

The Microcirculatory Society, Inc. Newsletter

Volume 34, Number 2

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President's Message

First, I remind you that the Microcirculatory Society will hold its annual meeting April 28 – May 2 in Washington DC, in conjunction with Experimental Biology (EB2007). The abstract deadline is November 8. When you submit your abstracts, please choose the MCS poster topics 1026-APS through 1039-APS. And when you register, please check the MCS box. More information about the program can be found in this newsletter, or at the MCS website.

Second, do not forget that the World Congress for Microcirculation is less than a year away: August 15-19, 2007, Midwest Airlines Center, Milwaukee, Wisconsin. Again, more details inside. This meeting is followed by the Gordon Conference on Angiogenesis and Microcirculation, Salve Regina University, Newport, RI, August 19-24, 2007. Links to both meetings are on the MCS website.

As I wrote in the last newsletter, my goal as President is to maintain and enhance the Society's role as a forum for interactions among investigators studying microcirculatory phenomena. Our scientific meetings are central to this goal. Here, we face a dilemma. For some years, we have been meeting in conjunction with EB.

This has the benefit of promoting interactions between our members and many other scientists who might not attend a separate microcirculation meeting. However, the lively interaction among members that was characteristic of the MCS in earlier years is perhaps diminished.

At our 2006 meeting in San Francisco, Robert Hester organized an event that combined buffet food, an open bar, and poster presentations by award winners. That event was well attended and provided excellent opportunities for attendees to mingle and interact. We are planning a similar event for 2007 in Washington DC, to be held on Saturday evening, April 28, and hope that you will attend.

Another solution to the dilemma is to organize separate freestanding meetings in addition to our annual meetings with EB. The meeting in New Hampshire in September 2005, held in combination with the British Microcirculation Society, was of a high scientific standard and most enjoyable for the 125 or so participants. A similar meeting in 2006 was contemplated, but we did not wish to conflict with the European Conference on Microcirculation (ECM), which is attended by many of our members. Indeed, for even numbered

years, we in North America should perhaps consider the ECM as our second microcirculation meeting of the year. The schedule of MCS and ECM meetings and World Congresses for the next several years is:

2007: EB (April 28-May 2, Washington, DC)
8th World Congress (Aug 15-19, Milwaukee, WI)
2008: EB (April 5-9, San Diego, CA)
ESM (August 26-29, Budapest, Hungary)
2009: EB (April 18-22, New Orleans, LA)
Freestanding MCS meeting – suggestions invited!
2010: EB (April 24-28, Anaheim, CA)
9th World Congress (Paris, France)

As you can see, there is an opening for another freestanding MCS meeting in the second half of 2009. Please let me know your suggestions on how this should be done, and who (including yourself) might be interested in organizing it.

I look forward to seeing you in DC and in Milwaukee!



Welcome to New Members

Regular Members

William J. Enis, DO
Wound Program
Department of Surgery
Midwestern University
Olympia Fields, Illinois

Natalia Gokina, Ph.D
Department of Obstetrics and Gynecology
University of Vermont
Burlington, Vermont

George Osol, Ph.D.
Department of Obstetrics and Gynecology
University of Vermont
Burlington, Vermont

Benjimen R. Walker, Ph.D.
Department of Cell Biology and Physiology
University of New Mexico Health Sciences Center
Albuquerque, New Mexico

Erratum: In the summer newsletter, Nathalie Gaudreault and Rachel Perrin were incorrectly welcomed as new student members. Nathalie and Rachel are both regular members of the society. Apologies for the error.

2006 Microcirculatory Society Nominating Ballot

Deadline for receipt: December 1, 2006

Don't put it off...Do it today!

*Please provide name and contact information of individual
nominated.*

President-Elect: _____

Secretary: _____

Councillors: (1) _____

(2) _____

*Please Email or Fax nominations by December 1st to
the Chair of the MCS Nominating Committee:*

Steven S. Segal, Ph.D.
Department of Medical Pharmacology and Physiology
University of Missouri - Columbia
segalss@health.missouri.edu
FAX: (573) 884-4276

Microcirculatory Society call for Award Nominations

The Microcirculatory Society announces the call for award nominations. Nominations are being accepted for the following awards:

**Landis Award
Zweifach Travel Awards
August Krogh Young Investigator Award
Microcirculatory Society Travel Award
Award for Excellence in Lymphatic Research
Zweifach Award to be presented at the 8th
World Congress for Microcirculation**

For award descriptions and requirements please go to the Microcirculatory Society web page (<http://microcirc.org/default.htm>) then to “About the Society”, then to “Society Awards”.

**Final Call for Nominations
DEADLINE: December 1, 2006
Address for All Award Correspondence:
Mike Eppihimer
eppihimm@bsci.com**

Eugene Landis Award



Eugene M.
Landis
{1901 - 1987}

This annual award was established in 1969 to recognize an outstanding investigator in the field of Microcirculation who is in residence in the United States or Canada. The awardee is expected to be an active investigator who has published and continues to provide meritorious research in the field of Microcirculation. The award consists of a certificate and \$2000 to be used at the discretion of the awardee. To nominate an individual for this award, a letter of nomination, describing the nominee's most important work, a current CV, including a list of the nominee's 10 most significant publication from the last 10 years, should be forwarded to the chairman of the awards committee. The award will be presented at the annual meeting and the awardee will be invited to present a brief summary of his or her professional and research career activities.

Benjamin Zweifach Graduate Student Travel Awards

Established in 1998, this award recognizes the outstanding mentoring efforts of Dr. Benjamin Zweifach. These awards are designed to encourage participation in the Microcirculatory Society meeting by young scientists in training. The award consists of \$500 and a certificate. To qualify for this award, an applicant must be a first author on an abstract submitted to Experimental Biology 2006 and designated for presentation in one of the Microcirculatory sessions. Individuals may only receive this award one time, and need not be a member of the Microcirculatory Society.



Benjamin W. Zweifach
1911-1997

To apply for this award, applicants should forward a letter of recommendation from their mentor to the Charman of the Awards committee. The awards will be announced before the meeting and presented at the Microcirculatory Society Business Meeting. Awardees will be required to present their posters at the Microcirculatory Society Social Hour/Banquet. The awardees will also receive a one year membership to the Microcirculatory Society.

August Krogh Young Investigator Travel Awards



**August Krogh
(1874-1949)**

**Nobel Prize in Physiology and Medicine
1920**

These awards are intended for Ph.D.s or M.D.s in the early stages of a research career. The purpose of the award is to encourage excellence in microcirculatory research by new, young investigators. Eligibility for this award is limited to recent graduates (less than 3 years after having received a Ph.D., or for M.D., 3 years following completion of a first residency). The award consists of \$500 and a certificate. To qualify for this award applicants must be first author on an abstract submitted to Experimental Biology 2006 and designated for presentation in one of the Microcirculatory Society sessions. Individuals may only receive this award one time, and need not be a member of the Microcirculatory Society. Applicants should also forward a letter of recommendation from their mentor. The awards will be announced before the meeting and presented at the Microcirculatory Society Business Meeting. Awardees will be required to present their posters at the Microcirculatory Society Social Hour/Banquet. The awardees will also receive a one year membership to the Microcirculatory Society.

Microcirculatory Society Travel Award for Outstanding Young Investigator

This annual award is given to reward meritorious research in the field of microcirculation by supporting the recipient's visits to laboratories abroad. It is intended for a researcher who is a resident of the United States or Canada and has received a Ph.D. or completed a first M.D. residency within 12 years of the deadline. A letter of nomination describing how the award will benefit the nominee's career and advance knowledge of microcirculation, a brief tentative itinerary including the laboratories to be visited, and a current CV should be submitted to the Chairman of the Awards committee prior to December 1, 2005. The award consists of a certificate and \$5000 to help defray travel costs associated with the trip. The recipient is expected to present a brief report of their trip to the Microcirculatory society membership at the annual banquet or business meeting.

Microcirculatory Society Award for Excellence in Lymphatic Research

This relatively new award was made possible by a generous contribution of the former North American Society of Lymphology. The award is designed to recognize meritorious research of the lymph, lymphatics or interstitium by a young investigator within 10 years of obtaining a Ph.D., M.D., or bona fide equivalent degree. A letter of nomination describing their research efforts, a manuscript suitable for submission to Microcirculation and a current CV should be submitted to the Chairman of the Awards Committee by December 1, 2006. The manuscript of the awardee will need to be submitted to the Society journal Microcirculation. The award to be given at the Annual Meeting of the Microcirculatory Society, consists of certificate and \$500 to be used at the discretion of the awardee.

The Zweifach Award



Benjamin W. Zweifach
1911-1997

Benjamin W. Zweifach (1911-1997)

Dr. Zweifach was a founding member of The Microcirculatory Society, Inc. whose contributions to the field of microcirculation in general and biorheology in particular have had a significant impact on us all.

In 1978, the members of the Microcirculatory Society, Inc. established The Benjamin W. Zweifach Award (\$2,000, a certificate and an engraved gold medal) to be given at the World Congress for Microcirculation. The award recognizes the achievements of internationally renowned individuals whose careers have been noteworthy and who have made outstanding contributions to the advancement of our knowledge of microcirculation.

Members of the Microcirculatory Society and other Microcirculation Societies around the world are requested to submit nominations for the award no later than December 1, 2006. The nomination packet should include a letter of nomination, letters of support, a Curriculum Vitae and list of Publications. The ten most significant publications during the ten calendar years ending about 18 months preceding the presentation of the award are the principal basis for selection. The awardee will be invited to present a brief summary of his or her research career.

Previous winners of the award are:

- 1979 Christian Crone - Copenhagen, Denmark
- 1984 Eugene M. Renkin - Davis, California, U.S.A.
- 1988 Bjorn Folkow - Goteborg, Sweden
- 1991 Shu Chien - San Diego, California, U.S.A.
- 1996 Olga Hudlicka - Birmingham, U.K.
- 2001 David Shepro, Boston, Massachusetts, U.S.A.

Upcoming Meeting Information

The 54th Annual Meeting

April 28-May 2, 2007

Washington D.C. Convention Center

Washington, D.C.

Held in conjunction with Experimental Biology 2007

April 28-May 2, 2007

Washington, D.C.

**MCS is an Official Guest Society of The American Physiological Society at
Experimental Biology 2007**

The Abstract Deadline is November 8, 2006.

**When you submit your abstracts, please be certain to choose the Microcirculatory Society poster topics
1026-APS through 1039-APS.**

(Session: 1018-APS-Microcirculation is NOT PART OF THE MICROCIRCULATORY SOCIETY PROGRAM.)

PROGRAM SCHEDULE

Saturday, April 28th:

**8:30 AM - Noon: MCS Executive Council Meeting
Room To Be Announced.**

**3:00 - 5:00 PM: MCS President's Symposium: Frontiers of Microcirculation.
Room 146B. Washington Convention Center.**

**Edward Inscho, Medical College of Georgia, Augusta GA
Mechanisms of renal blood flow autoregulation**

**Thomas Woolsey, Washington University, St. Louis MO
Blood-brain interface: Mechanisms of vascular regulation with neural activity**

**Steven J. Mentzer, Brigham and Women's Hospital, Boston MA
Adaptive responses of the microcirculation and immune system to environmental challenges**

**Mark W. Dewhirst, Duke University, Durham NC
Relationship between tumor hypoxia and acidosis: new insights to the Warburg effect**

**5:00 - 10:00 PM: MCS Business Meeting, Social Gathering, and Buffet.
Room 146B. Washington Convention Center.**

Sunday, April 29th:

**All Day: MCS Poster Sessions.
Washington Convention Center.**

**3:15 - 5:15 PM: Landis Award Lecture: Title and Awardee To Be Announced.
Room 146B. Washington Convention Center.**

Monday, April 30th:

**10:30 AM - 12:30 PM: MCS Young Investigator Symposium: Computational Microcirculation.
Room 145A. Washington Convention Center.**

**Nikolaos Tsoukias, Florida International University, Miami FL
Integrative computational physiology of the vasculature: NO and Ca²⁺ dependent signaling in
the regulation of microcirculatory tone.**

**Brian E. Carlson, University of Washington, Seattle WA
Computational modeling of microvascular blood flow regulation incorporating myogenic and
shear-dependent responses**

**Daniel Goldman, University of Western Ontario, London, Ontario
Using mathematical and computational modeling to study dynamic regulation of tissue oxygen
delivery**

**Fan Wu, Medical College of Wisconsin, Milwaukee WI
Integrated modeling of cellular energetics and substrate transport to analyze data on cardiac
tissue**

**Mahendra Kavdia, University of Arkansas, Fayetteville AR
Role of reactive oxygen species in the microcirculation**

**Shayn M. Peirce-Cottler, University of Virginia, Charlottesville VA
Multi-cell simulations of microvascular network growth and adaptation**

**All Day: MCS Poster Sessions.
Washington Convention Center.**

Tuesday, May 1st:

**All Day: MCS Poster Sessions.
Washington Convention Center.**

MCS to Affiliate with APS/BMES Session at EB 2007

Richard Price (Executive Council, '08) would like to call the membership's attention to a special session at EB 2007 in Washington, DC. The session, titled "Engineering Vascular Cell Function Using Nanoscale Cues" and chaired by MCS member Brian Helmke, is part of the APS program and will have official affiliations with both the Microcirculatory Society and the Biomedical Engineering Society. MCS is affiliating with this session to give the society broader exposure to investigators working in the field of cell mechanics and migration. This session will feature cutting-edge research focused on understanding how matrix topology and composition influence cell behavior and fate. This research has important bearing on angiogenesis and tumor metastasis, and we encourage all MCS members who are interested in those topics to attend if possible. The talks will be given by investigators not typically associated with MCS, so this should be an excellent opportunity for the society to build new bridges to other fields. The time and date for this session are not yet finalized, but details will be forthcoming.

World Congress Update

The Congress Web Site is still functioning in an informational capacity. We still have the symposium proposal form on the web site that people can download. The target for full functionality of the web site is November 1st. That will include registration capabilities and abstract submission capabilities, fees, and deadlines. Since we want to make very sure that the site won't play any dirty tricks on us, we need to test it. If we don't get it up on Nov. 1, it will be up shortly thereafter. Right now, we're looking at an April 1st deadline for abstract submission and early registration. After the early registration deadline, the costs will increase. If anyone has ideas for potential sponsors and exhibitors, they should e-mail them to Julian Lombard. The announcements section should really start to get busy as soon as we get the web site to full functional capacity.