive Care Unit, Director Adult ECMO Services, University of Iowa Hospital and Clinics. **“New Technology and ECMO”**. Introduced by Scott Niles CCP, Program Director, University of Iowa Perfusion technology Program. (Dr. Lynch's talk is made possible through a grant provided by Maquet Cardiovascular).

1800, Aryeh Shander, M.D., FCCM, FCCP, Chief department of Anesthesiology, Critical Care Medicine, Pain Management, and Hyperbaric Medicine. Englewood Hospital and Medical Center, Englewood NJ. **“Blood Management”** Introduced by Marianne Pilger CP, LP, Meriter Hospital, Madison Wisconsin. (Dr. Shander's talk is made possible through a grant provided by Innovative Medical Devices and Teruma Cardiovascular).

1910-2000, Dinner

Session Three: Posters. Each Author available for questions during session.

2000-2015, **“Methylene Blue as a Treatment for Refractory Hypotension During Cardiopulmonary Bypass”**, George Watts B.S., First Year Student, Milwaukee School of Engineering Perfusion Program.

2015-2030, **“Case Review: Status Post Transposition of the Great Vessels”**,

Matt LaValley B.E., First Year Student, Milwaukee School of Engineering Perfusion Program.

Saturday March 27th Scientific Sessions

0630-0730, Continental Breakfast with Coffee & Juices

7:30AM: Opening Remarks

Session Four, Moderated by Heidi Jensen

0735-0815: Jeff Sites CCP, “**The Biophysics of Vacuum**”

0820-0840: Kevin Daley, B.S., **MSOE 4th Year Student**, “**Microbubble detection During Vacuum Assisted Venous Drainage**”

0842-0905: Larry Petree, MSME, Sorin Group USA
“**Oxygenator Design: Are They All The Same?**”

0910-0935: Bethany Crunk, University of Iowa 4th Year Student: “**Cardiopulmonary Bypass on a Patient with a History of Bleomycin Treatment**”

Break: Coffee and Juice Service

Session Five, Moderated by Tiffany Holloway, CCP, LP

0945-1010: Bob Weatherford, BS, RCP
“**The Nonin 7600 Real Time Cerebral Oxymeter**”

1010- 1035: Mike Gough CCP, LP, Advanced Medical Solutions
“**The Use of ECMO as a treatment therapy for H1N1 Influenza**”

1035-1100: Michael Sanfellipo, MS, MT, ASCP, Marshfield Clinic, Marshfield WI
“**Platelet Inhibitory Drugs and Their Impact on Cardiovascular Surgery**”

1100-1135: Young Award Presentation and Lecture
Patrick Sullivan M.D., Marshfield Clinic Anesthesiology,
Marshfield, Wisconsin
“ **Field Surgery and Transfusion Therapy in Iraq**”

1135-1235: Lunch and Awards Presentations

Session Six, Moderated by Mike Gough CCP, LP

1235-1305: *James Neal CCP, Mayo Clinic,*
"Data Management, Quality Indicators, Computer and the Perfusionist"

1305-1335: David Malkow CCP, LP, Rockford ILL
"Team Building in a Perfusion Department"

1335-1405: Stacia Woldorf BS, University of Nebraska, Omaha
"Modification of Osmolarity and Potassium in pRBCs and FFP using a Desktop Hemoconcentrator Setup"

1410-1440, Ferries Award Presentation and lecture
Tom Steffens CCP, LP, University of Wisconsin
"Evaluation of the EDAC monitor in the research and clinical settings".

1445-1545, WPS Business Meeting

1500-1800: **Exhibitor Event Reception with Cash Bar**

Sunday March 28th

0630-0730 Continental Breakfast with Coffee and Juice Bar

Scientific Session Seven Moderated by Scott Brown CCP,LP

0730-0800: *Margaret Rhame MS, Rush University, Chicago ILL,*
“Predicting Future Manpower of the Perfusion Profession”

0800-0830: Mike Gough CCP, LP,
Case Report: **“Intermittant Crossclamp Technique for the Renal
Insufficient Patient Ungoing CABG”**

0830-0900: Joie Meikle RN, Maquet Cardiovascular Cardiac Assist
“Updates in IABP Therapy for the High Risk Patient ”

0900-0930: Nathan Kavars, University of Iowa 4th Year Student: **“Illuminator of
Malevolence: A Halogen Lamp Story”.**

Break

0940-1010: Cooksey Award Presentation and Lecture: Jeffrey Chores CCP, St John's
Health System, Detroit Michigan. **“Renal Perfusion for a Supra-Renal AAA”**

Scientific Session Eight Moderated by Shawn Mergen BA, CCP, LP

1015-1045: Matt Hietpas CCP, LP
“One Man's Junk is My Patient's Treasure”

1045-1115: Nicole Caravelli & Jaquelyn Welch, Rush University Perfusion Technology
Students.
“Retrograde Autologous Priming: The Prime Method of the Future”

1115-1145: Jeff Sites CCP, **“Parasites and Perfusion”**

Adjourn

2010 WPS Meeting Faculty

James Neal CCP
Mayo Clinic
Rochester MN

Chelsea L Starrett, B.S.
First Year Student
Milwaukee School of Engineering
Perfusion Program

Danielle Berkowitz B.S.
First Year Student
Milwaukee School of Engineering
Perfusion Program

Maressa Jonland
First Year Student
University of Iowa
Perfusion Program

Harry Legaspi B.S., First Year Student
Milwaukee School of Engineering
Perfusion Program

William Lynch M.D.,
Assistant Professor,
Department of Cardiothoracic Surgery,
Director of CICU, Adult ECMO Services,
University of Iowa Hospital and Clinics.
Iowa City, IA

Aryeh Shander , M.D., FCCM, FCCP
Department of Anesthesiology.
Critical Care Medicine, Pain Management,
And Hyperbaric Medicine.
Englewood Hospital and Medical Center,
Englewood, New Jersey

George Watts, B.S.
First Year Student
Milwaukee School of Engineering
Perfusion Program
Milwaukee, WI

Matt LaValley B.E.
First Year Student
Milwaukee School of Engineering
Perfusion Program
Milwaukee, WI

Jeff Sites CCP
West Chester,
Pennsylvania

Kevin Daley, B.S.
Fourth Year Student
Milwaukee School of Engineering
Perfusion Technology Program
Milwaukee, WI

Larry Petree, MSME,
Sorin Group, USA
Arvada, Colorado

Bethany Crunk
Fourth Year Student
University of Iowa
Perfusion Program
Iowa City, IA

Bob Weatherford, BS, RCP
Nonin Medical, Inc.
Plymouth, Minnesota

Mike Gough CCP, LP
Advanced Medical Solutions,
Milwaukee, WI

Young Award Recipient

Patrick Sullivan M.D.
| Marshfield Clinic Anesthesiology
Marshfield, WI

Stacia Woldorf B.S.
University of Nebraska-Omaha
Masters Candidate of Clinical Perfusion
Omaha, Nebraska

Nathan Kavars
Fourth Year Student
University of Iowa
Perfusion Technology Program
Iowa City, IA

Matt Hietpas CCP, LP
| Aurora Medical Group
Milwaukee, WI

Tom Steffens CCP, LP
Chief Perfusionist,
University of Wisconsin
Hospital and Clinics,
Madison, WI

Michael Sanfellipo, MS, MT, ASCP
Technical Director of Coagulation
Services, Marshfield Labs,
Marshfield, WI

David Malkow CCP, LP
Rockford, Ill

Margaret Rhame M.S.
Rush University
Perfusion Program
Chicago, Ill

Cooksey Award Recipient

Jeffrey Chores CCP
St. John's Medical System
Detroit, MI

Nicole Caravelli & Jaquelyn Welch
Perfusion Students
Rush University Perfusion Program

Attendee Program Evaluation Form
17th Annual Wisconsin Perfusion Society Spring Educational Meeting
March 26-28, 2010

Please take a moment to fill out the following evaluation form. Evaluations are required for continuing education accreditation, and help to guide the WPS in future meeting planning.

Evaluation form **Unsatisfactory** **Poor** **Good** **Very Good** **Excellent**
Rating Key: **1** **2** **3** **4** **5**

Friday, March 26, 2010 Poster Presentations

“ECMO Transport and Developing a Plan to Transport”

James Neal, CCP Phil Scott, CCP, Steve Breutzman, and Mike Walker,
 Mayo Clinic, Rochester, Minnesota

Content 1 2 3 4 5

“Case Review: The Heartmate II used as a Destination Therapy”

Chelsea L. Starrett B.S., First Year Student, Milwaukee School of Engineering Perfusion
 Technology Program.

Content 1 2 3 4 5

**“A Look at the Current Role of Stem Cells in Myocardial
 Revascularization”**

Danielle Berkowitz B.S., First Year Student, Milwaukee School of Engineering
 Perfusion Technology Program.

Content 1 2 3 4 5

“Emergency Preparedness for Healthcare Professionals”

Maressa Jonland, First Year Student, University of Iowa Perfusion
 Technology Program.

Content 1 2 3 4 5

“Implantation of the Heartware II”

Harry Legaspi B.S., First Year Student, Milwaukee School of Engineering
 Perfusion Technology Program.

Content 1 2 3 4 5

“Methylene Blue as a Treatment for Refractory Hypotension During Cardiopulmonary Bypass”,
 George Watts B.S., First Year Student, Milwaukee School of Engineering Perfusion Technology Program.

Content 1 2 3 4 5

“Case Review: Status Post Transposition of the Great Vessels”,

Matt LaValley B.E., First Year Student, Milwaukee School of Engineering Perfusion
 Technology Program.

Content 1 2 3 4 5

Key note Speakers Friday March 26th 2010

| William Lynch M.D., Assistant Professor, Department of Cardiothoracic [Surgery](#), Director of Cardiothoracic Intensive Care Unit, Director Adult ECMO Services, University of Iowa Hospital and Clinics. **“New Technology and ECMO”**

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| Content | 1 | 2 | 3 | 4 | 5 |
| Presentation | 1 | 2 | 3 | 4 | 5 |

Aryeh Shander , M.D., FCCM, FCCP, Chief department of Anesthesiology, Critical Care Medicine, Pain Management, and Hyperbaric Medicine. Englewood Hospital and Medical Center, Englewood NJ. **“Blood Management”**

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Saturday March 27th, Scientific Presentations & Case Reports

Jeff Sites CCP, **“The Biophysics of Vacuum”**

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Kevin Daley, B.S., **MSOE 4th Year Student, “Microbubble detection During Vacuum Assisted Venous Drainage”**

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Larry Petree, MSME, Sorin Group USA

“Oxygenator Design: Are They All The Same?”

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| Presentation | 1 | 2 | 3 | 4 | 5 |

Bethany Crunk, University of Iowa 4th Year Student: **“Cardiopulmonary Bypass on a Patient with a History of Bleomycin Treatment”**

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Bob Weatherford, BS, RCP

"The Nonin 7600 Real Time Cerebral Oxymeter"

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Mike Gough CCP, LP, Advanced Medical Solutions

"The Use of ECMO as a treatment therapy for H1N1 Influenza"

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| Presentation | | 1 | | 2 | 3 | 4 | | 5 |

Michael Sanfellipo, MS, MT, ASCP, Marshfield Clinic, Marshfield WI

"Platelet Inhibitory Drugs and Their Impact on Cardiovascular Surgery"

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John Johnkoski M.D., Wausau Heart and Lung Surgeons,
Wausau, Wisconsin

"Surgical Management of Atrial Fibrillation"

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James Neal CCP, Mayo Clinic,

"Data Management, Quality Indicators, Computer and the Perfusionist"

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David Malkow CCP, LP, Rockford ILL

"Team Building in a Perfusion Department"

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| Presentation | | 1 | | 2 | 3 | 4 | | 5 |

Stacia Woldorf BS, University of Nebraska, Omaha

"Modification of Osmolarity and Potassium in pRBCs and FFP using a Desktop Hemoconcentrator Setup"

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Tom Steffens CCP, LP, University of Wisconsin

"Evaluation of the EDAC monitor in the research and clinical settings".

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| Presentation | | 1 | | 2 | 3 | 4 | | 5 |

Sunday March 28, 2010 Scientific Presentations & Case Reports

Margaret Rhame MS, Rush University, Chicago ILL,
“Predicting Future Manpower of the Perfusion Profession

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Mike Gough CCP, LP,
Case Report: **“Intermittant Crossclamp Technique for the Renal Insufficient Patient Ungoing CABG”**

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Joie Meikle RN, Maquet Cardiovascular Cardiac Assist
“Updates in IABP Therapy for the High Risk Patient ”

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Nathan Kavars, University of Iowa 4th Year Student: **“Illuminator of Malevolence: A Halogen Lamp Story”**.

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Jeffrey Chores CCP, St John’s Health System, Detroit Michigan. **“Renal Perfusion for a Supra-Renal AAA”**

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Matt Hietpas CCP, LP
“One Man’s Junk is My Patient’s Treasure”

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| Presentation | | 1 | | 2 | 3 | 4 | | 5 | |

Nicole Caravelli & Jaquelyn Welch, Rush University Perfusion Students.
“Retrograde Autologous Priming: The Prime Method of the Future

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Jeff Sites CCP, **“Parasites and Perfusion”**

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Overall Evaluation for 17th Annual Wisconsin Perfusion Society Spring Meeting

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|-----------------|------------------|------------------|-------------|-------------|
| Content: | Excellent | Very Good | Good | Poor |
| Presentation: | Excellent | Very Good | Good | Poor |
| Facilities: | Excellent | Very Good | Good | Poor |
| Accommodations: | Excellent | Very Good | Good | Poor |

Comments: