

The Microcirculatory Society, Inc.

Newsletter

Volume 35, Number 2 Fall, 2007

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Officers

President: <i>cjm@tamu.edu</i>	Cynthia Meininger
President elect: <i>segalss@health.missouri.edu</i>	Steve Segal
Secretary: <i>mframe@notes.cc.sunysb.edu</i>	Molly Frame
Treasurer: <i>sweeneyt1@scranton.edu</i>	Terrence Sweeney

Message from the President



The main focus of this President's message is "Meetings – Past, Present, and Future." I hope that many of you were able to participate in the 8th World Congress of Microcirculation that took place this **past** August in Milwaukee, Wisconsin. The meeting was a great success, with almost 500 participants from 25 countries, 22 symposia, over 300 posters, and a wonderful social program. We owe much to Julian Lombard and his local organizing team (Marie Schulte, Diane Munzenmaier, Andrew Greene, Mary Pat Kunert, Gregory McQuestion, Carol Moreno-Quinn, Weihong Jin, and Alisha Campbell) for their hard work and dedication to making this a quality meeting. If you happen to see Julian or any of his team, be sure to give them a pat on the back and an extra thank you.

Presently, plans are underway for the MCS events at EB2008 in San Diego, April 5-9th. As I mentioned in the summer newsletter, the MCS

will be expanding its activities on Saturday to include a Techniques Workshop in the morning, followed by an Awards Luncheon/Business Meeting and the President's Symposium. The Techniques Workshop will focus on *in vivo* techniques for study of the microcirculation. It will be designed as a tutorial session with emphasis on details for setting up and utilizing *in vivo* preparations, microelectrodes, and imaging techniques for the microcirculation. This will be a good chance for students and trainees to become familiar with some of the classic techniques as well as some of the newer "tools" of our field. We hope this session will also draw individuals from related fields that might be interested in expanding their studies to include the microcirculation. Spread the word to your colleagues. There will be handouts with details about each of these methods as well as discussion from a panel of experts who can provide further insight into setting up these

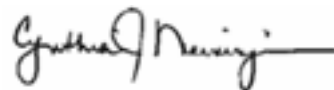
techniques in your laboratory. The President's Symposium in the afternoon will tie in with the morning workshop, highlighting new data obtained with these *in vivo* preparations and tools.

Please note that the Awards Banquet will be moved to the lunch hour to prevent the conflict with the Walter B. Cannon Memorial Lecture and the APS Social scheduled on Saturday evening. *The cost of the luncheon will be mainly borne by the Society as a benefit to our members.* There may be a nominal charge assessed, simply to allow us to determine the number attending. The Business Meeting will be held following the luncheon and prior to the President's Symposium.

Be sure to take into account these new activities when you make your travel plans for the EB meeting. Plan to arrive on Friday evening to take advantage of all of the Saturday activities – including the “free” luncheon. The EB2008 website is now open (www.eb2008.org) for abstract submission and housing reservations. The abstract deadline is November 7, 2007. Please remember to submit your abstracts using the MCS topics [look for the **Microcirculatory Society list of topics using the EB Topic Categories link]. The Microcirculatory Society Topics are 1027-APS through 1049-APS.**

We are also in the planning stages for a **future** meeting that will be separate from our joint meeting with EB. This 2009 meeting will be a small, stand-alone meeting intended to foster in-depth scientific discussion while bringing back the lively social interaction that characterized our MCS meetings in earlier years. Sites that are being investigated include University of Missouri-Columbia, Johns Hopkins, UC-Davis/Napa Valley, and UCSD. **If you would like to host and/or organize this meeting, a Request for Proposals (RFP) is included in this newsletter. Please note that proposals are due next month.** Stay tuned for more details and be sure to provide any ideas or feedback you might have for this endeavor.

Finally, before I close, I want to draw your attention to the nominations forms in this newsletter. The Nominations Committee (Mary Ellsworth, Chair) will be accepting your nominations for new officers – President-Elect, Treasurer, and two Councillors. The Awards Committee (Mike Eppihimer, Chair) will be accepting your nominations for our annual awards – the Eugene Landis Award, Zweifach Travel Awards, August Krogh Young Investigator Award, Microcirculatory Travel Award, and Award for Excellence in Lymphatic Research. Please note the deadlines and don't delay. It is vital that you get involved and help to shape the future of your Society!



Welcome to New MCS Member

Student Member

Erica Boerman

boermane@msu.edu

World Congress: August in Milwaukee!

The 8th World Congress for Microcirculation was held August 15-19, 2007 in Milwaukee, Wisconsin. The Congress was an outstanding success with more than 500 researchers from all over the world attending the event. In addition to strong representation from the United States and Canada, the World Congress had attendees from six continents (all except Antarctica) and from 30 different nations. Participating Societies included the Microcirculatory Society; The Asian Union for Microcirculation; the Australia-New Zealand Society for Microcirculation; the British Microcirculation Society; The Chinese Society for Microcirculation; the European Society for Microcirculation; the French Society for Microcirculation; The Georgian Microcirculation Society; the German Society for Microcirculation and Vascular Biology; The Hungarian Society for Microcirculation and Vascular Biology; The Israeli Society for Microcirculation; the Italian Society of Clinical Hemorheology and Microcirculation; the Japanese Society for Microcirculation; the Netherlands Society for Microcirculation and Vascular Biology; the Portuguese Society for Hemorheology and Microcirculation, the Swiss Society of Microcirculation.

The Congress began with a gala opening reception on August 15th at the Milwaukee Art Museum located on the Milwaukee lake front. The master of ceremonies from the event was the well-known racing driver and television personality David Hobbs, and the opening reception included an opportunity to view a special exhibition of paintings by Pissarro, the Father of Impressionism. The keynote address on Endogenous Angiogenesis Inhibitors was presented by Dr. Judah Folkman. Other highlights included two prestigious award lectures: the Benjamin W. Zweifach Award lecture on Interplay Between Ion Channels and Gap Junctions in the Arteriole, presented by Dr. Brian R. Duling from the University of Virginia and the Nishimaru-Tsuchiyua International Award lecture on Mechanisms Underlying the Microvascular Dysfunction Associated with Acute and Chronic Inflammation presented by Dr. D. Neil Granger from Louisiana State University Health Science Center in Shreveport, Louisiana. Other outstanding plenary lectures included Dr. Jan Schnitzer's lecture on Proteomic Mapping of the Endothelium, Dr. William Sessa's lecture on Molecular Control of Nitric Oxide Synthesis and NO Signaling, and Dr. Gerald A. Meininger's lecture on Atomic Force Microscopy in the Study of the Microcirculation. Concurrent symposia were presented from Thursday morning August 16th through noon on Sunday, August 19. Over 300 posters were presented at the meeting. In addition to the major career awards to Drs. Duling and Granger, a variety of trainee travel awards were presented by the Microcirculatory Society, the International Institute for Microcirculation, the European Society for Microcirculation, and the German Society for Microcirculation and Vascular Biology.

Major sponsorship was obtained from General Electric Medical Systems, and many fine exhibitors contributed to the meeting including: Cardiopulmonary Technology Inc., Data Sciences International, DMT-USA; emka Technologies; Fryer Company; Hatteras Instruments; Ion-Optix; Living Systems Instrumentation; MCW Program for Genomic Applications, Moor Instruments, Oxford Optronix; PERIMED Inc. Starr Life Sciences, and Wheels Bridge.

The Microcirculatory Society and the Congress Organizers wish to express their sincere appreciation for all the wonderful contributions of the attendees, participating societies, sponsors, and exhibitors.

Update for Experimental Biology 2008, San Diego!

Please note that the Microcirculatory Society, Inc. has planned a full day of activity (workshops in the morning, President's symposium in the afternoon) on Saturday, April 5th, preceding Experimental Biology 2008 in San Diego. To be able to take advantage and participate in the full day of our Society's events, **you are encouraged to arrive at the meetings in San Diego on Friday, April 4th** and make your hotel reservations accordingly.

Details for Registration for the Spring Meetings and Hotel Reservations are now available on the MCS website at:

<http://microcirc.org/55thPROGRAM/AnnualMeeting2008.html>

Also, on-line submission of abstracts is now available. The Deadline for final submission of abstracts is November 7, 2008.

Call for Nominations for MCS Awards

The Awards Committee, Chaired by Dr. Michael Eppihimer, strongly encourage you to apply and/or nominate for these awards:

August Krogh Travel Awards (for post-doctoral fellows)
Benjamin Zweifach Travel Awards (for graduate students)
Excellence in Lymphatic Research Award
Microcirculatory Society Travel Award

The deadline for Award Nominations for these Awards only is December 15, 2007. The criteria for the awards can be found on the MCS website.

http://microcirc.org/ABOUT/MCS_Awards.html.

All award materials should be e-mailed to Dr. Eppihimer: Michael.Eppihimer@bsci.com

There is a separate deadline for the Eugene Landis Award of November 15, 2007, as noted on the following page.

Call for Nominations for the Eugene Landis Award



Eugene M.
Landis
(1901 - 1987)

Eugene Landis Award

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 publications 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.

Prior Landis Award Recipients

2007: Gerald A. Meininger	1988: Brian R. Duling
2006: William I. Rosenblum	1987: David Shepro
2005: Virginia H. Huxley	1986: Alan C. Groom
2004: Robert W. McCuskey	1985: Aubrey E. Taylor
2003: Walter N. Durán	1984: Harry L. Goldsmith
2002: Robert W. Gore	1983: Shu Chien
2001: Donald Heistad	1982: Carl A. Goresky
2000: Karl-E. Arfors	1981: Harold Wayland
1999: Marcos Intaglietta	1980: Sidney S. Sobin
1998: D. Neil Granger	1979: Paul A. Nicoll
1997: H. Glenn Bohlen	1978: Francis P. Chinard
1996: Rakesh K. Jain	1977: Eugene M. Renkin
1995: James B. Bassingthwaighte	1976: Paul C. Johnson
1994: Gabor Kaley	1975: Y.C. (Bert) Fung
1993: Fitz-Roy Curry	1974: no award given
1992: Harris J. Granger	1973: Silvio Baez
1991: no award given	1972: Curt A. Wiederhielm
1990: Norman C. Staub	1971: Benjamin W. Zweifach
1989: Hermes Kontos	1970: Johannes A.G. Rhodin

The deadline for Nominations for the Landis Award only is November 15, 2007. The criteria for this awards can also be found on the MCS website.

http://microcirc.org/ABOUT/MCS_Awards.html.

All award materials should be e-mailed to Dr. Eppihimer: Michael.Eppihimer@bsci.com

2007 Microcirculatory Society Nominating Ballot

Deadline for receipt: December 1, 2007

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

Please provide name and contact information of individual nominated.

President-Elect: _____

Treasurer: _____

Councillors:

(1) _____

(2) _____

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

*Mary Ellsworth, Ph.D.
St Louis University, MO
ellsworthm@slu.edu*

FAX: (314) 977-6411

RFP

MCS Council is soliciting proposals from individuals/groups interested in organizing/hosting a stand-alone MCS meeting in Fall 2009

Proposals should include (but are not limited to) the following:

Approximate Meeting Dates (keeping in mind meeting times for other larger meetings, e.g., AHA meetings in mid-November)

Preliminary Scientific Program (e.g., session format; special topics or activities; aspects of the program that are unique to the site and reason for the uniqueness, etc.)

Approximate Travel/Housing/Meeting Costs (e.g., costs from key regions of the US to the proposed meeting site; affordability of travel from outside the U.S.; facilities available for housing meeting participants; costs for meeting facilities [including audio/video and catering costs]; etc.)

Significance of the Location (e.g., local cultural, sporting, and/or entertainment attractions)

Miscellaneous (e.g., plan for Continuing Medical Education [CME] credits)

Deadline for Submission of Proposals: November 14th, 2007.

Please return proposals to Cindy Meininger (cjm@tamu.edu) or Molly Frame (mframe@notes.cc.sunysb.edu)



International Conference on Tetrahydrobiopterin, PKU and NOS March 23-28, 2008 -- St. Moritz - Champfer, Switzerland

Key Topics:

- Chemistry and biochemistry of tetrahydrobiopterin (BH4) and other pteridines
- Biochemistry of NOS
- Role of BH4 and NOS in endothelial dysfunction
- Diagnosis and genetics of BH4 deficiencies
- Genetics of PKU, PKU and BH4
- Enzyme replacement and gene therapy for PKU

Link for more information: <http://www.biopku.org/BH42008/information.asp>

Important Dates

- December 22, 2007 Deadline for Abstract Submission
- January 15, 2008 Abstracts Acceptance
- January 15, 2008 Deadline for early Registration
- February 29, 2008 Deadline for Hotel Reservations





Dear Friend!

On the behalf of the Organizing Committee of the upcoming meeting of the

25th Conference of the European Society for Microcirculation
Budapest, Hungary, Aug 26-29, 2008.

I would like to ask you to submit proposals for symposia. It might be very timely to present your scientific area of interest to a world-wide audience. The topics range from functional to the cellular and molecular aspects of microcirculation and vascular biology.

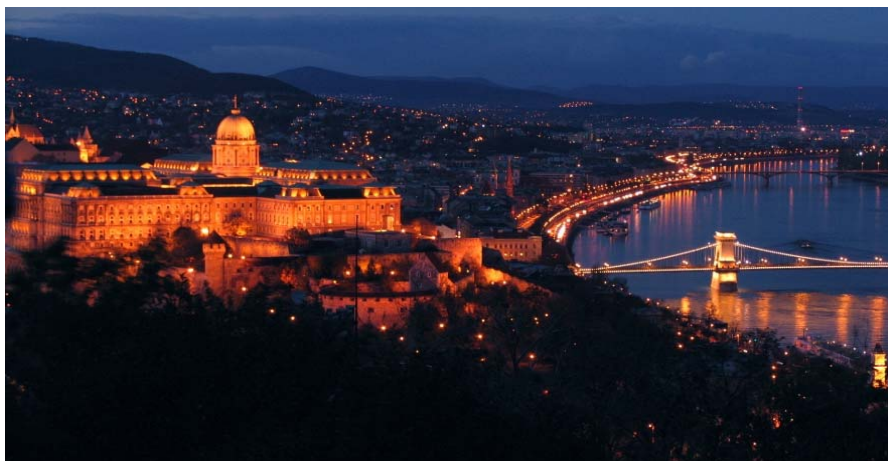
Attached, please find the ***symposium proposal form***, which you may also download from the Conference website: www.eumicrocirculation2008.hu

Please fill out the form and send to Dr. Zsolt Bagi (E-mail: bagizs@dote.hu). The deadline for Symposium Proposals is **December 15, 2007**. From the proposed symposia the Scientific Committee will make selections and the results will be posted on the Congress website at the end of January, 2008.

Sincerely yours,

Akos Koller
President
European Society for Microcirculation

Budapest at night (a small artery is flowing on the left, called: Duna)



The Microcirculation in Acute Viral and Bacterial Infections

Inflammation
Hemorrhagic fever viruses
Dengue
Vascular permeability
Tularemia
Sepsis
Hantaviruses
Endothelial pathobiology
Endothelium-leukocyte interactions
Endothelial intracellular signaling
Rickettsiae
Methods, tools, and animal models

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Galveston, Texas. Nov 15-17
Updated information:
<http://www.utmb.edu/circulation-infection>

**Seventh McLaughlin Symposium
in Infection and Immunity**



The Microcirculation in Acute Viral and Bacterial Infections



2007



Seventh McLaughlin Symposium
in Infection and Immunity

November 15-17, 2007

Thursday, November 15 (25 min talk, 5 min Q & A and to move to next speaker)

- | | |
|----------------|--|
| 8:00 -- 8:50 | Registration |
| 8:50 -- 9:00 | Welcome
David H. Walker, M.D.
University of Texas Medical Branch at Galveston |
| 9:00 -- 9:30 | “The endothelium as a target of infections”
Sherif Zaki, M.D., Ph.D.
Centers for Disease Control and Prevention |
| 9:30 -- 10:00 | “Endothelial cell phenotypes in health and disease”
William C. Aird, M.D.
Beth Israel Deaconess Medical Center <i>and</i> Harvard Medical School |
| 10:00 -- 10:15 | A.M. Break |
| 10:15 -- 10:45 | “The endothelium as an immunological organ”
Andrew H. Lichtman, M.D., Ph.D.
Brigham and Women's Hospital <i>and</i> Harvard Medical School |
| 10:45 -- 11:15 | “cAMP dependent regulation of endothelial barrier function”
Tanya Mayadas, Ph.D.
Brigham and Women's Hospital <i>and</i> Harvard Medical School |
| 11:15 -- 11:45 | “Endothelial regulation of microvascular permeability”
Walter N. Durán, Ph.D.
University of Medicine and Dentistry of New Jersey |
| 11:45 -- 12:45 | Lunch (provided) |

- 12:45 -- 1:15 “Comparison of systemic and microvascular fluid flux in large animal models of *Pseudomonas* and MRSA sepsis”
Daniel L. Traber, Ph.D.
University of Texas Medical Branch at Galveston
- 1:15 -- 1:45 “Protection by ascorbate against microvascular dysfunction in sepsis”
Karel Tynl, Ph.D.
University of Western Ontario
London, Canada
- 1:45 -- 2:15 “Oxidative stress and vasoregulation by the endothelium”
Mark G. Clemens, Ph.D.
University of North Carolina at Charlotte
- 2:15 -- 2:45 “The endothelium and fibrinolysis in the pathogenesis of acute lung injury: newly recognized pathways”
Steven Idell, M.D., Ph.D.
University of Texas Health Science Center at Tyler
- 2:45 -- 3:15 “Inflammatory injury and microvascular leakage”
Sarah Y. Yuan, M.D., Ph.D.
School of Medicine
University of California, Davis
- 3:15 -- 3:30 Break
- 3:30 -- 4:00 “Lymphocyte trafficking”
Ulrich Von Andrian, M.D., Ph.D.
The CBR Institute for Biomedical Research *and* Harvard Medical School
- 4:00 -- 4:30 “Endothelial dependent mechanism of leukocyte recruitment”
F. William Luscinskas, Ph.D.
Brigham and Women's Hospital *and* Harvard Medical School
- 4:30 -- 5:00 “Leukocyte-endothelial interactions and regulation of T cell- mediated immune responses”
Andrew H. Lichtman, M.D., Ph.D.
Brigham and Women's Hospital *and* Harvard Medical School
- 5:00 – 6:30 Poster viewing

Friday, November 16 (25 min talk, 5 min Q & A and to move to next speaker)

- 7:00 -- 8:00 Continental breakfast
- 8:00 -- 8:30 “Genomic insights into inflammatory lung injury and vascular barrier regulation”

Joe G.N. Garcia, M.D.
Pritzker School of Medicine
University of Chicago
Chicago, Illinois

- 8:30 -- 9:00 “Hantaviruses” (tentative title)
Erich Mackow, Ph.D.
Stony Brook University, New York
- 9:00 -- 9:30 “Oxidized phospholipids in control of lung endothelial permeability and bacterial inflammation”
Konstantin G. Birukov, M.D., Ph.D.
University of Chicago School of Medicine
- 9:30 -- 10:00 “Viral hemorrhagic fever and endothelium: *in vitro* and *in vivo*”
Clarence. J. Peters, M.D.
University of Texas Medical Branch at Galveston
- 10:00 -- 10:15 A.M. Break
- 10:15 -- 10:45 “Molecular mechanisms of plasma leakage in dengue hemorrhagic fever”
Anon Srikiatkachorn, M.D.
Center for Infectious Diseases and Vaccine Research
University of Massachusetts School of Medicine
- 10:45 -- 11:15 “Avoiding and provoking innate immunity: the complex response of endothelium to *Francisella tularensis*”
Martha Furie, Ph.D.
Stony Brook University, New York
- 11:15 -- 11:45 “Microbial translocation of the endothelium”
Kim Kwang Sik, Ph.D.
Johns Hopkins University School of Medicine
- 11:45 -- 12:45 Lunch (provided)
- 12:45 -- 1:15 “Regulation of microvessel permeability: acute *versus* chronic responses”
Fitz-Roy Curry, M.D.
School of Medicine
University of California, Davis
- 1:15 -- 1:45 “Mechanisms restoring lung endothelial barrier function”
Dolly Mehta, Ph.D.
University of Illinois College of Medicine at Chicago
- 1:45 -- 2:15 “Infection, inflammation and immunity in severe pulmonary hypertension”

Norbert F. Voelkel, M.D.
Virginia Commonwealth University, School of Medicine at Richmond

- 2:15 -- 2:45 “Role of endothelial progenitor cells in the mechanism of vascular repair”
Asrar Malik, Ph.D.
University of Illinois College of Medicine at Chicago
- 2:45 -- 3:15 “Endothelial activation by TLRs”
Paul Kubes, Ph.D.
University of Calgary
Alberta, Canada
- 3:15 -- 3:30 Break
- 3:30 -- 4:00 “Neutrophil and monocyte arrest in inflammation”
Klaus Ley, M.D.
La Jolla Institute for Allergy and Immunology
La Jolla, CA
- 4:00 -- 4:30 “Using atomic force microscopy as a tool to study extracellular matrix adhesive interactions in microvascular cell types”
Gerald Meininger, Ph.D.
University of Missouri, Columbia
- 4:30 -- 5:00 “Animal models of relevant bacterial infectious diseases”
Rick Lyons, Ph.D.
University of New Mexico, Albuquerque
- 5:00 -- 6:30 Poster viewing
- 6:30 -- 9:30 Dinner reception (buffet)

Saturday, November 17 (25 min talk, 5 min Q & A and to move to next speaker)

- 8:00 -- 9:00 Continental breakfast
- 9:00 -- 9:30 “Rickettsial infections and the endothelium”
David H. Walker, M.D.
University of Texas Medical Branch at Galveston
- 9:30 -- 10:00 “Endothelium signaling during rickettsial infections”
Sanjeev Sahni, Ph.D.
University of Rochester School of Medicine and Dentistry
Rochester, NY

- 10:00 -- 10:30 “Shear stress-induced signaling in endothelium”
Tara Haas, Ph.D.
School of Kinesiology and Health Sciences
York University
Ontario, Canada
- 10:30 -- 10:45 A.M. Break
- 10:45 -- 11:15 “Signaling in endothelial cell caveolae”
Philip W. Shaul, M.D.
University of Texas Southwestern Medical Center at Dallas
- 11:15 -- 11:45 “eNOS uncoupling in the vascular endothelium associated with disorders such as
hereditary hemorrhagic telangiectasia”
Michelle Letarte, Ph.D.
University of Toronto
Ontario, Canada
- 11:45 -- 12:15 “Intracellular connections for ICAM-1 signaling in endothelium during leukocyte
diapedesis”
F. William Lusinskas, Ph.D.
Brigham and Women's Hospital *and* Harvard Medical School
- 12:15 -- 12:45 “Immunopathogenesis of the microvascular leak in a hamster model of
hantavirus pulmonary syndrome”
Charles F. Fulhorst, D.V.M., Dr.P.H.
University of Texas Medical Branch at Galveston
- 12:45 --1:15 Concluding remarks.
David H. Walker, M.D.
University of Texas Medical Branch at Galveston

Group tours of the Galveston National Laboratory will run concurrent with the symposium. If you would like to be included in a tour of the laboratory, please sign up at the registration desk.