Michael Hill, Ph.D.

<u>Present Position:</u> Associate Director, Dalton Cardiovascular Research Center; Professor, Department of Medical Pharmacology and Physiology; Adjunct Professor, Department of Biological Engineering, University of Missouri.

<u>Education</u>: M.Sc., University of Melbourne, Ph.D., University of Melbourne, Australia.

<u>Professional Societies</u>: Microcirculatory Society; American Physiological Society; Australia and New Zealand Microcirculation Society; Australian Physiological Society; Fulbright Alumni; American Association for the Advancement of Science

<u>Honors and Awards</u>: Fellow of the American Physiological Society (Cardiovascular Section), 2007; Australia and New Zealand Microcirculation Society John Casley-Smith Excellence in Science Award, 1999; NIH F.I.R.S.T. Award, 1992; Juvenile Diabetes Foundation International, Postdoctoral Fellowship, 1989; Fulbright Scholar (Postdoctoral Research Fellowship), 1988 – 89; National Heart Foundation of Australia Postdoctoral Travel Grant, 1988 (declined). Servier Travel Grant Travel to the 13th International Diabetes Federation Congress, 1988.

<u>Current Funding</u>: NIH RO1 'Signaling Mechanisms Underlying Myogenic Tone in Arterioles of Skeletal Muscle: Role of BKCa'

<u>Editorial Boards</u>: American Journal of Physiology: Heart and Circulatory Physiology (1/96 – 12/98); Microcirculation (1/2002 – present); Journal of Vascular Research (2007 – present)

<u>Grant Review</u>: American Heart Association (Virginia) Peer Review Committee (1992 – 1995), (Chairman, 1995); Member of the Medical Review Board for the Sir Edward Dunlop Medical Research fund (2002 – present); American Heart Association (National; Vascular Wall 1, 2006 – present); American Medical Association, 2007; NIH Special Emphasis Panel on Lymphatic Biology, 2009. ***Ad Hoc Reviews***: American Heart Association (Alaska); American Heart Association (Texas); Jeffress Foundation; Diabetes Australia Research Trust; National Health and Medical Research Council (Australia); Cardiovascular Lipid Grants (Pfizer); Clive and Vera Ramaciotti Foundation; Canadian Heart and Stroke Foundation; Australian Research Foundation; Wellcome Foundation; Louisiana Board of Regents; Qatar National Research Foundation; National Science Engineering Research Council, Canada

<u>Peer Review</u>: American Journal of Physiology (Heart and Circulation; Endocrinology; Cell; Gastrointestinal Physiology); Journal of Biological Chemistry; Hypertension; Microvascular Research; Journal of Applied Physiology; Diabetes; Journal of Vascular Research; Journal of Pharmacology and Experimental Therapeutics; Diabetologia; Journal of Laboratory and Clinical Medicine; Australian and New Zealand Journal of Medicine; Biochemica Biophysica Acta; British Journal of Pharmacology; Clinical and Experimental Physiology and Pharmacology; Diabetes Care; Journal of Physiology; Microcirculation; Pflugers Archives; Cardiovascular Research; FASEB Journal; Circulation; Expert Opinion on Therapeutic Targets; Journal of Vascular Pharmacology; Journal of Cellular Physiology; Lipids; Cell Calcium; Circulation Research; Canadian Journal of Physiology and Pharmacology; Arteriosclerosis, Thrombosis and Vascular Biology; Journal of Pharmacy and Pharmacology; Journal of Hypertension

Professional Activities: Nominating Committee, American Physiological Society (CV Section), 2009 – 2012 (Chair 4/2010); Council Member, Microcirculatory Society, 2007 – 2009; Secretary, Australian and New Zealand Microcirculatory Society, 2004 – 2005; Awards Committee, Cardiovascular Section, American Physiological Society, 2003 – 2006; Australian Research Council Representative for the NHMRC Code Liaison Group (for revision of the Code of Practice for animal experimentation), 2001 – 2004; State Representative for Australia and New Zealand Microcirculation Society Committee, 1999 – 2002; Council Member Australian Physiological and Pharmacological Society, 1999 – 2002**;** Microcirculatory Society Program Committee, 1995 – 1996; Microcirculatory Society Membership Committee, 1991 – 1994.

Current Research Interests: Cellular mechanisms underlying myogenic, or pressure-induced, vasoconstriction; arteriolar smooth muscle Ca^{2+} signaling and ion channels; role of the extracellular matrix in arteriolar function; and contribution of protein modification to the vascular complications of diabetes.

Personal Statement: I joined the MCS around 1988 during my postdoctoral studies at Texas A&M University. The Society has provided me friendships, collaborations and scientific contacts which have lasted to this day despite moves between hemispheres. These interactions have proved vital to my career and provided me with professional and personal interactions that I could never have imagined. The future of our Society lies in providing similar opportunities to new generations Thus while the interests of the Society have diversified over the years we must not loose sight of the importance of fostering and encouraging the younger members of our group. We must also continue to strengthen our interactions with microcirculatory societies, worldwide. Sharing of strengths through collaboration and discussions provides insights beyond those that any of us have as individuals. Key upcoming international meetings such as the World Congress in Paris and the proposed joint meeting with the British Microcirculation Society can provide these opportunities. It is also vital that we highlight our identity through our own scientific meetings – a key step having been taken with the recent Fall conferences. Within larger meetings, including Experimental Biology, we must aim to increase our profile through, for example, regularly co-sponsoring symposia with APS sections and other vascular-related societies. In addition, the visibility of the Society can be strengthened by our own journal and electronic communications. Through these media we need to highlight both established investigators and rising stars.