

The Microcirculatory Society, Inc.

Newsletter

Volume 31, Number 1

Summer 2003

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Officers

President:	G.W. Schmid-Schönbein gwss@bioeng.ucsd.edu
President-elect:	H. Glenn Bohlen gbohlen@iupui.edu
Secretary:	Cynthia J. Meininger cjm@tamu.edu
Treasurer:	Ann Baldwin abaldwin@u.arizona.edu
Web Site:	http://microcirc.org

President's Message

Geert Schmid-Schönbein

There can be no doubt that the person who will discover a method to treat a cancer deserves a handshake from every king and queen alive and deserves every award mankind is able to invent. But you know to whom the first prize will go? That is a person, who will one day describe to us at the molecular level how a perfectly normal cell, hidden somewhere deep in a human tissue, turns into a cancer cell. This will open the door to real prevention of cancer and I would not be surprised if that person will be a Microcirculationist, or at least it will be a person who *really* knows his way around in a living tissue and in the microcirculation. The same can be said for any other disease, from obesity to shock. There is a bright future for microvascular research, because there are so many important unresolved medical problems, for which we don't know how to exercise prevention. I heard one of the new presidential candidates for 2004 on our campus this month speak about the quest to conquer the path to true *prevention* of disease. What an opportunity in our lifetime!

In this spirit I thank you from the bottom of my heart for your trust to serve your Society during this year.

It is the 50th year. We will celebrate the Golden Jubilee on Friday, April 16, 2004, at the Natcher Conference Center of the National Institutes of Health in Bethesda with a one day symposium and a gala evening at the New Academy of Science Building in Washington DC. The celebration precedes our regular meeting with Experimental Biology on the following Saturday and Sunday. Bill Jackson and the Program Committee are developing a program that serves to examine the current status of hot topics in the past and topics for the future. The Historical Committee with Gabor Kaley, Bob McCusky, Herb Lipowsky, and Bob Gore are preparing a journey down microcirculation history lane starting with movies from August Krogh. We are planning the exhibition of posters of landmark studies. For example, Gene Renkin has agreed to prepare a poster about his 1948 paper with John Pappenheimer. This is a wonderful way to highlight the great achievements by the members of the Society. Please contact the Historical Committee if you would like to prepare a similar poster—they will be displayed at the New Academy of Science Building.

...continued from page 1

In addition to the regular Spring Meeting, we are actively moving forward with the planning of a self-standing Fall meeting together with the British Microcirculatory Society in 2005. Ann Baldwin is spearheading this effort. She chairs a Steering Committee with Matt Boegehold, Fitz-Roy Curry, Cindy Meininger, Dave Bates, Geraldine Clough, Paul Fraser, Giovanni Mann, Jeremy Pearson – the current president of the British Microcirculatory Society - and myself. The meeting is planned for September 10-13, 2005, at the University of New Hampshire. We will arrive on Saturday and hold the meeting from Sunday to Tuesday lunchtime. Giovanni Mann and Dave Bates suggested that we adopt a main theme: “Role of Reactive Oxygen Radicals in Vascular Cell Signaling in Health and Disease”. This would cover the actions of ROS in normal cells and in cells isolated from diseased vessels and could include presentations on studies *in vitro* and *in vivo*. Please forward any comments to Ann and Jeremy. The University of New Hampshire has a new Conference Center, which will be opening in the Fall 2003. Hotel rooms are available on campus. Further details will be sent to you when they become available. Please mark your calendar.

Thanks to the Past-President, Paul McDonough, our journal is in excellent shape. Paul, together with Bill Jackson, has finalized an excellent contract with Francis and Taylor Group, a publishing house that has experience in scientific publications and indicated great enthusiasm for our journal. We express again our appreciation to the outgoing Editor Neil Granger. Neil’s effort has put the journal in an excellent position. Together with his Associate Editors (Virginia Huxley, William Jackson, Francis Luscinskas, and Michael Wolin) and Managing Editor Lauren VanderKuy, Neil has greatly enhanced the visibility and quality of our journal. Bill Jackson will take over the office in October. Please support Bill by submission of your scientific work.

I would like to extend our warm congratulations to David Bates, University of Bristol, for winning the Christian Crone travel award for 2003. This year the award was issued by the Awards Committee (Leslie

Ritter, Chair) after the Spring Meeting. I am aware that David is already making his rounds somewhere in North America.

We will meet at Experimental Biology 2004 in Washington DC as a Guest Society of the American Physiological Society. The American Physiological Society plans to publish early announcements of special lectures, including our Landis Award Lecture. Therefore Leslie Ritter, Chair of the Awards Committee, will issue an early request for nominations this year—with a deadline of September 1. Please nominate candidates before this deadline. For further details please see the announcement in this Newsletter.

I would like to thank the following individuals for their service as past Chairs of Society Committees: Eugene Renkin (Historical Committee), Bob Gore (Publications Committee) and welcome the new chairs, Gabor Kaley and Virginia Huxley, respectively. Thank you to all other individuals who have agreed to serve in the future on the Society Committees. Their names are listed on page 9 of this Newsletter. Needless to say, this service is very much appreciated and makes the Microcirculatory Society serve your needs.

Remember, for our Society to continue to grow, we need to increase our participation. Every member should try to recruit a new member this year. The on-line membership application system is now up and running and available to expedite the recruitment process. To see the on-line membership application system, just go to the website and look in the “Membership” section. Or, click on the following URL:

[http://microcirc.org/MEMBER/
MemberApplication.html](http://microcirc.org/MEMBER/MemberApplication.html)

Best wishes for a wonderful summer.

General Business Meeting

April 12, 2003

San Diego Convention Center - Room 10 San Diego, California

Paul McDonagh, MCS President, called the meeting to order at 5:35 p.m. in Room 10 of San Diego Convention Center, San Diego, California. The minutes of the 2002 General Business Meeting were accepted as written.

Eulogy:

Dr. Robert Hester announced to the membership that Dr. Arthur Guyton had recently died. He then delivered a eulogy for Dr. Guyton.

Report from the Treasurer:

Ann Baldwin provided a report on the financial status of the Society. She presented the recommendation of the Executive Committee that dues be increased. The point was made that raising the dues could cause the Society to lose members at a time when the Society needs to recruit new members. Further discussion was deferred until after the Publications Committee report.

COMMITTEE REPORTS

Publications Committee:

Bob Gore presented a report for the Publications Committee. The Committee had two major tasks in 2002-2003: (1) Choose a new Editor for the Journal and (2) Choose a new Publisher for the Journal.

A request for nominations and applications for the position of Editor-in-Chief was submitted to the membership in November 2001. The candidates for the position were Klaus Ley (University of Virginia) and William (Bill) Jackson (Western Michigan University). Both candidates were interviewed by the Committee at the 2002 Annual Meeting in New Orleans and each candidate provided information about how they would structure their Editorial Board and Associate Editorships in view of their individual plans for advancing the quality and mission of the

Journal. The Committee recommended that Bill Jackson be chosen and its recommendation was approved by the Executive Council.

The Society contract with Nature Publishing Group ends December 2003. Two proposals were received, one from FASEB and one from Taylor & Francis Group. The Committee recommended that Taylor & Francis be chosen to take over publication beginning January 2004 and this recommendation was approved by the Executive Council.

Bob Gore informed the membership that the new Journal commitment requires 300 paid member subscriptions. The success of the Journal is also dependent on at least 100 institutional subscriptions. Each member needs to approach their institution to get the institution to subscribe. The Society will also have to find a way to remind people to pay their dues.

Programming Committee:

Bill Jackson presented a report from the Programming Committee. The total number of abstracts this year from MCS members was up from last year but still low compared to past years.

Bill reminded the membership that the IUPS meeting in 2005 would be folded into EB. The MCS will be a participating society in this meeting. Unfortunately, the normal MCS sessions will NOT be held at this meeting. Instead, the Society will have the chance to have more visibility via suggested symposia (as many as 5-10 symposia may be chosen). Bill Jackson and Ingrid Sarelius will be accepting proposals for symposia to be a part of the IUPS meeting. The deadline for submitting proposals is May 15th, 2003. The MCS website has a form for submission of symposia proposals. Members were reminded that the proposals should include a good international balance of speakers.

The 50th Anniversary of the MCS is next year. The Society will meet one day before EB, perhaps at the Natcher Auditorium at the NIH. The Gala Dinner will be held on this day as well.

The membership was informed that changes to Topic Categories in the EB program need to be submitted prior to May 9th so that they may be brought up at the Joint Programming Committee meeting.

Nominations Committee:

Steve Segal presented a report from the Nominations Committee. The Committee received only 14 nominations and only 76 votes were cast. New officers are: H. Glenn Bohlen (President-Elect), Cynthia (Cindy) Meininger (Secretary), Mary (Molly) Frame and Paul Kubes (Councilors).

Next year's ballot will include statements from the candidates indicating why they are running and their plans for the Society. Steve reminded the membership that voting can take place via email as well as fax.

Journal Report:

A report for the Journal was delivered by Paul McDonagh. Submissions to the Journal have been increasing every year, for the last several years. The transition to a new Publisher seems to be occurring smoothly.

Development Committee:

Jeff Falcone presented a report from the Development Committee. The Committee sent out 100 letters soliciting funds for awards and support of young investigators. The Committee received essentially no response from these letters. The Committee asks members to suggest key contacts from industry that might be approached for support.

Membership Committee:

Paul McDonagh gave a report for the Membership Committee. Sixteen people applied for membership in 2002. The Society needs to encourage more young people to join the Society.

A suggestion was made that there be a means of drafting accounts for payment of dues – perhaps on a monthly basis. The Membership Committee was charged with the task of exploring an automatic drafting system.

Historical Committee:

Geert Schmid-Schonbein presented a report for the Historical Committee. Geert has named Gabor Kaley as the new Chair of this Committee. He informed the membership that the Society still needs someone to write a history of the Society for the last 25 years.

Liaison Committee/Long Range Planning Committee:

Ingrid Sarelius provided both Committee reports. The issue of the IUPS meeting was already covered. The location of the next World Congress will be announced later in the meeting.

Web Report:

Bob Gore provided a report on the website. The on-line banquet ticket purchase process was established this year. An on-line membership application form/process will soon be available.

Rewards to the By-Laws:

The small proposed change is a formalization of how contractual agreements are done and was forgotten last year. Bill Jackson made a motion to accept the revision to the by-laws. Motion seconded. MOTION PASSED.

NEW BUSINESS

World Congress for Microcirculation:

Two proposals to host the World Congress in 2007 were received: One to host the Congress in Milwaukee in the summer and one to host the Congress in San Antonio in the fall. The Executive Council recommended the Milwaukee venue.

Bill Jackson will request that Taylor & Francis, the new Publisher of Microcirculation, publish the abstracts from the World Congress.

State of the Society:

There was extensive discussion on the issue of increasing dues for the Society. Ingrid Sarelius made a motion that postdocs pay dues at the student rate as long as they are postdocs. MOTION PASSED.

Ingrid Sarelius made a motion that Society dues be increased \$15 for 2004. MOTION PASSED.

A charge was made to all members to aggressively recruit new members for the Society.

In September of 2005 the European Society for Microcirculation would like to host a dual meeting with the MCS in the U.S. Proposals for the meeting can be forwarded to David Bates.

The meeting was adjourned at 7:05 p.m.

Postdoctoral Research Associate and Assistant Research Scientist Positions Available in Coronary and Retinal Microcirculation

**Cardiovascular Research Institute
Texas A&M University System HSC**

Postdoctoral Research Associate and Assistant Research Scientist positions are available for scientists interested in the physiology and pathophysiology of coronary and ophthalmic microcirculation.

The Cardiovascular Research Institute at The Texas A&M University System Health Science Center invites applications from highly motivated individuals (with Ph.D. or/and M.D./D.V.M.; Assistant Research Scientist position requires advanced degree and 3-4 years additional postdoctoral experience) to participate in studying vasoregulatory mechanisms in microvascular beds of the heart and eye. Individuals with backgrounds in medical science and vascular biology are encouraged to apply. Current approaches used to comprehensively study vasoregulatory mechanisms include isolated and perfused microvessels, cultured endothelial and smooth muscle cells, immunohistochemistry, transgenic animal models and biochemical/molecular biology techniques. A multitude of unique opportunities for microvascular study include metabolic vasoregulation, autoregulation, conducted vasoregulation, and angiogenesis under physiological and pathophysiological conditions such as ischemia/reperfusion, atherosclerosis, hypertension,

diabetes, inflammation, oxidative stress, vascular retinopathies, glaucoma, and macular degeneration.

Positions offer competitive salary and benefit package. Starting salaries may be negotiable based on qualifications and experience. Interested individuals should send letter of interest, résumé and names of three references to:

Dr. Lih Kuo
Department of Medical Physiology
Cardiovascular Research Institute
Texas A&M University System HSC
Medical Research Building
702 SW H.K. Dodgen Loop
Temple, TX 76504

Email inquiries to: LKUO@tamu.edu

For the **Postdoctoral Research Associate** position, apply for **Job #031020**. For the **Research Scientist** position, apply for **Job #031022**. You can apply for both positions online at <http://tamujobs.tamu.edu>. Staff can assist you at: Employment Office, Texas A&M University, 1475 TAMU, College Station, TX 77843-1475, Emplooffice@tamu.edu. Texas A&M University is an affirmative action/equal opportunity employer committed to diversity.

Announcements???
Job Openings????
Exciting News in
Microcirculation???

**For inclusion in the next
MCS Newsletter, contact:**

Cindy Meininger
(MCS Secretary)
CJM@TAMU.EDU

2003 Microcirculatory Society Treasurer's Report

Submitted by Ann L. Baldwin, MCS Treasurer

MCS Assets as of 2002 Meeting

Bank One Checking	02/28/02	25,266.89
Vanguard	03/22/02	89,093.27
Certificate of Deposit	03/22/02	81,771.48
TOTAL		\$196,131.64

MCS Assets 2003

Bank One Checking	02/28/03	33,010.54
Vanguard	03/27/03	74,834.19
Certificate of Deposit	03/26/03	84,227.99
TOTAL		\$189,332.72

MCS Income 2003

APS Contribution to MCS	10,000.00
Nature Publishing	13,000.00
MCS Dues from 2/28/02 - 2/28/03	16,416.37
Banquet Tickets 2002	4,386.00
Donation for Crone Award, 2003	2,000.00
Fine Science Tools 2002	3,000.00
Reimbursement from Hilton 2002	465.00
Donations for Young Investigator Travel Awards	190.00
TOTAL	\$49,457.37

MCS Expenses 2003

MCS Awards	13,550.76
MCS 2002 Banquet and Projector	7,952.89
Zweifach Medal Costs	1,099.83
Landis Award Certificate Costs	431.06
MCS 2002 Speaker Expenses	2,980.83
MCS 2002 Council Meeting 503.05	
Nature Publishing	
347 copies Vol. 9(1)	2,890.51
357 copies Vol. 9(2)	2,973.81
215 copies Vol. 9(3)	1,790.95
Journal Editorial Operation Budget 2002	4,000.00
Holly Lopez (Direct Operations)	616.00
Postage	478.03
Fed Tax Form Preparation	890.00
Stationary	628.71
Credit Card Fee	562.02
Bank Service Fee	110.19
Conference Call Fee	220.08
Commonwealth of MA Non-Profit Organization Fee	35.00
TOTAL	\$ 41,713.72
ACTUAL TOTAL	\$ 52,213.72

(Includes another \$3,000 for Journal Operation Costs & \$7,500 Managing Editor Stipend)

MCS Awards Sponsorships

Crone Award -

Funded for 1 more year (Anonymous Donor)

Krogh Young Investigator Award -

No funding for new awardees

Donations

Special thanks to the following Members for their contribution towards the Student Travel Awards:

Ann Baldwin

John Bevan

Shu Chien

Robert Gore

Fruzsina Johnson

Julian Lombard

Donald MacDonald

Timothy Secomb

William Stekiel

William Halpern, Living Systems Instrumentation

Society Awards

Eugene M. Landis Award	\$2,000
Crone Award	\$2,000
August Krogh Young Investigator Award	\$1,000
Microcirculatory Society Travel Award	\$2,000
Excellence in Lymphatic Research	\$500
Zweifach Student Awards (5 @ \$500 each)	\$2,500
Total Cost	\$10,000

Membership Data

Names in Database	737
Inactive Members	141
Emeritus Members	55
Deceased	27
Possible Dues Paying Members	514
Paid Members for 2002	290
Unpaid Members for 2002	224
Paid Members as of 3/31/03 for 2003	107

Proposal for Increasing MCS Dues

Current Editorial Costs

Managing Editor Stipend

7,500

Editorial Operations

7,000

Travel Expense

0

Total

14,500

Nature Pays

(12,000)

Total Paid by MCS

2,500

Proposed Editorial Costs

Stipend

\$10,000

Editorial Operations

\$7,500

Travel Expenses

\$1,500

Total

\$19,000

Taylor & Francis Pays

(\$9,000)

Total Paid by MCS

\$10,000

Current Annual Payment to Publisher

Vol. 8 (2001/02)

\$16,235.17

Proposed Annual Payment to Publisher

\$60 x 291 subscriptions

\$17,460

Difference in Costs between Current and Proposed Arrangements

Editorial Costs

\$7,500.00

Increase

Publisher Costs

\$1,224.83

Increase

Total Increase

\$8,724.83

Proposed Dues Increase

$\$8724.83 \div 291 \sim \30



Microcirculatory Society Committees

<i>Committee Members</i>	<i>Term</i>	<i>Telephone No.</i>	<i>Committee Members</i>	<i>Term</i>	<i>Telephone No.</i>
<u>Executive Council</u>					
Robert Hester	(04)	601-984-1816	Fitz-Roy Curry	(05)	530-752-1973
Matthew Boegehold	(04)	304-293-5240	Roland Pittman	(04)	804-828-9545
H. Glenn Bohlen	(05)	317-274-8770			
Ronald Korthuis	(05)	318-675-6028			
Paul Kubes	(06)	403-220-8558			
Mary (Molly) Frame	(06)	631-444-2320			
<u>Awards</u>					
Fay Hansen-Smith	(04)	248-370-3574	Schmid-Schönbein (C)	(04)	858-534-3852
Andy Greene	(04)	414-456-5532	Cindy Meininger	(05)	254-742-7037
Leslie Ritter (C)	(05)	520-626-7434	Robert Gore	(04)	520-626-6569
Joseph Benoit	(05)	701-777-4388	Bruce Klitzman (ESM)	(04)	919-684-6686
Terrence (Terry) Sweeney	(06)	570-941-7623	Makoto Suematsu	(06)	81-3-5363-3753
Russell Prewitt (VC)	(06)	757-446-5105	Paul Kubes	(06)	403-220-8558
			Virginia Huxley (IUPS)	(06)	573-882-8069
<u>Development</u>					
Matthew Boegehold	(04)	304-293-5240			
Jeff Falcone (C)	(04)	502-852-5384			
Mike Doyle	(04)	303-541-3453			
Michelle Mazzoni	(06)	858-410-5189			
Mary Gerritsen	(06)	650-244-6854			
Jay Tuttle	(06)	760-510-1404			
<u>Finance</u>					
Ann Baldwin (C)	(04)	520-626-6264	Mary (Molly) Frame (C)	(04)	631-444-2320
David Sims	(05)	902-566-0812	Judy Muller-Delp	(04)	979-458-3502
Tim Secomb	(06)	520-626-4513	Travis Hein	(05)	979-845-0589
Roger Adamson	(06)	530-752-2180	Chris Ellis	(05)	519-661-3100
			Dick Slaaf	(06)	31-43-3881657 / 59
			Dave Zawieja	(06)	979-845-7465
<u>Historical</u>					
Gabor Kaley(C)	(03)	914-594-4089			
Paul Johnson	(04)	619-534-5686			
Robert Gore	(05)	520-626-6569			
Robert McCuskey	(06)	520-626-6084			
Herb Lipowsky	(06)	814-865-1407			
Ronald Tuma	(06)	215-707-3248			
<u>Long-Range Planning</u>					
Paul McDonagh (C)	(13)	520-626-2329			
Ingrid Sarelius	(12)	716-275-7729			
Walter Duran	(11)	973-972-4372			
Ronald Tuma	(10)	215-707-3248			
Bruce Klitzman	(09)	919-684-6686			
Julian Lombard	(08)	414-456-8530			
Virginia Huxley	(07)	573-882-8069			
Gerald Meininger	(06)	979-845-7491			
<u>Long-Range Planning, cont...</u>					
<u>Liaison</u>					
<u>Membership</u>					
<u>Nominating</u>					
<u>Program</u>					
<u>Publication</u>					

Welcome to New MCS Members!

Regular Members:

Zoe L.S. Brookes
Hailamshire Hospital
University of Sheffield
Sheffield, United Kingdom

Anna Csiszar
Department of Physiology
New York Medical College
Valhalla, New York

Chandrakala Menon
Harrison Department of Surgical Research
University of Pennsylvania
Philadelphia, Pennsylvania

Douglas Fraker
Department of Surgery
University of Pennsylvania
Philadelphia, Pennsylvania

Johnathan Tune
Department of Integrative Physiology
University of North Texas HSC
Ft. Worth, Texas

Alexander Simon
Department of Physiology
University of Arizona College of Medicine
Tucson, Arizona

Kai Singbarti
Klinik und Poliklinik für Anästhesiologie
und operative Intensivmedizin
Universitätsklinikum Münster
Münster, Germany

Thomas Davis
Department of Pharmacology
University of Arizona College of Medicine
Tucson, Arizona

Student Members:

Zoe Cohen
Department of Physiology
University of Arizona College of Medicine
Tucson, Arizona

Luciana Neves Torres
Department of Physiology
Virginia Commonwealth University
Richmond, Virginia

New Officers

President-Elect: H. Glenn Bohlen
Secretary: Cindy Meininger
Councilors: Molly Frame
Paul Kubes

The Society thanks Steve Segal and members of the Nominations Committee for their efforts. Welcome to the new leaders of the Society.

Congratulations!

Paul F. McDonagh

named

Allan C. Hudson and Helen Lovaas
Endowed Chair of
Vascular Biology and Coagulation

Arizona Sarver Heart Center
University of Arizona
Health Sciences Center

Call for Nominations

Eugene M. Landis Research Award



**Eugene M.
Landis
(1901 - 1987)**

DEADLINE: **September 1, 2003**

REMEMBER: SOONER IS BETTER!

Address for All Award Correspondence:

Leslie Ritter, Ph.D.

Chair, MCS Awards Committee

Department of Neurology, University of Arizona,

P.O Box 245023

1501 N. Campbell Avenue

Tucson, AZ 85724-5023

Fax: 520-626-2111

email: lsr@u.arizona.edu

This annual award was established in 1969 to recognize an outstanding investigator in the field of Microcirculation who is in residence in the United States or Canada. The awardee is expected to be an active investigator who has published and continues to provide meritorious research in the field of Microcirculation. The award consists of a certificate and \$2000 to be used at the discretion of the awardee. To nominate an individual for this award, a letter of nomination describing the nominee's most important work, a current CV, including a list of the nominee's 10 most significant publications from the last 10 years, should be forwarded to the Chairman of the Awards Committee prior to September 1, 2003. The award will be presented at the annual meeting and the awardee will be invited to present a brief summary of his or her professional and research career activities.

Obituaries

Dr. Christopher A. Dawson

Christopher A. Dawson, Ph.D., Professor and eminent research scientist died suddenly and unexpectedly this weekend. He is recognized as an inspirational mentor and model researcher, and has had a profound influence as a teacher and faculty leader at the Medical College of Wisconsin. Dr. Dawson was born in 1942 in Long Beach, California and received his Ph.D degree in the Physiological Sciences at the University of California, Santa Barbara in 1969. As a Professor of Physiology and Medicine at the Medical College of Wisconsin and at Marquette University in the Department of Biomedical Engineering, he was recognized as one of the world's experts in the circulation within the lung. As documented by more than 200 original research publications and 22 invited reviews and book chapters, he and his associates pioneered many novel technologies that revealed important functions of the lung that were previously unknown. He served as an Associate Editor of the major research journal in his field, the Journal of Applied Physiology. His scholarly and multifaceted works were supported continuously since 1971 by the Department of Veterans Affairs and the National Institutes of Health. His research led to the discovery that the lining of the blood vessels in the lungs contribute importantly to the regulation of hormones that modify blood flow and other functions in the body.

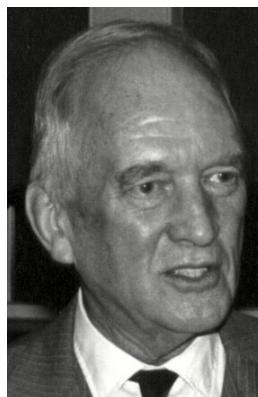
His quiet and humble manner, exacting scientific standards, and selfless encouragement of other researchers made him a highly sought source of sound advice. Dr. Dawson's research laboratories were located at the Zablocki Veterans Affairs Medical Center where he collaborated closely with a number of bioengineers at Marquette University and with the physicians and basic science faculty of the Medical College of Wisconsin, the Zablocki Veterans Hospital, the Froedtert Lutheran Memorial Hospital, and the Children's Hospital of Southeast Wisconsin. For his internationally-recognized contributions to lung

research, Dr. Dawson was given the Medical Career Scientist Award by the Department of Veterans Affairs in 1999; in the same year he received the Distinguished Service Award by the Medical College of Wisconsin.

Dr. Dawson is survived by his wife Michal Ann; his daughter Marcey Kay, her husband Keith Gulley, and their son Dawson Gulley; his son Brian Christopher, wife Cecilia, and their daughter Kana Rose; his mother Elvira and father Alfred; and, his brother Mark and wife Rebecca.

A memorial service will be held Thursday, July 17, 4:00-6:00 p.m. at the Milwaukee County Transit Center, Harbor Lights Room, 909 East Wisconsin. All donations should be directed to the Downtown Branch of the YMCA, 161 West Wisconsin, Milwaukee, WI 53203.

Dr. John Wellington Irwin



John Wellington Irwin, M.D., died on May 12, 2003 at Emerson Hospital, Concord, Massachusetts. He was born on October 25, 1915 in Corry, Pennsylvania to Maude and Claude Irwin and was first in his class at Union Endicott High School in Endicott, New York. He was a graduate of Hamilton College and received his M.D. from the University of Pennsylvania in 1942 after which he served an internship at Binghamton City Hospital and a residency at the Veterans Hospital in Framingham, Massachusetts. During World War II he served as a lieutenant at Billings General Hospital in 1943 and transferred to Cushing General Hospital in Framingham as a captain, eventually receiving a medical discharge be-

cause of his asthma. Licensed to practice medicine in Massachusetts, New York and Pennsylvania, he settled in the Boston area (at the Massachusetts General Hospital) after spending a postdoctoral year (1949-1950) with Dr. Melvin Knisely in Charleston, SC studying microcirculation. He became a member of the Massachusetts Medical Society in 1951 and was appointed a Clinical Research Fellow at the Massachusetts General Hospital (MGH) in 1956 at which time he joined the Massachusetts Eye and Ear Infirmary (MEEI) eventually becoming the Coordinator of Research for Otolaryngology. Throughout the remainder of his career, he continued to see patients while conducting research on the blood supply to the lungs and ear. As a member of the Harvard Medical School community, he taught students and fellows in his Microcirculatory Laboratory at the MEEI. He was instrumental in establishing the Eaton-Peabody Laboratory, which is today one of the leading laboratories studying hearing. He was a member of the American Medical Association; American Academy of Allergy, Asthma and Immunology; the Association for Research in Otolaryngology the American Association of Anatomists; and the New York Academy of Sciences. He was a founding member of the United States Microcirculatory Society and played a leading role in advancing the Microcirculatory Society to its current important role in the vascular research community. Dr. Irwin was also a founding member of the European Microcirculation Society. He served on many advisory committees for the National Institutes of Health, including the Health Research Facilities Scientific Review Committee and the Physiology Training. He retired in 1982 to his home in Lincoln, Massachusetts, but continued his well-known interest in international travel.

He was married to Mary Minor Irwin who preceded him in death October 11, 2002. They leave two daughters, Susan Irwin Schneider of Chevy Chase, MD and Sara L. Irwin of Cypress, TX and two grandchildren, Alexander and Lydia Schneider of Chevy Chase.

Memorial presentation

given by Dr. Robert McCuskey
at the Memorial Program for

John W. Irwin, M.D.

July 23, 2003
Massachusetts Ear and Eye Infirmary.

I would like to share a few remembrances of John Irwin, not only personally as his friend and colleague for more than 40 years, but also officially as the President of the American Association of Anatomists and as a representative for Dr. Geert Schmid-Shoenbein, President of The Microcirculatory Society, Inc. Jon was an active member of both societies and was instrumental in the formation of both organizations.

I first met John Irwin in 1959 while a student in the laboratory of his close friend and colleague, Edward H. Bloch—known as Maxl to his friends. Both John and Maxl were extremely supportive and kind to me, not only while I was a student, but also during my entire professional career.

John and Maxl both received their microcirculatory training in the laboratory of Melvin H. Knisely. To their embarrassment, Melvin often introduced them as his intellectual children—and me as his intellectual grand child! In 1954, John and Maxl organized the First Microcirculatory Conference and the formation of The Microcirculatory Society, Inc. It was held in conjunction with the annual meeting of the American Association of Anatomists in Galveston, Texas. John later was instrumental in the formation of the European Microcirculatory Society. Until the mid-1980's, John attended the meetings of these organizations, often sitting in the front row ready to ask penetration questions or make substantive comments. His attendance at the European meetings lasted until a few years ago.

John had a very special personality. When John and Maxl roomed together at various scientific meetings, they were in competition with each other as to who

could travel with the least amount of clothes and luggage. Daily laundry was routine as were washable Brooks Brothers suits. At these meetings, I frequently was invited to join them on their gastronomic adventures. These always were both enjoyable and entertaining given their highly opinionated preferences for food and restaurants as well as hotels. John took the forefront here—the Ritz in Boston for the finest dining and room accommodations in Boston, the Oak Room at the Plaza in New York, Herrdegan's in Mannheim, Germany for lunch—especially the soup—the Oeler Hotel in Basel, Switzerland for “the best liver in the world.” During one of his visits to the Urbascheks’ Institute at the University of Heidelberg, John took the train to Basel to have liver for lunch! At the 1st World Congress for Microcirculation in Toronto in 1975, John and Mary shared a table with Bernhard and Renate Urbaschek, Maxl, my wife and me. It was an outdoor ox roast barbecue with dinner provided buffet style—this was not acceptable to John—he refused to stand in line or let anyone bring him any food so “crudely” prepared and served! Later to everyone’s surprise, especially Mary’s, he joined in square dancing.

The last time I saw John was in Heidelberg in 1996. We both had attended the 6th World Congress for Microcirculation in Munich and subsequently were visiting the Urbascheks. As usual, John stayed at the Europaischehof Hotel where we had, what turned out to be our last dinner together in the hotel’s excellent restaurant, In der Kurzfurstenstubbe.

On behalf of The Microcirculatory Society, the American Association of Anatomists, as well as myself personally—farewell old friend and colleague—you will be missed, but will remain in our memories for your special personality and numerous professional contributions.

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.

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Changes to Society By-Laws

The by-laws were updated and amended last year. The proposed changes to Section 11 of Article VI 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.

Section 6. Honorary members.

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

mined 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.

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.

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 recommenda-

tions, 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.

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, 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 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, 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.

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.

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.