

THE MICROCIRCULATORY SOCIETY, INC.

Official Newsletter



Volume 36, Number 1 Summer, 2008

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Officers

President

Steve Segal

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William Jackson

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Secretary

Molly Frame

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Treasurer

Terrence Sweeney

sweeneyt1@scranton.edu

A Note from the President

Greetings!

I am pleased to convey my first message as the new President of our Society. One of my first duties has been to update our standing committees, with an emphasis on revitalizing the infrastructure of the MCS to accurately reflect the expertise, resources and evolving interests of our membership. During this correspondence, I have been surprised to find individuals who had been designated as committee members but had never been asked to actually do anything. At the same time, I found the enthusiasm and willingness of junior as well as senior members to support and work for the benefit of the Society to be highly reassuring. A product of this correspondence is a collective goal to reinvigorate our Society from complementary dimensions. Each of our committees is now engaged in reevaluating and revising their respective charges in light of our current By-Laws and goals for the future.

Foremost is the need for effective correspondence and communication. To this end, our website is now being moved from the University of Arizona to the University of Mississippi. Under the direction of the Communications Committee, the process of converting databases, updating records and recreating the website is happening over the next 2-3 months. During this transition, the patience and consideration of the MCS membership is gratefully acknowledged. To facilitate email correspondence, a new ListServ should be operational in the next few weeks. Initially, the new website will reflect the existing structure and content. During this transition, however, a high priority is developing our website's infrastructure to include links to both new and historical video recordings as well as classic literature in the field. Indeed, electronic access to 'classic' movies would help enlighten a whole new generation of "Live Cell Imagers" as to whose shoulders their field is standing on. An illustrated microcirculation blog will keep members aware of the most recent findings and underlying experimental approaches. A long-term goal is to have the MCS website function as a provocative repository for the knowledge and resources concerned with studying and understanding the microcirculation in health and disease. Appropriate links and contact information will ensure that colleagues at home and abroad are aware of international developments and opportunities in our field. By interfacing with our colleagues internationally, we can foster new global awareness of the breadth and depth of what the discipline (lifestyle!) of studying the microcirculation offers, as well as planning meetings and publications accordingly.

Formal communication of our research findings requires publication in established peer-reviewed journals. The contract for publishing our Society's official journal, *Microcirculation*, is now up for its next 5-year renewal. Our Publications Committee will soon deliberate in deciding whether adopt an immediate access format with on-line publication, to retain more traditional hard copy editions, or some combination thereof.

In addition to concerns about publication costs to authors and subscription costs to Society members and their institutions, a primary goal of these deliberations is to have new research findings readily available for readers. A recent survey indicates that while many of our members enjoy receiving hard copies of the Journal via posted mail, an even higher priority is to have accepted work be available on-line as soon as possible. I take this occasion to reiterate that the success of Microcirculation depends upon members of the MCS (and our sister organizations!) submitting novel research findings for publication, serving as peer reviewers of submitted work, and citing the papers that are published in the Journal.

One of the privileges of this job is to organize the President's Symposium for our annual meeting, which will take place on April 18th, 2009 in New Orleans. Please plan on arriving on April 17th in order to participate in all of these events. 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 focus on the underlying experimental techniques and methods used to acquire the images and data presented during the symposium. I have intentionally invited speakers who are not members of the MCS in order to bring attention to the fact that there are many new and established investigators who are studying the microcirculation and have done so completely independent of our Society! It is remarkable that while microcirculation has historically been the 'home' of *in vivo* imaging, a whole new era of research has been seeded with this perspective and that much of this development has occurred independent of the MCS. Indeed, one invited speaker responded enthusiastically to my invitation by stating that "now is a great time for a revolution in microcirculation" even though they had never heard of the MCS! Needless to say, our goal is to recruit such individuals, along with members of their laboratories. For the fall of next year (October 16th-17th, 2009) an independent meeting of the MCS is being organized at the University of Missouri-Columbia and will be limited to 200 attendees. The theme of the meeting is "Frontiers in Microcirculation" with the program designed to bridge basic research with clinical perspectives in

light of patient care. A special emphasis of this meeting is to provide opportunities for students and postdoctoral fellows to meet informally with junior and senior Principal Investigators to discuss career transitions and professional development. Our first announcement for this meeting is included in this newsletter and its progress can be followed at: http://muconf.missouri.edu/mcs_mu2009

A primary goal of our Society's Council and Committee members is to attract new members. This is aimed particularly those who are studying (aspects of) the microcirculation yet may not even know it, or that the MCS even exists. The feedback that I have received from young investigators indicates that one of the key attractors to our meetings is the availability of travel awards. For the spring 2009 meeting in New Orleans, the MCS will offer no less than 20 travel awards consisting of 10 for students and another 10 for postdoctoral trainees. Our Council members have agreed that making such travel awards available is one of the best investments that we can make towards recruiting new members. In turn, I have a special request to the student and postdoctoral members of the MCS: Please identify other students and postdoctoral trainees who are not currently members of our society and invite them to submit an abstract under one of the Microcirculation headings when the time comes. This invitation extends to young physician-scientists as well as those individuals who are studying basic aspects of microcirculation. I believe the most effective way to recruit new members is to have existing members show them the way.

We will endeavor to keep you abreast of developments in the areas addressed above and would be pleased to hear other thoughts and ideas you may have with respect to how MCS Officers, Councilors and Committees can most effectively serve and expand its membership. A list of these individuals, along with their contact information, is included in this newsletter.

With best wishes for a healthy and productive summer,

Steven S. Segal, Ph.D.
President
segalss@health.missouri.edu



Welcome to New MCS Members

Regular Members

Juan Pablo Olano, MD
Dept. of Pathology
University of Texas Galveston
jolano@utmb.edu

Khalid Matrougui, PhD
Department of Physiology
School of Medicine
Tulane University
kmatroug@tulane.edu

Xenia T. Tigno, PhD
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College of Medicine
University of South Florida
xtigno@health.usf.edu

Donald Keith Payne, MD
Department of Medicine
Division of Pulmonary, Critical
Care, and Sleep Medicine

LSUHSC-Shreveport
kpayne@lsuhsc.edu

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Monash Medical Centre
Monash University
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Joel Wojciechowski, PhD
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Engineering
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Associate Members
Asser Youssef, MD
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ayouss@lsuhsc.edu

Student Members

Ryan M. Wolfort, MD
Molecular and Cellular
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LSUHSC-Shreveport
rwolfo@lsuhsc.edu

Philip J Medeiros, MS
Medical Biophysics
The University of Western
Ontario
pmedeir3@uwo.ca

Alex Moore, MA
Department of Biomedical
Sciences
University of Missouri,
Columbia
awmn78@mizzou.edu

Experimental Biology 2008 – San Diego!!



Passing the torch of MCS leadership from
Past-President, Dr. Cynthia Meininger,
to new President, Dr. Steven Segal.

*Special thanks to those who
completed their terms of service on
MCS Council and Committees in April:*

Councilors: Richard Price, Tara Haas

Committees:

Awards: Michael Eppihimer (Chair), Mary
Pat Kunert

Development: J. Steven Alexander
(Chair), Stephen Flaim, Geert Schmid-
Schonbein

Finance: Donald Buerk

Historical: Robert McCuskey, Paul Johnson,
Ronald Tuma

Liaison: Deborah Damon, Terrence
Sweeney, David Sims

Long Range Planning: Julian Lombard

Membership: Vladislav Glinskii

Nominations: Christopher Kevill, Jena Steinle

Program: Judy Muller-Delp (Chair)

Publications: Matthew Boegehold (Chair)

Reports of the Committees

Annual Report of the Microcirculatory Society Awards Committee for 2007-2008

Members of the awards committee and the year their term ends are:

| | |
|------------------------|------|
| Robert Brock | 2008 |
| Mary Pat Kunert | 2008 |
| Roland Pittman | 2007 |
| Norman Harris | 2009 |
| Steven Miller | 2009 |
| Mike Eppihimer (Chair) | 2008 |

This was another active year for the Awards Committee.

There were two calls for awards to this years Spring MCS meeting held conjunction with the Experimental Biology meeting in San Diego April 5-9, 2008.

It was a very good year for Landis Award applications. There were 7 applicants for this award.

Dr. Geert Schmid Schonbein was selected as the recipient of our society's highest honor, the Eugene M. Landis Award for 2008.

In addition, a decision was made to support 20 travels awards for graduate students and post-docs to this years meeting. The committee received a total of 15 applications for travel awards. All applications were found by the committee to be acceptable for an award. 12 Zweifach travel awards for graduate students and 3 Krogh travel awards for post-docs were given.

There were no applications for the Excellence in Lymphatic Research Award and the Krogh Young Investigator Award for 2008.

The society has been encouraging electronic submission of all application material and this was successfully achieved this year. I thank the applicants for their cooperation and ask that this practice be continued in the future.

This was a successful for the Awards Committee and I thank the members for their diligent efforts and prompt communications.

Submitted by Michael J. Eppihimer
Chair, MCS Awards Committee
March 12, 2007

Report of the MCS Development Committee - 2008

This year the Development Committee sought exposure for the Milwaukee World Congress of Microcirculation and created a plan for continuing medical education to expand clinical participation in the society.

Milwaukee World Congress. To increase exposure for the World Congress, Wisconsin Gov. Doyle and Lt. Gov. Lawton were contacted to give an address to the attendees. Unfortunately Governor Doyle did not attend but he did send a letter of support and representatives. Local newspapers ran a few spots, but not major coverage.

Sponsorship from local Milwaukee science and biotech (Berlex, etc, etc), and national businesses (BD, Nikon), were solicited, but were politely declined.

CME. Continuing Medical Education. In order to foster increased interest in the society and participation in MCS events, we have continued to explore continuing medical education credits for clinical colleagues. This will hopefully attract clinical (MD) members into the society and expand our sponsor base to include clinically oriented sponsors (possibly drug companies). The Office of Continuing Medical Education at LSUHSC has agreed to assist in this endeavor. **Several options for continuing medical educational credit are possible for different levels of participation. These can include CME credits for reading Microcirculation journal articles, CME credits for reviewing Microcirculation journal articles, CME credits for participating in poster presentations and participation in MCS meetings.**

CME Credits for Microcirculation Journal articles. Ms. Victoria Ferrara, the former managing editor of Microcirculation is no longer at Informa, but has been replaced by Ms. Victoria Sollecito, (current managing editor for Microcirculation: (Victoria.sollecito@informausa.com) (212-520-2753). In my conversations with Ms. Sollecito, she is aware of and enthusiastic about developing the CME ‘package’ which can be used to generate CME credits for reading and reviewing journal articles in Microcirculation.

An example of a typical CME review sheet provided by Informa is attached to this document as ‘appendix 1.pdf’. This mechanism would require authors to provide a series of CME questions for the article (several examples can be provided). After reading clinically relevant articles (even basic science MCS articles could be considered to have clinical relevance), clinicians would FAX this form into the LSUHSC-S CME office with credit card information, or snail mail with a check. On reviewing the forms, the office at LSUHSC-S will send out CME credits to the clinicians. A similar mechanism is available to clinicians for reviewing manuscripts (and might serve as a sort of enticement to participate). The revenues generated by this mechanism would be divided equitably (to be decided by council: as a non-profit organization funds should be used for more society functions).

Readers and reviewers of the Microcirculation journal could take advantage of two new opportunities to earn CME credit.

CME Credit for Microcirculation Readers

If approved by Council, journal articles in Microcirculation could feature CME exams that will accompany one to two manuscripts in each issue. Each exam will consist of 2–4 multiple-choice questions. Subscribers of the journals can take the exams online (free of charge) and receive up to 1 AMA *Physicians Recognition Award* (PRA) category 1 credit. Non-subscribers would be charged \$25 per exam. Those who complete the online exam can immediately print a certificate documenting the credit received.

Details on where to access the online exams are provided with the print version of the exams. **The mission of the Readers program is to provide physician readers of Microcirculation with the ability to advance their**

understanding of bases of patient care and increase their knowledge of clinical medicine as they pertain to the field of microcirculation and vascular biology.

CME Credit for Microcirculation Reviewers

Offering CME credit for peer review is a relatively new concept. Clinicians who act as reviewers for the journal could also be allowed to receive up to 3 AMA PRA category 1 credits. A link to the description of the PRA is found at: <http://www.ama-assn.org/ama1/pub/upload/mm/455/pr2006.pdf>.

After reviewing a manuscript, reviewers would go to a Microcirculation webpage and print out a certificate indicating the credit received (the number of credits received is based on the number of hours, 1–3, it took to complete the review). Reviewers could receive a maximum of 15 credits per year through this method of CME.

While this form of CME represents a very strong incentive for clinicians, it could require significant oversight to prevent rushed or superficial reviews. Similarly, this could also be avoided by prudent selection of clinical reviewers. The program could be free of charge to reviewers or have a modest charge since PRA credits are considered desirable.

Among other journals with this program are Journal of the American Medical Association, The New England Journal of Medicine, Academic Emergency Medicine, and Annals of Internal Medicine. NEJM began providing free CME credit for peer reviewers in January 2004.

Proposal: What we need is for Council to approve in principle, *the idea of offering CME credits for different forms of participation in the MCS*. The mechanism to distribute these credits (through the LSUHSC-S CME office) is now in place.

If there is trepidation about this proposal, it is important to note that each category of CME credit can be considered individually. We do not need to have a global approval for each issue. I recommend that Council approve CME *in principle*, pending final approval from the Managing and Supervising Editors who I will work with to coordinate the CME process.

Steve Alexander, PhD is a member of the Development Committee of MCS and is also a member of the LSUHSC-S CME committee. Links to the LSUHSC-S CME site are found on the website:

<http://www.medcom.lsuhs-s.edu/cme/MissionStmt.cfm>

Contacts for the CME committee (besides Steve Alexander) include:

| | | |
|---|--|---|
| Ms. Gail A. Harris Coordinator 1501 Kings Hwy. Shreveport, LA 71130-3932 Office: (318) 675-4721 Fax: (318) 675-4728 E-mail: gsameu@lsuhsc.edu | Shirley L. Wilson Assistant Coordinator 1501 Kings Hwy. Shreveport, LA 71130-3932 Office: (318) 675-7565 Fax: (318) 675-5151 E-mail: swilso@lsuhsc.edu | Debbie McEachern Administrative Secretary 1501 Kings Hwy. Shreveport, LA 71130-3932 Office: (318) 675-4629 Fax: (318)675-4630 E-mail: dmceac@lsuhsc.edu |
|---|--|---|

Treasurer Report for The Microcirculatory Society April 5, 2008

Submitted by Terrence E. Sweeney, Treasurer

Net Worth, April 4, 2008

(changes in value are relative to April 28, 2007 Treasurer Report values)

Total Holdings \$271,356.74

Summary of Holdings

| | | |
|-----------------------------------|---------------------|-----------------------------------|
| Vanguard Account | \$56,764.42 | (decrease of \$77.28) |
| M&I Bank CD | \$98,721.06 | (increase of \$3,397.59) |
| Penn Security Checking | \$115,865.90 | (decrease of \$80,332.14) |
| 8th World Congress Paypal Acct. | \$5.36 | (trial account for registration) |
| TFCU checking (Molly Frame) | \$0 | (decrease of \$4910.05) |
| 8th World Congress Checking Acct. | <u>\$0</u> | (decrease of \$15530.05*) |
| Total Holdings | \$271,356.74 | (decrease of \$97,451.93*) |

* 8th World Congress Checking Acct. holdings not reported in 2007 Treasurer Report. Consequently, the total decrease in holdings from 2007 that is reported above (\$97,451.93) reflects the true change from MCS total holdings on April 28, 2007 (\$353,278.62 that was reported, plus \$15,530.05 of unreported 8WC Checking Acct. holdings). All accounts have now been consolidated. The \$271,356.74 April 4, 2008 holdings reported above represent the actual total assets of the MCS on that day.

Microcirculation

The Official Journal of the Microcirculatory Society, Inc.

William F. Jackson, Ph.D.
Editor-In-Chief

2007 Editorial Office Report

- **Submissions** (see Tables below)
- **Impact Factor** (see Table below)
- **Special Topic Issues** (see List below)
- **Journal Related Awards** (2003-2007)
 - *Wiederhelm Award* – Article

Ujiie M, Dickstein DL, Carlow DA, Jefferies WA.

Blood-brain barrier permeability precedes senile plaque formation in an Alzheimer disease model.
MICROCIRCULATION 10 (6): 463-470, DEC 2003 – 30 citations.

- *Gerritsen Award* – Review Article

Salcedo R, Oppenheim JJ .

Role of chemokines in angiogenesis: CXCL12/SDF-1 and CXCR4 interaction, a key regulator of endothelial cell responses.

MICROCIRCULATION 10 (3-4): 359-370, JUL 2003 – 66 citations

- **Other News**
 - Accepted manuscripts now appear in iFirst (e-pub before print). This has substantially reduced the time between appearance of the print publication and citation in PubMed.

Microcirculation

Editorial Office Report 2007-2008 (YTD)

Manuscript Submissions:

| Year | Number Submitted | Number Accepted (%) |
|-------------------|------------------|-----------------------|
| 1999 | 50 | 21 (42%) |
| 2000 | 68 | 35 (51%) |
| 2001 | 76 | 32 (42%) |
| 2002 | 101 | 57 (56%) |
| 2003 | 82 | 31 (38%) |
| 2004 | 85 | 43 (51%) |
| 2005 | 101 | 42(41.5%) |
| 2006 | 129 | 60 (46.51%) |
| 2007 | 164 | 43/93 (46.24%) |
| 2008 (YTD) | 36 | 3/8 (37.50%) |

| Region | 1993-1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| U.S. and Canada | 253 (77%) | 45 (66%) | 48 (63%) | 60 (60%) | 45 (55%) | 56 (66%) | 51 (50%) | 61 (47%) | 69 (42%) |
| Other | 76 | 23 | 28 | 41 | 37 | 29 | 50 | 68 | 95 |
| Total | 329 | 68 | 76 | 101 | 82 | 85 | 101 | 129 | 164 |

Manuscript Turnover Time 2008 (YTD)

| | Mean Time (days) |
|-----------------|------------------|
| Decision | 11 |

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------------|-------------|------|------------|------|------|------|------|
| Time to decision (days) | 48 | 54 | 39 | 51 | 41 | 32 | 28 |
| | 2006 | 2007 | 2008 (YTD) | | | | |
| Time to decision (days) | 26 | 15 | 11 | | | | |

Time to appearance in iFirst = 134.78 days (average for manuscripts currently in iFirst)

Microcirculation Impact Factors 1999-2006:

| Year | Impact Factor | Year | Impact Factor |
|------|---------------|-------------|---------------|
| 1999 | 2.250 | 2003 | 2.911 |
| 2000 | 2.667 | 2004 | 3.301 |
| 2001 | 2.306 | 2005 | 3.495 |
| 2002 | 2.125 | 2006 | 2.405 |

Rank:

HEMATOLOGY – 31 of 61

PERIPHERAL VASCULAR DISEASE – 23 of 52

Our Competition in 2006:

Microvascular Research – 2.477↑

Journal of Vascular Research - 2.505↓

Journal of Physiology – 4.407↑

Am. J. Physiol. Heart and Circulation – 3.724↑

Circulation Research – 9.854↑

Journal of Leukocyte Biology – 4.572↓

Special Topic Issues:

Ronald J Korthuis, Ph.D. and Geert W. Schmid-Schönbein, Ph.D.

Microcirculation and Chronic Venous Insufficiency

Microcirculation 7(6, Part 2), 2000

F. William Luscinikas, Ph.D.

Endothelial Cell Junctions Biology

Microcirculation 8(3): 2001

Joseph N. Benoit, Ph.D.

Gene Transfer to the Vasculature

Microcirculation 8(6): 2001

Julian H. Lombard, Ph.D.

Adaptation of the Microcirculation to Hypertension

Microcirculation 9(4): 2002

Mary E. Gerritsen, Ph.D.

Angiogenesis: The Mechanism(s) of Vascular Lumen Formation and Arteriogenesis

Microcirculation 10(1): 2002

Klaus F. Ley, M.D.

Chemokines and Tissue Engineering

Microcirculation 10(3 & 4): 2002

Robert P. Hebbel, M.D.

Microcirculatory Abnormalities in Sickle Cell Disease

Microcirculation 11(2): 2004

Steven S. Segal, Ph.D. and William F. Jackson, Ph.D.

50th Anniversary Commemorative Issue

Microcirculation 12(1): 2005

Rolando Rumbaut, M.D., Ph.D.

Platelet Endothelial Interactions

Microcirculation 12 (3): 2005

Geoffrey W. Payne, Ph.D. & Shawn E. Bearden, Ph.D.

Aging and the Microcirculation

Microcirculation 13(4): 2006

Mary Townsley, Ph.D.

TRP channels and the Pulmonary Microcirculation

Microcirculation 13(8): 2006

William F. Jackson, Ph.D.

Retinal Microcirculation in Health and Disease

Microcirculation 14(1): 2007

Jefferson Frisbee and David Stepp
Vascular Dysfunction in Obesity and Insulin Resistance
Microcirculation 14(4-5): 2007

Special Issues in Preparation:

Daniel A. Beard, Jefferson C. Frisbee, Axel R. Pries, Timothy W. Secomb, Nicolas P. Smith
Theoretical Modeling of the Microcirculation
Microcirculation 15: 2008

Klaus Ley

Cell adhesion under flow

Ronen Alon: Human lymphocyte adhesion on molecular substrates in flow chambers

Michael Lawrence: Human neutrophils on molecular substrates in flow chambers

Klaus Ley: Mouse neutrophils and monocytes in vivo and in whole blood flow chambers

Myron Cybulsky: Human monocyte arrest on molecular substrates in flow chambers

Scott Simon: Human neutrophil adhesion on endothelial cells in flow chambers

Bill Luscinskas: Human monocyte and neutrophil adhesion to and transmigration through endothelial cells in flow chambers

Dhananjay K. Kaul: Sickle red cell adhesion in vivo and in vitro

Jan Sixma: Platelet adhesion under flow in vitro

Chris Weber: Platelet-mediated enhancement of monocyte adhesion in vitro

Steffen Massberg: Platelet-mediated enhancement of monocyte adhesion in vivo

Microcirculation 16: 2008

Historical Committee Report – 2008

The following is a summary of the activities of the Historical Committee during the past year. Since last year, we have provided to the National Library of Medicine with brief descriptions of each of the 44 old, original 16mm microcirculatory films archived in 2006 in the NLM's Historical Film Collection where they have been or will be copied to video tape and/or DVDs. These copies are available for loan by contacting the NLM. Ultimately, the NLM plans to have them accessible "on line". Prior to sending the films to the NLM, copies were made on DVDs which will be archived in April, 2008 in the Zweifach Library, UCSD along with some additional movie and video material whose dates of production are less than the 30 year criterion of the NLM for historical films/videos.. It is suggested that the UCSD Library make copies available for loan to the membership. A list of the films now archived at the NLM and UCSD on behalf of the Microcirculatory Society and myself is attached.

The original audio tape recording of the 1st Microcirculatory Conference in 1955 together with a CD copy also will be archived in the Zweifach Library in April 2008. Again, it is suggested that loan copies be made available to the membership.

Finally, a brief history of The Microcirculatory Society, Inc. has been written (copy attached) and will be transmitted in April to the webmaster for inclusion on the web site as well as a 2 ½ min video clip color images of the microcirculation in the mesentery in real time and slow motion, lung, and kidney.

Respectfully submitted for the Committee,

Robert S. McCuskey, Chair
Historical Committee

Attachments*: 1. List of Microcirculation Films and Videos archived on DVD in the
Zweifach Library, UCSD
2. Brief history of The Microcirculatory Society, Inc.

*Located at the end of this Newsletter

Membership Committee Report

Since 05/2007 till today we accepted applications and voted for new members in following categories:

Regular membership - 10 persons

Student - 4

Associate - 1

Also we confirmed 2 transfers to regular membership category for existing MSC members.

Also Committee members prepared and submitted to Council new edition of Membership Committee section in MCS Manual.

All list of new members you can find below. Please let me know if you need any other info from us.

Thank you,

Anatoliy A. Gashev, M.D. Ph.D.

MCS Membership Committee Chair,

| | | | |
|---------------|------------|---------------------|--|
| Rattigan | Stephen | Regular | S.Rattigan@utas.edu.au |
| Kalogeris | Theodore | Regular | kalogerist@health.missouri.edu |
| Sweazea | Karen | Associate | ksweazea@salud.unm.edu |
| Dixon | J. Brandon | Regular | jbrandondixon@gmail.com |
| Bender | Shawn | Regular | benders@missouri.edu |
| Labinskyy | Nazar | Regular | nazar_labinskyy@nymc.edu |
| Boerman | Erika | Student | boermane@msu.edu |
| Shi | Xiaorui | Regular | shix@ohsu.edu |
| Kanagy | Nancy | Regular | nkanagy@salud.unm.edu |
| Uddin | Sardar | Student | sardarzia@gmail.com |
| Vejandla | Himani | Student | hvejandl@mix.wvu.edu |
| Wu | Fan | Transfer to Regular | woofan78@gmail.com |
| Foskett | Andrea | Student | amfoskett@medicine.tamhsc.edu |
| Tsoukias | Nikolaos | Regular | tsoukias@fiu.edu |
| Mustafa | Jamal | Regular | smustafa@hsc.wvu.edu |
| Tharakan | Binu | Regular | btharakan@yahoo.com |
| Wojciechowski | Joel | Transfer to Regular | woj1@hotmail.com |

Nominations Committee Report - 2008

For the nominations: There were a total of 10 nominees for President, 2 for Treasurer, and 13 for council. Those with the highest number of nominations (usually 2) were contacted first with respect to their willingness to run. If an invitation was declined, the person with the next highest number was contacted. The Nominating committee was requested to provide nominations as well.

A total of 104 members of the MCS participated in the election. Of these, 4 were faxed, 2 were sent through US Mail, and the rest were submitted electronically. It should be noted that it took several E-mail reminders to the membership to get them to vote. Each reminder resulted in a flurry of activity which lasted about 36 hours. Simply putting the information on the Web Site or in the Newsletter does not get the attention of the membership. The election was very close (with the exception of Treasurer as there was only one candidate) so the membership should be informed that their votes really do count.

Results of the election:

| | |
|------------------|--------------------------------------|
| President-Elect: | William Jackson |
| Treasurer: | Terrence Sweeney |
| Councillors: | Judy Muller-Delp Hans H. Dietrich |

If you have any questions, please let me know.

Respectively Submitted,

Mary L. Ellsworth, Ph.D.
Chairman, Nominations Committee

MCS Publications Committee Report, 2008

Committee members: Matt Boegehold (Chairman), Neil Granger, Roger Adamson, Steve Segal, Jeff Frisbee.

This past year (2007-2008), the Publications Committee addressed the following issues:

1. At the April 2007 meeting of the MCS Executive Council in Washington D.C., Bill Jackson, Editor-in-Chief of *Microcirculation*, recommended that the Society consider increasing the number of journal issues per year, in part to handle a backlog of accepted manuscripts waiting for publication. This issue was discussed but no decisions were made.

In July 2007, Informa proposed increasing the frequency of our journal from 8 to 10 issues a year, beginning in 2008, and sought the approval of the Microcirculatory Society. Because it was not clear at that time how such a change would impact the journal's pricing structure, the Society and publisher agreed after some consideration to think about a possible target date of 2009 instead of 2008, which would also give all parties more time to deliberate on this issue.

2. The Publications Committee also approved the proposed recipients of this year's Publication Awards:

The Gerritsen Award (most cited review article over previous 5 years) should go to: Salcedo R, Oppenheim JJ. Role of chemokines in angiogenesis: CXCL12/SDF-1 and CXCR4 interaction, a key regulator of endothelial cell responses. *Microcirculation* 10 (3-4):359-370, 2003. This article received 66 citations for the period from 2003-2007.

The Wiederhelm Award (most cited original research article over previous 5 years) should go to: Ujiie M, Dickstein DL, Carlow DA, Jefferies WA. Blood-brain barrier permeability precedes senile plaque formation in an Alzheimer disease model. *Microcirculation* 10 (6): 463-470, 2003. This article received 30 citations for the period from 2003-2007.

Respectfully Submitted,
Matt Boegehold
Center for Interdisciplinary Research in Cardiovascular Sciences
West Virginia University School of Medicine
Phone: (304) 293-5240
Email: mboegehold@hsc.wvu.edu

**MCS Web Site Summary Report
(April 22, 2007 to April 1, 2008)
Dr. Robert W. Gore**

I. Major Projects completed this year, 2007-2008:

- A. Begin the transfer of the management of the Membership Directory to Dr. Sweeney and complete the transfer of all on-line and secure, electronic credit card processing from Dr. Frame's office to Dr. Sweeney's office.**
- B. Transfer the Web Site to the University of Mississippi with the help of Dr. Hester.**

II. Summary of Web Server Statistics for April, 2007 – April, 2008:

See the complete data set for server statistics for 2007-2008 on the MCS web site at:
<http://microcirc.org/ABOUT/about.html>

General Summary: April 22, 2007-April 1, 2008:

Successful requests: 227,484

Average successful requests per day: 659

Logfile lines without status code: 1,289

Successful requests for pages: 124,094

Failed requests: 41,537

Distinct files served: 1,125

Distinct hosts served: 17,200

Corrupt logfile lines: 216

Data transferred: 9.710 Gigabytes

Average data transferred per day: 28.829 Mbytes

III. Plans for Next Year (2008-2009):

Complete the mirror site with the help of Dr. Hester. This is closer to completion than it would appear. I would like to have this done no later than October 1, 2008. It is my intension to go on Emeritus Professor Status at the University of Arizona at the end of this year, so it is important that we make the transition in 2008.

Submitted to Dr. Molly Frame, MCS Secretary

By Dr. Robert W. Gore, April 1, 2008

MCS Awardees Honored at MCS Banquet Lunch

Professor Geert Schmid-Schoenbein, recipient of the 2008 Eugene M Landis Award, with President Cynthia Meininger.



Ryon Bateman, 2007 August Krogh Young Investigator Awardee.



August Krogh Post-doctoral Fellow Travel Awardees: Fabiola Sanchez and Karen Sweazea with President Cynthia Meininger.



Benjamin Zweifach Graduate Student Travel Awardees: (in alphabetical order) Erica Boerman, Elisa Ferrante, Graham Fraser, Melissa Georgi, Madelyn Hanson, Benjamin Hodnett, Emmanouil Karagiannis, William Nugent, Bjorn Song, Ronen Sumagin, Cassandra Uchida, Andrew Yannaccone, with President Cynthia Meininger. Special Thanks to Professor Roland Pittman (2nd from the left in the back!) for standing in for one of his students, William, whose flight was delayed.

Not available for a picture: Gerritsen Award recipients Rosalba Salcedo and Joost J. Oppenheim, and Wiederhelm Award recipients Maki Ujiie, Dara L. Dickstein, Douglas A. Carlow. Wilfred A. Jefferies.

An important note about MCS awards: The Awards Committee is updating the Award descriptions. Check the web site later this summer for these updates. When in doubt of applying for an award, APPLY. Several MCS awards were not awarded last year – nobody applied.

MCS Council Strategic Planning Meeting
August 16, 2007
Miller Room, Milwaukee Hilton Hotel

Present: Cindy Meininger, Terry Sweeney, Tim Secomb, Steve Segal, Richard Price, Dave Zawieja, Ric Rivers, Steve Alexander. Guests: Robert Hester, Joe Unthank, Dick Slaaf, Bill Jackson.

Journal Discussion:

Costs for the Journal will be increasing from \$18,000 to \$30,000 per year. Contract negotiations will be held in 2008. There was discussion of ways to cover this increase in costs as well as an increase in issues from 8 to 10. For example, page charges could be increased. At \$50 per page, this would generate \$38,400. In addition, additional revenue would cover the costs of open access of articles after one year. We will have to check with the Publisher about these issues. It would also be good to poll the membership about instituting page charges. We could have different charges for members vs. nonmembers. We could also open up Journal subscriptions to other microcirculation organizations. Members of these other societies would have electronic access only to the Journal. This idea has been put forward for members of the British Microcirculation Society. However, a mechanism for payment needs to be established. BMS members could pay on-line with credit cards. Alternatively, some debit system could be set up for the Journal.

Experimental Biology Discussion:

Saturday Functions at Experimental Biology –

- (a) Luncheon, Business Meeting and Awards Presentation (noon – 1:30 pm)

Luncheon to be subsidized by the Society

Nominal fee to be collected to help set the attendance

- (b) President's Symposium (2-4 pm)

Organized around a featured topic

One "big name" speaker followed by talks from abstract submitters

- (c) Morning Workshop (9-11:30 am)

Theme: Bringing It Back to the Whole Animal: Systems Biology of the Microcirculation

Stress what can be done with microcirculation preps/tools – why study these vessels

Caveats: Limitations of tissue sources (issues of scale); translating a technique from the macrocirculation to the microcirculation

Unique characteristics of micro

Topics: Intravital Microscopy; Micropipettes/Microelectrodes in the Living Animal; Quantitative

Molecular Imaging in the Microcirculation; Unique Characteristics of Microvascular Cells

Special Topics Issue of Microcirculatory Techniques:

Papers submitted early after EB (summer 2008)

Submissions could be solicited in the Winter newsletter

Potential Topics: Intravital Microscopy; RBC Labeling/Intravascular Methods; Vascular Permeability/Flow Measurements; Microelectrodes; Network Modeling/Analysis; Morphometry; Vascular Casting

Website Discussion:

There was discussion about including teaching videos on the website. The Historical Film clips assembled by Bob McCuskey could be available on the website. There could also be links to investigators willing to teach specific techniques. Google ads could also be utilized to make people aware of this information. In addition, we could "advertise" through the APS listserv.

MCS Officers, Executive Council, and Committees: 2008-2009*(Updated: 05/24/2008)*

| <u>Title/Position</u> | <u>Person</u> | <u>Term</u> | <u>Telephone</u> | <u>email</u> |
|---------------------------------------|---------------------------------|-------------|-----------------------|--|
| OFFICERS AND EXECUTIVE COUNCIL | | | | |
| President | Steven S. Segal | 2009 | (573) 882-2553 | segalss@health.missouri.edu |
| Past President | Cynthia J. Meininger | 2009 | (254) 742-7037 | cjm@tamu.edu |
| President Elect | William F. Jackson | 2009 | 517-353-5476 | jacks783@msu.edu |
| Secretary | Mary (Molly) Frame | 2009 | (631) 444-2320 | mframe@notes.cc.sunysb.edu |
| Treasurer | Terrence E. Sweeney | 2010 | 570) 941-7623 | sweeneyt1@scranton.edu |
| Councilor | Richard J. Rivers | 2009 | (443) 502-1798 | rrivers3@jhmi.edu |
| Councilor | David C. Zawieja | 2009 | (979) 845-7465 | dcz@tamu.edu |
| Councilor | J. Steven Alexander | 2010 | (318) 675-4151 | jalex@lsuhsc.edu |
| Councilor | Michael A. Hill | 2010 | (573) 884-4601 | hillmi@missouri.edu |
| Councilor | Judy Muller-Delp | 2011 | (304) 293-4559 | jdelp@hsc.wvu.edu |
| Councilor | Hans H. Dietrich | 2011 | (314) 362-3656 | DietrichH@nsurg.wustl.edu |
| AWARDS COMMITTEE | | | | |
| Chair | Norman R. Harris | 2009 | (318) 675-6028 | nharr6@lsuhsc.edu |
| Member | Steven Miller | 2009 | (317) 274-2657 | sjmiller@iupui.edu |
| Member | Thomas C. Skalak | 2010 | (434) 924-0270 | tskalak@virginia.edu |
| Member | Alison Fox-Robichaud | 2010 | (905) 525-9140 x22782 | afoxrob@mcmaster.ca |
| Member | David C. Poole | 2011 | (785) 532-4529 | Poole@vet.k-state.edu |
| Member | Kaushik Parthasarathi | 2011 | (212) 305-6724 | kp257@columbia.edu |
| COMMUNICATIONS COMMITTEE | | | | |
| Chair | Robert L. Hester | 2009 | (601) 984-1816 | rhester@physiology.umsmed.edu |
| Member | Terrence E. Sweeney | 2009 | (570) 941-7623 | sweeneyt1@scranton.edu |
| Member | Mary (Molly) Frame | 2009 | (631) 444-2320 | mframe@notes.cc.sunysb.edu |
| Member | Cynthia J. Meininger | 2010 | (254) 742-7037 | cjm@tamu.edu |
| DEVELOPMENT COMMITTEE | | | | |
| Chair | Joseph L. Unthank | 2010 | (317) 274-7339 | junthank@iupui.edu |
| Member | Brian R. Duling | 2011 | (434) 924-9040 | brd@virginia.edu |
| Member | Thomas L. Smith | 2011 | (336) 716-2093 | tsmith@wfubmc.edu |
| FINANCE COMMITTEE | | | | |
| Chair | Terrence E. Sweeney | 2010 | (570) 941-7623 | sweeneyt1@scranton.edu |
| Member | Paul F. McDonagh | 2010 | (520) 626-2329 | pmcdonag@u.arizona.edu |
| Member | Rolando E. Rumbaut | 2011 | (713) 798-0316 | rumbaut@bcm.tmc.edu |
| HISTORICAL COMMITTEE | | | | |
| Chair | Herbert H. Lipowsky | 2009 | (814) 865-1407 | hhlbio@enr.psu.edu |
| Member | Robert W. Gore | 2011 | (520) 626-6569 | gore@u.arizona.edu |
| Member | Brian R. Duling | 2011 | (434) 924-9040 | brd@virginia.edu |
| LIASON COMMITTEE | | | | |
| Chair | Steven S. Segal | 2011 | (573) 882-2553 | segalss@health.missouri.edu |
| Member | Ronald L. Korthuis | 2009 | (573) 882-8059 | korthuis@health.missouri.edu |
| Member | Timothy W. Secomb (ILC, ESM) | 2009 | (520) 626-4513 | secomb@u.arizona.edu |
| Member | Mary (Molly) Frame | 2010 | (631) 444-2320 | mframe@notes.cc.sunysb.edu |

| | | | | |
|--------|--|------|----------------------|--|
| Member | Gerald A. Meininger (USNC for IUPS) | 2010 | (573) 882-9662 | meininger@missouri.edu |
| Member | Cynthia J. Meininger (ILC) | 2010 | (254) 742-7037 | cjm@tamu.edu |
| Member | Paul Kubes (ILC) | 2011 | (403) 220-8558 | pkubes@ucalgary.ca |
| Member | Makoto Suematsu | 2011 | (011) 81-3-5363-3753 | msuem@sc.itc.keio.ac.jp |
| Member | Michael Hickey | 2011 | (011) 61 3 9594 5519 | michael.hickey@med.monash.edu.au |

LONG-RANGE PLANNING COMMITTEE

| | | | | |
|--------|---------------------------|------|----------------|--|
| Chair | Cynthia J. Meininger | 2018 | (254) 742-7037 | cjm@tamu.edu |
| Member | Timothy W. Secomb | 2017 | (520) 626-4513 | secomb@u.arizona.edu |
| Member | Robert L. Hester | 2016 | (601) 984-1816 | rhester@physiology.umsmed.edu |
| Member | H. Glenn Bohlen | 2015 | (317) 274-8770 | gbohlen@iupui.edu |
| Member | Geert W. Schmid-Schonbein | 2014 | (858) 534-3852 | gwss@bioeng.ucsd.edu |
| Member | Paul F. McDonagh | 2013 | (520) 626-2329 | mcdonag@u.arizona.edu |
| Member | Ingrid H. Sarelius | 2012 | (585) 275-7729 | ingrid_sarelius@urmc.rochester.edu |
| Member | Walter Duran | 2011 | (973) 972-4372 | duran@umdnj.edu |
| Member | Ronald F. Tuma | 2010 | (215) 707-3248 | ronald.tuma@temple.edu |
| Member | Bruce Klitzman | 2009 | (919) 684-6686 | klitz@duke.edu |

MEMBERSHIP COMMITTEE

| | | | | |
|--------|------------------|------|-----------------------|--|
| Chair | Anatoliy Gashev | 2009 | (979) 845-7481 | gashev@tamu.edu |
| Member | Edward Damiano | 2009 | (617) 353-9493 | edamiano@bu.edu |
| Member | David Bates | 2010 | (011) 44 117 928 7823 | dave.bates@bris.ac.uk |
| Member | Cuihua Zhang | 2010 | (573) 882-2427 | zhangcu@missouri.edu |
| Member | Randy S. Sprague | 2011 | (314) 577-8498 | spraguer@slu.edu |

NOMINATING COMMITTEE

| | | | | |
|--------|-----------------------|------|-----------------------|--|
| Chair | Mary Ellsworth | 2009 | (314) 977-6418 | ellsworth@slu.edu |
| Member | Christopher Ellis | 2009 | (519) 661-3100 | chris.ellis@uwo.ca |
| Member | Timothy R. Nurkiewicz | 2010 | (304) 293-7328 | tnurkiewicz@hsc.wvu.edu |
| Member | Coral Murrant | 2010 | (519) 824-4120 X56173 | cmurrant@uoguelph.ca |
| Member | J. Steven Alexander | 2011 | (318) 675-4151 | jalex@lsuhsc.edu |

PROGRAM COMMITTEE

| | | | | |
|-----------------------|---------------------|------|-----------------------|--|
| Chair | Leslie Ritter | 2010 | (520) 626-3218 | lritter@nursing.arizona.edu |
| Representative to APS | Robert L. Hester | 2009 | (601) 984-1816 | rhester@physiology.umsmed.edu |
| Member | Karel Tynl | 2009 | (519) 685-8300 x55076 | ktynl@lhsc.on.ca |
| Member | Zoltan Ungvari | 2010 | (914) 594-4085 | zoltan_ungvari@nymc.edu |
| Member | Luis Martinez-Lemus | 2010 | (573) 882-3244 | martinezlemusl@missouri.edu |
| Member | Donald G. Welsh | 2011 | (403) 210-3819 | dwelsh@ucalgary.ca |

PUBLICATIONS COMMITTEE

| | | | | |
|--------|---------------------------|------|----------------|--|
| Chair | D. Neil Granger | 2011 | (318) 675-6011 | dgrang@lsuhsc.edu |
| Member | Roger Adamson | 2009 | (530) 752-2180 | rhadamson@ucdavis.edu |
| Member | Jefferson Frisbee | 2010 | (304) 293-5495 | jfrisbee@hsc.wvu.edu |
| Member | Michael J. Davis | 2011 | (573) 884-5181 | davismj@health.missouri.edu |
| Member | Geert W. Schmid-Schonbein | 2011 | (858) 534-3852 | gwss@bioeng.ucsd.edu |

25th Conference of the European Society for Microcirculation

Budapest, Hungary, August 26-29, 2008.



The Meeting is just around the corner. Please view the full program using this link:

<http://www.eumicrocirculation2008.hu/?gr=7>





First Announcement:
Fall 2009 Meeting of
THE MICROCIRCULATORY SOCIETY, INC.

Theme:

**FRONTIERS IN MICROCIRCULATION:
Control Processes and Clinical Applications**

Date:

16-17 October 2009

Location:

The University of Missouri - Columbia

Organizing Committee:

Local:

SS Segal (Chair)

MJ Davis

MA Hill

VH Huxley

RJ Korthuis

GA Meininger

C Zhang

Consulting:

MD Frame

A Gashev

WF Jackson

TW Secomb

(OVER for details)

Frontiers in Microcirculation: Control Processes and Clinical Applications

16-17 October 2009

The University of Missouri - Columbia

Goal: To explore and advance the frontiers of research in microcirculation through identifying and integrating regulatory processes underlying microvascular physiology in light of advancing clinical practice.

Venue: The meeting will be held in The Alumni Center, which is located in the heart of the MU campus. The center has a large lecture room, an open venue for posters and dining, attractive quiet areas for informal discussion, and is in close proximity to the microcirculation laboratories at MU. Breakfasts and lunches will be served at the same location. Arrangements for dinner (banquet) are being made off campus. Columbia is located ~100 miles west of St. Louis and ~125 miles east of Kansas City. Because flights into Columbia are limited, travelers are advised to fly to either city and take a shuttle (MoX) or rent a car for the ~2-hour drive.

The Osage and Missouri Indians roamed the Columbia area and the Lewis and Clark Expedition passed within a few miles of the city on the Missouri River 1803. In 1806, Daniel Boone established a salt lick northwest of Columbia where settlers could preserve meat for their Westward journey. Education has played a vital role in Columbia's development. The University of Missouri, Columbia's largest employer, was founded in 1839 and represents the birth of public higher education west of the Mississippi River. The 1,340-acre campus is the state's flagship university, combining the resources of a comprehensive research institution and a land-grant university. It is one of 5 institutions in the USA having Engineering, Law, Medicine, and Veterinary Medicine on one campus. A new recreational facility and natatorium are located centrally for easy access. The University has an 18-hole golf course and is close to other championship/challenging courses.

From spring through fall, farmers' markets offer abundant local produce and color. Natural features of Columbia include its city parks and its proximity to the Missouri River and Katy Trail State Park. The park, built on the former corridor of the Missouri-Kansas-Texas (MKT) Railroad (better known as the Katy), is now a hiking and bicycling trail that runs 225 miles across the state, with several trailheads near the University. In the fall, football games dominate campus activity while the entire region is colored with the rich reds and oranges of sugar maple, sumac and bittersweet. Columbia is frequently ranked as a top place to live, raise a family, and to retire. Temperatures (Fahrenheit) in mid-October are in the mid-60's and low 70's during the day with lows in the 40s and 50s at night. Occasional rain and wind are always possible!

Format: Two full days (Friday and Saturday) are devoted to scientific sessions designed to maximize interactions among participants by avoiding simultaneous presentations and limiting the number of attendees to 200. A reception with wine and food will be held on Thursday (10/15) afternoon-evening prior to the meeting. A continental breakfast will be served on the morning of departure (Sunday, 10/18).

The meeting is organized into four themes that broadly encompass 'classic' areas of research in microcirculation, the signaling processes by which they occur, and how these processes influence or are altered in pathophysiological states. These themes include: (1) Plasticity, (2) Inflammation, (3) Cell Signaling, and (4) Intercellular Communication. A detailed list of topics will be circulated at a later date.

Each day includes a 2-hour morning and afternoon symposium. Each symposium is followed by a complementary poster session with coffee and snacks. Extended lunch breaks allow time for informal discussion. Posters will be on display the entire meeting with authors presenting at designated times.

For symposia, each of the 4 themes will be introduced by keynote speakers representing basic science and clinical practice. Keynote presentations will be followed by oral presentations of abstracts selected from those submitted. Ensuing poster sessions will highlight topically relevant posters with authors' presentation times scheduled accordingly. Laboratory workshops can be organized with sufficient interest.

Accommodations: Conference rates in nearby hotels are typically ~\$100/night including taxes. Bordering campus are several B&B's for those desiring something different. The campus meeting site and conference hotels are located within walking distance or a short commute to the bustling Columbia downtown shopping, entertainment and restaurant district. Shuttles will be available to facilitate access to the meeting.

Further details will be posted at the MCS website: <http://microcirc.org/>



NIH Grant Review Call for Reviewers

The quality of NIH's peer review process depends mightily on the quality of the reviewers serving on study sections.

Are you interested in helping to insure the quality of this process?

Are you interested in serving as a Reviewer for the NIH?

The NIH is seeking reviewers who:

are experienced senior scientists,

have received major peer-reviewed research support either from NIH or an equivalent agency,

understand the grant review process, and

are willing to serve as study section members.

If you would like to be involved in this process, contact Cindy Meininger, MCS Past-President (cjm@tamu.edu), and your interest will be forwarded to Diane Stassi, Chair of the Center for Scientific Review Registry of Volunteer Reviewers, Office of the Director, NIH.

A Brief History of The Microcirculatory Society

Robert S. McCuskey
University of Arizona

The Microcirculatory Society had its origin in 1953 when Edward H. Bloch and John W. Irwin, distressed by the lack of effective communication among investigators studying the microcirculation and by the dispersion of publications and presentations among different journals and societies, formed a committee to organize a conference on the microcirculation. In a letter to prospective Conference participants, Bloch wrote, "...The purpose of these conferences is to bring together the various disciplines used to study the structure and function of small blood vessels. ..." As a result of their efforts, the First Microcirculatory Conference was sponsored by the American Association of Anatomists and held concurrently with the Association's meeting in Galveston, TX on April 8 and 9, 1954. The topic of this First Conference was "Technics for the Microscopic Study of Small Blood Vessels and Blood Flow." Ten papers were presented by senior investigators who had developed the various methods. These included E.R. Clark (rabbit ear chamber), R.L. Webb and P.A. Nicoll (bat wing), M.H. Knisely (quartz-rod), B.W. Zweifach (mesentery), B.R. Lutz and G.P. Fulton (hamster cheek pouch), H.S. Forbes (cerebral cortex), D. Minard (lucite calvarium), J.E. Harvey (pia), C.L. Loeser (fluorescence microscopy), and E.H. Bloch (bulbar conjunctiva). The success of this conference resulted in agreement to meet annually; at the business meeting of the Second Conference, the decision was made to incorporate as a charitable organization under the title, "Microcirculatory Conference." During the next ten years the annual Conference continued to meet, not only with the American Association of Anatomists, but also with the American Heart Association, FASEB, and independently. However, beginning in 1965 with the 13th Microcirculatory Conference, the meeting was held on the two days preceding the meeting of FASEB – usually in Atlantic City, NJ . The Conference format was reconstituted to the status of a Society and The Microcirculatory Society, Inc was formed which in 1984 forged a firm association with FASEB as a guest society of the American Physiological Society which continues today.

During the early years, the proceedings of the Conferences were published as monographs. However, by the mid-1960s there was a growing desire by the membership for the Society to have its own journal. In 1968, George P. Fulton, David Shepro, and Benjamin W. Zweifach founded *Microvascular Research* with David Shepro serving as Editor-in-Chief, and, for the first time, there was a journal devoted to the publication of papers focused on the microcirculation. For a variety of reasons, this journal was never adopted as the official journal of the Microcirculatory Society. In 1994, the Society decided to found its own official journal, *Microcirculation*, with Mary E. Gerritsen as Editor-in Chief. Both journal continue today and serve as conduits for the publication of microvascular research.

Microcirculation Films on DVD archived at UCSD Library - April 2008

| | | | | |
|--------------|--|--|-------------|--|
| | Robert S. McCuskey | | | |
| Orig. | Title | Author | Date | |
| | Disc 1 | | | |
| NLM | Subcutaneous Blood Flow in Rat: Active Vasomotion | Richard L. Webb Paul A. Nicol | 1948 | |
| NLM | Dynamics of Tumor Embolism Part 1 and Part 2 | Sumner Wood | 1967 | |
| NLM | Effects of Certain Chemicals and Drugs Upon Living Mesenteric Lymphatics | Richard L. Webb | 1947 | |
| NLM | Dynamic Pathogenesis of Viral Hepatitis MHV-3 | E.H. Bloch K.S. Warren M. Rosenthal | 1974 | |
| NLM | Dynamics of Transcapillary Exchange | Edward H. Bloch | 1966 | |
| NLM | Sequential Quantitative Measurements in Microseconds of Living Tissue | Edward H. Bloch Robert S. McCuskey | 1966 | |
| | Dynamic Histology of Organs <i>in situ</i> | Edward H. Bloch | 1974 | |
| | Disc 2 | | | |
| | Microscopy of Living Kidney Graphs | Carl F. Oestermeyer | 1975 | |
| NLM | Dynamics of Diapedesis | Edward H. Bloch | 1967 | |
| NLM | Human Bulbar Conjunctiva | Edward H. Bloch | 1965 | |
| NLM | Biodynamics of Phagocytosis: The Lung and Carbon | Edward H. Bloch | 1972 | |
| | Bulbar Conjunctiva: Method of Observation and Cine Recording | Edward H. Bloch | 1965 | |
| NLM | Pressure-Flow Relationships in the Microvascular System | Edward H. Bloch Robert S. McCuskey Gerald Tucker Joyce Mencin | 1961 | |

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|-----|--|--------------------|--|------|
| | Disc 3 | | | |
| NLM | <i>In vivo</i> Microscopy of the Liver | R.S. McCuskey | | 1998 |
| | Microscopy of the Living Spleen | R.S. McCuskey | | 1975 |
| | | P.A. McCuskey | | |
| | | | | |
| NLM | The Living Pancreas | R.S. McCuskey | | 1967 |
| | | T.M. Chapman | | |
| | | | | |
| NLM | The Living Pancreas - Microcirculation | R.S. McCuskey | | 1967 |
| | | T.M. Chapman | | |
| | | | | |
| NLM | Hepatic Microvascular Responses to Endotoxemia and Sepsis | R.S. McCuskey | | 1985 |
| | | | | |
| | | | | |
| NLM | S. Mansoni in Transparent Chambers in Mice and Hamsters | E.H. Bloch | | 1972 |
| | | | | |
| | | | | |
| | Hepatic Microcirculation | R.S. McCuskey | | 1980 |
| | | | | |
| | Hepatic Microcirculation and Phagocytosis | Robert S. McCuskey | | 1980 |
| | | | | |
| | The Microcirculation | Robert S. McCuskey | | 1970 |
| | | | | |
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| | Disc 4 | | | |
| NLM | <i>In Vivo</i> Microscopy of Bone Marrow Grafts in the Hamster Cheek Pouch | Robert S. McCuskey | | 1973 |
| | | Patricia A. Reed | | |
| | | Howard A. Meineke | | |
| | | | | |
| NLM | Microscopic Anatomy of the Living Pancreas | Robert S. McCuskey | | 1968 |
| | | Thomas M. Chapman | | |
| | | | | |
| NLM | Biodynamics of the Liver-Phagocytosis of Particulates | Robert S. McCuskey | | 1977 |
| | | Edward H. Bloch | | |
| | | | | |
| NLM | Microscopy of Living Organs <i>In Situ</i> | Robert S. McCuskey | | 1969 |
| | | | | |
| | Role of Endotoxin in the Hepatic Microvascular Response to Ethanol | Robert S. McCuskey | | 1994 |
| | | | | |
| | KC Symposium 1990 | Robert S. McCuskey | | 1990 |
| | | | | |
| | | | | |
| | Disc 5 | | | |
| | Microscopy of Living Kidney Grafts | Carl Oestermeyer | | 1975 |
| | | | | |
| NLM | Biodynamics of the Liver-Phagocytosis of Particulates | Robert S. McCuskey | | 1977 |
| | | Edward H. Bloch | | |
| | | | | |

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|-----|--|--|------|
| | (Misabeled - Pressure/Flow Histology of Organs) | E.H. Bloch | 1960 |
| NLM | Contractibility of Muscular Vessles in Capillary Bed | Robert Chamber B.W. Zweifach | 1946 |
| NLM | Subcutaneous Blood Flow in the Bat: Vascular Patterns | Richard C. Webb Paul A. Nicoll | 1947 |
| NLM | Control of Small Blood Vessels | George P. Fulton Brenton R. Lutz | 1941 |
| | Disc 6 | | |
| NLM | Pathologic Microcirculation in the Liver | A.M. Rappaport | 1979 |
| | Disc 7 | | |
| NLM | Knowlesi Malaria in Monkeys | Melvin H. Kinisely W.K. Stratman-Thomas Theodore S. Eliot Edward H. Bloch | 1944 |
| | Disc 8 | | |
| NLM | Settling in Frogs Initiated by Deep Anesthesia | Fann Harding Melvin H. Kinisely | 1958 |
| NLM | Micromanipulation Studies of Blood Capillaries in the Frog | Robert Chambers Benjamin W. Zweifach | 1945 |
| NLM | Normal Circulation in the Frog | August Krogh | 1920 |
| NLM | Microcirculation in Chamber in Rabbit Ear - Effects of Temperature | Elliott Clark | 1933 |
| NLM | Blood Circulation Seen Thru Microscope of Chamber in Rabbit's Ear | Elliott Clark Eleanor Clark | 1935 |
| NLM | Effects of Massage on the Circulation of Blood in Small Blood Vessels in the Chamber in Rabbit Ear | Elliott Clark Eleanor Clark | 1935 |
| NLM | Dilation and Contraction of Blood Vessels in Chamber in Rabbit Ear | Elliott Clark Eleanor Clark | 1935 |
| | Disc 9 | | |
| | Hepatic Microcirculatory Dysfunction Following Bile Duct Ligation | Yoshiya Ito Robert S. McCuskey | 2000 |

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| | Microcirculatory Dysfunction During Hepatic Veno-Occlusion Disease | L.D. Deleve Yoshiya Ito Nancy Machen Robert S. McCuskey | 2001 |
| | Effect of Parenchymal Cell Transplantation on the Hepatic Microcirculation | Yoshiya Ito S. Gupta S. Slehria R.S. McCuskey | 2001 |
| | Effect of Immunoglobulin on the Hepatic Microvascular Inflammatory Response During Sepsis | R.S. McCuskey J. Nichida D. McDonald R. Urbaschek B. Urbaschek | 1993 |
| | Disc 10 | | |
| NLM | Wirkung von Endotoxinen und Biogenen Aminen an der Terminalen Strombahn | Bernhard Urbaschek Renate Urbaschek | 1971 |
| NLM | High Speed Cine-Photomicrography of Hemodynamics | Edward H. Bloch | 1960 |
| NLM | Observations in Bone Marrow Tissue <i>in situ</i> | R. Kinosita S. Ohmo H.R. Bierman | 1956 |
| NLM | The Circulation in Living Autografts of Spleen | R.G. Williams | 1950 |
| | Disc 11 | | |
| NLM | Blood Supply of the Auditory Labyrinth | Merle Lawrence | |
| NLM | Effects of Quinine Dihydrochloride on Spinal Capillary Flow | Merle Lawrence | |
| NLM | In Vivo Microscopy of the Liver in Mice Infected with Malaria | Edward H. Bloch | 1973 |
| | Hepatic Microvascular Response to PCA | R.S. McCuskey F. Vonnahme M. Green | 1982 |
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| NLM | S. Mansoni in Transparent Chambers in Mice and Hamsters | Edward H. Bloch | 1979 |
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| NLM | In Vivo Microscopy of Bone Marrow Grafts in the Hamster Cheek Pouch | R.S. McCuskey P.A. McCuskey H.A. Meineke | 1974 |
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| | Hepatic Microcirculatory Disturbances and Oxidation Stress | M. Tsuchiya | |