

THE MICROCIRCULATORY SOCIETY, INC.

Official Newsletter



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A Note from the President

Fall Greetings!

I would like to briefly update the MCS members with respect to events that were addressed in the last newsletter as well as those that have developed in the interim.

Website. The MCS website has officially moved from the University of Arizona to the University of Mississippi Medical Center. During this transition, a Listserv was implemented for email correspondence. Recreating the MCS website has involved converting databases, updating records and comprehensive testing before going back on-line. This should occur within the next few weeks and be ready for new development. Your patience during this transition is appreciated!

Publications. Electronic publications are overseen by our Publications Committee. A high priority in developing the MCS website infrastructure is to include links to historical records as well as cutting-edge developments. Largely through the efforts of Bob McCuskey, historical records of the MCS have been effectively archived at UCSD. With unanimous approval from MCS Council, a new position has been created: "Liaison for MCS Records at UCSD". Professor Geert Schmid-Schonbein, a former MCS President, has graciously accepted this integral role while also serving on our Publications Committee.

Publisher's Contract. The contract for publishing Microcirculation is due for renewal. A 1-year interim contract is being negotiated (with Informa Healthcare) to provide a period for MCS members to receive and review a new the long-term (4-5 year) contract prior to our annual meeting in New Orleans, where such commitment will be discussed and voted on. Key issues include on-line-only subscriptions, rapidity of electronic access to accepted papers, open access publication, and the cost of color figures. The continued success of Microcirculation is enhanced through MCS members submitting novel research findings, participating in peer-review, and citing papers that are published therein.

President's Symposium and Workshop. The President's Symposium and Workshop will take place on April 18th, 2009 in New Orleans; a description of these sessions is included in this newsletter (page 5). The symposium will be held in the morning and will feature 4 invited speakers who focus on Live Cell Imaging/Intravital Microscopy from unique and novel perspectives. An afternoon workshop given by the same individuals will discuss the underlying experimental techniques and methods used to acquire the images and data presented during the symposium. The annual Banquet and Awards presentations will be held at a luncheon (details to follow). Be sure to arrive on April 17th in order to participate in this full day of MCS events!

Annual meeting in New Orleans. When you register for EB2009, be sure to check the box that you belong to the MCS! For the meeting, our Society will offer no less than 20 travel awards consisting of 10 for students and another 10 for postdoctoral trainees. For the first time, these awards are being made available to young investigators without requiring that they belong to the MCS. Our Council agreed that making travel awards more widely available is an excellent investment towards recruiting new members. Students and postdoctoral trainees are encouraged to identify their peers whose research impacts on understanding the microcirculation. Invite them to submit an abstract under a Microcirculation heading (page 5).

Committees. Our 11 standing committees have been asked to reevaluate and revise their respective

charges in light of our current By-Laws and goals for the future. A question to think about as you review revisions to the MCS By-Laws in the next newsletter is whether the MCS actually needs 11 standing committees. What does (should) each committee actually do for the MCS? I invite and encourage your comments if you feel otherwise. We can discuss this matter at our annual business meeting, which will follow the Landis Award Lecture on Sunday, April 19th.

MCS meeting at Mizzou. Development of the Fall (October 16th-17th) MCS meeting in 2009 is underway at the University of Missouri - Columbia. The theme of the meeting is "Frontiers in Microcirculation" with the program designed to bridge basic research with clinical perspective. The meeting will also strive to promote informal interaction of students and postdoctoral fellows with invited speakers to discuss careers, transitions and professional development. As they develop, meeting details can be viewed at: http://muconf.missouri.edu/mcs_mu2009

I would be pleased to receive your thoughts and ideas in light of how MCS Officers, Councilors and Committees can most effectively serve and expand its membership and service.

Enjoy fall colors wherever you may find them!



Steven S. Segal, Ph.D.
President
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Welcome to New MCS Members

Regular Members

Sharon Evans
SUNY Buffalo
sharon.evans@roswellpark.org

Pooneh Bagher

University of Missouri
Bagherp@health.missouri.edu

Associate Members

Yajun Liu
University of Missouri
liuy@health.missouri.edu

Student Members

Hongyan Dai
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In Memoriam

Dr. William Halpern

Dr. William Halpern died on July 29, 2008, at the age of 84, after a brief struggle with pancreatic cancer.

After graduating from City College of New York in 1944, Bill served two years in the U.S. Navy as an electronic technician, and then taught at Rutgers University while receiving his M.Sc. in electrical engineering. He entered the industrial sphere in 1948 where, among other projects, he worked on the development of airborne submarine detectors and the first gyroscope permitting flights over the polar route.



In 1953, he turned his interests to the area of health-related research by establishing a company that developed several novel instruments for remote measurement of blood pressure, and the early detection of breast cancer. After selling his company in 1960, Bill joined Beckman Instruments in Palo Alto, CA as Chief Applications Engineer. Pursuing his love of physiology, Bill received an M.S. degree from Stanford in 1966 under the guidance of Dr. Eugene Yates. He often spoke of this as a turning point in his life, as it fused his love of engineering with physiology.

Bill continued his academic pursuits at the University of Vermont, where he met Dr. Norman Alpert and received a Ph.D. in Physiology and Biophysics in 1969. Bill spent the next 21 years on the faculty, teaching and training many students and postdoctoral associates as he ascended to the rank of full Professor. His research was continually funded by numerous grants from the *National Institutes of Health* and the *American Heart Association*, and the Halpern laboratory was a spawning ground for a number of successful scientists. Bill served on several NIH Study Sections, and on the editorial board of prestigious journals such as *Circulation Research* (1983-1990), *Hypertension* (1981-1983), and *Blood Vessels* (1980-1991; now, the *Journal of Vascular Research*). In 1997, Bill was inducted into the *Vermont Academy of Science and Engineering*.

Bill Halpern was an inventor, and a pioneer of *in vitro* vascular methodology. He is recognized internationally for his many contributions to the field of scientific instrumentation, and resistance artery biology in health and disease. During a year spent in Dr. Halpern's laboratory as Visiting Scientist, Dr. Michael Mulvany and Bill designed and built a small artery isometric wire myograph (first described in *Nature*, 1976). Several years later, with the help of other colleagues at the University of Vermont, Bill developed a state-of-the-art small artery pressure-perfusion video system (1984) that is used widely today to evaluate the behavior of isolated arteries and veins.

This invention coincided with the advent of the 'endothelial era' and, by virtue of its design, the pressure arteriograph allowed the exploration of endothelial-smooth muscle interactions within the vascular wall. Of particular note is Bill's work in the field of arterial mechanotransduction, which established myogenic behavior as a primary mechanism for resistance artery control and defined how it was altered by hypertension.

Bill lectured widely on his scientific investigations in the United States, as well as in Australia, Asia and Europe and, after retiring from the University of Vermont in 1990, founded Living Systems Instrumentation (LSI), a company whose theme is "*Innovations in vascular research*", where he continued to work until only a few weeks before his death. Although he was President and CEO, Bill could often be found quietly tinkering in the laboratory – devising and testing new instruments – with a pipe and black coffee in hand. LSI is a highly successful company, and its products can be found in scientific laboratories worldwide, with citations in over 600 published scientific papers.

As a person, Bill was a gentle, thoughtful man with a unique sense of humor and an observant eye. He reveled in life's idiosyncrasies and ironies, loved to dance, and was a good friend to many.

Dr. William Halpern is survived by his beloved wife, novelist Shelby Hearon, and his two sons – Russ and Alex - and their families.

With his passing, the world has lost an original thinker, an outstanding scientist, and a fine man.

George Osol, Ph.D.
August 2008

Experimental Biology 2009 – April 18-22 – New Orleans!!

There is no distinction of MCS categories for EB09 so **please** use the following categories to submit abstracts for the Microcirculatory Society. This way MCS will be able to program the abstracts together.

<http://www.eb2009.org/>

Abstract Submission Deadline: 11:59 PM EST, Wednesday, November 5, 2008

MCS Poster Topic Categories

1027-APS Angiogenesis/microvascular remodeling/injury & repair

1028-APS Atherosclerosis/thrombosis/platelets

1029-APS Inflammation/leukocyte-endothelium interactions

1030-APS Instrumentation and live cell imaging

1031-APS Ischemia-reperfusion/free radical biology

1032-APS Lymphatic and venular function

1033-APS Microvascular molecular biology/genetic approaches

1034-APS Microvascular development and aging

1035-APS Microvascular flow regulation/oxygen delivery/networks

1036-APS Microvascular mechanics/hemodynamics/rheology

1037-APS Microvascular pathophysiology/tumor microcirculation

1038-APS Microvascular cell signaling pathways

1039-APS Pericytes and Stem Cells

1040-APS Permeability/fluid & solute exchange/glycocalyx

1041-APS Microvascular pharmacology/therapeutics

1042-APS Tissue-microvessel interactions/extracellular matrix

1043-APS Vasomotor control: endothelium/smooth muscle/nerves

Summary of Awards to be given at Experimental Biology 2009*

Award Name	Application Due Date	Who May Apply
Eugene M Landis Research Award	Nominations due by October 15, 2008.	By nominations only, per instructions on the next page.
MCS Travel Award for Outstanding Young Investigators	December 1, 2008	Residents of US or Canada with a PhD or 1 st MD residency completed by 1996.
August Krogh Young Investigator Award	December 1, 2008	Graduate (PhD) or medical students.
MCS Award for Excellence in Lymphatic Research	December 1, 2008	Professionals with PhD or MD obtained by 1998.
Zweifach Student Travel Award	December 1, 2008	Undergraduate, graduate, or medical students working in the microcirculatory field who have submitted their abstract to a MCS designated section.
Pappenheimer Postdoctoral Travel Award	December 1, 2008	PhD, or MD, or PhD/MD professionals who are 1 st author on an abstract submitted to an MCS designated section.
Gerritsen Award	no deadline or application	determined by Awards Committee
Wiederhielm Award	no deadline or application	determined by Awards Committee

*A full description of each award is on the following pages.

The Microcirculatory Society, Inc. USA (MCS) **Awards**

The Benjamin W. Zweifach Award (*given only at World Congresses for Microcirculation*)
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, and certificate) to be given at the World Congress for Microcirculation. The award recognizes the achievements of internationally renowned individuals who have made outstanding contributions to the advancement of our knowledge of microcirculation. Members of Microcirculation Societies around the world are invited to submit nominations. The nomination packet should include a letter of nomination, letters of support, a Curriculum Vitae and list of the nominee's ten most significant publications. These materials should be submitted to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu. Nomination materials are due prior to December 1st of the year preceding the award. The award will be presented at the World Congress for Microcirculation, where the awardee will be invited to present a lecture summarizing their research career.

The Eugene M. Landis Research 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, and is a member of the MCS. 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 \$2,000 to be used at the discretion of the awardee. To nominate an individual for this award, submit a letter of nomination describing the nominee's most important work and a current Curriculum Vitae that includes a list of the nominee's 10 most significant publications. These materials should be submitted to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu. Nomination materials are due by October 15th of the year preceding the award. The award will be presented during the annual meeting of the MCS, where the awardee will be invited to present a lecture summarizing their professional and research career activities.

The MCS Travel Award for Outstanding Young Investigators

This annual award is given to reward meritorious research in the field of microcirculation by supporting the recipient's visits to laboratories abroad. The award is intended for a researcher who is a resident of the United States or Canada, has received a Ph.D. or completed a first M.D. residency within 12 years of the deadline, and is an active member of the MCS. The award consists of a certificate and \$5,000 to defray travel costs associated with the trip. To apply for this award, a letter of nomination describing how the award will benefit the nominee's career and advance their knowledge of microcirculation, a brief tentative itinerary including the laboratories to be visited, and a current Curriculum Vitae should be submitted to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu. Application materials are due prior to December 1st of the year preceding the award. The recipient is expected to present a brief report of their trip to the MCS membership at the banquet of the annual meeting of the MCS.

The August Krogh Young Investigator Award

August Krogh (1874-1949; Nobel Prize in Physiology or Medicine, 1920)

This annual award is intended for a graduate student, Ph.D., or M.D. 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 graduate students and recent graduates, defined as those within 3 years after having received a Ph.D., or within 3 years following completion of a first residency after having received an M.D. The award consists of a certificate and \$1,000. To qualify for this award, applicants must be first author on an abstract submitted for presentation at the annual meeting of the MCS and must submit a first-authored manuscript that can be considered for publication in **Microcirculation**. Applicants should also forward a letter of recommendation from their mentor. Application materials should be submitted to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu. Application materials are due prior to December 1st of the year preceding the award. The award will be presented at the banquet of the annual meeting of the MCS. While encouraged, membership in the MCS is not a requirement. Individuals may only receive this award one time.

The MCS Award for Excellence in Lymphatic Research

This award reflects a generous contribution from the former North American Society of Lymphology and 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 a bona fide equivalent degree. The award consists of a certificate and \$500 to be used at the discretion of the awardee. To qualify, a letter of nomination describing the nominee's research efforts, a first-authored abstract submitted under the appropriate MCS heading for presentation at the annual meeting of the MCS, and a current Curriculum Vitae should be submitted to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu. Application materials are due prior to December 1st of the year preceding the award. The award will be presented at the banquet of the annual meeting of the MCS. While encouraged, membership in the MCS is not a requirement.

The Zweifach Student Travel Award

Benjamin W. Zweifach (1911-1997)

Established in 1998, this award recognizes the outstanding mentoring efforts of Dr. Benjamin W. Zweifach and is designed to encourage meeting participation by young scientists in training. Students (undergraduate, graduate, or medical) who are working in areas related to the microcirculation even if they are not from a laboratory focused on microcirculation research are encouraged to apply. These awards consist of a certificate and \$500 to defray expenses associated with attending the annual meeting of the MCS. To qualify, a student must be the first author on an abstract submitted under one of the MCS headings for presentation at the annual meeting of the MCS. To apply for the award, the student should forward a copy of their submitted abstract to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu and request that it be considered for this award. The abstract should be accompanied by a letter of support from their mentor. Application materials are due prior to December 1st of the year preceding the award. A maximum of 10 Zweifach Student Travel awards will be made per year. The awards will be presented at the banquet of the annual meeting of the MCS. While encouraged, membership in the MCS is not a requirement.

The Pappenheimer Postdoctoral Travel Award

John R. Pappenheimer (1915-2007)

Established in 2007, this award recognizes the contributions to the field of Microcirculation by Dr. John R. Pappenheimer and is designed to encourage meeting participation by postdoctoral scientists training in research related to the microcirculation (Ph.D., M.D., and Physician-Scientists). These awards consist of a certificate and \$500 to defray expenses associated with attending the annual meeting of the MCS. To qualify, a postdoctoral trainee must be the first author on an abstract submitted under one of the MCS headings for presentation at the annual meeting of the MCS. To apply for the award, the trainee should forward a copy of their submitted abstract to the Chairman of the Awards Committee, Dr. Norman R. Harris at nharr6@lsuhsc.edu and request that it be considered for this award. The abstract should be accompanied by a letter of support from their mentor. Application materials are due prior to December 1st of the year preceding the award. A maximum of 10 Pappenheimer Postdoctoral Travel Awards will be made per year. The awards will be presented at the banquet of the annual meeting of the MCS. While encouraged, membership in the MCS is not a requirement.

Journal-based Awards

There are 2 awards given in relation to the official journal of the MCS. These awards are not decided by the Awards Committee but are based upon citations of work published in **Microcirculation**.

Gerritsen Award

This award was initiated in 1999 to honor the Founding Editor of **Microcirculation**, Dr. Mary Gerritsen. The Gerritsen Award recognizes a review article published in **Microcirculation** that has received the most citations during the last 5 years. The award consists of a certificate and \$1,000 to be used at the discretion of the author(s). The award may only be received once for a particular article. While encouraged, membership in the MCS is not a requirement.

Wiederhielm Award

This award was initiated in 1999 to honor Dr. Curt Wiederhielm, an early member of the MCS, for his contributions towards understanding fundamental properties of the microcirculation. The Wiederhielm award recognizes an original research article published in **Microcirculation** that has received the most citations during the last 5 years. The award consists of a certificate and \$1,000 to be used at the discretion of the author(s). The award may only be received once for a particular article. While encouraged, membership in the MCS is not a requirement.

Nominations for Planning Committee

9th World Congress for Microcirculation

September 18-22, 2010, Paris, France

The following 6 individuals were nominated by members of the MCS. Each person has agreed to serve on the planning committee for the 9th World Congress for Microcirculation and plans to attend the meeting.

Mary (Molly) D. Frame

Jefferson C. Frisbee

Cynthia J. Meininger

Timothy W. Secomb

Steven S. Segal

David C. Zawieja

New MCS position as Liaison for the MCS historical records

Professor Geert Schmid-Schoenbein has agreed to serve as the first Liaison for MCS records. These historical documents are currently held at the University of California at San Diego.

Upcoming Meetings - Save the Date

36th International Congress of Physiological Sciences will take place in Kyoto, Japan 27 July - 1 August 2009. This information is also available on the website <http://www.iups2009.com/> where registration and abstract submission is now open. Abstract submission is from September 1 until December 10, 2008. There is also the information about the travel grant on the site.

The Fall 2009 Meeting of The Microcirculatory Society, INC will be held October 16-17, 2009 at the University of Missouri, Columbia, MO. The theme is Frontiers in Microcirculation: Control Processes and Clinical Applications. Please refer to the MCS website for additional information. <http://microcirc.org/>