

# Candidates for Office

## President-Elect

### **Ann Baldwin, Ph.D.**

#### Present Position

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

#### Education

B.Sc., University of Bristol, UK; M.Sc. University of London (The Middlesex Hospital), UK; Ph.D., University of London (Imperial College of Science and Technology), UK.

#### Professional Societies

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

#### Honors and Awards

Young Investigator Travel Award to attend Third World Congress for Microcirculation (1984); Lampion Award of the Cardiovascular Section of the American Physiological Society (1986); Travel Award from European Society for Microcirculation to attend 14th International Conference in Sweden (1986); Robert S. Flinn Merit Award for Junior Investigators, American Heart Association, Arizona Affiliate (1987); Travel Award from American Physiological Society to attend IUPS Conference in Helsinki (1989); Fellow of Cardiovascular Section of American Physiological Society (1993); Sarver Heart Center Award (1999); Frontiers in Physiology, Summer Research Teacher Host Investigator Award (2001).

#### National Funding

NIH RO1 "Ultrasound, intestinal and cardiac function in rats"  
NIH R21 "Animal model on stress-induced damage"

#### Editorial Board

Microcirculation (1998-present); American Journal of Physiology, Heart and Circulatory Physiology (1996-2000); American Journal of Physiology, Gastrointestinal (1999-2003)

#### Grant Review

Member of NIH Study Section, Cardiovascular and Renal (1996-2000); American Heart Association, Southwest Research Peer Review Consortium (1999, 2002); Veterans Administration Merit Grant Review (1994-2000); NIH HLB Program Project Review (2002); NSF Review Panel (2001); U.S. Army (2003); NIH HLB special emphasis panels (2002, 2003, 2003).

#### Peer Review

Microcirculation, American Journal of Physiology, Journal of Applied Physiology, Journal of Alternative and Complimentary Medicine, Medical Monitor, Canadian Journal of Zoology, BioMed Central, Journal of Physiology, American Journal of Pathology, FASEB Journal, Circulation Research, Arteriosclerosis, Thrombosis and Vascular Biology, Journal of Structural Biology

### Professional Activities

Publications Committee, The Microcirculatory Society (1987-1988); Membership Committee, The Microcirculatory Society (1990-1993); Education and Public Affairs Committee, Biomedical Engineering Society (1992-1995); Nominating Committee, The Microcirculatory Society (1993-1996), Chair (1995-1996); Treasurer and Chair of Finance Committee, The Microcirculatory Society (2000-2004); Co-organized joint meeting between British Microcirculation and The Microcirculatory Society (September 2005).

### Current Research Interests

Microvascular exchange and inflammation, blood substitutes, effects of mental stress on microvascular permeability and immune function, effects of mental relaxation on endothelial permeability and subcutaneous microvascular perfusion

### Personal Statement

I joined The Microcirculatory Society in 1987 when I was a postdoc and I specially enjoyed the poster sessions when we were jammed together in a small room and it was impossible NOT to make useful and lasting connections with senior people in your field. In recent years, although our scientific standards and the breadth of topics covered have continued to improve, this strong sense of collegiality at our meetings has faded. I think that this puts young investigators at a disadvantage because in my opinion the contacts that you make early in your career are key to your success in the future. In order to regain our former sense of camaraderie I think that we need to continue to have relatively small meetings with other societies and also freestanding meetings, apart from our annual meeting with Experimental Biology. The joint meeting that I co-organized with the British Microcirculation Society, held last September in New Hampshire, demonstrated that our spirit of collegiality is still alive and can be recalled in an instant and that young investigators, when put in positions of responsibility, can present science of the highest quality. If I am elected President Elect, I will support the planning of an extra small meeting, timed as circumstances and other commitments dictate, I will try to provide more opportunities for young investigators, and I will work with Julian Lombard in the planning of the World Congress to guarantee an environment that promotes the spirit of community that makes this society unique.

## Cynthia J. Meininger

Present Position: Associate Professor, Department of Systems Biology and Translational Medicine, The Texas A&M University System Health Science Center

Education: B.A. in Biology, University of South Florida, Tampa, FL, 1980; Ph.D. in Vascular Biology, Texas A&M University, College Station, TX, 1987.

Professional Societies: Microcirculatory Society (Secretary 2001-2005, Executive Council 1996-2007; Liaison Committee 2001-2005; Awards Committee 1995-1998; Membership Committee 1991-1994 [Chair 1992-1994]); American Society for Cell Biology (1989-present); North American Vascular Biology Organization (1996-present); Juvenile Diabetes

Research Foundation (2001-present); American Physiological Society (2005-present).

Honors and Awards: National Research Service Award, NIH, 1988-1991; XXXI International Union of Physiological Sciences Travel Award, 1989; National Institutes of Health, NINCDS Cooperative Education Program 1978-79.

Professional Activities: Council for International Exchange of Scholars (Fulbright Scholar Program) (2005-2008); Cardiovascular Advisory Board, BioMarin Pharmaceuticals, (2005-2007); Scientific Advisory Board, ICIEM Satellite Meeting, Tetrahydrobiopterin and Alternative Treatments in Phenylketonuria, Cardiovascular Disease and Diabetes, Sendai, Japan, (2005-2006); AHA, Texas Affiliate, Research Allocations and Advisory Committee (2005-2007); AHA, Western Review Consortium Steering Committee (2002-2005).

National Funding: NIH: Oxidative Stress and Pteridine Metabolism in Diabetes; Juvenile Diabetes Research Foundation: Development of an Endothelium-targeting DNA Nanoparticle to Reverse Vascular Complications of Diabetes; Juvenile Diabetes Research Foundation: Tetrahydrobiopterin Deficiency and Vascular Dysfunction.

Editorial Boards: Microcirculation (1999-2004).

Grant Review: AHA Vascular Biology and Blood Pressure/Regulation (2006-2007); AHA Lipid Metabolism, Thrombosis and Vascular Wall Biology (2000-2005, [Chair 2003-2005, Co-Chair 2001-2003]), NIH Program Project Cluster Review Study Section (Tumor Microenvironment I), NCI (2004); NIH RFA Study Section (Progression of Cardiovascular Disease in Type I Diabetes) NHLBI (2004); NIH Clinical Studies Subcommittee, Program Project Review Group, NCI (2003-2004); American Institute of Biological Sciences (2004); National Aeronautics and Space Administration, Cell and Molecular Biology Panel (2003-2004), Integrative Physiology Panel (2002), Cellular Biotechnology and Tissue Engineering Panel (1994-2001); National Medical Research Council of Singapore (2003-2004); U.S. Civilian Research and Development Foundation for the Independent States of the Former Soviet Union (2000); Veterans Administration Merit Awards, Respiratory Subcommittee (1999); AHA Lung, Resuscitation and Respiration (1997-1998); AHA Lung and Development (1994-1997).

Peer Review: American Journal of Physiology; Microcirculation; Microvascular Research; Journal of Clinical Investigation; Circulation Research; Journal of Vascular Research; Circulation; Arteriosclerosis, Thrombosis and Vascular Biology; Journal of Applied Physiology; Hypertension; In Vitro Cell and Developmental Biology; Journal of Cellular Physiology; Free Radical Biology and Medicine; American Journal of Cardiology; Journal of Cellular Biochemistry; Blood Vessels; Comparative Biochemistry and Physiology; Journal of Nutrition.

Current Research Interests: Vascular Complications of Diabetes; Endothelial Dysfunction and Nitric Oxide Bioavailability; Gene Therapy via Targeted Nanoparticles; Angiogenesis and its Physiological Control.

Personal Statement: In the last few years, there has been a progressive movement to help recapture the independence and identity of the Microcirculatory Society (MCS) that has been a cher-

ished attribute of our Society but has been somewhat overshadowed by our close association with Experimental Biology. If elected President of the Society, I would focus on continuing this movement via organization of independent meetings that could be joint meetings with other societies. This will include close involvement with the planning and execution of the World Congress in 2007. Members of the MCS have worked hard to attract new members with diverse interests/backgrounds to our Society membership and to our meetings, Continuation of this effort would be another priority for me. In short, I will strive to ensure continued growth of the MCS while maintaining the distinctive characteristics that make it unique.

## Treasurer

### Terrence E. Sweeney, Ph.D.

Professor, Department of Biology, University of Scranton. Education: B.A., Chemistry and Physics, Colgate University; M.Sc. & Ph.D., Biophysics, University of Rochester; Postdoc., Physiology, University of Arizona; Sabbatical, Medical Physics, University of Amsterdam.

Although I have no formal accounting experience, I have extensive experience using accounting software such as Quicken to track personal finances and grant funds, as well as experience preparing personal tax returns, both manually and with tax preparation software. As President of Scranton's Faculty Senate, I conducted nearly all communications and document transfers with faculty via the web and email, making me familiar with communication via these approaches. I greatly value the professional relationships that I've been able to maintain through my membership in the MCS and I am happy to serve as Treasurer to do my part for the maintenance and betterment of the Society. I would carry out the job with integrity and I am assertive enough to do my part to ensure that Society funds are expended and invested in accordance with the Society's intentions and following its established rules and bylaws.

## Councillors

### Coral L. Murrant

Present Position: Assistant Professor, Department of Human Health and Nutritional Sciences, University of Guelph, Guelph, Ontario, Canada.

Education: B.SC. in Human Kinetics, University of Guelph (1987-1991); Ph.D. in Biophysics, University of Guelph (1991-1994); Postdoctoral Fellow, University of Guelph (1994-1995); Postdoctoral Fellow, Baylor College of Medicine (1995-1997); Postdoctoral Fellow, University of Rochester (1997-2000).

Professional Societies: Microcirculation Society (Program Committee member 2001-2002), American Physiological Society, American College of Sports Medicine.

Funding: NSERC – Regulation of peripheral vascular function; CHRP – Role of uterine natural killer cells in pregnancy.

Honors and Awards – University of Guelph Faculty Association Distinguished Professor Award (2003); Premier’s Research Excellence Award (2002), Gelin Travel Award, European Society for Microcirculation (2000), Young Investigator Travel Award, American Physiological Society – Cardiovascular Section (2000).

Grant Review – NSERC (2000-2005), Ontario Graduate Studies Scholarship Panel Chair (2004 and 2006).

Peer Review – Journal of Physiology (Lond.), American Journal of Physiology, Canadian Journal of Applied Physiology, Medicine and Science in Sports and Exercise.

Current Research Interests: 1) The communication between skeletal muscle cells and cells of the microvasculature necessary to coordinate blood flow. 2) the role of endometrial and placenta microvessels in healthy pregnancy and pre-eclampsia.

Personal Statement: In my experience the Microcirculatory Society is a unique society, a scientifically rigorous yet very open, friendly society that treats young investigators as peers, one that fosters collaboration, information sharing, and a strong sense of scientific collegiality not found in other societies. When I was introduced to this group I found it a breath of fresh air in a very competitive, sometimes closed scientific world. It is the type of environment I like to conduct science and the type of environment that I like to bring up graduate students. This is an environment I wish to help maintain and I feel it is now time for me to start giving back to the society that has served me so well.

### **Richard Rivers, M.D., Ph.D.**

Present position: Associate Professor, Johns Hopkins University, Department of Anesthesiology and Critical Care Medicine, Baltimore, Maryland

Education: University of Virginia (1990) Ph.D. Physiology; University of Virginia (1990) Anesthesiology Residency; Medical University of Ohio (1983) M.D.; Clarkson University (1977) B.S. Chemical Engineering

Professional Societies: American Physiological Society; Microcirculatory Society; American Society of Anesthesiologists; Ophthalmic Anesthesia Society (president)

Funding: NIH RO1 – Network Vasomotor Response to Tissue Adenosine 2004 – 2008; AHA Grant-in-aid - Molecular Mechanisms of Adenosine Network Response Dysfunction after Ischemia-Reperfusion Injury 2004 - 2006

Honors: Fellow American Physiological Society – Cardiovascular Section; Phi Kappa Phi Honor Society; Tau Beta Pi Honor Society; Presidential Scholar at Clarkson University; NIH National Research Service Award - 1984-1985; NIH NHLBI Physician Scientist Award - Endothelial control of the peripheral circulation. 1985-1992; NIH R29 - Integrated arteriole response and conducted vasomotion 1994-1999; AHA Grant-in-aid - Vascular communication of pressure and flow changes in the microcirculation. 1994-1998

Grant review – NIH Study Section AdHoc member. Center for Scientific Review Special Panel 2000-2003; AHA Reviewer for NY Affiliate Grant Applications 1996-1998; AHA Reviewer for Northeast

Consortium Grant Applications 2001-2002

Peer review – American Journal of Physiology; Journal of Applied Physiology; European Journal of Physiology; Science; Journal of Cell Biology; Journal of Physiology (London); Microcirculation; Anesthesiology; Journal of Cardiovascular Pharmacology

Current research interest – Mechanisms of vascular communication including roles of ion channels, gap junctions, and neurons. The study of remote vascular signaling generated by metabolites, drugs, pressure, and flow. Development of techniques for in-vivo measurements of calcium and membrane potential as well as the techniques for using viral vectors to cell-type selectively express dominant negative constructs to ion channels and gap junctions.

Personal statement – The Microcirculatory Society has been an important part of my development as a physician scientist. I am an anesthesiologist for 40% of my days and a scientist for the rest. The science of microcirculation and its tight relationship to the cardiovascular pharmacology of anesthesiology has been unique and fulfilling. It has made me a better physician while offering enough interesting questions to maintain research funding. I now want to take the opportunity to work with society as a council member to maintain the high standards of the society and to offer a clinical perspective as we move into the new century.

### **Rolando E. Rumbaut, M.D., Ph.D.**

Present Position: Assistant Professor of Medicine and Pediatrics, Baylor College of Medicine; Staff Physician, VA Medical Center, Houston, TX.

Education: M.D., Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico (1988); Internal Medicine Residency, Pulmonary/Critical Care subspecialty: Baylor College of Medicine & University of Missouri-Columbia (1989-1995); Ph.D. in Physiology, University of Missouri-Columbia (1998).

Professional Societies: Microcirculatory Society (Program Committee 2001-2004), American Physiological Society (Career Opportunities in Physiology Committee 2006-2008), American College of Chest Physicians, American Thoracic Society, American College of Physicians.

Honors and Awards: Microcirculatory Society Travel Award for Outstanding Young Investigators, 2004; Superior Graduate Achievement Award, University of Missouri-Columbia, 1997; Fellow, American College of Chest Physicians, 1997; Chief Medical Resident, Baylor College of Medicine, 1991.

National Funding: NHLBI-HL64721 (PI-Active); AHA National Grant-in-Aid (PI-Completed); NHLBI-HL070537 (Co-I, Active); VA Merit Award (Co-I, Active).

Editorial Boards: Microcirculation (1998-2003).

Grant Review: AHA Western Review Consortium (2003-present); NIH Cardiovascular and Renal Study Section (2002: Ad hoc); NIH Clinical Cardiovascular Sciences (2002: Ad-hoc);

Peer Review: Am J Physiol; FASEB J; Arterioscler Thromb Vasc Biol; J Physiol; J Vasc Res; Circulation; Microcirculation; J Leuk Biol.

Current Research Interests: Microvascular permeability, platelet-microvessel interactions.

Personal Statement: The Microcirculatory Society has been tremendously helpful to my career development; I would be privileged to serve as councilor. If elected, I would encourage the society to continue promoting integration of clinical and basic scientists. I welcome the opportunity to encourage other physician-scientists to join our society and participate in future activities that are mutually beneficial.

### David C. Zawieja, Ph.D.

Present Position: Professor and Associate Head - Department of Systems Biology and Translational Medicine, Director Lymphatic Biology Division of the Cardiovascular Research Institute; Texas A&M University System Health Science Center College of Medicine, College Station, Texas.

Education: B.S. (Biology, Chemistry, Population Dynamics 1978) University of Wisconsin-Green Bay; Ph.D. (Physiology, 1986), Medical College of Wisconsin; Postdoctoral Fellow (1986-1988), Texas A&M University College of Medicine, Department of Physiology.

Professional Societies: Microcirculatory Society, American Association for the Advancement of Science, American Diabetes Association, American Heart Association, American Physiological Society, European Society for Microcirculation, International Society of Lymphology, Lymphatic Research Foundation (Scientific Advisory Board)

National Funding: NIH Grant R01 HL070308, PI - "Influences of lymph flow on the lymphatic pump." NIH Grant R01 HL75199, PI - "Physiological Basis of Vascular Contractility." NIH Grant R01 HL80526, Co PI - "Molecular Mechanisms of Lymphatic Muscle Contraction."

Honors and Awards: 1985 Julius Babush Award, for excellence in research, Medical College of Wisconsin 1987-89 National Research Service Award, NIH; 1992 European Society for Microcirculation Travel Award; 1994 International Research Travel Award, Texas A&M University; 1996-2001 Research Career Development Award, NIH.

Editorial Boards: Microcirculation, Lymphatic Research and Biology.

Grant Review: American Heart Association Texas & Western Affiliates, 1997-2001; CRRC NIH NCCAM, ZAT1 DB(10) Special Emphasis Review Panel, 2003; CRRC NIH NCCAM, Special Emphasis Review Panel, 2004; NIH, HM Study Section, 2004-2005; NIH SEP ZRG1-CVS-G, Special Emphasis Review Panel, 2005; Kentucky Science & Engineering Foundation, R&D Excellence Awards, 2005; The Lymphatic Research Foundation Awards Programs, Scientific Advisory Committee, 2005; American Cancer Society, Peer Review Panel, 2005.

Peer Review: American Journal of Physiology, American Journal of Cardiology, Cell and Tissue Research, Circulation, Circulation Research, FASEB Journal, Hypertension, Journal of Applied Physiology, Journal of Vascular Research, Lymphatic Research and Biology, Lymphology, Microcirculation, Microvascular Research, Nature, Nature Medicine.

Current Research Interests: Microcirculatory fluid and macromolecular exchange, the generation and regulation of lymph flow, the mechanisms responsible for the phasic and tonic lymphatic contractile activity, lymphangiogenesis.

Personal Statement: The microcirculation is the principal site of action for the predominant functions of the circulatory system. Because of this, the Microcirculatory Society occupies a unique position at the crossroads of many different fields of cardiovascular research. This poses a unique set of opportunities and challenges to the Microcirculatory Society. There are wide fields of potential members to draw from, yet their scientific diversity requires special efforts to cultivate and maintain their interest in our society. We need to grow and strengthen our society by attracting and retaining outstanding scientists, and by encouraging the active support of the societies meetings, journal, and activities. If elected as Councilor, my aim will be to help grow and further develop the Society while retaining its unique strengths and identity. generation and regulation of lymph flow, the mechanisms responsible for the phasic and tonic lymphatic contractile activity, lymphangiogenesis.