

Continuing Medical Education

4th *International Conference*
on **Pediatric Mechanical**
Circulatory Support Systems
and **Pediatric Cardiopulmonary**
Perfusion

May 22-24, 2008

Hilton Portland & Executive Tower
Portland, Oregon, USA

Akif Ündar, Ph.D. Conference Founder

Ross M. Ungerleider, M.D. Local Chair

Honorary Chairs

William S. Pierce, M.D. • John A. Waldhausen, M.D.

Program Co-Chairs

Brian W. Duncan, M.D. • John L. Myers, M.D.

Gerson Rosenberg, Ph.D. • Carmen Giacomuzzi, B.S.N., C.C.P.

Akif Ündar, Ph.D. • Ross M. Ungerleider, M.D., M.B.A.



Doernbecher
Children's Hospital

A division of Oregon Health & Science University

OREGON
HEALTH
& SCIENCE
UNIVERSITY



OHSU

World-class education. World-class care.



Sharing our Knowledge

OHSU educates approximately 2,500 students through its schools of dentistry, medicine, nursing, and science and engineering. Another 1,000 are trained through residency, fellowship and other training programs.

But that's just the tip of the iceberg. A significant piece of OHSU's community outreach is ensuring that healthcare providers have access to ongoing education to keep abreast of current practices and knowledge. Each year more than 25,000 health and science professionals from throughout the nation look to OHSU for opportunities to expand their knowledge, to improve their skills and to share their expertise and experiences. They come to learn about the routine, the revolutionary and the extraordinary.

Doernbecher Children's Hospital at Oregon Health & Science University

OHSU Doernbecher Children's Hospital is a world-class academic health center that each year cares for more than 60,000 patients from across the United States. In the most patient- and family-centered environment, children receive outstanding cancer treatment, specialized neurology care, highly sophisticated heart surgery, and care in many other pediatric specialties. In addition to several locations in the Portland metropolitan area, Doernbecher's pediatric experts travel throughout Oregon and southwest Washington providing pediatric specialty care at 13 outreach clinics.



4th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion

May 22-24, 2008 • Hilton Portland & Executive Tower • 921 S.W. Sixth Avenue • Portland, Oregon, USA

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Invitation to attend

Pediatric heart surgeons, biomedical engineers, cardiologists, intensivists, scientists, anesthesiologists, pediatric perfusionists and nurses are invited to attend.

Objectives

Upon completion of this program, participants should be able to:

- Describe current practices and devices used in pediatric mechanical circulatory support and pediatric cardiopulmonary bypass
- Discuss special pediatric topics such as ECMO, assist pumps, heart transplantation, systemic inflammation and pulsatile CPB in neonates and infants
- Review bioengineering applications in pediatric cardiac surgery
- Identify clinical outcomes using current devices and discuss design aspects for pumps and VADs

Credit

Accreditation: Oregon Health & Science University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

American Medical Association: OHSU School of Medicine, Division of CME, designates this educational activity for a maximum of 23.5 *AMA PRA Category 1 Credits*.TM Physicians should only claim credit commensurate with the extent of their participation in the activity.

This educational activity will contribute toward continuing education requirements for perfusionists and nurses.

Fees

Conference fees include instruction, handout materials, breakfasts, lunches, receptions and the Thursday evening banquet.

Registration deadline:

April 1, 2008

M.D.s and Ph.D.s

Engineers, Nurses, Perfusionists, Students,

Physician Assistants and Post-Doctoral Fellows

- If registered by **April 1, 2008**\$495/person \$420/person
- If registered **after** April 1, 2008.....\$570/person \$470/person
- If registering **on-site**.....\$595/person \$495/person

Additional Sessions:

- **May 21:** Congruent Communications.....\$100/person (teams of 3 or more, \$90/person)
- **May 21:** Perfusion Hands-on Workshop.....\$100/person
- **May 25:** All-inclusive Wine Country Tour\$175/person (all inclusive)

Registration

Register by fax or by mail. Registrations will be confirmed upon receipt. If you do not receive a confirmation within two weeks, email cme@ohsu.edu to confirm your registration. On-site registrations can be accepted only if space is available.

Exhibitors

Companies wishing to exhibit should contact Irene Reskin at reskini@ohsu.edu for more information. tel: 503 494-6154 fax: 503 494-7829

Cancellation policy

Cancellations received before May 15, 2008 will be assessed a \$175 processing fee. No refunds will be made for cancellations received after that date. OHSU reserves the right to cancel or postpone any course or activity. If a program is cancelled or postponed, the University will refund registration fees but is not responsible for any related costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies. Pre-registered participants will be notified if a program is filled or cancelled.

Additional information

If you have questions about your registration, please call the OHSU Division of CME at 503 494-8700. For all other questions about the conference, contact Irene Reskin at 503 494-6154.

Americans with Disabilities Act: If you have a disability and require assistance to participate in this conference, please contact the Division of CME at 503 494-4898 or toll-free 1-800-452-1048 as early as possible, but no later than five (5) business days before the meeting.



International Faculty

Christopher Almond, M.D. -USA

Ron Angona, C.C.P. -USA

Lynn Boshkov, M.D. -USA

Chris Brabant, C.C.P. -USA

Gordon Cohen, M.D. -USA

Ed Darling, C.C.P. -USA

Kurt A. Dasse, Ph.D. -USA

Brian Duncan, M.D. -USA

Pirooz Eghtesady, M.D., Ph.D. -USA

Carmen Giacomuzzi, C.C.P. -USA

Rich Ginther, C.C.P. -USA

Andras Gruber, M.D., Ph.D. -USA

Colleen Grunewald, C.C.P. -Canada

Kristine Guleserian, M.D. -USA

Steve Hanson, Ph.D. -USA

Ed Hickey, M.D. -CANADA

Jennifer Hirsh, M.D. -USA

S. Adil Husain, M.D. -USA

Nobu Ishibashi, M.D. -USA

Robert Jaquiss, M.D. -USA

James Jagers, M.D. -USA

Timothy Jones, M.D., F.R.C.S. -UK

Tara Karamlou, M.D. -USA

Stephen Langley, M.D. -USA

Aubyn Marath, M.D. -USA

Brian Mejak, C.C.P. -USA

Steve Moss, C.C.P. -USA

Johannes Müller, M.D. -GERMANY

John L. Myers, M.D. -USA

Yukihiko Nose, M.D., Ph.D. -USA

Kristen Odegard, M.D. -USA

Linda Pauliks, M.D. -USA

David Phelps, Ph.D. -USA

William S. Pierce, M.D. -USA

Christian Pizarro, M.D. -USA

Peer M. Portner, Ph.D. -USA

Chitra Ravishankar, M.D. -USA

Jeff Riley, C.C.P. -USA

Mark Rodefeld, M.D. -USA

Gerson Rosenberg, Ph.D. -USA

David Sahn, M.D. -USA

Thorsten Siess, Ph.D. -GERMANY

Stuart Sheppard, Ph.D. -UK

Tom Spray, M.D. -USA

Thor Sundt, M.D. -USA

Ravi Thiagarajan, M.D. -USA

Jim Tweddell, M.D. -USA

Akif Ündar, Ph.D. -USA

Ross Ungerleider, M.D. -USA

Peter Wearden, M.D. -USA

William Weiss, Ph.D. -USA

Karl Welke, M.D. -USA

Gil Wernovsky, M.D. -USA

Jeffrey D. Zahn, Ph.D. -USA

Hotel Accommodations

The Hilton Portland & Executive Tower

The Hilton Portland & Executive Tower is located at 921 SW 6th Avenue, Portland, Oregon, 97204. A room block has been arranged at the hotel for \$148/night plus taxes for a single or double room, if booked prior to April 1, 2008. Call the Hilton at 1-800-HILTONS (1-800-445-8667) or directly at 1-503-226-1611 and mention that you are attending the Pediatric Cardiopulmonary conference. Please call as early as possible or book online at www.ohsu.edu/CPBConference.

The Hilton Portland & Executive Tower is the largest hotel in Oregon and is located in the center of Portland's downtown business and entertainment district. Everything at the Hilton Portland & Executive Tower has been designed with one goal in mind — to pamper you with luxurious surrounding, unparalleled service and quality hospitality.

The Hilton Portland & Executive Tower is only nine miles from the Portland International Airport (PDX), and one block to the MAX Light Rail line serving downtown Portland and the airport. A cab ride from the airport to the Hilton is about \$40 one way.



Wednesday • May 21, 2008

Session 1 • 8 a.m.–12:30 p.m.

Congruent Communications in Times of Stress

Ross Ungerleider, M.D., M.B.A. and Jamie Dickey, Ph.D., authors of *Teamwork—A Systems Based Practice*.

Cost: \$100/person (\$90/person for teams of 3 or more)

Session includes breakfast, coffee break and lunch.

Summary:

This session has been created in response to the increasing attention that patient safety is receiving at both local and national levels. It is becoming essential for health care organizations to develop systems that produce reproducible and consistent excellence without burning through the precious resource of personnel that make those systems work. The seminar will help participants understand how to create systems that work by harnessing the collective strengths of all members of a team.

Objectives:

- Participants will learn to recognize their own unique style of coping with stressful situations and how these styles might integrate with others on their team.
- Participants will learn ways of working with others whose styles and forms of communicating might be different than their own.
- Participants will learn tools for creating emotionally intelligent (congruent) communication for their teams.

The seminar will emphasize communication during stressful situations, since we presume most of us communicate effectively when not under stress. Participation of a team is excellent and will be supported. However, it is not necessary for all team members from a single program to participate in order to be able to register for this event. The seminar will include both didactic material, audience interaction through formal discussion and experiential simulations under the guidance of experienced coaches so that participants can acquire practical skills in utilizing the tools that will be taught. Participants will receive a syllabus of resource material that they can take with them and share with their teams at their home centers.

Session 2 • 2–5 p.m.

Perfusion Hands-on Workshop

Perfusionists from around the world will set up a variety of circuits to provide hands-on and observational experiences.

Cost: \$100 per person

Session 3 • 5–7 p.m.

Viewing of Selected Surgical Videos

Cost: No charge — included with meeting registration fee. Refreshments provided.

TOF with Limited Ventriculotomy

–Paul Chai, M.D. (Tampa, Fla.)

Modified One-patch for AV Canal

–Irving Shen, M.D. (Fairfax, Va.)

Anomalous Coronary Artery

–Jim Jagers, M.D. (Durham, N.C.)

Truncus Arteriosus with IAA

–Jim Tweddell, M.D. (Milwaukee, Wis.)

Modified Ross Procedure

–Ross Ungerleider, M.D. (Portland, Ore.)

Arch Reconstruction

–Joseph Forbess, M.D. (Dallas, Texas)

TBA

–Robert Jaquiss, M.D. (Little Rock, Ark.)

Nikaidoh On a 3.5-Month-old

–Christian Pizarro, M.D. (Wilmington, Del.)

Open Dinner Arrangements

The evening is open for your own dinner arrangements. If staying at the Hilton, you may contact the Hilton concierge for restaurant recommendations and reservations.

Thursday • May 22, 2008

Opening Session

7 a.m. Registration/Speaker Ready Room Open

7:50 a.m. Welcome

8 a.m. **Plenary Session 1:**

Advances in CPB that benefit the patient

MODERATORS:

–Ross Ungerleider, M.D. (Portland, Ore.)

–John L. Myers, M.D. (Hershey, Pa.)

Each presentation is 10 minutes with five minutes of discussion.

**Circuit Miniaturization—
Advantages of Asanguineous Prime**

–Ed Hickey, M.D. (Toronto, Canada)

**MECC May Create Useable
Miniaturized Circuitry**

–Steve Langley, M.D. (Portland, Ore.)

Cardioplegia to Minimize Blood Prime

–Kristine Guleserian, M.D. (Dallas, Texas)

**Microdevices for Measuring
Systemic Inflammation**

–Jeffrey D. Zahn, Ph.D. (Piscataway, N.J.)

**Intraoperative Techniques to Assess
Cardiac Function**

–Linda Pauliks, M.D. (Hershey, Pa.)

What We Know and Don't Know About NIRS

–Jennifer Hirsh, M.D. (Ann Arbor, Mich.)

**Plasma Proteomics in Infants Undergoing
Cardiopulmonary Bypass Procedure**

–David S. Phelps, Ph.D. (Hershey, Pa.)

10 a.m. Break/Exhibits/Posters

Invited lectures

10:40 a.m. **Novel Micromachined Ultrasound
Transducers for Cardiac Imaging**

–David Sahn, M.D. (Portland, Ore.)

11 a.m. **How Do We Normalize Outcome Measures
So That We Can Comprehend Results?**

–Karl Welke, M.D. (Portland, Ore.)

11:20 a.m. **Measuring Outcomes**

–Gil Wernovsky, M.D. (Philadelphia, Pa.)

12 p.m. **LUNCH**

1 p.m. **Plenary Session 2:**

Conquering Coagulation

MODERATORS:

TBA

TBA

Each presentation is 12 minutes with five minutes of discussion.

**Aprotinin Has a Role in
Pediatric Cardiac Surgery**

–Jim Tweddell, M.D. (Milwaukee, Wis.)

HIT Happens

–Lynn Boshkov, M.D. (Portland, Ore.)

New Anticoagulation Strategies

–Andras Gruber, M.D., Ph.D. (Portland, Ore.)

CPB as a Procoagulant State

–James Jagers, M.D. (Durham, N.C.)

**Outcomes for Children with Congenital
Heart Disease Requiring ECMO**

–Ravi Thiagarajan, M.D. (Boston, Mass.)

Coagulation Issues

in the Fontan Circulation

–Kristen Odegard, M.D. (Boston, Mass.)

Aprotinin and the Brain

–Nobu Ishibashi, M.D. (Washington, D.C.)

3 p.m. **Invited guest lecturer**

**New Strategies for Preservation of
Small Diameter Grafts**

–Steve Hanson, Ph.D. (Portland, Ore.)

3:20 p.m. Break/Exhibits/Posters

3:45 p.m. **Regular Slide Presentations**

*12 presentations of 10 min. each
(7 min. presentation + 3 min. discussion)*

6 p.m. **Moderated Poster Presentations**

*15 presentations of 5 min. each
(3 min. presentation + 2 min. discussion)*

7:30 p.m. **All-Attendee Dinner (Award presentation)**

After-Dinner Speech Topic Here

–Speaker Name and Title, TBA

Friday • May 23, 2008

7 a.m. Breakfast/Speaker Ready Room Open

8 a.m. **Plenary Session 3:**

Mechanical Devices

MODERATORS:

- Tim Baldwin, Ph.D. (Bethesda, Md.)
- William S. Pierce, M.D. (Hershey, Pa.)
- Gerson Rosenberg, Ph.D. (Hershey, Pa.)

Impella Device in Pediatric Patients

-Thorsten Siess, Ph.D. (Aachen, Germany)

Levitronix Centrifugal Pumps in Pediatric Patients

-Kurt A. Dasse, Ph.D. (Waltham, Mass.)

Berlin Heart in Neonates and Infants

-Johannes Müller, M.D. (Berlin, Germany)

PediPump

-Brian Duncan, M.D. (Cleveland, Ohio)

Penn State Pulsatile VAD

-William Weiss, Ph.D. (Hershey, Pa.)

Pediaflow VAD

-Peter Wearden, M.D. (Pittsburgh, Pa.)

Ventricular Assist Device Implantation in the Pediatric Population: Does Pump Size Selection and Associated Hemodynamics Impact Outcomes?

-S. Adil Husain, M.D. (Gainesville, Fla.)

10 a.m. Break/Exhibits/Posters

Invited lectures

10:40 a.m. **Interagency Registry for Mechanical Circulatory Support**

-Christopher Almond, M.D. (Boston, Mass.)

11 a.m. TBA

-Tom Spray, M.D. (Philadelphia, Pa.)

11:30 a.m. **From Experimentation to Innovation to Standard of Care: How Do We Demystify Dogma and Create Progress?**

-Ross Ungerleider, M.D. (Portland, Ore.)

12 p.m. **LUNCH**

1 p.m. **Plenary Session 4:**

Optimizing Congenital Heart Surgery

Novel Approaches to ECMO

Following Cardiac Surgery

-Gordon Cohen, M.D. (Seattle, Wash.)

Mechanical Assist

Following Stage I Palliation

-Mark Rodefeld, M.D. (Indianapolis, Ind.)

Mobile ECMO

-Robert Jaquiss, M.D. (Little Rock, Ark.)

Adult Congenital Heart Surgery is Best Performed by Congenital Heart Surgeons

-Tara Karamlou, M.D. (Portland, Ore.)

Fetal Cardiac Surgery:

Mission Impossible?

-Pirooz Eghtesady, M.D., Ph.D. (Cincinnati, Ohio)

ECMO for Single Ventricle

-Chitra Ravishankar, M.D. (Philadelphia, Pa.)

2:30 p.m. **Regular Slide Presentations**

7 presentations of 10 min. each

(7 min. presentation + 3 min. discussion)

3:45 p.m. Break

4:15 p.m. **Debate: "Pulsatile vs. Non-Pulsatile Flow"**

MODERATOR:

Peer M. Portner, Ph.D. (Palo Alto, Calif.)

PRO:

Akif Ündar, Ph.D. (Hershey, Pa.)

CON:

Yukihiko Nose, M.D., Ph.D. (Houston, Texas)

4:50 p.m. Break

5 p.m. **Audience Response—All Participants**

6:30 p.m. **Moderated Poster Presentations**

12 presentations of 5 min. each

(3 min. presentation + 2 min. discussion)

Open Dinner Arrangements

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Saturday • May 24, 2008

7 a.m. Breakfast/Speaker Ready Room Open

8 a.m. Plenary Session 5:

Perfusion

Should ACTs Still Be Used
During Heart Surgery?

–Colleen Grunewald, C.C.P. (Toronto, Canada)

Vacuum-Assisted Venous Drainage

–Chris Brabant, C.C.P. (Milwaukee, Wis.)

Experience with the Levitronix Pump

–Ron Angona, C.C.P. (Rochester, N.Y.)

Emboli — Strategies to Reduce
Incidence and Impact

–Timothy Jones, M.D., F.R.C.S.
(Birmingham, UK)

Experience with Intermittent Perfusion
for Neonatal Heart Surgery

–Christian Pizarro, M.D. (Wilmington, Del.)

MECC from the Perfusion Perspective

–Stuart Sheppard, Ph.D. (Southampton, UK)

Debate: “Circuit Miniaturization Will Add
Risk for the Patient.”

MODERATOR:

Jeff Riley, C.C.P. (Rochester, Minn.)

PRO: Rich Ginther, C.C.P. (Dallas, Texas)

CON: Ed Darling, C.C.P. (Syracuse, N.Y.)

10 a.m. **BREAK**

Invited lectures

10:30 a.m. Tell Me What You Need and I Will Tell
You How to Get By Without It:

CPB in Underdeveloped Countries

–Aubyn Marath, M.D. (Portland, Ore.)

10:50 a.m. How Do We Help

When Our Help No Longer Works?

–Carmen Giacomuzzi, C.C.P. (Portland, Ore.)

11:15 a.m. Human Factors and CPB

–Thor Sundt, M.D. (Rochester, Minn.)

12 p.m. **LUNCH**

1 p.m. Regular Slide Presentations

3 p.m. Meeting adjourns



Saturday afternoon ideas:

Drive to the Oregon Coast

There you can walk along the beach and enjoy the wonderful coastal town of Cannon Beach. If you wish to stay for a day or two in Cannon Beach, we can recommend several wonderful hotels ranging in atmosphere from “romantic” to “great with kids.” (Approximately 70-90 minute drive from Portland.)

Drive into the Columbia Gorge

For sightseeing, hiking and picnicking, we recommend the gorge. Visit the Columbia Gorge Hotel and have lunch on the terrace (weather permitting). The food and wine are excellent and the view of the wind surfers is a joy. If you drive into the Gorge, be certain to drive across the Bridge of the Gods. There are numerous hikes, and we can provide directions and maps. (Approximately 30 minute drive from Portland.)

Drive to Mount Hood

A visit to Timberline Lodge (where Stanley Kubrick filmed “The Shining”) is always a joy. You can enjoy skiing or hiking around Mount Hood. (Approximately a 90 minute drive from Portland.)

Drive to Mount St. Helens

The eruption occurred over 25 years ago, yet the devastation is still apparent. This is a State Park in Washington and is very interesting. (Approximately a 2 to 2.5 hour drive from Portland.)

Fish, Hike or Play Golf

We can help arrange for **golf** at local courses or perhaps arrange for **Salmon and Steelhead fishing** on a local river (space limited). We also can direct you to several very nice **hikes** in the region.

Sunday • May 25, 2008



Luxury Limo Wine Country Tour

Sunday, 9:30 a.m. - 5 p.m.

We will reserve space on luxury limo buses to take you to the famed Oregon wine country of the Willamette Valley. We have selected several of the outstanding vineyards where you will be able to taste (and purchase) extraordinary Pinot Noirs, Pinot Gris, Chardonnays, Syrahs, Pinot Blancs, Rieslings, Viogniers and sparkling wines. The Oregon wines are extraordinary and the Pinot Noirs at the vineyards we have selected are among the finest in the world.

*We will need to have an approximate count by **March 1** in order to reserve adequate limo space. We highly recommend this experience to anyone who loves wine.*

There will be an additional charge of \$175.00. This fee includes luxury limo transportation to and from the Hilton (including driver tip), box lunch and all wine tasting fees for all vineyards.

Reserve early. *Space is limited and once reserved, we cannot promise that we can increase the number of available seats to accommodate late reservations.*

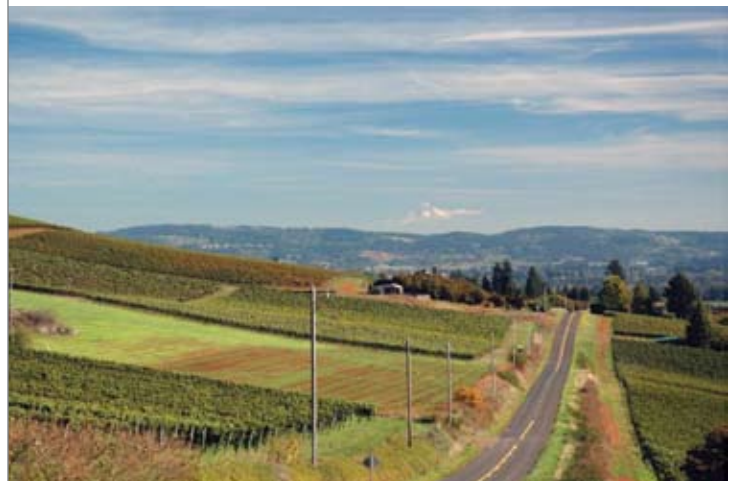
Enjoy the Best of Portland

— the International Rose Garden, Japanese Garden or Chinese Classical Garden, the Oregon Zoo, Powell's famous "City of Books," the Portland Art Museum, the Pearl District's art galleries and shopping (sales tax free) in downtown Portland.

Ride the Tram

Portland's newest public transportation link, the Portland Aerial Tram, connects South Waterfront with Marquam Hill and OHSU's campus. The ride is a popular and scenic experience, with views of the city, river and mountains.

The Tram, which can hold up to 78 passengers, travels at about 22 mph, covering a distance of 3,300 feet. At its highest point the Tram is 178 feet above the ground. The Tram was built to be an efficient and green connection between OHSU's 116 acres on the hill and its developing campus along the river.



Registration Instructions

Register by fax or by mail. Please provide both work and home phone numbers so we can contact you should last-minute changes occur. Registrations will be confirmed upon receipt. If you do not receive a confirmation within two weeks, email cme@ohsu.edu to confirm your registration. On-site registrations can be accepted only if space is available.

Registration Form

Exhibitors only: Companies wishing to exhibit should contact Irene Reskin at reskini@ohsu.edu for more information.
tel: 503 494-6154 fax: 503 494-7829

4th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion

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Name (first, middle initial, last):

M.D. D.O. Ph.D. C.C.P. P.A. R.N.
 Other _____

Name (as you would like it to appear on your name tag):

Mailing Address:

Address _____
City _____ State _____
Country _____ Zip _____

Contact Information:

Work Phone _____ Home Phone _____
Fax No. _____
E-mail Address _____

Hospital or Organization:

Specialty/Position _____

Dietary Restrictions:

Please check the appropriate box below if you have any dietary restrictions that we need to consider.
 Vegetarian Vegan Kosher Diabetic
 Other: _____

Registration Fee:

Check the appropriate fee(s).

M.D.s and Ph.D.s

- \$495 if registered by April 1, 2008
- \$570 if registered after April 1, 2008
- \$595 if registering on-site

Engineers, Nurses, Perfusionists, Students, Residents and Post-doctoral Fellows

- \$420 if registered by April 1, 2008
- \$470 if registered after April 1, 2008
- \$495 if registering on-site

Additional Pre-Meeting and Post-Meeting events:

- May 21:** Congruent Communications
\$100/person (\$90/person for teams of 3 or more)
- May 21:** Perfusion Hands-on Workshop
\$100/person
- May 25:** Wine Country Tour (all-inclusive)
\$175/person
How many attending tour? _____

TOTAL DUE: \$ _____

Method of Payment:

- Check enclosed payable to OHSU CME.
(Check must be payable in US dollars.)
- Charge my (circle one): VISA MasterCard

Card No. _____

Expiration date _____

Amount: \$ _____

Cardholder's signature:

Fax completed form and credit card info to 503 494-0392

or **mail** completed form with payment to:
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