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Professional Qualifications:

M.B.B.S (graduate degree in Medicine) Adelaide University, Australia, 1951
M.D. (advanced degree by thesis) Adelaide University, Australia, 1958
Ph.D. London University, U.K., 1960
D.Sc. (from collected publications) University of Adelaide, Australia, 1980
F.R.A.C.P. (Fellow, Royal Australasian College of Physicians), 1981
F.R.C.P. (Fellow, Royal College of Physicians, London), 1983

Professional Experience:

1952 Resident, Royal Adelaide Hospital, Australia
1953-1960 Resident, Postdoctoral Fellow, and Clinical Physiologist, Royal Postgraduate Medical School and Hammersmith Hospital, London
1960-1961 Physiologist, Sir Edmund Hillary's Himalayan Scientific and Mountaineering Expedition
1961-1962 Postdoctoral Fellow (with Hermann Rahn, Ph.D.) and Assistant Professor, Department of Physiology, University of Buffalo, New York
1962-1967 Director, Medical Research Council Respiratory Research Group, Department of Medicine, Royal Postgraduate Medical School, London
1968 Sabbatical leave at NASA Ames Research Center, Moffett Field, California
1969-present Professor of Medicine and Physiology, University of California, San Diego

Honors:

Josiah H. Macy Jr. Foundation Faculty Scholar, 1974
Ernst Jung Prize for Medicine, Hamburg, Germany, 1977

Presidential Citation, American College of Chest Physicians, 1977
Kaiser Award for Excellence in Teaching, 1980
Doctor Honoris Causa, University of Barcelona, Spain, 1987
Fellow, American Association for the Advancement of Science, 1987
Orr Reynolds Prize for History, American Physiological Society, 1987
Founding Fellow, American Institute for Medical and Biological Engineering, 1992
Jeffries Medical Research Award, American Institute of Aeronautics and Astronautics, 1992
Foreign Member, Russian Academy of Sciences, 1995
Ray Daggs Award for Service to Physiology, American Physiological Society, 1998
Fellow, American Academy of Arts and Sciences, 2001
Edward Livingston Trudeau Medal, American Thoracic Society, 2002
Doctor Honoris Causa, University of Ferrara, Italy, 2004
Member, Institute of Medicine, National Academy of Sciences, 2004

Honorary Professor, University College, London, 2005-2010

Doctor Honoris Causa, University of Athens, Greece, 2006

Hickman Medal, Royal Society of Medicine, London, 2007

Special Responsibilities:

American Association for the Advancement of Science

Member, Medical Sciences Nominating Committee, 1987-1993

Council Delegate, Section on Medical Sciences, 1994-1998

American Medical Research Expedition to Everest, Leader, 1981

American Osler Society

Board of Governors, 1999-2003

American Physiological Society

[President, 1984-1985](#)

Council Member, 1981-1986

Chairman, Section on the History of Physiology, 1984-1992

Member, International Physiology Committee, 2000-2004

Fleischner Society, President, 1985

Harveian Society of London, Councillor, 1991-1995

International Society of Mountain Medicine, President, 1991-1994

International Union of Physiological Sciences

Member, U.S. National Committee, 1984-1987

Member, Commission on Respiratory Physiology, 1985-1994 (Chairman 1990-1994)

Member, Commission on Clinical Physiology, 1986-1990

Member, Commission on Gravitational Physiology, 1991-1995

National Academy of Sciences/National Research Council

Member, Committee on Space Biology and Medicine, 1986-1990

Member, Subcommittee on Space Biology, 1984-1985

Member, Committee on Advanced Space Technology, 1992-1995

National Aeronautics and Space Administration

Member, Life Science Advisory Committee, 1985-1988

Member, Aerospace Medicine Advisory Committee, 1988-1991

Member, Task Force on Scientific Uses of Space Station, 1984-1987

Principal Investigator on Spacelabs SLS-1, SLS-2, LMS, Neurolab, and International Space Station, 1983-2005

Co-investigator, European Spacelabs D2 and Euro-Mir, 1987-1995

Panel on Small Spacecraft Technology, 1992-1995

National Board of Medical Examiners

Member, Physiology Test Committee, 1973-1976

National Institutes of Health

Member, Cardiovascular/Pulmonary Study Section, 1971-1975, (Chairman 1973-1975)

Physiological Society (UK)

Member, Historical Studies and Archives Subcommittee, 1994-2000

University of California San Diego School of Medicine

Chairman of the Faculty, 1972-1973

Named Lectureships:

Wiltshire Memorial Lecturer, King's College Hospital Medical School, London, 1971
Schwidetzky Lecturer, Anesthesia Research Society, 1975
Felix Fleischner Lecturer, Fleischner Society, 1977
I. Jerome Flance Lecturer, Washington University, St. Louis, 1978
Brailsford Robertson Memorial Lecturer, Adelaide University, 1978
George C. Griffith Lecturer, American Heart Association, 1978
Brompton Annual Lecturer, Brompton Hospital, London, 1979
Della Briggs Lecturer, Loma Linda University Medical School, 1979
Dickinson W. Richards Lecturer, American Heart Association, 1980
E.M. Papper Lecturer, Columbia P and S, New York, 1981
William Harvey Lecturer, Harveian Society of London, London, 1981
William Atmar Smith Lecturer, Medical University of South Carolina, 1982
I.S. Ravdin Lecturer, American College of Surgeons, 1982
Walter E. MacPherson Lecturer, Loma Linda University, 1983
University of Auckland Centenary Lecturer, Auckland, New Zealand, 1983
Telford Memorial Lecturer, Manchester University, UK, 1983
Harry G. Armstrong Lecturer, Aerospace Medical Association, 1984
J. Burns Amberson Lecturer, American Thoracic Society, 1984
Suzanne Kronheim Lecturer, Undersea Medical Society, 1984
Guest Lecturer, USSR Academy of Sciences, Moscow, Leningrad, Tbilisi, 1985
Ralph White Memorial Lecturer, Georgia Baptist Medical Center, Atlanta, 1985
Sigma Xi Society Annual Lecturer, Abbott Laboratories, Chicago, 1986
Inaugural J.H. Abrahams Memorial Lecturer, University of Kansas, 1986
Sigma Xi Society Annual Lecturer, University of Virginia, 1986
U.S. Organizer, China-U.S. Conference on Respiratory Failure, Nanjing, 1986
Commencement Speaker, Muir College, UCSD, 1987
Chiron's Circle Distinguished Lecturer, Colorado State University, 1987
Louis Channing Ball Memorial Lecturer, University Southern California, 1988
Inaugural Roy C. Swan Lecturer, Cornell University Medical College, NY, 1988
James A.F. Stevenson Memorial Lecturer, University of Western Ontario, London, 1988
Bernard Pimstone Memorial Lecturer, University of Cape Town, South Africa, 1988
Donald F. Egan Lecturer, American Association of Respiratory Care, Orlando, FL, 1988
Inaugural Ivan Magill Memorial Lecturer, Westminster Hospital, London, UK, 1988
Archibald Byron Macallum Lecturer, University of Toronto, Toronto, 1989
Stanley Black Memorial Lecturer, Los Angeles Academy of Medicine, Los Angeles, 1989
Emilio Bulatao Memorial Lecturer, University of the Philippines, Manila, 1989
Sam Stein Memorial Lecturer, Long Island Jewish Medical Center, New York, 1990
MacLeod Lecturer, Southampton University, UK, 1990

Annual Space Life Sciences Lecturer, FASEB, Atlanta, GA, 1991
Centennial Ralph Watson Lecturer, New Rochelle Hospital Medical Center, New York, 1992
Hermann Rahn Memorial Lecturer, SUNY Buffalo, NY, 1992
Menkes Memorial Lecturer, Johns Hopkins University, Baltimore, MD, 1992
Mohaideen Memorial Lecturer, Long Island College Hospital, Brooklyn, NY, 1993
Bullard Colloquium Lecturer, Uniformed Services University of Health Sciences, Bethesda, MD, 1993
Raven Lecturer, American College of Sports Medicine, Dallas, TX 1995
McClement Lecturer, New York University School of Medicine, New York, NY, 1996
Selman Waksman Lecturer, New Jersey Thoracic Society, New Brunswick, NJ, 1998
James D. Hardy Memorial Lecturer, Pierce Laboratory/Yale University, New Haven, CT, 1998
Gillian Hanson Memorial Lecturer, UK Intensive Care Society, London, UK, 1998
George Dock Lecturer, Huntington Society for the History of Medicine, Pasadena, CA, 1999
Simon Rodbard Lecturer, American College of Chest Physicians, Chicago, IL, 1999
James V. Warren Medical Humanities Lecturer, Ohio State University, Columbus, OH, 2000
Doris J.W. Escher Lecturer, Montefiore Medical Center, New York, NY, 2001
Inaugural Ludwig Engel Lecturer, Westmead Hospital, Sydney, Australia, 2001
D.A. Stewart Lecturer in the History of Medicine, University of Manitoba, Winnipeg, 2002
Julius H. Comroe Lecturer, American Physiological Society, 2003
John Lane Oration, Australasian Society for Aerospace Medicine, Adelaide, Australia and Christchurch, New Zealand, 2004
Harry Fritts Jr. Lecturer, Stony Brook University Medical School, New York, 2007

Moran Campbell Lecturer, British Thoracic Society, London, UK, 2007

Editorial Board Memberships:

American Journal of Physiology (1969-1975)
American Review of Respiratory Diseases (1975-1980)
Applied Cardiopulmonary Pathophysiology (1988-1994)
Chinese Journal of Physiological Sciences (International advisor) (1989-2000)
Circulation Research (1975-1982)
Clinical Physiology (Sweden) (Founder member, 1980-present)
Experimental Physiology (U.K.) (Consultant Editor, 2003-2006)
[High Altitude Medicine and Biology](#) (Founder Editor-in-Chief, 2000-present)
Journal of Applied Physiology (1969-1975; Associate Editor, 1979-1981; Consulting Editor, 1999-2006)
Journal of Clinical Investigation (Consulting Editor, 1992-1998)
Journal of Gravitational Physiology (1994-2005)
Journal of Nuclear Biology and Medicine (Italy) (1975-2005)
Journal of Physiology (London), (1992-2000)
Microvascular Research (Founder member, 1968-1992)
News in Physiological Sciences (Management Board, founder member) (1985-1991)
Proceedings of the Association of American Physicians (1997-2000)

Respiration Physiology (Founder member, 1966-1971)

Russian Journal of Physiology (1995-2000)

Society Memberships:

Alpha Omega Alpha Society (Honorary membership)

American Academy of Arts and Sciences (Fellow)

American Association for the Advancement of Science (Fellow)

American Association for Thoracic Surgery (Honorary Member)

American Institute for Medical and Biological Engineering (Founding Fellow)

American Osler Society

American Physiological Society

American Society for Clinical Investigation

American Society for Gravitational and Space Biology

American Thoracic Society

Association of American Physicians

Association of Chairmen of Departments of Physiology

Explorer's Club

The Fleischner Society

Harveian Society of London

Institute of Medicine, National Academy of Sciences

International Society for Mountain Medicine

Physiological Society (UK)

Royal Geographical Society (UK) (Fellow)

Royal Institution of Great Britain (Fellow)

Royal Society of Medicine (UK) (Fellow)

Russian Academy of Sciences (Foreign Member)

Western Association of Physicians