

The Microcirculatory Society, Inc.

Newsletter

Volume 39, Number 1 – Summer 2011



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Officers

President

Matthew Boegehold, Ph.D.
mboegehold@hsc.wvu.edu

President-elect

Michael Hill, Ph.D.
HillMi@missouri.edu

Secretary

Tara Haas, Ph.D.
thaas@yorku.ca

Treasurer

Rolando Rumbaut, M.D., Ph.D.
rrumbaut@bcm.tmc.edu

A Note from the President

Greetings from the hills of West Virginia!

This long, hot summer will soon be starting to wind down, and I hope it has been a rewarding and productive one for all. It's an honor and a privilege for me to serve as current MCS President, and I hope I can meet your expectations in the coming year as well as our previous presidents have in the past. The bar is set very high indeed!

In the Spring newsletter, our outgoing president David Zawieja noted that we had a superb program at this year's meeting in Washington, particularly the second half of the President's Symposium, which featured short oral communications by students and fellows. Given the success of this format in stimulating some lively, free-wheeling discussion among the audience, we are planning to do it again for next year's meeting in San Diego. This is a great opportunity for trainees to present their work orally and benefit from such interaction, so please encourage your students and postdoctoral fellows to take part, and of course, support it with your attendance.

The minutes of our business meeting in Washington are included in this newsletter, but I'd just like to draw your attention to our vote to increase annual dues for all memberships by \$15, which, with other measures, will help to reverse our trend of deficit spending in recent years. Dues will now be \$25 for Student membership and \$120 for Associate/Full membership. Emeritus status remains free, but those members must pay for the journal. I'd like to thank our members for continuing to recognize the value of belonging to the Society, and for their commitment to its financial health.

I'd also like to take this opportunity to remind our members that the MCS and British Microcirculatory Society (BMS) will be holding a joint meeting next summer, July 4-6, in Oxford. The general theme is "Intra- and Intercellular Signaling in the Microcirculation", and the scientific program will feature a combination of high-profile invited speakers and oral/poster communications from submitted abstracts. For more information, please visit the meeting website at <http://www.microcirc2012.com/>. We hope you can join us for what promises to be an outstanding meeting in a beautiful

venue!

As you know, the Publications Committee recently sent out a survey to all members seeking opinions on the BMS adopting "*Microcirculation*" as their official journal. Thanks to all who took the time to respond. The response was large and overwhelmingly positive, with 95% stating they would be in favor of such an arrangement. In addition to strengthening the bonds between our two societies, other positives would likely include increased readership and possibly an increased journal impact factor. We will keep everyone updated on further developments along these lines. In a related matter, I'd like to thank Jefferson Frisbee, Editor-in-Chief of "*Microcirculation*", for his tireless efforts in helping to strengthen the journal and ensure that it remains responsive to our members' needs and the currently changing landscape of scientific communication. A notable accomplishment this year has been his success in working with our publisher, Wiley-Blackwell, to dramatically reduce the lag time associated with the appearance of accepted articles on PubMed. As always, remember that the best thing we can all do to ensure our journal's continued growth and impact is to submit our best work to "*Microcirculation*".

Finally, we need your help. In any society it can be a challenge keeping track of and communicating with members who are in transition, either professionally or geographically. In this issue, we have included a list of member email addresses that we have found to be incorrect or otherwise invalid. If you are on this list, or have a current email address for someone who is, we would be grateful if you would contact our Membership Director, Ms. Johanna Derda with this new information (jbderda@embarqmail.com).

In closing, I would like to urge each of you to take an active role in the Society this coming year and in the years ahead. In addition to paying dues, please consider running for office, actively recruiting new members, or volunteering your time in other ways. The MCS has a lot to offer its members both professionally and socially, and we can all help to ensure that it continues to do so.

Sincerely,



Matthew A. Boegehold, Ph.D.
President

2011 Treasurer's Report

The Microcirculatory Society, Inc.

submitted by Rolando E. Rumbaut, Treasurer

Net worth, April 8, 2011

(changes in value are relative to April 23, 2010 Treasurer Report values)

Summary of holdings:

Bank of America - checking:	\$ 48,997.00	(N/A: new account)
Bank of America - savings	\$ 90,392.97	(N/A: new account)
M&I Bank Savings	\$ 240,691.15	(N/A: new account)
Vanguard Asset Allocation fund:	\$ 55,490.28	(increase of \$ 6,820.84)
Vanguard Wellington fund:	\$ 23,357.03	(N/A: new account)
Total Holdings:	\$ 458,928.43	(decrease of \$ 33,713.72)

2011 Treasurer's Report Income and Expenses 2010-2011

Total Income: \$ 51,022.65

Total expenses: \$ 92,624.15

Income

Dividend income		1,290.45
Total 2009 Dues Payment		105.00
2010 Dues Payment:		
Check Dues Payment	1,120.00	
Online Dues Payment	6,845.00	
Total 2010 Dues Payment		7,965.00
2011 Dues Payment:		
Check Dues Payment	3,400.00	
Online Dues Payment	20,790.00	
Total 2011 Dues Payment		24,190.00
Interest Income		4,682.20
Meeting Revenue:		
Banquet Ticket Sales	2,790.00	
APS Contribution: EB 2010	10,000.00	
Total Meeting Revenue		12,790.00
Total Income		\$ 51,022.65

Expenses

Legal Expenses-Mass. Compliance		1,253.21
Meeting Expenses:		
Awards & Award related	31,553.01	
Catering	15,419.14	
Other meeting expenses	1,825.30	
Symposium support	12,285.29	
Total Meeting Expenses		61,082.74

Membership Director	3,825.87
Microcirculation subscriptions	18,970.00
Miscellaneous	366.01
Online Transaction Expenses	2,195.32
tax preparation fees	2,281.00
web site development	2,650.00
Total Expenses	\$ 92,624.15
Total Income/Expenses	\$ (41,601.50)

Minutes of the Microcirculatory Society General Business Meeting

Sunday April 10, 2011 Experimental Biology, Washington, DC

- 1) The meeting was called to order at 4:30 p.m. by David Zawieja, President.
- 2) The President indicated that the number of voting members present exceeded the necessary quorum of 40.
- 3) Committee reports were provided
 - a) *Membership - No verbal report provided*
 - b) *Awards – 5 World Congress awards were provided at \$1,000 each.*
 - c) *Nomination - No verbal report provided*
 - d) *Communications - Summary of efforts to expand the MCS presence on Facebook and Wikipedia. Other microcirculatory societies do not seem interested in contributing. Major issue with Wikipedia is that entries are not static, and considerable effort can be "undone" by another individual's editing. The plan is to monitor several primary terms that the society should have input into, and monitor/update those as appropriate. Discussion related to other means of maintaining MCS presence and input into the information Ideas included making use of Linked In memberships; maintaining the material developed for Wikipedia also on our website, and encouraging Wiki to link to our site.*
 - e) *Editors Report - to be sent by email to membership*
 - f) *Publications - 179 abstract submissions this year, down substantially from last year (213); of these, 25 are in APS categories. Next year, programming will try to schedule MCS categories only on Sunday and Monday*
 - g) *MCS representative to IUPS - Gerry Meininger - IUPS 2013; July 21-26th, Birmingham UK -Membership can submit names for plenary/keynote speakers until May to the Meetings and Program Committee; general symposia call will occur in September*
 - h) *Treasurer's Report -New accounts have very low interest rate -Vanguard increased 10%; -Net decrease of holdings by 33K*

Sources of Expenses:

- Paying for Society awards (and additional expenses for World Congress symposia and awards this year)
 - Subsidizing the MCS Luncheon
 - Subsidizing the increased Journal subscription costs
 - Extra legal fees last year to get into compliance with the Massachusetts Secretary of State (Annual reports with updated lists of officers, appointment of Resident Agent)
- **We have a consistent 20-25K deficit per year, which is not sustainable*

David Zawieja:

1. MCS Council proposes an increase in dues by \$10/year for all membership categories. ie. student \$20; Associate/Full \$115; Emeritus remains free but pays \$70 for journal

**Akos Koller: Proposed Friendly Amendment: Increase dues by \$15/year.
2nded and Approved by Membership.**

2. MCS Council proposed to reduce the number of Pappenheimer and Zweifach awards from 10 in each category to 5 each (In last 2 years, PDF award success was 100%; Grad award success ~ 50%).

Membership Discussion related to Travel Awards:

-Strong concern about cutting awards, expressed by multiple members. A primary goal of the MCS is to support young people.

-Concern that the awards remain competitive, and are provided only to those with quality abstracts.

Bill Jackson - Move to table discussion

David Zawieja - Discussion Tabled. Suggestions will be passed to the Awards Committee, who will come up with recommendations consistent with 3 major goals:

1. Supporting young people
2. Competition is involved
3. Fiscal solvency

4) Outgoing Officers were recognized and thanked for their contributions:

Judy Muller-Delp; Secretary

Hans Dietrich; Councilor

Randy Sprague; Councilor

Incoming Officers were welcomed:

Tara Haas; Secretary

Luis Martinez-Lemus; Councilor

Shawn Bearden; Councilor

5) Joint BMS-MCS Meeting in Oxford, England, July 4-6, 2012

Chris Garland gave presentation and updated the planning for the event. Suggestions and comments are welcomed.

6) Other Business

Eliete Bouskela - Presented a plan to promote Rio de Janeiro for the 2018 World Congress, requesting MCS member support for this bid

Axel Pries - New Chair of the Liaison Committee will share the position with Axel and Asian Rep to make transition smoother;

David Zawieja - Council has discussed and is planning to nominate a candidate prior to the Munich meeting

7) David Zawieja turned the gavel over to Matthew Boegehold, as incoming President.

Matthew thanked David, recognizing his contributions to the Society.

Motion to Adjourn, Approved. Meeting adjourned, 5:15 p.m.

Welcome to New MCS Members

Regular Members:

Andreas M Beyer, Medical College of Wisconsin
 Lisa Lesniewski, University of Utah
 Yoichi Niitsu, Daiichi Sankyo Co., Ltd
 Timothy Nurkiewicz, West Virginia University
 Joseph Zacharia, University of Maryland

Associate Members:

Marius Staiculescu, University of Missouri

Student Members:

Cheng-Hung Chen, Idaho State University
 Mary Keith, Georgia Campus- Philadelphia College of
 Osteopathic Medicine

Invalid Email Addresses – Help us stay in contact!

We want to update contact information. If your name or that of someone you know how to contact is on this list, please provide our membership director [Johanna Derda](#) with an updated email address.

NAME			EMAIL		
Moore	Alex	awmn78@mizzou.edu	Minnicozzi	Michael	michael.minnicozzi@spcorp.com
Best	Derek	derek.best@pfizer.com	Kim	Michael	Michael_Kim@vrtx.com
Gute	Dean	dgute@lsumc.edu	Ohhashi	Toshio	ohhashi@sch.md.shinshu-u.ac.jp
Renkin	Eugene	emrenkin@ucdavis.edu	LaCelle	Paul	pll@pharmacol.rochester.edu
Cassot	Francis	fcassot@toulouse.inserm.fr	Kelly	Ralph	ralph.kelly@genzyme.com
Bulkley	Gregory	gbulkley@jhmi.edu	Bateman	Ryon	rbateman@mrl.ubc.ca
Gruionu	Gabriel	ggruionu@iupui.edu	Clements	Richard	rclement@bidmc.harvard.edu
Zou	Hui	hui.zou@ummed.edu	Caicedo	Ricardo	ricairi4@hotmail.com
Junuzovic	Jasna	jjunuzov@uoguelph.ca	Traystman	Richard	richard.traystman@uchsc.edu
Hayes	John	jkh2n@virginia.edu	Adderley	Shaquria	sadderle@slu.edu
Fleming	John	jtflm01@gwise.louisville.edu	Shea	Stephen	sshea2@mac.com
Cohen	Kenneth	kenneth.cohen-1@ksc.nasa.gov	Bentley	Timothy	timothy.bentley@us.army.mil
Zhu	Longkun	lzhu@hsc.wvu.edu	Milekhin	Vitaly	vitaly.milekhin@uni-essen.de
Maricq	Hildegard	maricqh@musc.edu	Mayhan	William	wgmayhan@unmc.edu
Owen	Mary	maryow@pcom.edu	Wagner Jr.	Wiltz	wwagner@iupui.edu
Messmer	Konrad	messmer@icf.med.uni-muenchen.de	Gu	Yuejie	yjgu88@hotmail.com

MCS, Officers and Executive Council, 2011-2012

Title/Position	Person	Term	Telephone
President	Matthew A. Boegehold	2012	304-293-5240
President-elect	Michael A. Hill	2012	573-884-4601
Immediate past-president	David C. Zawieja	2012	254-231-1500
Secretary	Tara L. Haas	2013	416 736 2100 ext77313
Treasurer	Rolando E. Rumbaut	2012	713-798-0316
Councilor	Michael J. Davis	2012	573-884-5181
Councilor	Joseph L. Unthank	2012	317-274-7339
Councilor	Norman R. Harris	2013	318-675-6028
Councilor	Donald G. Welsh	2013	403-210-3819
Councilor	Shawn E. Bearden	2014	208-282-6269
Councilor	Luis A. Martinez-Lemus	2014	573- 884-0436

MCS Standing Committees, 2011-2012

Membership Committee

		Term	Contact info.
Chair	Anatoliy (Tolya) Gashev	2012	979-845-7481
Member	Walter Murfree	2012	504-865-5852
Member	Luis Martinez-Lemus	2013	573-882-3244
Member	Xiaorui Shi	2013	503-494-7149
Member	Timothy R. Nurkiewicz	2014	304-293-7328

Finance Committee

		Term	Contact info.
Chair	Rolando Rumbaut	2012	713-798-0316
Member	Terrence Sweeney	2013	570-941-7623
Member	Trevor R. Cardinal	2013	805-756-6244

Nominating Committee

		Term	Contact info.
Chair	Dwayne N. Jackson	2012	519-661-2111 ext 82815
Member	Travis W. Hein	2013	254-845-3689
Member	Mack H. Wu	2013	916-703-0424

Liaison Committee

		Term	Contact info.
Chair	Matthew A. Boegehold	2012	304-293-5240
Member	Timothy W. Secomb (ILC,ESM)	2012	520-626-4513
Member	William F. Jackson	2012	517-353-5476
Member	Gerald A. Meininger (ILC, USNC for IUPS)	2022	573-882-9662
Member	Michael A. Hill (ILC)	2014	573-884-4601
Member	Tara L. Haas	2013	416 736 2100 ext77313

Long Range Planning Committee		Term	Contact info.
Chair	Michael A. Hill	2012	573-884-4601
Member	David C. Zawieja	2016	254-231-1500
Member	William F. Jackson	2015	517-353-5476
Member	Steven S. Segal	2014	573-882-2553
Member	Cynthia J. Meininger	2013	254-742-7037
Member	Timothy W. Secomb	2012	520-626-4513
Development Committee		Term	Contact info.
Chair	Joe Unthank	2012	317-274-7339
Member	Michael A. Hill	2013	573-884-4601
Member	David W. Stepp	2014	706-721-1949
Member	Ivo Torres Filho	2014	804-828-2066
Historical Committee		Term	Contact info.
Chair	Geert W. Schmid-Schonbein	2014	858-534-3852
Member	Robert L. Hester	2014	601-984-1816
Awards Committee		Term	Contact info.
Chair	Mariappan Muthuchamy	2013	979-847-9251
Member	William M. Armstead	2012	215-573-3674
Member	Jerome W. Breslin	2013	504-568-2669
Member	Randy Sprague	2014	314-977-6400
Member	David A. Rubenstein	2014	405-744-7118
Programs and Meetings Committee		Term	Contact info.
Chair	Julian Lombard	2012	414-456-8530
Member	Robert L. Hester	2012	601-984-1816
Member	Pierre-Yves von der Weid	2013	403-220-7967
Member	Melody A. Swartz	2013	011-41 21 693 16 94
Member	Robert W. Brock	2014	304-293-1518
Publications Committee		Term	Contact info.
Chair	Brant E. Isakson	2012	434-924-9039
Member	Virginia H. Huxley	2012	573-882-8069
Member	I. Mark Olfert	2014	304-293-7597
Member	Johnathan D. Tune	2014	317-274-3433
Communications Committee		Term	Contact info.
Chair	Steven J. Miller	2014	317-274-2657
Member	Judy Delp	2012	352-273-8693
Member	Robert L. Hester	2012	601-984-1816
Member	Paul Marvar	2014	404-727-3713

Notice for MCS Members!

The **Nominations Committee** is now seeking nominees for:

President-Elect and Councilors

(2 councilor slots will be filled)

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

2012-2013 Microcirculatory Society Nomination Ballot
Please provide nominees' names and their contact information.

President-Elect: _____

Complete contact information: _____

Treasurer: _____

Complete contact information: _____

Councilors:

(1) _____

Complete contact information: _____

(2) _____

Complete contact information: _____

Note: The deadline for receipt of nominations is: November 1, 2011

Please Email or Fax nominations by November 1st to:

Email: dwayne.jackson@schulich.uwo.ca, FAX: 519-661-2123

Dr. Dwayne N. Jackson, Ph.D.

Assistant Professor

Director of the A.C. Burton Laboratory for Vascular Research

Department of Medical Biophysics

Schulich School of Medicine & Dentistry

The University of Western Ontario

London, Ontario Canada N6A 5C1

519-661-2111 ext. 82815

Upcoming Meetings

Experimental Biology and MCS Annual Meeting

San Diego, CA - April 21-25, 2012

<http://experimentalbiology.org/EB/pages/default.aspx?splashpage=1>

British Microcirculation Society Annual Meeting joint with the American Microcirculatory Society

Keble College, Oxford, UK—July 4-6, 2012

<http://www.microcirc.org/MCS-BMS%202012%20flyer.pdf>

Appendix: The Microcirculatory Society By-Laws

ARTICLE I. Microcirculatory Society

Section 1. The name of this organization is The Microcirculatory Society, Inc. (hereinafter known as the Society). The official abbreviation for the name is MCS.

ARTICLE II. Purposes

Section 1. The purposes of the Society are to actively encourage and promote all forms of innovative basic, translational and clinical research and teaching leading to an increase in understanding of microcirculatory structure and function in health and disease.

ARTICLE III. Membership

Section 1. The Society shall consist of regular members, student members, associate members, emeritus members, honorary members, supporting members, and sustaining members.

Section 2.Regular Members.

Regular Members. Any person who has contributed to the increase in knowledge of the microcirculation, and is presently engaged in such work, shall be eligible for election to regular membership in the Society. Typically, a regular member shall hold a doctoral degree. A regular member may attend and participate in the business meetings of the Society and is entitled to one vote.

Section 3.Student Members.

Any person who is engaged as a full-time graduate or medical student in a recognized University program, and is actively involved in research on the microcirculation or associated phenomena shall be eligible for election to student membership in the Society. Except in unusual circumstances, a student member shall not hold a doctoral degree. A student member may attend and participate in the business meetings of the Society, but shall not have the right to vote.

Section 4. Associate Members.

Individuals who are interested in and engaged in work related to the microcirculation, but who do not meet the requirements for regular or student membership, shall be eligible for election to associate membership. Associate members may attend and participate in the business meetings of the Society but shall not have the right to vote.

Section 5.Emeritus Members.

On approval by the Council, a regular member, after 20 years of regular membership or on retirement from regular employment, may, upon his or her written request, become an emeritus member. Emeritus members may attend and participate in business meetings of the Society and shall have the right to vote.

Section 6. Honorary members.

Individuals who have distinguished themselves by outstanding contributions in the study of microcirculatory phenomena may be elected honorary members by a special act of commendation by the President, with approval of the Council. Any such membership may be terminated by the President with the approval of the Council. Honorary members may attend and participate in the business meetings of the Society, but shall not have the right to vote.

Section 7. Supporting members.

Any regular member who voluntarily contributes \$250 or more annually over and above the dues of regular members shall be denoted a supporting member.

Section 8. Sustaining members.

Individuals and organizations that have an interest in the purposes of the Society and wish to contribute to its support may be invited by the President, with the approval of the Council, to become sustaining members. Any such membership may be terminated by the President, with the approval of the Council. Sustaining members may not attend or participate in business meetings of the Society and shall not have the right to vote.

Section 9. Nomination and election of members.

Individuals interested in joining the Society will submit appropriate forms through the Society's web site or other available means of communication. The Membership Committee shall receive these proposals and refer them with its recommendations to the President for approval. Those persons whose proposals are approved by the President shall be nominated for election to membership by a mail (including e-mail, fax or other approved forms of communication) ballot of the Council. A two-thirds (2/3) majority positive vote by Council shall be required for election. Receipt of nominations and election to membership shall be carried out on a continuing basis throughout the year.

ARTICLE IV. Officers

Section 1. Council.

The management of the Society shall be vested in its Council (all of whom must be regular members of the Society), with powers of direction, consisting of the President, President-Elect, immediate Past-President, Secretary, Treasurer, and six additional regular members elected by the members by written vote of the membership (through acceptable means of communication as deemed by Council). The President and President-Elect shall not succeed themselves after having served a full term.

The terms of President and President-Elect shall be for one year. The Secretary and Treasurer shall be elected to two-year terms and these officers may succeed themselves for one term. The Secretary and Treasurer shall be elected on an alternating year basis, and the terms of the six additional elected Councilors shall be three years, so elected that only two Councilors are elected each year. Councilors may not succeed themselves to serve consecutive terms. All terms of office shall begin at the close of the regular annual meeting of the Society. The Council, by majority vote of its remaining qualified members, shall fill any interim vacancy in the office of the President-Elect, the Secretary, the Treasurer, and the Clerk, and may fill a vacancy of a Councilor. The term of office of a person elected to fill an interim vacancy shall expire following the tally of a valid regular ballot to elect his/her successor.

Section 2.Executive Committee.

The Executive Committee of the Society shall be defined as the principal officers, namely the President, the President-Elect, the Past-President, the Secretary and the Treasurer. They shall attend to the ordinary running of the Society, making the decisions required for its smooth functioning. All major decisions shall be subject to the approval of the full Council or, in exceptional circumstances, the full membership.

Section 3.President.

The President shall preside at all meetings of the Council and business meetings of the Society, shall be an ex-officio member of all standing committees, and shall have other duties as prescribed in Procedures Manual. The President, after consultation with the Council, shall appoint members of the standing committees where called for in these bylaws.

Section 4.President-Elect.

The President-Elect shall undertake duties as may be delegated by the President. The President-Elect shall become the next regular President of the Society after completion of the regular term as the President-Elect. In the absence or during the disability of the President, the President-Elect shall have all of the powers and perform all of the duties of the President. Any service as an interim president of the Society shall not reduce the term of the President-Elect as the next regular President of the Society.

Section 5.Past President.

The immediate Past President shall chair the Long-range Planning Committee and shall review and, where needed, recommend revisions of the Society's Bylaws, as described in Article X, Section 2.

Section 6.Secretary.

The Secretary shall give bond to the Society, if required by the Council, for the faithful performance of his/her duties. The Secretary shall have custody of all documents and papers belonging to the Society (except his/her own bond which shall be kept by the President) and shall safely keep the same, and disburse the orders and rules of the Council. The Secretary shall give notice of all meetings as required by the bylaws, send out the various customary mailings to the membership, and shall inform the membership whatever the President or Council desires. The Secretary shall use the acceptable means of communication as deemed by Council to perform these duties. The Secretary shall also have access to the electronic database, which has a complete list of the name, title, and address of each member of the Society. The Secretary shall keep the minutes of the Council and of Business Meetings of the Society and shall have other duties as prescribed in the Operations Manual. In the absence of the Secretary, the President shall appoint a temporary secretary to record the minutes.

Section 7.Treasurer.

The Treasurer shall give bond to the Society, if required by the Council, for the faithful performance of his/her duties. The Treasurer shall have custody of all monies, debts, obligations, contracts, and other property belonging to the Society (except his/her own bond which shall be kept by the President) and shall safely keep the same, and shall collect all properties and all monies from time to time due and owing to the Society. Society bank accounts will have a second officer as signatory in addition to the Treasurer. The Treasurer shall also have access to an electronic database, which has a complete list of

the name, title, and address of each member of the Society and will verify at least annually the status of each member. Access to the directory information for individual members shall be made available on the Society's website. The Treasurer shall be chair of the Finance Committee to disburse the provision of Article VI, Section 3 of these bylaws.

The due date for Internal Revenue Service (IRS) filing for the Society is October 1. This reflects the fiscal tax year from the prior June 1 to the current May 31. The Treasurer, and, if necessary, the past Treasurer, will prepare the financial summary of the MCS for the fiscal year ending May 31 by August 1 of that year. This information will be sent to the MCS-approved Certified Public Accountant (CPA) firm during the first week of August, using certified mail. Upon mailing, the Treasurer will inform the President and Council that the appropriate documentation has been sent to the CPA firm. The CPA firm will use certified mail to return the completed US Form 990, Return of Organization Exempt from Income Tax and the Massachusetts Office of the Attorney General, Division of Public Charities, Form PC, to the Treasurer no later than September 15. Once the Treasurer has received the completed IRS Form 990, the Treasurer will have five business days to sign and mail the forms to the IRS, using certified mail to verify the posting date of before October 1. Upon mailing, the Treasurer will inform the President and Council that the IRS forms have been sent. During this time, the Treasurer and President will sign the annual Not-For-Profit Organization registration FORM PC and the Treasurer will mail it with the appropriate filing fee to the State of Massachusetts. The current CPA firm approved by the MCS is: Neil, Williamson & Staker, CPA, 1609 West Babcock, P.O. Box 1865, Bozeman, MT 59711-1865.

Section 8.Clerk.

The Clerk shall be a resident of the Commonwealth of Massachusetts, and need not be a member of the Society. The office is required as a condition of incorporation by the Commonwealth of Massachusetts.) The duties of the Clerk of this Society shall be those required by the statutes of the Commonwealth of Massachusetts. Such duties, to the extent permitted by law, may be assigned to others by the Council. The Clerk shall be appointed annually by the President of the Society, and may serve in the Council and Business Meetings, without vote except as a member of the Society.

Section 9.Nomination of Officers and Councilors.

Nominations for all Officers, including Council members, of the Society will be obtained by mail, fax, e-mail or other approved forms of communication on or before December 1 by requesting the membership to propose nominees. The request for nominations will be made in the Society Newsletter preceding the December 1 deadline and by a direct e-mail to the membership. Nominations will be sent to the Chair of the Nominating Committee. For each office, the two persons (who agree to stand for election) with the highest number of nominations will be included on the ballot. If two persons cannot be identified, then a single name can be placed on the ballot. If two members of Council are to be elected, a total of not more than four nominees for that office will be included on the ballot.

Section 10. Election of Officers and Councilors.

Once all of the nominations are complete, the membership will be provided with short biographical sketches of the candidates by e-mail and in the Society Newsletter. The Society's on-line voting site will then be activated and each member will receive notification by e-mail.

The election will be conducted promptly with members having the option of either voting on-line, by e-mail, or returning their ballot by mail or fax to the Chair of the Nominating Committee for inclusion in the tabulation and determination of outcome.

The individual receiving the most votes will be declared the winner. If two Councilors are to be elected, then the two individuals receiving the most votes will be declared the winners. In the event that a majority vote for any office is not obtained following the regular vote, the Chair of the Nominating Committee will call immediately for a run-off election between the two candidates with the highest number of votes. The election will be conducted promptly using the on-line voting site and by mail, fax, e-mail, or other Council-approved forms of communication.

ARTICLE V. Council

Section 1. Management of the Society.

The property and affairs of the Society shall be managed and conducted by the Council with powers of directors. The members of the Council shall serve without compensation and shall be called Councilors.

Section 2. Qualifications, Elections and Vacancies.

Specified in Article IV, Section 1 and Section 9.

Section 3. Meetings.

At least one regular meeting of the Council shall be held during each annual meeting of the Society members, and for this regular meeting no notices shall be required. Other meetings of the Council shall be held as often as the needs of the Society may require and may be conducted through means of remote communication. They may be held at regular intervals determined by the Council, or they may be called by the President or any three members of the Council. The Secretary shall notify each Councilor of each meeting of the Council. Notice of any meeting may be dispensed with if each member of the Council, by writing filed with the records of the meeting, waives such notice. No notices shall be required to be given of any adjourned meeting of the Council.

Section 4. Quorum.

A majority of the Council participating in a meeting shall constitute a quorum for the transaction of business, but a lesser number may adjourn any meeting from time to time, and a meeting may be held as adjourned without further notice. Participation in a meeting through remote communication is confirmed by inclusion in the record of the meeting and constitutes meeting attendance.

Section 5. Voting.

A majority vote of Councilors participating in a meeting, with each entitled to one vote, shall decide any question brought before the Council, except that a majority of the qualified Councilors shall be required for temporarily filling a vacancy of an office. In the event of a tie vote, the President shall then be entitled to two votes. Deliberation and voting timelines for meetings conducted by remote communications will be defined in the meeting notice but may be extended at the discretion of the President or any three members of the Council.

ARTICLE VI. Standing Committees

Section 1. Standing Committees.

Standing committees and their Chairs shall be appointed by the President in consultation with the Council. The term of all standing committee members, except as otherwise provided elsewhere, shall be for three years. However, on adoption of these bylaws, the term shall be one, two, or three years for various committee members, as determined by the Council, so as to provide continuity of committee operation. Emeritus, Honorary, and Sustaining members may be appointed from time to time for terms up to one year. Sustaining members so appointed shall not have the right to vote. The President shall be an ex-officio member of all committees. Guidelines for committee operation shall be approved by Council. The President, in consultation with Council and upon recommendation and evidence submitted by the Committee Chair or committee members, will be empowered to terminate at any time the term of committee members failing to discharge their duties.

Section 2. Membership Committee.

A Membership Committee, composed of three or more regular members of the Society, shall receive and review proposals for nomination to membership, and shall recommend regular, associate, and student nominees for membership to the Society according to Article III, Section 9.

Section 3. Finance Committee.

A Finance Committee consisting of the Treasurer (who shall Chair the Committee) and two or more regular members appointed by the President shall receive and evaluate the impact of the various proposed budgets, shall determine the budgets and make recommendations and shall recommend a budget to the Council. This Committee shall supervise the capital investments of the Society, subject to the full authority of direction by the Council.

Section 4. Nominating Committee.

A Nominating Committee shall consist of three or more regular members, none of whom shall simultaneously be an officer of the Society or the immediate Past-President. This Committee shall obtain nominations and conduct elections for officers and councilors as prescribed in Article IV, Section 9.

Section 5. Liaison Committee.

The Liaison Committee shall consist of the President (who shall serve as Committee Chair), the MCS representative to the US National Committee for the International Union of Physiological Sciences (USNC for IUPS), the MCS member appointed liaison to the European Societies of Microcirculation, the MCS member appointed to the International Liaison Committee, and the Secretary of the Society, and may include other members at the pleasure of the President. This Committee shall maintain communication with scientific organizations that have interests in common with the Society, and shall officially represent the Society in the international community.

Section 6. Long-range Planning Committee.

The Long-Range Planning Committee shall consist of the ten (10) most recent Past-Presidents and shall be chaired by the immediate Past-President of the Society. This committee shall consider all aspects of society affairs to identify major issues of importance to the Society and to recommend to the current

Council future strategies, plan meetings for the Society for a minimum of 3 years in advance of the next annual meeting, and new policy directions for Society function.

Section 7. Development Committee.

The Development Committee shall consist of three or more regular members of the Society. This committee shall assist the MCS President and Council in identifying and implementing actions and activities to advance the objectives of the MCS and enhance its membership.

Section 8. Historical Committee.

The Historical Committee shall consist of three or more regular members of the Society. This committee shall seek, identify, and obtain information, documents, films, and other items that have historical significance to the Society. This committee shall maintain updated lists of past officers and recipients of Society Awards.

Section 9. Awards Committee.

An Awards Committee, composed of six regular members, shall solicit from the voting membership the names of candidates for any awards that the Council has authorized. After the selection of the candidates is made by the Awards Committee, the names of the candidates shall be approved by the President and the Council prior to any announcement of the awardees. Announcements of the winners of awards should be made known to voting members of the Society prior to the Annual Society scientific meeting.

Section 10. Programs and Meetings Committee.

The Program Committee shall be chaired by an officer appointed by the President of the Society, and will serve a three year term. Members of the Committee shall be appointed for 3 years, by the President. The Committee shall: a) follow up on the recommendations to Council and the membership from the Long Range Planning Committee for the meeting(s) proposed for at least three years in advance, b) Serve as the liaison to the program committees of other societies or associations with whom the MCS may meet, with the Program Committee Chair or designated committee member as the official representative, and c) Make recommendations, to be approved by the Executive Committee of the MCS, with respect to: program style and format, commitments to other societies, local arrangements, and appointments to the program committees of umbrella associations.

Section 11. Publications Committee.

The Publications Committee shall consist of a Chair and at least two other members of the Society, appointed by the President and responsible to the Council of the Society. The Chair of the Committee is an ex-officio member of Council, without vote. The President, Treasurer, and Secretary of the Society are ex-officio members of the Committee, without vote (except for negotiations relating to contractual agreements where the President and the Treasurer shall have voting rights). The duties are to oversee the journal and other publications of the Society, particularly with respect to the scientific quality of the journal. They shall recommend appointment of Editors to Council, recommend (in consultation with the Editor-In-Chief) awardees for the Society's journal awards to Council, prepare an annual summary report (in consultation with the Editor-In-Chief), and in general, manage the publications of the Society under the policies determined by Council. The term of the Publications Committee Chair will be set to provide

continuity during the time that contracts with publishers are negotiated or Editors of the Journal are chosen. When these decisions are being made, the term will likely be for two consecutive years. The Editor-In-Chief of the journal will be appointed by Council for a five-year term and no individual will serve more than two consecutive five-year terms. The appointment of Editor-In-Chief will be done via a recommendation to Council by a committee that will consist of the Publications Committee plus the President of the Society. The Chair of the Publications Committee will chair this committee. The Publications Committee, plus the President of the Society, the Editor-In-Chief of the journal, and the Treasurer of the Society are responsible for oversight of contractual agreements between the publisher of the journal and the MCS. The Editor-In-Chief, in consultation with the Publications Committee, will nominate the Associate Editors and the Editorial Board. These appointments will be submitted to Council for approval.

Section 12. Representative of the MCS to the US National Committee of the International Union of Physiological Sciences.

This position is to be filled by an appointee of the President of the MCS. The appointment is for three years, or four, designed to fit with the time interval between IUPS Congresses. The appointee should be a senior member of the Society, suitable to represent the Society's interests in international planning not only of scientific meetings but in providing international leadership in science and education. Reappointment for a second term is allowable, in accord with IUPS committee rules.

Section 13. Representative of the MCS to the European Societies for Microcirculation (ESM).

This position is to be filled by an appointee of the President of the MCS. The appointment is for three years, or four, designed to fit with the requirement of ESM. The appointee should be a senior member of the Society, who participates in the European Microcirculatory Society meeting, suitable to represent the Society's interests in international planning not only of scientific meetings but in providing international leadership in science and education. Reappointment for a second term is allowable, in accord with ESM rules.

Section 14. Representatives of the MCS to the International Liaison Committee.

These three positions are to be filled by appointees of the President of the MCS. The appointment is for three years, or four, designed to fit with the time interval between World Congresses. The appointees should be senior members of the Society, suitable to represent the Society's interests in international planning not only of scientific meetings but in providing international leadership in science and education.

Section 15. Communications Committee.

The Communications Committee shall consist of a Chair, the Webmaster, and at least three other members of the Society, appointed by the President of the Society for up to three-year terms. This committee shall be responsible for the oversight of the Society's web page. The Society website address, microcirc.org, is the property of MCS. The committee's other primary function is to coordinate with the Program and Meetings committee, the Liaison Committee, the Publications Committee, as well as the parties who collect directory, dues, and newsletter information, to keep the membership informed of MCS activities.

Section 16 . Other Committees.

The President may appoint temporary (ad hoc) committees as desired. The term of office of these temporary committees shall end with the next annual business meeting of the Society following such appointment, or earlier as the President desires.

ARTICLE VII. Dues

Section 1. Annual Dues.

Dues for members, in accordance with Article III, shall be proposed by the Council but shall be determined by majority vote of those voting at the annual business meeting of the Society. Dues shall be paid January 1 for the current fiscal year and shall be in arrears on April 1. Special assessments may be proposed by the Council but shall be determined by majority vote of those voting at the annual business meeting of the Society.

Section 2. Nonpayment of Dues.

Any member whose dues are one year in arrears shall become an inactive member of the Society, and will be notified by the Treasurer. An inactive member will not receive the journal and will be ineligible to vote, and may not serve on committees. If an inactive member is in arrears for an additional year, he/she may reactivate membership in the Society by payment of all outstanding dues. The Treasurer shall notify the delinquent member of the right to request reinstatement of membership at least one time after dues are two years in arrears before they cease to be a member of the Society.

Section 3. Emeritus Members.

A regular member who has been granted emeritus membership will be relieved from dues payment for the current and subsequent fiscal years.

ARTICLE VIII. Meetings of Society Members

Section 1. Annual Meeting of Members.

The Society shall hold an annual meeting of members, for the transaction of business, and for presentation of scientific communications and related activities. Such annual meetings shall be held each year at a time and place designated by the Council. The time and place for the annual meeting shall be chosen at least eleven months in advance at an annual business meeting. The place, day, and hour shall be specified in the notice of any meeting of the Society.

Section 2. Special Meetings of Members.

Special meetings of members shall be called by the Secretary or any other officer upon the request of the President or the Council or on the written request of one-quarter of the members entitled to vote. The current list of members with their addresses shall not be utilized by anyone for purposes not directly pertaining to the business of the Society without the written permission of the President.

Section 3. Notice to Members.

Notice of all meetings of the members shall be made known to each member not less than 30 nor more than 180 days before the meeting, but no notice shall be required if every member entitled thereto, or his/her attorney thereunto, authorizes, by a writing which is filed with the records of such a meeting, a waiver of such notice.

Section 4. Quorum for Annual and Special Meetings.

At all meetings of members of the Society, 40 regular members, present in person and entitled to vote, shall constitute a quorum, but less than a quorum shall have power to adjourn from time to time until a quorum be present. No member shall cast a ballot by proxy at any meeting of the Society.

Section 5.Parliamentary Authority.

The rules contained in Robert's Rules of Order, Newly Revised, shall govern the conduct of the business meetings of the Society in all cases to which they are applicable and in which they are not inconsistent with the bylaws or special rules of order of the Society.

ARTICLE IX. Miscellaneous

Section 1. Prohibitions.

Notwithstanding any provision of these bylaws which might be susceptible to contrary interpretation:

- a.** The Society is organized and operated exclusively for scientific and educational purposes.
- b.** No part of the net earnings of the Society shall accrue to the personal benefit of any member except as provided by the Society awards (Article VI, section 9).
- c.** No substantial part of the activities of the Society shall consist of carrying on propaganda, or otherwise attempting to influence local, state, or national legislation, except with respect to science policy or to other special issues such as the obligations to perform biological experimental studies. The Society shall not participate in or intervene in any campaign of any candidate for government public office.
- d.** The Society is not organized, nor is it to be operated, for profit.
- e.** The membership list of the Society shall not be supplied to anyone for any purpose, except as specifically provided by Council.

Section 2.Fiscal Year.

The fiscal year of the Society shall end with the 31st day of **May** of each year.

Section 3.Audit.

All statements of net assets and related statements of income, expenditures, fund capital, and liabilities shall be reviewed annually in accord with the statutes of the Commonwealth of Massachusetts. A report will be made annually by the Finance Committee.

Section 4. Term of Office.

Where a term of office is stated in years, a year is to be considered as extending from the end of one annual business meeting to the end of the following one.

Section 5.Operations Manual.

The Secretary of the Society shall maintain an operations manual providing outlines of procedures found useful by the Executive Committee and Committees of the Society.

ARTICLE X. Amendments.

Section 1. Amendments.

These bylaws may be amended, altered, or repealed at any business meeting of the Society members by a vote of two-thirds (2/3) of the regular members in attendance or by mail (e-mail, fax, or other Council-approved forms of communication) ballot of the Society members by a vote of three-quarters (3/4) of the regular members entitled to vote, provided notice of the proposed repeal, alteration, or

amendment, with a statement of the substance thereof and of the Articles to be affected thereby, is given in the call for the meeting. Approved bylaw changes will be added to the published bylaws by the immediate Past-President as stipulated in Article IV, Section 5.

Section 2. Society By-Laws.

The Past-President shall review the Society Bylaws , incorporate approved changes following the annual business meeting of the Society, and submit a complete copy of the Bylaws to the President at least 3 months prior to the next annual meeting. Any proposed changes that require Council and membership approval shall be presented in a complete copy of the Bylaws, labeled with proposed revisions. All words and phrases deleted from existing approved Bylaws shall be indicated by a horizontal line through them. Continuous underlining, italics or a different color shall indicate all new words and phrases.

**** Revised, Incorporated and Approved April 25, 2010.***