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## Honorary Fellowship Recipients

The following members have been named Honorary Fellows of the CIC. There can be no more than 25 living Honorary Fellows at one time.

Howard Alper

Clem W. Bowman

Arthur J. Carty

Howard C. Clark

John C. Polanyi

### Citations

**Howard Alper, HFCIC, O.C.** was appointed chair of the Government of Canada's Science, Technology and Innovation Council. Canada's Minister of Industry, the Honourable Maxime Bernier, announced the creation of the Council on June 15, 2007. The Council provides the government with policy advice on science and technology issues and will produce regular national reports that measure Canada's science and technology performance against international standards of excellence. Alper is a respected member of the science community both internationally and domestically, and he brings extensive knowledge and expertise of science and technology issues to the Council. He has served as chair of the Board of Governors of the Council of Canadian Academies and on private sector boards. He is a full professor in the Department of Chemistry at the University of Ottawa and visiting executive at the International Development Research Centre. Alper is an Officer of the Order of Canada and has received a number of prestigious fellowships and major awards, including being the first recipient of the Gerhard Herzberg Canada Gold Medal for Science and Engineering.

**Clem W. Bowman, HFCIC, O.C.** has had extensive private and public sector experience in the development and commercialization of new technologies, providing a foundation for his active role as chair of the Board of ProGrid Ventures Inc. Before starting ProGrid, Bowman was vice-president, Esso Petroleum Canada, founding chair, Alberta Oil Sands Technology and Research Authority, president, Alberta Research Council, and research manager, Syncrude Canada Limited.

**Arthur J. Carty, HFCIC, O.C.** became National Science Advisor to the Government of Canada after 10 years at the helm of National Research Council of Canada (NRC), Carty holds 5 patents, maintains an active research group at NRC and continues to publish in his field of synthetic chemistry and metallic clusters. He is a former President of the Canadian Society for Chemistry, Honorary Fellow of the Fields Institute for Research in the Mathematical Sciences and a Fellow of the Royal Society of Canada. He has received thirteen honorary degrees from Canadian and foreign universities, is an Officer of the Order of Canada and Officier de l'Ordre national du Mérite of France.

**Howard C. Clark, HFCIC,** was born in New Zealand. He received his PhD from the University of New Zealand and from Cambridge University in England. He came to Canada to join the faculty at the



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University of British Columbia in 1957 and was appointed professor in 1964. He moved to the University of Western Ontario as professor of inorganic chemistry and was chair of the chemistry department from 1967–1976. He served as vice-president academic and professor of chemistry from 1976–1986 at the University of Guelph. From 1986 through 1995, Clark was president and vice-chancellor at Dalhousie University.

**John C. Polanyi, HFCIC, O.C.,** was the recipient of the 1986 Nobel Prize in Chemistry for his work on the dynamics of chemical elementary processes. Throughout his career he has made lasting contributions to the field of chemical reaction dynamics. Born and raised in England, Polanyi obtained a BSc in 1949 and a PhD in 1952 from the University of Manchester. Following his studies, he became a postdoctoral fellow at the National Research Council of Canada laboratories in Ottawa and then a research associate at Princeton University. In 1956, he began his career as a professor at the University of Toronto. Polanyi played an active role in many organizations: Member of the Board of the Ontario Laser and Lightwave Research Centre; Member of the Board of the Steacie Institute for Molecular Sciences, National Research Council Canada; Member of the Science Advisory Board, Max Planck Institute for Quantum Optics, Germany; Honorary Consultant to the Institute for Molecular Science in Okazaki, Japan; President of the Canadian Committee of Scientists and Scholars; Member of the American Academy of Arts and Science Committee on International Security Studies; and Member and Advisor to the Board of the Canadian Centre for Arms Control and Disarmament. In addition to the Nobel Prize, Polanyi received a number of awards and honours, such as the Henry Marshall Tory Medal of the Royal Society of Canada, the Wolf Prize in Chemistry, the Izaak Walton Killam Memorial Prize, the Royal Medal of the Royal Society of London, and the John C. Polanyi Lecture Award of the Canadian Society for Chemistry. Polanyi has also received numerous honorary degrees from universities in Canada, England, Israel, and Italy. He is a Fellow of the Royal Society of Canada, an Honorary Fellow of the Royal Society of Chemistry of the UK. Polanyi is also a member of the Queen's Privy Council for Canada, an Officer of the Order of Canada, and a Companion of the Order of Canada.