

The Microcirculatory Society, Inc.

Newsletter

Volume 26, Number 3

Winter, 1998

Contents

President's Message
Meeting Information
Ballot for Society Officers with mini CVs
List of New Members
Final Version of By-Laws to be voted on
at Business Meeting
Banquet Info and Ticket Request Form



Problems or General Comments, please contact:

Rebecca Loden

at

Associated Management Services

E-mail: RL@plasticsurgery.org

phone: (847)-228-8375

President's Message

Bruce Klitzman

The state of the Microcirculatory Society is excellent. While the quality of the science remains high, it is the continued spirit of collegiality within the Society that creates a special atmosphere. As funding gets tighter and tighter, there seems to be a steady decline in the time investigators are willing to spend to help associates when the benefit of such effort is not readily apparent. Pressure continues to increase for each one of us to be more efficient with our time. Endeavors for which the payoff may be low or very long term are viewed by many as examples of becoming "unfocused".

There are several financial challenges facing the Society. Due to changes in meeting format and organization, the funds realized by the Society annually have declined in the past several years. Some new directions in meeting design and structure that would be more beneficial to us will be discussed at the Business Meeting this spring. The bottom line is that without ultimate control, we are at the mercy of others. The meeting this spring is under the expert leadership of Ron Tuma, who has assembled an exciting program.

Our contract with Associated Management Services is coming to an end. An important decision facing us this spring will be whether to go with professional

Society management or go back to self-management. There have been a number of administrative problems we have encountered in the past few years. Most importantly are the problems with our directory and with our dues collection. With the devoted assistance of Bob Gore, an electronic membership directory is being generated that will soon be available online at our web site.

The Society journal, *Microcirculation*, is entering a new phase. We are greatly indebted to Mary Gerritsen for her leadership in giving the journal an admirable birth. We could not have found a more enthusiastic, capable, and energetic Editor-in-Chief as Mary's successor than Neil Granger (and his assistant, Lauren VanderKuy). The problems encountered over the past eight months with the previous publisher need not be (and legally cannot be) retold here. Those of us involved in this problem have unfortunately learned considerably. The vision that Stockton Press, the new publisher, has for *Microcirculation* is exciting, and their commitment and dedication for propelling the journal to prominence and profitability is reassuring and greatly welcomed. We must all share in the responsibility for sending good work to the journal and supporting it to make sure that the goals shared by us and

by Stockton are met.

A special thanks goes out to those who have contributed to the success of the Society this year. A heartfelt thanks goes to Mary Ellsworth for her job as Secretary. Also, Paul McDonagh as Trea-

surer deserves a warm debt of gratitude. I am well aware of the extensive time commitments required by these two positions in particular. Appreciation is also expressed for those who have served as Chairs and members of the Standing Committees and who have generously given of their time.

Banquet News!

Have we got a Banquet for you!

The Cosmos Club



a private, social club for individuals of distinction, character and sociability, incorporated in Washington D.C. in 1878 by men active in science, literature and the arts. Among its members, through the years, have been three Presidents, two Vice Presidents, a dozen Supreme Court Justices, 29 Nobel Prize winners and 50 Pulitzer Prize winners.

The Cosmos Club was founded in the home of John Wesley Powell, one of the most distinguished geologists of his time. From 1886 to 1952, the Club was located in several historic residences along the northeast corner of Lafayette Square, including the Dolley Madison House. It is currently located in a lavish, French Renaissance structure the main portion of which was built in 1873 by Curtis Justin Hillyer. (Check out our Web site for pictures of this wonderful site)

Thanks to the efforts of Dr. Gregory Bulkeley a MCS and Cosmos Club member, we are fortunate to be able to experience this elite, historic atmosphere. Please plan to join us on Friday, April 16, 1999. The cost of the dinner will be \$50.00 which will include wine with dinner. Space is limited to 150 so reserve your seat early. All tickets must be obtained by March 15, 1999. To obtain yours, send a check along with the enclosed form to Dr. Paul McDonagh. European members may send their check to Dr. Dick Slaff.

It should be a night to remember and most likely your one and only opportunity to experience this historic venue. Please note that it is the policy of the Club that a jacket and tie (or the equivalent) is required for entry.

New Members

Regular Members:

Coral L. Murrant, Univ. of Rochester, Rochester, NY
J. Russell Linderman, Med. College of Wisconsin, Milwaukee, WI
Min Zing, Univ. of California - Davis, CA

Student Members:

Cameron Wallace Lush, London Health Sciences Centre, London, Ontario, Canada
Jay L. Tuttle, Univ. of Louisville, Louisville, KY
Darcy Lidington, Univ. of Western Ontario, London, Ontario, Canada
David Garth Meldrum, Las Vegas, NV
Jeffrey J. Legos, Philadelphia, PA

Regular Member to Emeritus Member:

J. David Hellums, Rice University, Houston, TX

Welcome!



Secretary's Corner

Meeting Information

The 1999 meeting of the Microcirculatory Society will be held April 16-18 in Washington, D.C. Our meeting is being held prior to and in conjunction with Experimental Biology '99 (EB'99). Posters will be presented Friday afternoon and Saturday morning and afternoon. The President-Elect's symposium entitled "Microcirculatory Studies of Inflammation and Immune Function" will be presented Saturday afternoon with the Landis Award Lecture scheduled for Sunday. The Business meeting will be held Friday afternoon with the Executive Council meeting scheduled for Friday morning beginning at 8:00. The Banquet is scheduled for Friday evening at the Cosmos Club in Downtown Washington. Tickets are \$50.00 each, a real steal for D.C.!

You will notice that registration for the EB meeting is significantly less expensive for both members (\$150 vs \$200 USD) and nonmembers (\$210 vs \$260) if you pay in advance. Even Students will receive a \$10 discount for preregistration. We would encourage you to preregister as it will make your life less hectic and we are all looking for ways of doing that. However, if you really must procrastinate and put it off until the meeting, registration will be opening Friday at 1:00 in the Washington Convention Center so you will be able to register and get a name badge at that time so you won't have to attend *incognito*.

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 Roger Adamson as soon as possible. The polls close on February 4, 1999 at 5:00 EST. Don't miss your chance to make a difference!

By-Laws Need Approval

In the June Issue of the Newsletter, Dr. Virginia Huxley requested comments on the changes to the Society's By-laws. While comments were not numerous, a few changes were made to those published previously. Therefore, contained in this newsletter is the final version which will be voted on at the Society Business Meeting in Washington, D.C. in April. Please read these over and be prepared to vote. The Society thanks Dr. Huxley for helping to make our By-Laws more realistic and usable in the fast changing technological world.

**Don't Forget
to Pay Your
Dues!**



**NO DUES.....NO JOURNAL
NO EXCEPTIONS!**

Many of you have yet to pay your dues for 1998 which were due last December! We have been very generous in sending the Journal to everyone irrespective of their dues status. That has to change as the Society can no longer afford such a luxury. We would really like to know what it will take to get you to pay up! It isn't fair to the members who do pay. We may have to enforce the By-laws and drop those who have not paid from the membership roles. We don't want to have to do that but you may leave us no choice. Any other suggestions?

Mini-CVs for Candidates

President-Elect

Walter N. Durán, Ph.D.: Present Position: Professor of Physiology and of Surgery; Director, Program in Vascular Biology, New Jersey Medical School, University of Medicine and Dentistry of New Jersey, Newark, NJ. Education: Ph. D. (1974), Physiology and Pharmacology, Duke University, Durham, NC. Previous Positions: Medical Research Assistant Professor of Physiology and of Experimental Surgery, Duke University Medical Center (1974-1977); Assistant Professor (1977-1979), Associate Professor (1979-1988); Chief, Division of Microcirculatory Research (1988-1995), Department of Physiology, UMDNJ- New Jersey Medical School. Professional Societies: The Microcirculatory Society, Inc.: Membership Committee (1980-1984), Chairman, Membership Committee (1984); Council Member (1984-1987); Awards Committee (1987-1990), Nominations Committee (Chair, 1997-1998). American Heart Association: Fellow, Council on Circulation; Member, Research Programs Evaluation Committee (RPEC, 1997 -2000); Chair, RPEC Peer Review Subcommittee (1998-2000); Member, Research Committee, Heritage Affiliate (1998-1999). American Physiological Society: International Physiology Committee (1997-1999); Fellow, Cardiovascular Section (CVS); CVS Fellowship Committee (1995-1998), Chair, CVS Fellowship Committee (1998-2000); Member CVS Steering Committee (1998-2000). Editorial Boards: American Journal of Physiology: Heart & Circulatory Physiology (1989-Date); Associate Editor, Microvascular Research (1990 - Date). Honors and Awards: CONICYT Fellowship (1968-1969); The Pharmacia Travel Award of the Microcirculatory Society (1978); The Microsearch Foundation Lecture, Sydney, Australia (1981); AHA-Established Investigator Award (1983-1988); AHA-NJ Affiliate Research Volunteer Award (1993); UMDNJ University Excellence Award in Biomedical Research (1995); Invited Plenary Lecture Speaker, Third Asian Congress on Microcirculation, Bangkok, Thailand (1997); Speaker, Workshop "Nitric Oxide and Microcirculation", IUPS Congress, St. Petersburg, Russia (1997). Seminar Speaker, Department of Surgery, People's Hospital of Shenzhen, Shenzhen, People's Republic of China (1997). Ad hoc Peer Review: NIH Cardiovascular and Renal Study Section (1978, 1983); NIH Site Visiting Teams (NIGMS 1978, 2/79, 6/79; NHLBI 1982); NIH DRG Special Study Section (1983); NIH Experimental Cardiovascular Sciences Study section (1988); NIH Metabolic Pathology Special Study Section (1989). Regular Member Peer Review: NIH DRG Experimental Cardiovascular Sciences Study Section (1990-1994); NIH National Reviewers Reserve (1994-1998); AHA- NJ Affiliate Peer Review Committee (1987- 1997; Chairman, 1995 - 1997); AHA Affiliate Study Group D (1995-1997).

William Chillian, Ph.D.: Professional Experience: Professor, Department of Physiology, Medical College of Wisconsin, 1996-present; Professor, Department of Medical Physiology, Texas A & M University Health Science Center, 1995-1996; Visiting Scholar, Max-Planck-Institute for Experimental Cardiology, 1993-1994; Associate Professor and Assistant Professor in the Department of Medical Physiology, Texas A & M University Health Science Center, 1987-1995; Honors and Awards: Distinguished Teaching Award, Association of Former Students of Texas A & M University; Associate Editor, American Journal of Physiology: Heart and Circulatory Physiology, 1993-1995, 1999-present; Editorial Boards: Circulation, 1993-present; Basic Research In Cardiology, 1993-present; American Journal of Physiology, 1992-present Microcirculation, 1999-present; Associate Societies: American Physiological Society, Microcirculatory Society, and American Heart Association (Councils on Circulation and Basic Science); National and International Service: Grant Reviews: National Institutes of Health, Ad Hoc reviewer for study sections and program project grants, 1990-1993, 1997; American

Heart Association, 1989-1992, Cardiovascular Regulation Study Section. Microcirculatory Society: Nominating Committee, 1990-1992 (Chairman, 1992); Executive Council, 1993-1995; American Physiological Society: Regular member; Cardiovascular Section, Fellow; Nominating Committee, Cardiovascular Section, 1994-1996; Secretary, Cardiovascular Section, 1997-1998; Section Advisory Committee 1997-2000; Nominating Committee 1997-2000; Education Committee 1997-1998; American Heart Association: Fellow, Council on Circulation; Executive Committee, Council on Circulation 1997-1999; Member Basic Science Council; Symposia and Workshops: "Control of the Coronary Microcirculation: New Insights Based on Microvascular Function," Federation of Societies for Experimental Biology, 1990; Organizer for "New Methodologies," Resistance Vessel Society, 1991; Organizer for National Institutes of Health, Heart, Lung, and Blood Institute Workshop, "The Coronary Microcirculation in Health and Disease," 1994; Organizer for International Union of Physiological Sciences, "Control of the Coronary Circulation," 1997; Publications: Over 90 original manuscripts, chapters, and reviews.

Secretary

Mary L. Ellsworth, Ph.D.: Present Position: Professor, Dept. of Pharmacological and Physiological Science, St. Louis University School of Medicine, St. Louis, MO. Ph.D.: Albany Medical College (1981). Postdoctoral: Rensselaer Polytechnic Institute (1981-82); Medical College of Virginia (1982-85). Professional Societies: Microcirculatory Society (1982-present), American Physiological Society (1983-present), European Society for Microcirculation (1988-present), American Heart Association - Circulation Council (1988-present), Biomedical Engineering Society (1991-present). Study Sections: Ad Hoc reviewer: American Heart Association, MO Affiliate (1991); National Science Foundation (1994) and National Research Council (1995). Honors and Awards: Microcirculatory Society Young Investigator of the Year (1984), IPM Innovative Instrumentation Award, Microcirculatory Society (1989), NIH Postdoctoral Fellowship (1982-85), Research Career Development Award, NHLBI (1992-96). Microcirculatory Society Activities: Nominating Committee (1989-92), Awards Committee (1990-93), Chairman, Awards Committee (1993), Executive Council (1993-96), Secretary (1997-1999).

Andrew S. Greene, Ph.D.: Present Position: Professor of Physiology, Biophysics, and Biomedical Engineering, Medical College of Wisconsin, Milwaukee, WI Ph.D.: (Biomedical Engineering) Johns Hopkins University (1985). Postdoctoral: Johns Hopkins University (1985), Medical College of Wisconsin (1985-86). Professional Societies: APS (CV Section Fellow, Career Opportunities in Physiology Committee, 1996-present, co-organizer, Microcirculation Physiome meeting 1997), MCS (Publications Committee, 1997-present), AHA (Council for High Blood Pressure Research Fellow) Biomedical Engineering Society. Editorial Boards: Am. J. Physiology Heart and Circulatory (Associate Editor 1997- present) Journal of Vascular Research (1998-Present) Study Sections: National Institutes of Health, Surgery and Bioengineering Study Section (Ad. Hoc. Member, 1997-Present), National Institutes of Health, Protein Production, Structure and Function Study Section (1997-present). Honors: Visiting Professor, Sao Paulo University, PROINTER Program, Sao Paulo, Brazil, 1998, Harry Beckman Basic Science Teaching Award, Medical College of Wisconsin, 1998, National Academy of Sciences - Models Symposium Invited Speaker, 1997, President's Symposium Speaker, Vascular Biology - Microcirculation, 1997, Merck & Co., Inc., National Consultant for Angiotensin II Research, NASA Life Sciences Advisory Council, 1996, Student Choice Teaching Award, Medical College of Wisconsin, 1994, Visiting Professor, Semmelweis University, 2nd Institute of Physiology and Experimental Research Department, Budapest, Hungary, 1990.

Councilor:

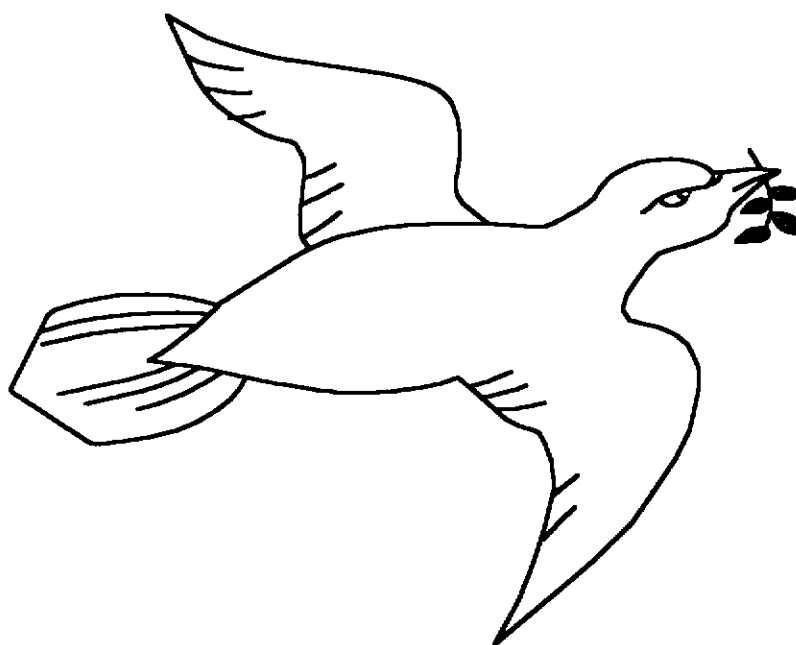
Matthew A. Boegehold, Ph.D.: Present position: Associate Professor of Physiology, West Virginia University School of Medicine, Morgantown, WV. Education: B.S., University of Michigan (1980, Biology); Ph.D., University of Arizona (1986, Physiology). Postdoctoral: Indiana University School of Medicine (Department of Physiology and Biophysics, 1986-1988). Professional Societies: Microcirculatory Society (Awards Committee, 1995-1998), American Physiological Society (Cardiovascular Section), European Society for Microcirculation, American Heart Association Council for High Blood Pressure Research (Fellow). Honors and Awards: NIH predoctoral traineeship (1980-1985), Young Investigator Award, Second International Symposium on Endothelium-Derived Vasoactive Factors (1992), International Union for Physiological Sciences Travel Award (1993 and 1997), Microcirculatory Society Outstanding Young Investigator Travel Award (1994). Peer Review: American Heart Association, Brain and Cardiovascular Regulation Study Group (1995-1997), NIH-NHLBI Program Project Review Panel (1997).

Donald Buerk, Ph.D.: Dr. Buerk is a research associate professor in the Physiology Department at the University of Pennsylvania School of Medicine, with a secondary appointment in Bioengineering. He is currently on sabbatical leave at the Department of Radiation Oncology, Massachusetts General Hospital, Harvard Medical School. He has been an active member of the Microcirculatory Society for over 25 years, and serves on the membership and program committees. He is a member of the editorial board of the Journal of Applied Physiology, and a reviewer for several journals. He received his M.S. degree in Biomedical Engineering from Case Western Reserve University in 1976, and his Ph.D. in Chemical Engineering from Northwestern University in 1980. He began his scientific career with Dr. William J. Whalen in 1969 and has been poking around with recessed electrochemical microsensors ever since. He is currently investigating the role of nitric oxide in coupling neuronal activity, metabolism, oxygen delivery and blood flow in the eye, brain and other organs, and mechanisms of oxygen sensing by carotid chemoreceptors. Don has been married to his wife Steffie for 30 years, has two sons, and plays jazz, blues, and rock & roll on his alto saxophone at the drop of a hat.

Jeff C. Falcone, Ph.D.: Present Position: Assistant Professor of Physiology & Biophysics, University of Louisville, Louisville, KY.; Education: B.A. Indiana University (1982, Chemistry), M.S. Indiana University (1986, Physiology & Biophysics with H. Glenn Bohlen), Ph.D. Indiana University (1989, Physiology & Biophysics with H. Glenn Bohlen); Post-Doctoral: Texas A&M University (1989 - 1991, Medical Physiology with Gerald A. Meininger); Professional Experience: Assistant Research Scientist at Texas A&M (Medical Physiology, 1991-1993), Research Assistant Professor at The University of Kentucky (Physiology, 1993-1995); Professional Societies: American Heart Association, American Physiological Society, European Society for Microcirculation, Microcirculatory Society; Honors and Awards: NIH Post-Doctoral Fellowship (NRSA, 1990), August Krogh Young Investigator Award (Microcirculatory Society, 1992), Travel Award (European Society for Microcirculation, 1994), Travel Award for Outstanding Young Investigator (Microcirculatory Society, 1998); Peer Review: American Heart Association, Kentucky Affiliate (Study Section Member, 1998), American Heart Association, Ohio Valley Affiliate (Study Section Member, 1999), Kentucky Tobacco & Health Research Institute (Study Section Member, 1999), Ad Hoc for: The American Journal of Physiology, Circulation Research, European Journal of Physiology, Hypertension, Journal of Applied Physiology, Microcirculation, Microvascular Research.

William G. Mayhan, Ph.D.: Present Position: Professor, Dept. of Physiology and Biophysics, Univ. of Nebraska Medical Center, Omaha, Nebraska. Education: B.S., Creighton University (1977);

Ph.D., Univ. of Nebraska Medical Center (1983). Postdoctoral: Univ. of Iowa Hospitals and Clinics, Dept. of Internal Medicine (1983-1985). Previous Positions: Assist. Res. Scientist, Univ. of Iowa Hospitals and Clinics, Dept. of Internal Medicine (1985-1986); Assoc. Res. Scientist, Univ. of Iowa Hospitals and Clinics, Dept. of Internal Medicine (1986-1987); Assist. Professor, Univ. of Iowa Hospitals and Clinics, Dept. of Internal Medicine (1987-1989); Assist. Professor, Univ. of Nebraska Medical Center, Dept. of Physiology (1989-1992); Assoc. Professor, Univ. of Nebraska Medical Center, Dept. of Physiology (1992-1996). Professional Societies: Microcirculatory Society, Am. Physiol. Society, Am. Physiol. Society Cardiovascular Section (Awards Committee), Am. Heart Assoc. Council on Circulation, Am. Heart Assoc. High Blood Pressure Council, Am. Heart Assoc. Stroke Council. Editorial Boards: Am. J. Physiol., Stroke, Microvascular Research. Honors and Awards: Young Investigator of the Year, Microcirculatory Society (1983), NIH-National Research Service Award (1984), NIH-New Investigators Research Award (1986), American Heart Association Council on Circulation Travel Award (1987), NIH-Research Career Development Award (1988-1993), FASEB Summer Research Conference Travel Award (1988), Young Investigators Award, University of Nebraska Medical Center (1991), Research Volunteer of the Year Award, American Heart Association: Nebraska Affiliate (1995), Joseph P. Gilmore Distinguished Scientist Award, University of Nebraska Medical Center (1995), Chair of Research Committee, American Heart Association: Nebraska Affiliate (1997-1999). Peer Reviewer: American Journal of Physiology, Microvascular Research, Microcirculation, Journal of Applied Physiology, Circulation Research, Hypertension, Stroke, Journal of Cerebral Blood Flow and Metabolism, European Journal of Pharmacology, Brain Research, Cardiovascular Research, Life Sciences. Study Sections: NIH-Neurology B-1 Study Section Ad-Hoc (1990), American Heart Association Western Peer Review Consortium (1991-1993), NIH-NINDS Special Review Committee (1992), NIH-National Institute on Aging Special Review Committee (1992), NIH- Experimental Cardiovascular Study Section (Regular Member; 1994-1999), American Heart Association Study Group Committee (1993-1997), American Heart Association; Heartland Affiliate Research Committee (1997-2000).



Proposed Amendments to the By-Laws, The Microcirculatory Society, Inc.

(previously approved by the Society membership at the business meeting on March 27, 1993.)

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 promote an increase in knowledge of the 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 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 \$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 written proposal of *the* person for regular, student, or associate or honorary membership on appropriate forms provided by the Secretary. 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 ballot of the Council. A two-thirds (2/3) major-

ity positive vote by Council shall be required for election.

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 *mail written* vote of the membership. 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 Councillors shall be three years, so elected that only two Councillors are elected each year. Councillors may not succeed themselves to serve consecutive terms. All terms of office shall begin at the close of the annual meeting of the Society which follows the *mail 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 Councillor. The term of office of a person elected to fill an interim vacancy shall expire following the tally of a *mail written* 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 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 ~~mail to~~ *inform* the membership whatever the President or Council desires. The Secretary shall also keep a complete list of the name, title and address of each member of the Society. The Secretary shall keep the minutes of the Council and of Business Meetings of the Society and shall have other duties as prescribed in the Operations Manual. In the absence of the Secretary, the President shall appoint a temporary secretary to record the minutes.

Section 7. Treasurer. The Treasurer shall give bond to the Society, if required by the Council, for the faithful performance of his/her duties. The Treasurer shall have custody of all monies (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 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 Councillors. 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* the mail vote, 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 Councillors.

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 Councillor of each meeting of the Council. ~~A notice in writing, postage prepaid at least 14 days before the meeting, and addressed to each members most recent recorded address shall be sufficient notice of the meetings.~~ 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 Councillors 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 Councillors 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.

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 member-

ship 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 composed 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 Council 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 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. Program and Meetings Committee. The Program Committee shall be chaired by the President-Elect of the Society, serving a 1 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.* ab) Serve as the liaison to the program committees of other societies or associations with whom the MCS may meet; bc) 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 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 Microcircu-

latory 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 an appointee 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 web site 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 13.16 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. Non-payment of Dues. Any member ~~whose dues are two years~~ *whose dues are one year* in arrears shall cease to be a ~~become an inactive~~ member of the Society, and will be notified by the ~~unless that person pays all dues in arrears and is reinstated 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* ~~twelve~~ 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 ~~mailed~~ *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 Roberts 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 ballot of the Society members by a 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. All new words and phrases shall be indicated by continuous underlining or italics.

Meeting Announcement

The next meeting of ARCO (formerly "Association internationale de Recherche sur la Circulation osseuse et l'Osteonecrose" and now the "Association of Research in Circulation Osseous") will be in Sydney, >Australia 18-23 April, 1999 in conjunction with SICOT's 21st World Congress. For more information please contact Professor Peter Ghosh at email pghosh@mail.usyd.edu.au or the Institute of Bone and Joint Research, Royal North Shore Hospital, St. Leonards NSW 2065, Australia. Fax: 61-2-99065368

