

# The Microcirculatory Society, Inc.

## Newsletter

Volume 30, Number 3

Winter 2003

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### Officers

<b>President:</b>	Paul F. McDonagh pmcdonag@u.arizona.edu
<b>President-elect:</b>	G.W. Schmid-Schönbein gwss@bioeng.ucsd.edu
<b>Secretary:</b>	Cynthia J. Meininger cjm@tamu.edu
<b>Treasurer:</b>	Ann Baldwin abaldwin@u.arizona.edu
<b>Web Site:</b>	<a href="http://microcirc.org">http://microcirc.org</a>

## President's Message

*Paul F. McDonagh*

**Thanks.** As I shovel the snow from my driveway in Tucson, I am reminded that it's time for the Winter installment of the President's Message. First, I'd like to thank our members for submitting nominations for our society's officers and annual awards. The Nominating Committee, chaired by Steve Segal, has done an excellent job. The final list of candidates is found on the enclosed ballot. Biosketches are also included in this newsletter. We have an excellent group of candidates; please vote for your leadership.

Regarding awards, I'd like to congratulate Walter Duran for being selected for the Landis Award. Walter is most deserving of this award and we look forward to hearing his Landis Lecture in San Diego. The winners of many of the other awards are currently being evaluated by the Awards Committee, chaired by Bill Chilian. As usual, an announcement of the complete list of awardees will be made in the Spring newsletter.

**Welcome.** I'd like to welcome all of the new members to our society. I'd also like to acknowledge the

hard work of the Membership Committee, chaired by Molly Frame, for their timely evaluation of applications.

**Update on the MCS Archives.** The MCS Historical Committee, chaired by Gene Renkin, has actively investigated options for a centralized storage facility for our archives. As you may know, the new Zweifach Library at the University of California at San Diego was a favored potential location. Paul Johnson investigated this possibility and learned that there is insufficient space to house the entire collection. Further, the conditions (controlled temperature

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and humidity) are not suitable for long-term archiving of documents and films. However, further inquiry by Paul and the committee led to an excellent alternative, namely to place the MCS Archives in the Mandeville Special Collections Library at UCSD. The Historical Committee submitted a detailed report to MCS Council posing two options. The first was to put the materials 'on deposit' with the Special Collections library for a fee (approx. \$2,000). The second was to deed the materials to the UC Board of Regents. Council considered the report and voted for the 'on deposit' option. Paul is in the process of collecting materials to be archived. If you have materials that you believe to be appropriate for the archives, please contact Paul Johnson in Bioengineering at UCSD. Procedures for accessing the archives for a fee are under development.

**Annual Meeting.** Bill Jackson, Chair of the Program Committee, has been attending the EB and APS programming meetings. An update of Meeting Information can be found in this newsletter. We expect an excellent turnout, so please make your reservations ASAP. Recall that the meeting will start a day earlier this year due to Passover, so make arrangements accordingly. Also, the La Jolla Bioengineering Institute has kindly invited us to an Open House. See the announcement in this newsletter and have a look at their website.

**IUPS Meeting.** By now you should have received a letter from me requesting support of the upcoming IUPS Meeting. (If you did not receive a letter, then MCS does not have your correct address. Please contact Holly Lopez ([hollyl@u.arizona.edu](mailto:hollyl@u.arizona.edu)) with your current address.) In the letter, I requested two types of support, proposals for symposium and monetary support. This newsletter contains a more detailed request for proposals. Please consider supporting this important meeting with a donation and/or proposing a symposium.

**World Congress for Microcirculation.** The proposals are still under consideration. As I mentioned in the last newsletter, we received two proposals for the upcoming World Congress. They were forwarded

to Council for consideration and feedback. Based on Council feedback, I requested more information. As mentioned earlier, we plan to announce the site for the World Congress in April at the San Diego Meeting.

That's all for now. Take care.



## Do You Have Materials for the MCS Archives???

The MCS collection is now being housed at the Mandeville Special Collections Library at the University of California San Diego. Paul Johnson will coordinate collection of items to be deposited in this collection.

Please don't let valuable documents and/or films and videos, etc. be lost! Contact Paul to coordinate transfer.

We especially request that Past Presidents and Past Secretaries look for items in their possession that might be donated to this collection.

### Contact Information:

Paul C. Johnson  
Dept. of Bioengineering  
Room 287  
Powell Focht Bioengineering Hall  
Univ of California San Diego  
La Jolla, CA 92093

Phone: 858-534-5686  
email: [pjohnson@bioeng.ucsd.edu](mailto:pjohnson@bioeng.ucsd.edu)

## Urgent call for program proposals for IUPS/EB meetings, 2005

This is a message from Bill Jackson, Chair of the MCS Program Committee, and Ingrid Sarelius, Chair of the Microcirculation Section of the IUPS Commission on Circulation

As you may be aware, a call for programming proposals for the above meetings has recently gone out, with a deadline for receipt of proposals that is very close - MAY 15, 2003. The Microcirculatory Society will be participating in this meeting - we hope very actively, as not only is our society one of the hosts for the IUPS Congress, but also, it is an opportunity for us to showcase the science that we do! Obviously, programming decisions for this event will be complex. A huge effort has, and is, being made to ensure that all constituencies are properly represented in all programming decisions. Two things are needed urgently from MCS members:

1. The program committee wants to identify "hot topics" so that these will be included in the program. These are needed NOW. Please email either Bill or Ingrid with suggested topics. Please do it today!
2. Proposals for symposia, etc. PLEASE actively consider developing a symposium or featured topic proposal - not all will wind up being accepted, but volume and overlap in proposals will help identify programming priorities for the program committee. Remember the international nature of the meeting, and try to be inclusive in your suggested speakers. These can be sent directly to The APS (see below) or you can send them to Bill or Ingrid.

We append below the full text of a recent letter from Drs. Walter Boron and Marty Frank, which outlines the goals of the Congress, expands on theme issues, and gives the web address at which you can find information on submitting proposals.

We look forward to great programming at this meeting, but it's up to us to make it happen!

### To the Representatives of the IUPS Commissions:

This message is being sent to you to inform you that the International Scientific Program Committee for the IUPS 2005 Congress scheduled for March 31-April 5, 2005 in San Diego, California, USA, has issued an invitation to the international physiological community to suggest ideas for symposia, workshops, featured topics, and satellite meetings to be held at the Congress.

The theme of the Congress is "From Genomes to Functions" and the ISPC is seeking program suggestions that compliment the theme. Your suggestions might be for symposia, workshops, featured topics, for individuals to present a distinguished lectureship in some area of physiology, or for novel programming ideas (e.g., the "Controversies" symposium held in New Zealand in 2001). However, in making your suggestions, I urge you to include representation from around the world.

The ISPC would also like to solicit suggestions for Satellite meetings. The ISPC expects to designate approximately 20 satellite meetings of the IUPS 2005 Congress. To be so designated, the satellite meeting must be held in the greater San Diego area (e.g., within a 150-mile radius of San Diego), be no more than two days in length, and be held either March 29-30 or April 6-7.

The ISPC would like to receive all program suggestions by May 15, 2003. Please help make the IUPS 2005 Congress a scientific success!

Please visit the IUPS web site to review instructions related to the submission of proposals at <http://www.iups2005.org/announce/programcall.htm>

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In addition, please distribute information about this call for proposals broadly to the membership of your Commissions.

Sincerely yours,

Walter F. Boron, M.D., Ph.D.  
Chair, International Scientific Program Committee, IUPS 2005 Congress

Martin Frank, Ph.D.  
IUPS 2005 Congress Executive Secretary  
APS Executive Director



## ***VERY IMPORTANT***

### ***Vote for New Officers***

A ballot is included in this newsletter for voting for New Society Officers. You will also find mini CVs for the candidates. Please return your ballots to Steve Segal as soon as possible. **The polls close on February 28, 2003 at 5:00 p.m. EST.**

***We need your involvement in  
choosing our Society's leaders.  
You can make a difference!***

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## ***Welcome to New MCS Members!***

### **Regular Members**

Zsolt Bagi  
New York Medical College

Stuart Egginton  
University of Birmingham Medical School  
United Kingdom

Julian Stewart  
New York Medical College

Francis (Frank) Sylvester  
St. Norbert College

Cuihua Zhang  
The Texas A&M University System HSC

### **Student Members**

Michael L. Smith  
University of Virginia

# LA JOLLA BIOENGINEERING INSTITUTE OPEN HOUSE

Date: April 12, 2003  
Time: 6:00 P.M.

Transportation Provided from the  
San Diego Convention Center

Food, Drinks and Entertainment

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La Jolla Bioengineering Institute  
505 Coast Boulevard South, La Jolla, CA 92037  
[www.ljbi.org](http://www.ljbi.org)

## Our Mission

The heart of the Institute's research is to determine how mechanical forces play a role in the normal physiology and pathology of blood vessels, bone, and muscle.

The Institute uses an interdisciplinary approach that involves fluid and solid mechanics and molecular and cell biology to answer this fundamental question. The work on mechanochemical signal transduction in endothelial and bone cells has provided insight of direct clinical relevance.

Most of our current research efforts are supported by multi-year grants awarded through the National Institutes of Health [NIH] and the National Aeronautics and Space Administration [NASA].



Please RSVP to (858)456-7500 X 100  
or e-mail: [mkomashko@ljbi.org](mailto:mkomashko@ljbi.org)

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# *Meeting Information*

## **MICROCIRCULATORY SOCIETY 2003 ANNUAL MEETING**

The 2003 Microcirculatory Society Annual Meeting will be held in San Diego, California, from Friday April 11<sup>th</sup> to Sunday April 13th. As approved by the MCS Council and by the general membership at the Business Meeting, the MCS will meet as a guest society of APS, within the structure of Experimental Biology 2003.

### **FRIDAY APRIL 11<sup>th</sup>**

8:00-12:00 Microcirculatory Society Executive Council Meeting (San Diego Marriott Desert Springs Room)  
3:15-5:15 Microcirculatory Society President's Symposium (San Diego Convention Ctr. Room 8)

### **SATURDAY, APRIL 12<sup>th</sup>**

8:00-4:30 Microcirculatory Society Poster Session I (posters manned by authors from 12:00 - 1:45 p.m.)  
2:00-3:00 Microcirculatory Society Landis Award Lecture (San Diego Convention Ctr. Room 8)  
3:15-5:15 Microcirculatory Society Young Investigators Symposium (Convention Ctr. Room 10)  
5:30 p.m. Microcirculatory Society General Business Meeting (San Diego Convention Center Room 10)

### **SUNDAY, APRIL 13<sup>th</sup>**

8:00-4:30 MCS Poster Session II (posters manned by authors from 12:45 - 3:00 p.m.)  
7:00-10:00 Microcirculatory Society Banquet (San Diego Marriott Marina G Room)

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**MCS President's Symposium**  
**Friday, April 11, 2003**  
**3:15 – 5:15 PM**  
**San Diego Convention Center, Room 8**

***“Mechanisms of Microvascular Dysfunction in Diabetes”***

**Chairs:** Paul F. McDonagh, University of Arizona  
Leslie S. Ritter, University of Arizona

**Speakers:**

**Leslie S. Ritter, University** of Arizona  
“Reperfusion Injury in the Diabetic Microcirculation”

**H. Glenn Bohlen**, Indiana University School of Medicine  
“Obesity Predisposes Hyperglycemic Injury of In-Vivo Endothelial Cells”

**George L. King**, Joslin Diabetes Center, Harvard Medical School  
“Protein Kinase C and Other Kinases: Their Roles in Causing Microvascular Dysfunctions and Pathologies of Diabetes”

**John E. Tooke**, Peninsula Medical School, Plymouth, England  
“Microvascular Function in Human Diabetes and Pre-Diabetes”

**Congratulations!!!!**  
**Landis Award 2003**

**Walter N. Duran, Ph.D.**  
Professor of Physiology and Surgery  
University of Medicine and Dentistry, New Jersey

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**MCS Landis Award Lecture**  
**Saturday, April 12, 2003**  
**2:00 – 3:00 PM**  
**San Diego Convention Center, Room 8**

***“Biology of Microvascular Permeability: Physical Coefficients and Chemical Signals”***

**Dr. Walter N. Duran**

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**MCS Young Investigators Symposium**  
**Saturday, April 12, 2003**  
**3:15 – 5:15 PM**  
**San Diego Convention Center, Room 10**

**Chairs:** Jefferson C. Frisbee  
Medical College of Wisconsin

David W. Stepp  
Medical College of Georgia

**Speakers:**

**Donald G. Welsh, Ph.D.**, University of Calgary  
“Defining the nature of gap junctional communication in the resistance vasculature”

**Daniel A. Beard, Ph.D.**, University of Washington  
“Myocardial oxygenation in isolated hearts predicted by an anatomically reasonable microvascular transport model”

**Johnathan D. Tune, Ph.D.**, University of North Texas  
“Mechanisms of coronary blood flow control in experimental diabetes mellitus”

**Cristine Heaps, Ph.D.**, University of Missouri  
“Adenosine activation of voltage-dependent K<sup>+</sup> channels in coronary arterioles”

**Richard J. Price, Ph.D.**, University of Virginia  
“Microvascular remodeling: network patterning and stimulation by contrast ultrasound”

## **POSTER SESSION DETAILS:**

## Poster Session I Saturday April 12<sup>th</sup>

**PLEASE NOTE:** Authors are asked to man their posters earlier than indicated in the program ON THIS DAY ONLY in order to allow MCS members (and authors) to attend the Landis Award Lecture.

## Poster Topics:

## Microvascular Mechanics and Hemodynamics

## Microvascular Permeability/Exchange

## Microvascular Pharmacology/Vascular Control

## Poster Session II Sunday April 13<sup>th</sup>

## Poster Topics:

## Microvascular Pathophysiology

Microvascular Cell and Molecular Biology

## Flow Regulation; Oxygen Delivery

## Angiogenesis/Microvascular Remodeling

## **Other Programs of Potential Interest to MCS Members:**

# FRONTIERS OF INTRAVITAL MICROSCOPY: CROSSROADS OF PHYSIOLOGY AND PATHOLOGY (WORKSHOP)

**FRIDAY 1:00-3:00**

San Diego Convention Center Room 5

Chair: M.S. Goligorsky

# GENOMICS OF ANGIOGENESIS AND THE MICRO CIRCULATION (PG SYMPOSIUM)

SATURDAY 8:00-10:00 AM

San Diego Convention Center Room 6C

Chair: James B. Hoying

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# *Candidates for Office*

## **President-Elect**

### **H. Glenn Bohlen, Ph.D.**

**Present Position:** Professor of Cellular and Integrative Physiology, Indiana University Medical School, Indianapolis, IN

**Education:** B.S., Appalachian State University, Biology and Chemistry (1968), Ph.D., Wake Forest University Bowman Gray School of Medicine, Physiology (1973), Post-Doctoral Fellow, University of Arizona, Department of Physiology (1975-1978).

**Honors and Awards:** American Heart Association Post-Doctoral Fellowship (1974-1976), Lamport Award of the Circulation Group (1979), Fellow of the Circulation Group of the American Physiological Society, 1978, National Institutes of Health Research Career Development Award (1982-1987), 1997 recipient of the Eugene Landis Award for Microvascular Research from the Microcirculatory Society.

**National Funding:** NIH Grant HL-20605-23, Microvascular Behavior During Intestinal Absorption and NIH Grant HL-25824-21, Microvascular Characteristics of Diabetes Mellitus.

**Editorial Boards:** American Journal of Physiology, Heart and Circulatory Section, American Journal of Physiology, Gastrointestinal Physiology Section, Journal of Vascular Research, Hypertension, Microcirculation .

**Grant Review:** Member of National Institutes of Health Experimental Cardiovascular Sciences Study Section (1986-1989).

**Peer Review:** Diabetes, American Journal of Physiology, Circulation Research, Microvascular Research, Microcirculation, Journal of Vascular Research, Hypertension, Journal of Applied Physiology.

**Professional Societies:** Microcirculatory Society (Member of Nomination Committee (1982-84), Chairman of Nomination Committee (1984-85), Council Member (1987-1989)), American Physiological Society (1977), Circulation Group of the American Physiological Society (1981) (Chairman of Awards Committee, 1996-1998, Member of Program Committee, 1997-1998, Chair of the Program Committee, 1999-2000).

**Current Research Interests:** Nitric oxide physiology in intestinal blood flow and secretion regulation and nitric oxide abnormalities during hyperglycemia and diabetes.

### **Robert L. Hester, Ph.D.**

**Present Position:** Professor of Physiology, University Mississippi Medical Center, Jackson, MS.

**Education:** B.S., Mississippi State University, Biological Engineering (1975), Ph.D., University of Mississippi School of Medicine and Mississippi State University, Biomedical Engineering (1982), Post-Doctoral Fellow, University of Virginia, Department of Physiology (1982-1985).

**Honors and Awards:** National Institutes of Health National Research Service Award 1983-1985.

**National Funding:** NIH Grant HL-63958, Metabolic Regulation of Muscle Blood Flow.

**Editorial Boards:** Microcirculation, American Journal of Physiology, Heart and Circulatory Section,

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American Journal of Physiology, Regulatory, Integrative and Comparative Physiology.

**Grant Review:** American Heart Association Alabama Affiliate study section (1995-1998), Southeastern AHA Study Section (1999-, Chairman Southeastern AHA Study Section 2003).

**Peer Review:** Microcirculation, American Journal of Physiology, Microvascular Research, International Society of Hypertension (Abstracts), Journal of Physiology, Journal of Biomechanical Engineering, Journal of Vascular Research, Hypertension.

**Professional Societies:** Microcirculatory Society (Membership committee 1998-2001, Council member 2001-), American Physiological Society (1981-, Education Committee 2000-), Council for High Blood Pressure (Fellow 1994-), Biomedical Engineering Society (Membership Committee 1995-1998).

**Current Research Interests:** Regulation of blood flow and oxygen delivery to tissue, particularly the regulation of arteriolar diameter and blood flow during exercise.

## Secretary

### Cindy Meininger, Ph.D.

**Present Position:** Associate Professor, Cardiovascular Research Institute and Department of Medical Physiology, The Texas A&M University System Health Science Center, College Station, TX.

**Education:** Ph.D. Texas A&M University (1987, Vascular Cell Biology); Postdoctoral Fellow, College of Medicine, Texas A&M University (1987-1989), Visiting Assistant Professor, Harvard Medical School, Department of Surgical Research, Childrens Hospital (1990-1991)

**Honors and Awards:** Selected as participant in the Cooperative Education Program, Laboratory of Central Nervous Systems Studies, National Institute of Neurological Communicative Disorders and Stroke, NIH (1978-1979); XXXI IUPS Travel Award from the U.S. National Committee for the International Union of Physiological Sciences, National Research Council, Commission of Life Sciences (1989); National Research Service Award, National Heart, Lung and Blood Institute, National Institutes of Health (1988-1991).

**Editorial Boards:** Microcirculation (1999 - present)

**Grant Review:** National Aeronautics and Space Administration, Integrative Physiology Panel, 2002; National Aeronautics and Space Administration, Cellular Biotechnology and Tissue Engineering Panel, 1994-2001; American Heart Association, Western Review Consortium, Lipid Metabolism, Thrombosis and Vascular Wall Biology Committee, 2000-2003 (Co-Chair, 2001-2003); American Heart Association, Western Review Consortium Steering Committee, 2002-2004; American Heart Association, Lung, Resuscitation, and Respiration Peer Review Committee, 1997-1998; American Heart Association, Lung & Development Study Committee, 1994-1997; Ad Hoc Reviewer, U.S. Civilian Research and Development Foundation for the Independent States of the Former Soviet Union, Cooperative Grants Program, 2000, Veterans Administration Merit Awards, Respiratory Subcommittee, 1999, and Jewish Hospital Foundation Medical Research Grant Program, 1996-1999.

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**Peer Review:** American Journal of Physiology; Microcirculation; Microvascular Research; Circulation Research; Journal of Clinical Investigation; Journal of Vascular Research; Journal of Cellular Physiology; In Vitro Cellular and Developmental Biology; Journal of Applied Physiology; Arteriosclerosis, Thrombosis and Vascular Biology; Hypertension; American Journal of Cardiology; Journal of Cellular Biochemistry; Comparative Biochemistry and Physiology; Cells Tissues Organs; Infection and Immunity.

**Professional Societies:** Microcirculatory Society (Membership Committee 1991-1994; Awards Committee 1995-1998; Executive Council 1996-1999; Secretary 2001-2003); American Society for Cell Biology; North American Vascular Biology Organization; Juvenile Diabetes Research Foundation.

## Executive Council

### **Christopher Ellis, Ph.D.**

**Present Position:** Professor and Graduate Chair, Department of Medical Biophysics, University of Western Ontario, London, Ontario, Canada.

**Other Information not available at this time.**

### **Mary D. (Molly) Frame, Ph.D.**

**Present Position:** Assistant Professor of Biomedical Engineering and Physiology/Biophysics, Stony Brook University, Stony Brook, NY.

**Education:** B.S., University of Missouri-Columbia, Biology (1980), Ph.D., University of Missouri-Columbia, Physiology (1990), Post-Doctoral Fellow, University of Rochester, Department of Biophysics (1990-1993).

**Honors and Awards:** Curator's Scholarship, University of Missouri (1976), National Institutes of Health Pre-Doctoral Fellowship (1986-1989), National Institutes of Health Post-Doctoral Fellowship (1990-1993), Travel Award, 5<sup>th</sup> World Congress for Microcirculation (1991), American Heart Association, Finalist Melvin L. Marcus Young Investigator Award (1994), Whitaker Foundation Research Grant (1995-1999), National Institutes of Health R29 (FIRST) Award (1996-2000); American Heart Association Established Investigator Award (2000-2003), National Institutes of Health RO1 (2001-2005).

### **Editorial Boards:**

**Grant Review:** Ad hoc Member of National Institutes of Health Experimental Cardiovascular Sciences Study Section (2001, 2002); National Institutes of Health Special Emphasis Panel (1999, 2001).

**Peer Review:** American Journal of Physiology, Journal of Applied Physiology, Cancer Research, FASEB Journal, Journal of Vascular Research, Microcirculation, Microvascular Research, Thrombosis Research.

**Professional Societies:** Biophysical Society (1990); American Physiological Society (1990); American Heart Association, Circulation (1994); Biomedical Engineering Society (1999); American Association for the Advancement of Science (1990); Microcirculatory Society (1991), [Program Committee, 1996-

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2000; Membership Committee, 2001-2005, Chair, 2002-2005]; Registered Outside User of the Cornell Nanofabrication Facility (1994-2002).

## **Paul Kubes, Ph.D.**

**Present Position:** Professor, Department of Physiology & Biophysics, Chair, Immunology Research Group, Graduate Education Coordinator, Faculty of Medicine, University of Calgary, Calgary, AB.

**Education:** PhD, Physiology, Chris Chapler, Queen's University, Kingston, ON (1984-1988); Postdoctoral Training with Neil Granger, Physiology, LSU, Shreveport, LA (1988-1991);

**Honors and Awards:** 2003 Bowditch Award Lecture, Canada Research Chair Tier II, Experimental Biology '97 - Lamport Award; Canadian Association of Gastroenterology - Young Investigator Award, American Gastroenterological Association; Young Investigator Award, Microcirculatory Society - Wiederholm Award for original article, Microcirculation - Gerritsen Award for review article, Society for Leukocyte Biology 1998 Dolph Adams Award for Review Paper.

**Editorship:** Associate Editor, American Journal of Physiology: GI and Liver Physiology, Consulting Editor, Journal of Clinical Investigation.

**Editorial Boards:** Microcirculation, Microvascular Research, British Journal of Pharmacology; Shock

**Peer Review:** Immunity, Circulation Research, Shock, Circulation, Journal of Biological Chemistry, Journal of Experimental Medicine, Journal of Cell Biology, Blood, AJP: Heart & Circulation, AJP: GI and Liver Physiology, AJP: Lung, AJP: Integrative & Comparative, Gastroenterology, FASEB Journal, Journal of Immunology, Journal of Leukocyte Biology, American Journal of Pathology; Microcirculation; Microvascular Research

**Grant Review:** Cardiovascular B Canadian Institutes of Health, Canadian Heart and Stroke, NIH (ad hoc).

**Professional Societies:** Microcirculatory Society (Development Committee 1997-1999), American Immunology Society, American Physiological Society (Program Committee Cardiovascular, 1998), Leukocyte Biology, Canadian Immunology Society.

## **Lih Kuo, Ph.D.**

**Present Position:** Professor of Physiology, Cardiovascular Research Institute, The Texas A&M University System Health Science Center, College Station, TX.

**Education:** Ph.D. Medical College of Virginia (1987, Physiology); Postdoctoral Fellow and Assistant Research Scientist, College of Medicine, Texas A&M University (1988-1992, Microcirculation).

**Honors and Awards:** Forbes Research Paper Competition First Place Award, Medical College of Virginia, 1985; Grega-Zacharkow Young Investigator Award, Microcirculatory Society, 1990; International Symposium on Resistance Arteries Travel Award, Denmark, 1991; Outstanding Young Investigator

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Microcirculation World Congress Travel Award, Microcirculatory Society, 1991; FIRST Award, NIH, 1992-1997; Research Career Development Award, NIH, 1997-2002.

**Editorial Board:** American Journal of Physiology Heart and Circulatory Physiology, 1997-present.

**Grant Review:** Member of Central Research Review Committee, American Heart Association, 1992-1995; Member of Experimental Cardiovascular Sciences Study Section, NIH, 1994-1998; Merit Review, Cardiovascular Program Review Board, VA Medical Center, 1995-2002; Special Emphasis Panels, NHLBI, NIH, 1996-1998; Member of Cardiovascular Disease Study Section, California Tobacco-Related Disease Research Program, 2000-2002.

**Peer Review:** American Journal of Physiology; Arteriosclerosis, Thrombosis, and Vascular Biology; British Journal of Pharmacology; Canadian Journal of Physiology and Pharmacology; Cardiovascular Research; Circulation; Circulation Research; Endothelium; Journal of Pharmacology and Experimental Therapeutics; Journal of the American College of Cardiology; Journal of Applied Physiology; Journal of Vascular Research; Microcirculation; Stroke.

**Professional Societies:** Microcirculatory Society (Nomination Committee, 1997-2000); American Physiological Society (Fellow, Cardiovascular Section); American Heart Association (Fellow, Basic Cardiovascular Sciences).



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## **2002-2003 *Microcirculatory Society Ballot***

**Vote for ONE of the following for President-Elect:**

H. Glenn Bohlen \_\_\_\_\_

Robert Hester \_\_\_\_\_

**Vote for ONE of the following for Secretary:**

Cindy Meininger \_\_\_\_\_

**Vote for TWO of the following for Council:**

Chris Ellis \_\_\_\_\_

Molly Frame \_\_\_\_\_

Paul Kubes \_\_\_\_\_

Lih Kuo \_\_\_\_\_

**DEADLINE FOR RECEIPT: 5:00 P.M. EST, February 28, 2003**

Please return ballots to:

Steven S. Segal, Ph.D.  
Chair, Nominating Committee, The Microcirculatory Society  
Yale University School of Medicine  
290 Congress Avenue  
New Haven, Connecticut 06519  
Telephone: 203-562-9901 x253  
**Fax: 203-624-4950**  
E-mail: [sssegal@jbierce.org](mailto:sssegal@jbierce.org) OR  
[steven.segal@yale.edu](mailto:steven.segal@yale.edu)



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# ***Proposed Changes to Society By-Laws***

*The by-laws were updated and amended last year. The proposed changes to Section 11 were not included in that revision, and reflect experience gained over the last several months as we undertook the search for, and appointment of, our next journal editor.*

## **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 research and teaching leading to an increase in understanding of microcirculatory 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.**

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. Except in unusual circumstances, 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 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.

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## **Section 6. Honorary members.**

Individuals who have distinguished themselves by outstanding contributions in the study of micro-circulatory phenomena may be elected honorary members by a special act of commendation. 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.**

Two regular members of the Society shall join in the proposal of the person for regular, student, or associate or honorary membership on appropriate forms provided by the Secretary 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) 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 rolling 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 vote of the membership (through available means of communication). 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 annual regular 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

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**Section 3. President.**

The President shall preside at all meetings of the Council and business meetings of the Society, and shall be an ex-officio member of all standing committees, and shall have other duties as prescribed in the appendix of these bylaws. 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 have co-custody of a bank account to meet the day-to-day operational expenses of the Society. 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 available means of communication to perform these duties. The Secretary shall also keep a directory with the 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. The Treasurer shall also keep a directory with the 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. The Treasurer shall be chair of the Finance Committee to disburse the provision of Article VI, Section 4 of these bylaws.

**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

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in the Council and Business Meetings, without vote except as a member of the Society.

**Section 9. Nomination and election of Officers and Councilors.**

Nomination for all Officers and Council members of the Society will be obtained by mail, fax, or e-mail 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. 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. In years in which two members of the Council are to be elected, a total of not more than four nominees will be included on the ballot. Once the nominations are complete, each member will receive and return by mail, fax, or e-mail, the ballot of officers and Council members. The ballots will be returned to the Chair of the Nominating Committee for tabulation and determination of outcome. In the event that a majority vote for a given office is not obtained by regular vote, the Chair of the Nominating Committee will call immediately for a run-off election between the two candidates with the highest votes. The election will be conducted promptly by mail, fax, or e-mail.

**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. 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 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. A majority vote of Councilors in attendance (unless otherwise specified elsewhere), 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.

**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

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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 members appointed to the International Liaison committee, and the Secretary of the Society, and may include any 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 future strategies, plan meetings for the Society for a minimum of 5 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 seek new supporting and sustaining members of the Society, and shall consider and recommend fund-raising activities for Council consideration. Upon request of the President, this committee shall implement Council-approved fund-raising activities on behalf of the Society.

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## **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 which 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 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 awardees 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 as the official representative. 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, 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. The duties are to oversee the journals and other publications of the Society, particularly with respect to the scientific quality of the journals and the fiscal interests of the Society. They shall appoint Editors and editorial boards, prepare an annual summary report and an annual financial report, and in general, manage the publications of the Society under the policies determined by Council. The ownership of the title "Microcirculation" and the copyright of material published in the journal shall be held by MCS. The term of the Publications 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 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 will be at the recommendation to Council by a committee which 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 and the Editor of the journal, is responsible for oversight of contractual agreements between the publisher of the journal and MCS.**

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The Editor will nominate the Associate Editors and the Editorial Board. These appointments will be submitted to Council for approval. The Editorial Board members will be appointed for a two year term with one-third of the Editorial Board being ineligible for reappointment to a consecutive term. All members of the Editorial Board must be members of MCS.

### **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 MCS'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 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](http://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. The Communications committee will develop an annual report and budget for review by Council.

### **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 assess-

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ments 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, 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 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 and approved by the membership. 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 promptly be made available to any member entitled to vote, on request, but 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 a 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, 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.

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## ARTICLE IX. **Miscellaneous**

### **Section 1. Prohibitions.**

Notwithstanding any provision of these by laws 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.** 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. The Society shall not participate in or intervene (including publishing or distribution of statements) in any campaign of any candidate for governmental public office.
- e.** The Society is not organized for, nor is it to be operated for profit.
- f.** The membership list of the Society shall not be supplied to anyone for any purpose except as provided under Article VIII, Section 2, or except as specifically provided by Council.

### **Section 2. Fiscal Year.**

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

### **Section 3. Audit.**

All statements of net assets and related statements of income, expenditures, fund capital, and liabilities shall be audited annually in accord with the statutes of the Commonwealth of Massachusetts. The audit will be made annually by the Finance Committee and every third year by an independent auditing firm.

### **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 Council and Committees of the Society.

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## 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) ballot of the Society members by a vote of three-quarters (3/4) of the regular members and entitled to vote, provided notice of the proposed repeal, alteration or amendment, with a statement of the substance

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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. 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.