

The Microcirculatory Society, Inc.

Newsletter

Volume 29, Number 3

Winter 2002

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Officers

| | |
|-------------------------|--|
| President: | Ingrid H. Sarelius ingrid_sarelius@urmc.rochester.edu |
| President-elect: | Paul M. McDonagh pmcdonag@u.arizona.edu |
| Secretary: | Cynthia J. Meininger cjm@tamu.edu |
| Treasurer: | Ann Baldwin abaldwin@u.arizona.edu |
| Web Site: | http://microcirc.org |

President's Message

Ingrid H. Sarelius

Well - here we are in 2002 already! Like many of you I have no idea where 2001 went, but I do recall that the past year included a lot of travel, a lot of science, much friendship, and considerable effort on the part of many people on behalf of our society. These generous contributors of time and effort include Cindy Meininger, who is filling the perpetually underappreciated position of secretary with cheerful thoroughness; Ann Baldwin, who as treasurer has continued to keep us on the fiscal straight and narrow; and Walter Duran, who again this year was in charge of our annual programming efforts, that we will all sample in April. Our "web guy" Bob Gore has again worked overtime to keep us electronically connected, literate, and user-friendly, and our journal editor, Neil Granger, together with all his associate editors and managing editor Lauren VanderKuy, has continued the upward movement in visibility and quality of our journal. Our society is indeed fortunate to have such a core of sterling workers. There are, of course, many others who I have not mentioned individually. These include those members who willingly shouldered council and committee responsibilities; those who have contributed to preliminary planning for

the next World Congress; and those who have served on a variety of national and international bodies that support or impact our discipline of Microcirculation. Thank you everyone!

With respect to the next World Congress, planned for the US in 2005, things are in progress, but not quite in the direction that council anticipated this time last year. We expected to be hosting a congress in August 2005, immediately prior to the planned IUPS congress in Washington DC. However in a flurry of last minute reality planning that happened just before everyone traveled to Sydney for the Microcirculatory Congress and on to Christchurch for the IUPS, the plans for the IUPS meeting were modified to encompass a proposal to host that meeting in San Diego in March/April 2005, in conjunction with Experimental Biology. This has been ratified, and will happen. As a member of one of the host societies for IUPS, the Microcirculatory Society expects to contribute significantly and visibly to the IUPS congress, and your ideas for the program will be solicited - feel free to contact myself or any member of council with suggestions. However, the shift in timing of

President's Message, cont...

the IUPS congress impacts significantly on our planning for the World Congress. Council is working to figure out the best solution for scheduling our congress: several options are being explored, including a variety of venues and variety of timing in either 2005 or 2006. The issue will be resolved and announced by late spring.

Elsewhere in the newsletter you will find a call for nomination for the position of Editor of our journal, *Microcirculation*. Although Neil Granger's five year term as editor is not up until December 2003, the new appointment must be made by April 2003 to allow for a smooth transition between editorial offices. Thus it is not too soon to be thinking about who might take on this important task for the society; we hope that potential candidates will be able to meet with the Publications Committee at this year's EB meeting in New Orleans.

Also elsewhere in the newsletter you will find the program for our April meeting in New Orleans. It looks terrific and we hope that our members will participate fully in all our activities. Our meeting kicks off on Saturday afternoon and continues through Monday's poster sessions. I hope your travel plans for this meeting are well in hand!

Finally, best wishes to all for 2002! For those of you who so far this winter have snow you didn't expect, I wish you golden lightweight snow shovels; for those who have no snow when they should have lots, I wish you snowshoes with wheels. For everybody, may fun in the lab continue, interspersed with funded grants, published papers, and brilliant students.

Welcome to New MCS Members!

Regular Members:

Donald Puro, Ph.D.
University of Michigan

Timothy Nurkiewicz, Ph.D.
West Virginia University School of Medicine

Allen Burns, Ph.D.
Baylor College of Medicine

Associate Members:

Xiang Ni, Ph.D.
Temple University

Student Members:

Michael Kellen
University of Washington

Tasmia Duza
University of Rochester Medical Center

Jeffrey Olearczyk
St. Louis University

Jeffrey Scott
University of Western Ontario

Yuejie Gu
Temple University

Editor of Microcirculation

The Publications Committee seeks **nominations** for the position of Editor of the journal MICRO-CIRCULATION for a term of 5 years, beginning January 1, 2004.

The Editor should ideally be a member of the Microcirculatory Society whose recognized stature in the microcirculatory community is commensurate with the Society's goal of continuing to expand the excellence of the publication. Interested candidates should submit a CV and vision statement for the journal to:

Dr. Robert W. Gore
Chair, MCS Publications Committee
Dept. of Physiology
College of Medicine
University of Arizona
1501 N. Campbell Ave.
Tucson, AZ 85724

The successful candidate will be identified by April 2003 in order to work with the current editor and publisher to achieve a smooth transition between editorial offices. Nominations of candidates by others are also welcome. **The Publications Committee would like to begin interviewing potential candidates at the Annual Meeting in New Orleans this spring, so prompt submission of the candidate's data is desirable.**

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 all candidates put forth by the hard working Nominating Committee. Please return your ballots to Sarah Yuan as soon as possible. **The polls close on February 15, 2002 at 5:00 p.m. CST.**

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

Meeting Information

The 2002 meeting of the Microcirculatory Society will be held Saturday, April 20th to Monday, April 22nd. **Please note that there are several differences in the format of this year's program compared to earlier years.** This is due to the decision to further integrate the MCS meeting into the Experimental Biology meeting. As a result, **poster sessions for the MCS meeting will be held Sunday and Monday afternoon.**

Here are the highlights of the program [with more detailed information following]:

Saturday, April 20th

| | |
|------------------|--|
| 8 a.m. | MCS Executive Council Meeting (Trafalgar Room in the Hilton) |
| 3:15 – 5:15 p.m. | MCS President's Symposium (Room 221-222) |
| 5:30 p.m. | MCS General Business Meeting (Room 221-222) |

Sunday, April 21st

| | |
|------------------|--|
| 8 AM – 4:30 p.m. | MCS Poster Session I (Authors in attendance at posters from 12:45 to 2 PM) |
| 2 p.m. | Landis Award Lecture (Room 221-222) |
| 3:15 – 5:15 p.m. | MCS Young Investigators Session (Room 210) |
| 7 PM – 10 p.m. | MCS Banquet (Hilton Riverside Hotel Grand Ballroom C) |

Monday, April 22nd

| | |
|------------------|--|
| 8 AM – 4:30 p.m. | MCS Poster Session I I (Authors in attendance at posters from 12:45 to 3 PM) |
|------------------|--|

MCS President's Symposium
Saturday, April 20, 2002
3:15 – 5:15 PM
Ernest N. Morial Convention Center
Room 221-222

“Signaling in Cells of the Microvascular Wall”

Chair: Ingrid H. Sarelius

Speakers:

3:15 p.m. **Jean-Louis Beny**, University of Geneva
“Calcium signaling in smooth muscle and endothelial cells.”

3:45 p.m. **Michael Davis**, The Texas A & M Univ. System Health Science Center
“Integrin mediated control of smooth muscle ion channels”

4:15 p.m. Ulrich Pohl, University of Munich
“EDHF mediated signaling in microvascular walls”

4:45 p.m. Brian Duling, University of Virginia
“Gap junction mediated communication pathways”

MCS Young Investigators Session
Sunday, April 21, 2002
3:15 – 5:15 PM
Ernest N. Morial Convention Center
Room 210

Chair: **David Stepp**
Co-Chair: **Samina Kanwar**

Speakers:

Jerome W. Breslin
“The ERK-1/2 MAP kinase pathway regulates VEGF-induced hyperpermeability”

Shubha Varma

“PI-3K and Akt regulate cell proliferation of endothelial cells cultured under conditions of increased glucose concentration”

Sandra M. Merkel

“Culturing modulates the expression of caveolin-1, eNOS, and calmodulin in hepatic sinusoidal endothelial cells”

Keren M. Abberton

“A role for fibronectin in F-actin realignment in endothelial cells exposed to flow”

Ryoji Koshida

“Angiostatin inhibits nitric oxide-mediated dilation”

Zoltan Ungvari

“Functional and morphological evidence for increased peroxynitrite formation in hyperhomocysteinemia”

**Congratulations!!!
Landis Award 2002**

Dr. Robert W. Gore

Professor of Physiology, Cell Biology & Anatomy
University of Arizona Department of Physiology

MCS Landis Award Lecture

Sunday, April 21, 2002

2:00 – 3:00 p.m.

**Ernest N. Morial Convention Center
Room 221-222**

***Physical Determinants of Microvascular Function:
“When the student is ready, the teacher will appear”***

Dr. Robert W. Gore

To help you with your planning, here is the poster session schedule:

MCS POSTER SESSION I:

SUNDAY, April 21, 2002

8 a.m. – 4:30 p.m.

Ernest N. Morial Convention Center

1247 – APS Microvascular Pathophysiology

1245 – APS Microvascular Networks

1241 – APS Atherosclerosis/Thrombosis and Clinical Microcirculation

1249 - APS Microvascular Pharmacology/Vascular Control

MCS POSTER SESSION II

MONDAY, April 22, 2002

8 a.m. – 4:30 p.m.

Ernest N. Morial Convention Center

1248 – APS Microvascular Permeability/Exchange

1244 – APS Microvascular Cell and Molecular Biology

1240 – APS Angiogenesis/Microvascular Remodeling

1246 – APS Microvascular Mechanics and Hemodynamics

1242 – APS Flow Regulation; Oxygen Delivery

1243 – APS Instrumentation in Microcirculatory Research

The Microcirculatory Society will Co-Sponsor the following programs:

NEW PARADIGMS IN NEOVASCULARIZATION

(Sponsored by the APS Cardiovascular Section and The Microcirculatory Society)

SUNDAY 4/21 10:15 a.m. -12:15 p.m. — Ernest N. Morial Convention Center, Room 221-222

Chair: **Gina C. Schatteman**, University of Iowa

Co-Chair: **Takayuki Asahara**, St. Elizabeth's Medical Center, Boston

Presenters:

Chris Drake (Sources of Embryonic Vasculogenesis)

Mary Hendrix (Tumor Cell Derived Vasculogenesis)

Klaus Havemann (Monocytes and New Blood Vessel Growth)

Daniel Bowen-Pope (Origins of Smooth Muscle Cells after Birth)

MECHANISMS OF VASCULAR REMODELLING: TEMPORAL EVENTS FROM STIMULUS TO STRUCTURAL AND FUNCTIONAL CHANGES

(Sponsored by the APS Cardiovascular Section and The Microcirculatory Society)

MONDAY 4/22 3:15-5:15 p.m. — Ernest N. Morial Convention Center, Room 221-222

Chair: **Michael A. Hill**, RMIT University, Australia

Co-Chair: **Gerald A. Meininger**, The Texas A&M Univ. System Health Science Center

Participants:

Michael A. Hill (Introduction; Overview of Concepts Concerning Remodeling: Importance of the Temporal View)

Gerald A. Meininger (Extracellular Matrix and Integrin Interactions: Do Smooth Muscle Cells Move as Part of an Adaptive Remodeling Event?)

Susan Gunst (Role of Smooth Muscle Cytoskeletal Adaptations to Load as a Mechanism of Remodeling)

B. Lowell Langille (Signal Cascades Involved in Vascular Cell Remodeling in Response to Physical Forces)

Russell L. Prewitt (Vascular Remodeling in Hypertension: Vasoconstriction versus Growth Responses)

Ernesto L. Schiffrin (Functional and Structural Manifestations of Vascular Remodeling)

Cell signaling within the vascular wall will be highlighted with emphasis on the events that may link the acute vasomotor responses with longer time frame adaptive responses. Coverage will be given, in particular, to the involvement of cell junctions, matrix-integrin interactions and the cytoskeleton. To broaden the interest in the symposium, input will be drawn from both the smooth muscle and endothelial fields and responses to both agonist and physical stimuli will be considered.

Candidates for Office

President-Elect

William F. Jackson, Ph.D.

Present Position: Professor, Dept. of Biological Sciences, Western Michigan University.

Professional Experience: 1979-1980 Michigan State University, Department of Physiology, Postdoctoral Trainee; 1980-1983 University of Virginia, Department of Physiology, Postdoctoral Fellow; 1983-1989 Medical College of Georgia, Dept. of Physiology and Endocrinology, Assistant Professor; 1989 Medical College of Georgia, Dept. of Physiology and Endocrinology, Associate Professor; 1989-1993 Western Michigan University, Dept. of Biological Sciences, Associate Professor.

Honors and Awards: 1981-1983 National Institutes of Health, National Research Service Award, Individual Post-doctoral Fellowship; 1984-1987 National Institutes of Health, New Investigator Research Award; 1986-1987 Microcirculatory Society, Inc., Pharmacia Travel Award; 1987 Medical College of Georgia, School of Medicine, Outstanding Young Faculty Award; 1994 National Institutes of Health, Chairman, Clinical Sciences 2 Study Section; 1995-2004 Journal of Vascular Research, Editorial Board; 1995-1997 & 2001-2004 American Journal of Physiology, Heart and Circulatory Physiology, Editorial Board; 1995 American Physiological Society, Fellow of the Cardiovascular Section; 1995 National Institutes of Health, National Research Service Award, Senior Postdoctoral Fellowship; 1998 Western Michigan University, Distinguished Faculty Scholar Award; 2001-2004 Journal of Investigative Surgery, Editorial Board; 1999-2004 Microcirculation, Associate Editor.

Professional Activities: Microcirculatory Society: 1984-1987 Awards Committee; 1995-1997 Executive Council; 1997-2000 Publications Committee; 2001-2004 Finance Committee. American Heart Association: 1987-1989 GA Affiliate, Research Peer Review Committee; 1990-1992 MI Affiliate, Research Peer Review Committee; 1994-1997 MI Affiliate Research Forum Committee; 1996-2000 National Office, Cardiovascular Regulation 2 Peer Review Committee; 1999-2001 Great American Peer Review Committee 5C. National Institutes of Health: 1990-1994; Clinical Sciences 2 Study Section (Ad Hoc 1990-1991, member 1992-1994, chair 1994); 1994, 1998-2000; Exp. Cardiovasc. Sci. Study Section, Ad Hoc member. Invited reviewer for: Am. J. Physiol., J. Applied Physiol., Journal of Vascular Research, J. Physiol., Circ. Res., British J. Pharmacol., J. Gen. Pharmacol., Microcirculation, Microvasc. Res., Pflügers Archiv., J. Investigative Surg.

Professional Societies: American Heart Association Council on Circulation; American Physiological Society; Microcirculatory Society; North American Vascular Biology Organization; Sigma Xi.

Geert W. Schmid-Schönbein, Ph.D.

Present Position: Professor, Department of Bioengineering, University of California, San Diego.

Professional Experience: 1976 – 1979 Columbia University, College of Physicians and Surgeons, Department of Physiology, Staff Associate in Physiology; 1979-1984 University of California, San Diego, Assistant Professor of Bioengineering, 1984-1989 Associate Professor, 1989- 1994 Professor of Bioengineering; 1994 – present University of California, San Diego, Department of Bioengineering; 1998 – present, Department of Medicine, Adjunct Professor. Currently Member of University of California, San Diego Whitaker Institute for Biomedical Engineering, Member of Institute of Molecular Medicine, Member of Biomedical Science Graduate Program.

Honors and Awards: 1980 Malpighi Gold Medal: European Societies for Microcirculation; 1984 Abbott Award: European Societies for Microcirculation; 1988 Fellow, Cardiovascular Section, American Physiological Society; 1990 Melville Medal: American Society of Mechanical Engineering; 1991 Founding

Fellow, American Institute for Medical and Biological Engineering; 1992 Honorary Member, American Venous Forum; 1994 Lafon Award: European Societies for Microcirculation; 1997 Honorary Professor, Chinese Acad. of Sci., Peiking Union Medical College; 1997/1998, 1998/1999, 1999/2000 Teacher of the Year, Department of Bioengineering, UC San Diego; 1999 Ratchow-Memorial Gold Medal: European Societies for Phlebology; 1999 Distinguished Alumnus Lecture, Department of Bioengineering, U. C. San Diego; 2001, Fellow of the American Heart Association.

Professional Activities: 1990 Secretary General, 1. World Congress of Biomechanics, La Jolla; 1991 – 1992 President, Biomedical Engineering Society; 1997 Secretary General, Annual Fall Meeting of Biomedical Engineering Society; 1998 –present President, North American Society for Biorheology; 1998 – present Member, World Council on Biomechanics. NIH Renal -Cardiovascular Study Section Member 1983, 1984, 1990, 1991-1995; NIH Bioengineering Study Section 1984; NIH Workshop on Hyperbaric Oxygen,1989; NIH Heart Lung Blood Institute, Program Project Grant Division Special Study Section 1995, 1997; The Whitaker Foundation, Scientific Advisory Board, 1993 – present; Ad Hoc Reviewer for American Heart Association, Canadian Research Council, Swiss National Research Council, The Israel Science Foundation. Editorial Board Membership and Services: 1983 – present, Microvascular Research; 1986 – 1997 International Journal for Microcirculation; 1989 – present Biorheology; 1993 – present American Journal of Physiology, Heart and Circulation Physiology, Associate Editor 1993-1999, Consulting Editor 1999 – present; 1998 – present Journal of Vascular Research, Editorial Board Member; 2001-present; Biomechanics and Modeling in Mechanobiology, Charter Editorial Board Member. Reviewer for national and international journals in cardiovascular research including The Proceedings of the National Academy of Sciences USA, Science, Nature, Circulation Research, Journal of Clinical Investigation, Blood, Journal of Biomechanical Engineering. Council Memberships: 1988-1991 Biomedical Engineering Society; 1988 – 1991 Microcirculatory Society; 1987 – 1994 North American Society for Biorheology; 1996-present US National Committee on Biomechanics. Services to the Microcirculatory Society: Present member of the Publications Committee, past member of the Awards Committee and Liaison Committee.

Professional Societies: American Microcirculatory Society; European Microcirculatory Societies; Biomedical Engineering Society; American Physiological Society; North American Society for Biorheology; International Society for Biorheology; American Heart Association; American Academy of Mechanics; American Society of Mechanical Engineering; American Institute for Medical and Biological Engineering; American Venous Forum; North American Vascular Biology Organization.

Treasurer

Ann Baldwin, Ph.D.

Present Position: Professor, Department of Physiology, University of Arizona; Member of Physiological Sciences and Biomedical Engineering Graduate Interdisciplinary Programs.

Education: B.Sc., University of Bristol, UK; M.Sc., University of London, UK; Ph.D., University of London, UK.

Honors and Awards: Young Investigator Travel Award to attend Third World Congress for Microcirculation (1984); Lamport Award of the Cardiovascular Section of the American Physiological Society (1986); Travel Award from European Society for Microcirculation to attend 14th International Conference in Sweden (1986); Robert S. Flinn Merit Award for Junior Investigators, American Heart Association, Arizona Affiliate (1987); Travel Award from American Physiological Society to attend IUPS Conference in Helsinki (1989); Fellow of Cardiovascular Section of American Physiological Society (1993); Sarver Heart Center Award (1999).

Editorial Board: American Journal of Physiology, Heart and Circulatory Physiology (1996-2000);

American Journal of Physiology, Gastrointestinal (1999-2002); Microcirculation (1998-2002).

Grant Review: Member of NIH Study Section, Cardiovascular and Renal (1996-2000); American Heart Association, Southwest Research Peer Review Consortium, (1999); Veterans Administration Merit Grant Review (1994-2000); NIH HLB Program Project Review (2002); NSF Review Panel (2001).

Professional Activities: Publications Committee, The Microcirculatory Society (1987-1988); Membership Committee, The Microcirculatory Society (1990-1993); Education and Public Affairs Committee, Biomedical Engineering Society (1992-1995); Nominating Committee, The Microcirculatory Society (1993-1996), Chair (1995-96); Treasurer of The Microcirculatory Society (2000-2002).

Professional Societies: The Microcirculatory Society; North American Vascular Biology Organization; International Society of Biorheology; American Physiological Society; Council on Circulation, American Heart Association; International Society of Lymphology; American Association for the Advancement of Science.

Jeff C. Falcone, Ph.D.

Present Position: Associate Professor, Department of Physiology & Biophysics, Health Sciences Center, University of Louisville.

Education: B.A. Chemistry, Indiana Univ. NW; M.S., Physiology & Biophysics, Indiana Univ. School of Med.; Ph.D., Physiology & Biophysics, Indiana Univ. School of Med.

Honors and Awards: 1980 - 1982 Trustee, Indiana Univ. Student Fund; 1982 Certificate of Honors, Indiana Univ.; 1984 - 1989 Sigma Pi Alpha Scholastic Honor Society, Indiana Univ.; 1990 Fellowship Award, National Institutes of Health NRSA; 1991 Travel Award to the Fifth World Congress for Microcirculation; 1992 August Krogh Young Investigator Award of the Microcirculatory Society; 1994 Travel Award of the European Society for Microcirculation; 1998 Travel Award for Outstanding Young Investigator of the Microcirculatory Society.

Professional Experience: 1980-1983 Instructor, Department of Chemistry, Astronomy & Physics, Indiana Univ. NW; 1980 - 1983 Instructor, Department of Biology, Indiana Univ. NW; 1983 - 1988 Instructor, Department of Physiology & Biophysics, Indiana Univ. School of Med.; 1989 - 1991 Postdoctoral Fellow, Dept. of Medical Physiology, Texas A&M Univ.; 1991 - 1993 Assistant Research Scientist, Dept. of Medical Physiology, Texas A&M Univ.; 1993 - 1995 Research Assistant Professor, Dept. of Physiology, College of Med., Univ. of Kentucky; 1996 - 2001 Assistant Professor, Dept. of Physiology & Biophysics, Health Sciences Center, Univ. of Louisville; 2001 - Pres. Associate Professor, Dept. of Physiology & Biophysics, Health Sciences Center, Univ. of Louisville.

Editorial Board Member: Microcirculation; American Journal of Physiology, Heart and Circulatory Physiology.

Grant Review: American Heart Association, Mid-America Research Consortium, Kentucky Tobacco and Health Research Institute, Department of Defense (ABI; ad hoc).

Professional Activities: American Heart Association

Councilor

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,

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].

Ronald J. Korthuis, Ph.D.

Present Position: Professor of Physiology, Louisiana State University Health Sciences Center; Shreveport, LA.

Education: B.S., Michigan State University (1977, Zoology); Ph.D., Michigan State University (1983, Physiology); Postdoctoral fellow, University of South Alabama School of Medicine (Department of Physiology, 1983-1985).

Honors and Awards: Established Investigator, American Heart Association, 1988-1993; Fellow, Cardiovascular Section, American Physiological Society; Fellow, Council on Circulation, American Heart Association.

Editorial Boards: *Microcirculation*, 1993-2002; *American Journal of Physiology: Heart and Circulatory Physiology*, 1987-1999; *Journal of Applied Physiology*, 1991-1993.

Peer Review: NIH/NHLBI Cardiovascular and Renal B Study Section, regular member, 1995-1999; NIH RFA and PPG review teams (1991, 1993, 1994, 1994, 1994, 1999, 1999, 2000, 2000, 2001); American Heart Association (Louisiana Affiliate, 1989-1994; Southern Consortium, 1997-1999).

Professional Societies: Microcirculatory Society (Awards Committee, 1989 - 1992; Chairman, 1991-1992; Executive Council, 1992-1995; Publications Committee, 1993-1996; Development Committee, 1997-1999); American Physiological Society (Membership Committee, 1988 - 1991; Animal Use Committee, 1996-1999); European Society for Microcirculation; North American Vascular Biology Organization; American Gastroenterological Association (Intestinal Disorders Section, AGA Council Delegate, 1996-1999); American Heart Association (Steering Committee, Southern and Ohio Valley Research Consortium, 1996-2000, Chair, 1999-2000; Research Committee, Southeast Affiliate, 1999-2002; Chair 2000-2002; Executive Committee, Southern and Ohio Valley Research Consortium, 1997-2001; Chair 2000-2001; Board of Directors, Southeast Affiliate, 2000-2002; Research Funding and Peer Review Task Force, National Center, 2000-2001).

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: 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 Board: Microcirculation, Microvascular Research, British Journal of Pharmacology; Shock

Peer Reviewer: 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, Texas A&M University System Health Science Center.

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 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 Reviewer: 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, 1995-2001; Special Emphasis Panels, NHLBI, NIH, 1996-1998; Member of Cardiovascular Disease Study Section, California Tobacco-Related Disease Research Program, 2000-2001.

Journal Reviewer: 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).

2001-2002 Microcirculatory Society Ballot

Vote for ONE of the following for President-Elect:

William F. Jackson

Geert Schmid-Schoenbein

Vote for ONE of the following for Treasurer:

Ann Baldwin

Jeff Falcone

Vote for TWO of the following for Council:

Glenn Bohlen

Ron Korthuis

Paul Kubes

Lih Kuo

DEADLINE FOR RECEIPT: 5:00 P.M. CST, February 15, 2002

Please return ballots to:

Sarah Y. Yuan, M.D., Ph.D.

Chair, Nominating Committee, The Microcirculatory Society

Cardiovascular Research Institute

The Texas A&M University System Health Science Center

702 Southwest H.K. Dodgen Loop, Rm. 206C

Temple, Texas 76504

Telephone: 254-742-7036

Fax: 254-742-7145

E-mail: yuan@tamu.edu



Obituaries

Society Loses Another Member

Sidney S. Sobin, Ph.D., M.D. President of the Microcirculatory Society from 1965 to 1967 and recipient of the Landis Award in 1980 died in La Jolla, California on October 25, 2001. He was born January 1, 1914 in Bayonne, New Jersey, earned his Ph.D. in Physiology and M.D. from the University of Michigan and took post-doctoral training in the Dept of Physiology at Harvard. In 1949-50 he established and directed the Clinical Cardiology Laboratory at Children's Hospital, Los Angeles, the first such clinical laboratory in the western United States. From 1957 to 1993 he was Director of the American Heart Association Cardiovascular Research Laboratory (Loma Linda University Medicine, 1957-66; University of Southern California, 1966-93). He was an Adjunct Professor of Physiology and Bioengineering at the University of California, San Diego from 1977 until his death. Much of Dr. Sobin's research focused on the capillary bed of the lung in which he and Professor Y.C. Fung developed the "sheet flow" concept based on a detailed examination of the morphology and hemodynamics of this unique microvascular bed.

Among his many other awards and honors, he was an N.I.H. Research Career Awardee from 1962 – 1993. He received the Man of the Year Award, Children's Heart Foundation in 1967. He delivered the Commencement Address, University of Southern California School of Medicine in 1976. He was also a founding member of the American Institute of Medical and Biological Engineering in 1992.

His wife of forty-two years, Venus Sobin; son Dr. Paul Sobin; daughter Dione Sobin, and his son-in-law Dr. Matthew Singer, survive him.



Sidney Sobin, Ph.D., M.D.

Proposed Changes to 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 innovative research leading to an increase in knowledge of the molecular and cellular mechanisms regulating microcirculatory function in health and disease. microcirculation and associated phenomena of the blood and other extracellular fluids of the body, and the utilization of such knowledge. The interchange of knowledge, ideas and data can be realized through publication and interaction at national and international scientific meetings.

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.

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 commenda-

tion. 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 \$50.00 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 written](#) 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. [which follows the written ballot for election](#). 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 [written 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 Council or the full membership.

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 ~~plan the Annual Meeting of the Society, and undertake other such~~ 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 have access to 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 (except a bank account to meet the day-to-day operational expenses of the Society), 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 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 Secretary or 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 Secretary or 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 written 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.** a secret ballot election will be held as part of the next annual business meeting.

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 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 at an appropriate level of performance.](#)

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 3 [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.

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 years 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 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

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. 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 October 1 for the current fiscal year and shall be in arrears on December 31. 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. 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.

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 30th day of June 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.

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 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.