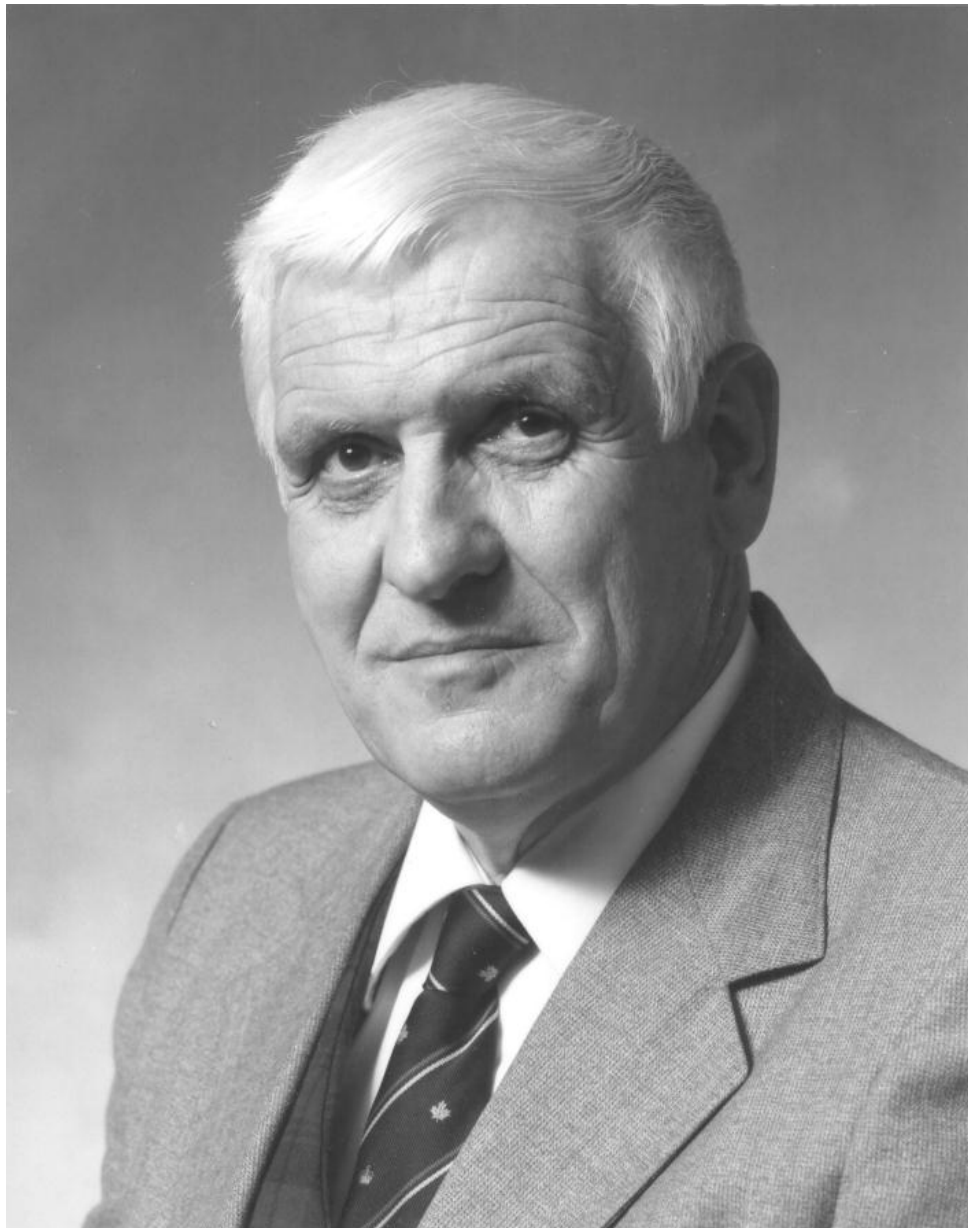


McMASTER UNIVERSITY

Colin Campbell
1927-2008



Colin Campbell was born in St. Andrews, Scotland in 1927. He received an Honours BSc degree in Electrical Engineering in 1952 and a PhD in Low-Temperature Physics (for a thesis on solid-state microwave masers) in 1960 from St. Andrews University, Scotland. In 1984 he was the first recipient of a DSc in Engineering and Applied Science from the University of Dundee, Scotland, (for a thesis on thin-film and solid-state devices). He attended the Massachusetts Institute of Technology twice on scholarships, including the Massachusetts Golf Scholarship, where he received an SM degree in Electrical Engineering in 1953, for a thesis on high-power magnetic amplifiers for machine control.

As a graduate student in 1959 he was an Invited Member of the British research student delegation to the Meeting of Nobel Physics Prize Winners in Lindau, Germany.

In 1942, at the age of 15 during World War II, he trained as a Radio Operator for the British Merchant Navy. At 17 he volunteered for service in the Royal Corps of Signals, British Army, and served from 1944 through 1946. In 1947 he entered the Diplomatic Wireless Service, and was a Communications Engineer with the Foreign Office, London, the British Embassy, Washington, D. C., and the British Delegation to United Nations, New York. He has also served in the military forces of Canada, and from 1962 to 1968 was Commanding Officer of 201 University Squadron, Royal Canadian Air Force Primary Reserve.

He conducted experimental research in a wide range of fields, including stripline antennas, low-temperature superconductivity, masers, magnetic amplifiers, giant-pulse laser oscillators and amplifiers, dielectrics, VLSI, millimeter-wave instrumentation, power-transistor design, high-voltage ceramics, distributed-parameter devices, and surface acoustic wave (SAW) devices. He was the author of 1989 and 1998 textbooks on SAW devices and SAW signal processing, as well as author/co-author of over 100 publications in various engineering and scientific journals. Dr. Campbell was a Life Fellow of the Institute of Electrical and Electronic Engineers (IEEE), a Fellow of the Royal Society of Canada, a Fellow of the Engineering Institute of Canada, a Fellow of the Royal Society of Arts (London), a Member of the Electromagnetics Academy, and a Member of Sigma Xi. He held "The Inventor" insignia from Canadian Patents and Development Ltd. In 1983 he was awarded the Eadie Medal of the Royal Society of Canada, for major contributions to Engineering and Applied Science in Canada.

He was with McMaster University, Hamilton, Ontario, Canada, from 1960 to 1989, where he was a Professor of Electrical and Computer Engineering. Following his retirement, he lectured on advanced electronics in Canada, USA, Japan, Great Britain, France, Germany, Italy and South Africa. In 1995 he was awarded a 60-day Invitational Fellowship to Japan, by the Japan Society for the Promotion of Science. In 1997 he held a Research Fellowship in Industrial Electronics at the Rand Afrikaans University, Johannesburg, South Africa. In both 2000 and 2002 he was appointed a Short-Term Visiting Scholar with the Center for Power Electronic Systems at Virginia Polytechnic Institute and State University in the USA, engaged on power-circuit applications of nonlinear ferroelectric and antiferroelectric ceramics. He was the co-winner of two IEEE "Best Paper Awards" for Year 2002.