

Steven Holdcroft

Professor of Chemistry

Tier I Canada Research Chair

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EDUCATIONAL BACKGROUND

1987 Ph.D., Chemistry, Simon Fraser University, Canada
1983 B.Sc. (Hons 1st), Chemistry, University of Salford, UK

ACADEMIC RESEARCH AND INDUSTRIAL EXPERIENCE

2023–2030 Tier I Canada Research Chair (Electrochemical Materials)
2024– Scientific Director, SFU Hydrogen Hub
2018 – Scientific Advisor, Ionomr Innovations Inc.
2017 – 2018 Chief Scientific Officer, Ionomr Innovations Inc.
2014 – 2017 Chair of Department, Chemistry, Simon Fraser University
2016 Co-Founder, Ionomr Innovations Inc., Vancouver, BC
2016 – 2023 Tier I Canada Research Chair (Electrochemical Materials)
2001 – 2013 Principal Research Officer, Secondment (50%) to NRC-Vancouver, formerly the Institute for Fuel Cell Innovation
1998 – Professor, Chemistry, Simon Fraser University
1994 – 1998 Associate Professor, Chemistry, Simon Fraser University
1990 – 1994 Assistant Professor, Chemistry, Simon Fraser University
1987 – 1989 NSERC Postdoctoral Fellow, Chemistry, University of Toronto

AWARDS, CITATIONS AND HONORS

Governor General's Innovation Award, Rideau Hall Foundation, 2024
Montreal Medal, Chemical Institute of Canada, 2024
Gutenberg Chair (University of Strasbourg) 2023
Inducted into the Royal Society of Canada (Fellow) 2021
SFU Outstanding Alumni Award for Academic Achievement, 2018
Visiting Research Professor Award, Norwegian University of Science and Technology, 2017
Ken Russell Award lecture, Queen's University, Kingston, 2017
CSC Rio Tinto/Alcan Award for contributions in Inorganic Chemistry or Electrochemistry, 2015
Affiliate Professor, Royal Institute of Technology (KTH), Stockholm, 2008
Jiatong Shanghai University, Research Lecture Award, China, 2012
University of South Australia, Distinguished Researcher Award, 2012
Visiting Research Fellow, National Sun Yat Sen University, Taiwan, 2011
CIC Macromolecular Science and Engineering Division Award, 2010
Clarence Karcher Student Lecture Award, Oklahoma Univ., 2007
Fellow, Chemical Institute of Canada, 2005
National Research Council IFCI Teamwork Award, 2003

Visiting Research Professor Award, University of South Australia, 2003
Distinguished Research Fellow, Ian Wark Research Institute, Australia, 2002
SFU University Excellence in Teaching Award, 2000

RECORD OF PROFESSIONAL DISTINCTION:

Boards and Memberships

Board of Directors of the NSERC Green Electronics Network, Laval University, 2019-2024
Interim Executive Board Member, Commonwealth Chemistry 2020
Canadian Society for Chemistry (CSC), 2018-2021
Member, Board of Directors, Chemical Institute of Canada (CIC), 2020
Member, Board of Directors (Elected Annually), Canadian Fuel Cells and H₂ Assoc., 2011-2021
International Advisory Board, Doctoral Education, Yamanashi Univ. Japan, 2012-2017.
Executive Member of the Board, Canadian Green Chemistry Network, 2006-2008
Member, International Scientific Committee, CARISMA, 2011-present

Societies

Past President, Canadian Society for Chemistry, 2021
President, Canadian Society for Chemistry, 2020
Vice-President, Canadian Society for Chemistry, 2018-2020
Member, Steering Committee, "BC H₂ & FC Strategy", Premier's Technology Council, 2008-2009
Scientific Committee, Hydrogen Society of Mexico, 2006-2008
Elected to the Fellowship of IUPAC, 2000
Treasurer, Macromolecular Science and Engineering Division of CIC, 1997-2006
Fellow of the Chemical Institute of Canada (CIC), 1997
Executive Committee, Macromolecular Division of IUPAC, 1997
Executive Member, Macromolecular Science and Engineering Division (CIC), 1993-2010.
Chair, Vancouver Section, Chemical Institute of Canada, 1995-98
Member, American Chemical Society
Member, International Society of Electrochemistry
Member, Electrochemical Society

Granting Agencies and Selection Committees

Selection Committee for Adjunct Professorships, Norwegian University of S&T, 2018
Expert Panel Member, EU Horizon 2020 JU applications (Brussels), 2017 & 2018
Member, Selection committee for Rio Tinto Award (CSC) National Award, 2 times (2015-2018)
Group Chair, NSERC Discovery Grant Evaluation Group 1504 (Chemistry), 2014- 2017
Member, NSERC Committee on Discovery Research (CDR), 2014-2017
NSERC Chemistry RTI Selection Committee, 2012
Chair, NSERC Grant Selection Committee, GSC 26, 2008 & 2009
Member, NSERC Grant Selection Committee, GSC 26, 2006 & 2007
International panel for the evaluation of Chemical Engineering in Sweden, Stockholm, 2004
Member of Scientific Co-ordination Committee, NRC fuel cell program, 2003
International Scientific Panel, Foundation for Environmental Research, Sweden, 2002-2007
Chair, NSERC Strategic Projects Grant Panel (VAPP), 2002.
Member, NSERC Strategic Projects Grant panel (Materials Technologies-Panel F), 2000 & 2001

Member, Selection committee for MSED (CIC) National Award, 5 times (between 2000 & 2015)

Journals

Editorial Advisory Board Member, *Chemistry of Materials*, 2015- present

Editorial Advisory Board Member, *Journal of Power Sources Advances*, 2020- present

Editorial Advisory Board Member, *Energy and Environmental Science* (RSC), 2008-present

Guest Editorial Board, *Journal of Electrochemical Energy Conversion and Storage* (ASME). Special Issue on “Emerging Investigators in Electrochemical Energy Conversion and Storage”, 2018.

Editorial Advisory Board Member, *Polymer Chemistry* (RSC), 2010-2016

Editorial Advisory Board Member, *Chemistry of Materials* (ACS), 2010-2013

Editorial Advisory Board, *Canadian Journal of Chemistry*, 2008-2011

Editorial Board, *European Polymer Journal*, 2003-2010

Networks

Network partner, DE-centralised Cloud labs for Industrialisation of Energy materials (DECODE), Juelich GmbH, 16 partners over 6 countries (2024-2027)

International Energy Authority (IEA) Annex 30 Member, Working Group on Electrolysis, 2022- German-Canadian Materials Acceleration Center (GC-MAC), Forschungszentrum Juelich GmbH (2021-2024)

Member, NSERC Green Electronics Network, Laval University, PI M. Leclerc 2019-2024

Theme Leader, NSERC Discovery Frontiers. “Nickel Catalysts for Electrochemical Clean Energy “Ni Electro Can”, Queens Univ., 2015-2019.

Principal Applicant and Technical Director, National APC Network on Catalyst Research for Polymer Electrolyte Fuel Cells (CARPE-FC), 2012-2018

Symposia & Conferences

Symposium Organizer, ABCChem, Marrakesh, Morocco, 2022

Organizing Committee, World Hydrogen Technology Conference, Montreal, 2021

Congress Vice Chair, Chair of the Scientific Program, Pacifichem 2015, 2011-2016.

Organizing Committee for MSED, CSC Conference, Vancouver, 2014

Organizing Committee, Hydrogen & Fuel Cells International Conf., Vancouver, 2012

Organizing Committee, Hydrogen & Fuel Cells International Conf., Vancouver, 2010

Scientific Program Chair, Pacifichem 2010, 2006-2010

Symposium Organizer, IUPAC and ACS Conference on Macromolecules, New York City, 2007

Observing member, Organizing Committee, Pacifichem, 2003-2005

Division Organizer (MSED), 86th CSC Conf. & Exhibition, BC, 2002

Program Committee, Canadian Hydrogen Conference, Vancouver, 2001

Symposium Organizer, Pacifichem 2000, Honolulu, 2000

Chair, Scientific Program, 81st Canadian Society Conference and Exhibition, Whistler BC, 1998