
THE ROYAL SOCIETY OF CANADA (RSC) 2011 MEDALS AND AWARDS RECIPIENTS

The Rutherford Memorial Medal in Physics

CACHAZO, Freddy A. – Perimeter Institute for Theoretical Physics

Freddy A. Cachazo is a theoretical physicist who has made outstanding contributions to the field of particle physics. With collaborators, Cachazo has developed entirely new methods of calculating scattering processes in gauge theory. Besides being of immediate utility to accelerator experiments, like those at the LHC at CERN, Cachazo's work aims to deepen our understanding of quantum field theories and of the nature of the physical laws governing spacetime.

The Alice Wilson Award

CHAZAN, May – Department of Geography and Environment, Carleton University

May Chazan received her PhD in Geography from Carleton University in 2011 and has recently embarked on a SSHRC-supported post-doctoral fellowship at the University of Toronto. Through a critical feminist lens, her research investigates the ways in which older women are mobilizing and forming transnational connections in their struggles for social change.

The Konrad Adenauer Research Award

DANIELSON, Dennis R. – Department of English, The University of British Columbia

Dennis Richard Danielson is a literary and intellectual historian who has made exceptional scholarly contributions to Milton studies and has also challenged both scientists' and humanities and scholar's conceptions about the historical, cultural, and cosmological meaning of the Copernican Revolution.

The Innis-Gérin Medal

DIONNE, Georges – Canadian Research Chair in Risk Management, HEC Montréal

Georges Dionne is an internationally celebrated researcher in applied economics for the fields of insurance, finance, health, transportation and the environment. He has also contributed to applied econometrics. He is especially known for his statistical tests for isolating information problems. His research was among the first to demonstrate that information asymmetry could lead to genuine economic costs.

The Sir John William Dawson Medal

HIPEL, Keith W. – Department of Systems Design Engineering, University of Waterloo

Keith W. Hipel is globally renowned for his unique interdisciplinary research in systems engineering on the development of conflict resolution, multiple criteria decision analysis, time series analysis and other decision-making methodologies for addressing challenging system of systems problems lying at the confluence of society, science, technology and the environment.

The McLaughlin Medal

HOLLENBERG, Morley D. – Department of Physiology & Pharmacology, University of Calgary

Since the late 1960s, Morley D. Hollenberg has been responsible for sustained and original contributions related to the molecular pharmacology of hormone action. His work has led to a new understanding of the “hormone-like” roles that proteolytic enzymes can play in the setting of inflammatory diseases like arthritis, colitis, asthma and neurodegenerative disorders.

The Pierre Chauveau Medal

LADOUCEUR, Robert – School of Psychology, Université Laval

Robert Ladouceur has been studying the psychology of gambling and money for over 30 years. He has received numerous national and international awards and distinctions. He has published many scientific articles (more than 350) and some of his books have been translated into English, Spanish, Italian and Chinese. He has developed preventive and therapeutic interventions for pathological gambling that are used around the world.

The Henry Marshall Tory Medal

MCDONALD, Arthur B. – Department of Physics, Queen’s University

Arthur B. McDonald is an award-winning, innovative and energetic researcher who has achieved a position of great prominence in the international scientific community. Through his personal research and his leadership of the Sudbury Neutrino Observatory experimental collaboration, he has contributed to advances in sub-atomic physics and astrophysics that are of fundamental importance, particularly for the physics of neutrinos and the sun.

The McNeil Medal

MILLER, R.J. Dwayne – Department of Chemistry, University of Toronto

This award recognizes R.J. Dwayne Miller for his dedication to the promotion of science throughout this career and as a founder of Science Rendezvous. This event provides a single voice behind which all the sciences have rallied across the nation to teach the public about the importance of science to society, and to make the joys of science accessible.

The Rutherford Memorial Medal in Chemistry

ROSEI, Federico – Department of Energy, Materials and Telecommunications, Institut de la Recherche Scientifique

Federico Rosei's work and scientific achievements have led to remarkable new insights on the properties of organic/inorganic surfaces and interfaces. He is internationally recognized for his outstanding achievements, in particular to the understanding of molecule-surface interactions and to surface reconstructions induced by molecular adsorbates.

The Mirosław Romanowski Medal

WEAVER, Andrew J. – School of Earth and Ocean Sciences, University of Victoria

Andrew J. Weaver is Canada's best-known climate-change scientist. He is recognized internationally as a leader in climate modeling and analysis and, in particular, a foremost expert on the role of the ocean in climate variability and change. His exceptional research achievements, scholarly writings, and resolute efforts to share his knowledge on climate change have been critically influential the world over.

The Willet G. Miller Medal

WILLIAMS-JONES, Anthony E. – Department of Earth and Planetary Sciences, McGill University

Anthony E. Williams-Jones has made fundamental contributions to our understanding of how metals are transported and concentrated to form economically exploitable mineral deposits. The results of his research have helped develop the models that mining companies employ to guide their exploration for new deposits of metallic minerals.