

## **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
2020	President, Canadian Society for Chemistry
2018 – 2025	Scientific Advisor, Ionomr Innovations Inc.
2017 – 2018	Chief Scientific Officer, Ionomr Innovations Inc.
2014 – 2029	Technical Director, CaRPE-FC
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**

Society of Chemical Industry, Kalev Pugi Award 2025  
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**

Scientific Advisory Board Member, Energy Earthshot Research Center (EERC) – Hydrogen (Center for Ionomer-based Water Electrolysis or CIWE), US DoE 2024-  
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 H<sub>2</sub> 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 H<sub>2</sub> & 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)  
NSF funded Network: Research and Education Accelerated by Connections in Clean Hydrogen (REACH2) created to form a global clean hydrogen Network of Networks – led by Prof. J. Jankovic, UConn 2023-  
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