



ONLINE  
EVENT

# 20 SCI Canada 21 AWARDS

*Organized by SCI Canada*

Thursday 25 March 2021



## WELCOME

### Welcome to the SCI Canada Awards

Since its formation in 1902, SCI Canada has recognized achievements in the Canadian chemical industry and has presented awards to chemistry and chemical engineering students, in order to bolster the drive for innovation.

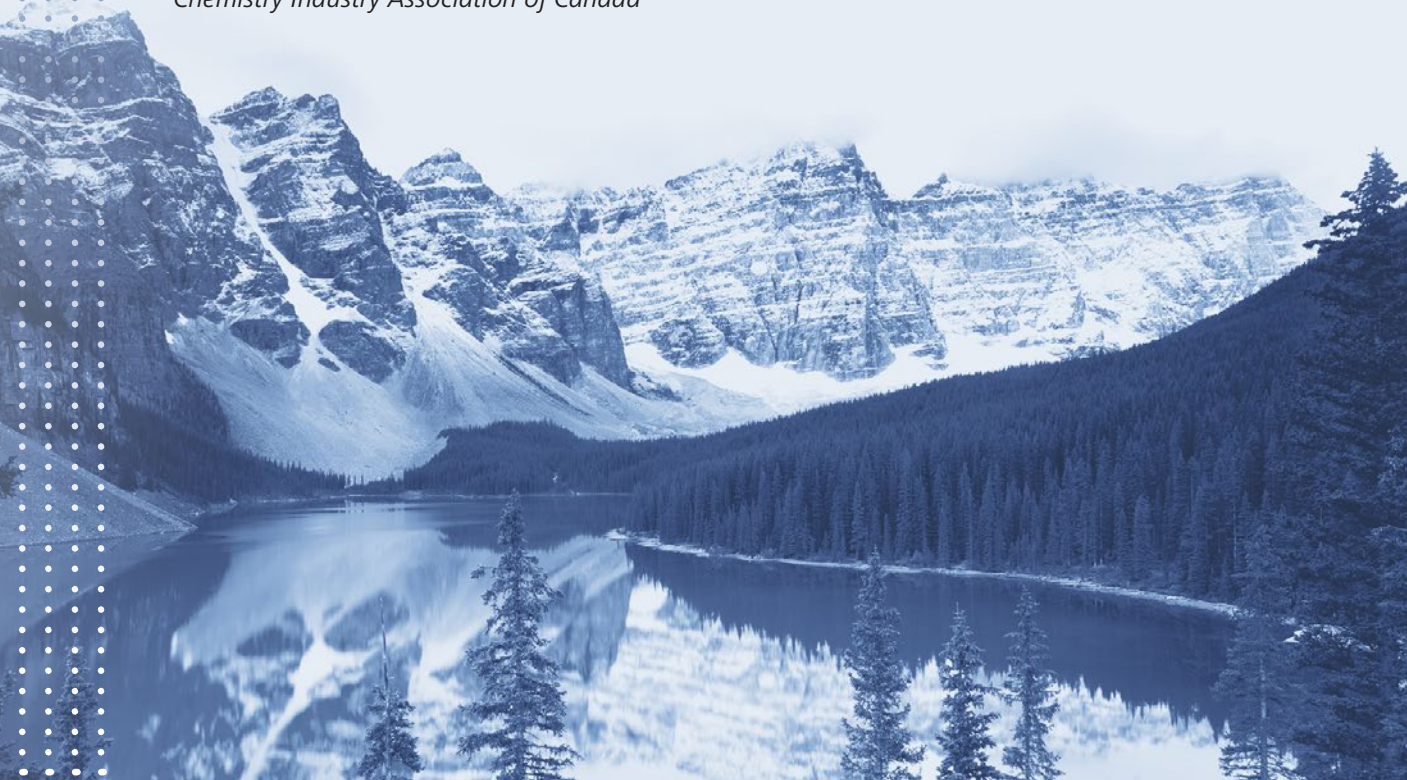
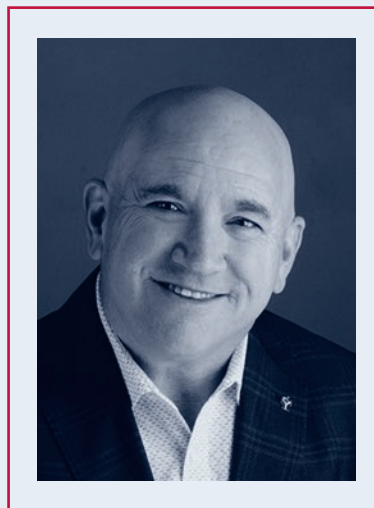
This year we will be presenting prestigious awards to industry and academic leaders for their outstanding achievements. We will also recognize the highest performing undergraduate students in biochemistry, chemical engineering and chemistry at universities across Canada, several of whom are in attendance this evening.

As Chair of the SCI Canada Nominations Committee, my colleagues and I are privileged to be able to recognize achievement, to celebrate success and to encourage excellence in the chemical industry and through this awards program we aim to strengthen our ties with industry, academia and business across Canada and to further promote excellence in the sector. I hope you will enjoy our first online SCI Canada Awards Event.

**Bob Masterson**

*President and CEO*

*Chemistry Industry Association of Canada*



## A WORD FROM SCI'S CEO

The Society of Chemical Industry (SCI) was established in 1881 by scientists, inventors and entrepreneurs interested in creating new products and processes from the emerging technologies and innovations of the day.

SCI fosters innovation through networking and education with an international community specifically designed to create collaborations across non-traditional boundaries. Our charitable objective is to promote links between science and industry for the benefit of society, which allows us to look at opportunities to tackle global challenges and identify possible solutions. The Canada Awards recognize leaders and their achievements in the chemical industry and education across Canada, and its long standing nature started with the Canada Medal being established 1939.



As we celebrate our 140<sup>th</sup> year, I am proud of SCI's heritage and the SCI Canada International Group's Awards Program and I would like to congratulate our winners. I would also like to say thank you to our sponsors CIAC, Nova Chemicals, Ford Motor Company of Canada, Let's Talk Science, HL Blachford, Responsible Distribution Canada (RDC), and to our university sponsors Centre for Mechatronics and Hybrid Technologies from MacMaster University, the University of Windsor and the University of Toronto, all of whom have made this special event possible.

**Sharon Todd**  
*SCI Chief Executive*

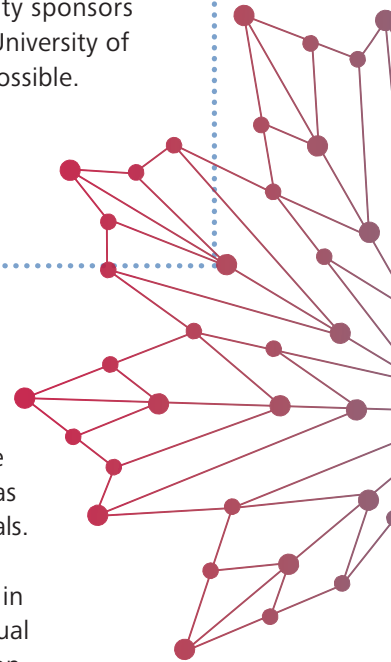


**SCI  
 CANADA**

SCI is a unique multi-disciplinary forum where science meets business on independent, impartial ground. SCI provides the opportunity for sharing information among sectors as diverse as Energy, Environment, Agrifood, Health & Wellbeing, and Materials.

Established in 1881 as the Society of Chemical Industry and in Canada in 1902, SCI is today a registered charity with individual members in over 70 countries. Its headquarters are in London.

Ever since its foundation SCI's principal objective has been to further the application of chemistry and related sciences for the public benefit, through our events and publications.





## SCI CANADA AWARDS

Join us to recognize and celebrate achievements in the Canadian chemical industry at this years' SCI Canada Awards Event, to be held online for 2021. The Awards will be followed by a panel on the topic of '*Chemistry in a Time of Crisis*'. We look forward to being able to hold this event as a dinner next year, and bring academia, industry and business together to celebrate achievement and excellence in our industry.

### Panel chemistry in a time of crisis

**Moderator: Dr Joe Schwarcz**

**Panellists: Naushad Jamani, Dr Sarah Gallagher and Lyndon Swick**

Never before in our lifetime have we experienced a crisis like we have with the Coronavirus pandemic. Chemistry has and will continue to manage the journey out of the place we currently find ourselves. Historically chemistry has lead us through difficult times in the past and will be there for us now and in the future. Academia and the chemistry industry working together will have a profound effect on the road to recovery and beyond. Please join the Society of the Chemical Industry on March 25<sup>th</sup> when we bring academia and industry together to discuss and highlight the challenges, learnings and successes that will guide us in the future.

## SPONSORS

THANK YOU

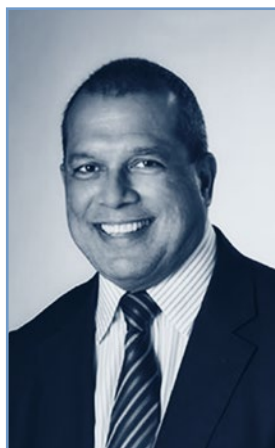


25 MARCH 2021

## PROGRAM

14:00	<b>Welcome and introduction</b> <i>Bob Masterson, Chemistry Industry Association of Canada and Sharon Todd, CEO, SCI</i>
14.10	<ul style="list-style-type: none"><li>▪ <b>Student Merit Award</b> winners recognition</li><li>▪ Presentation of the <b>Julia Levy Award</b> to <i>Dr Lakshmi Kotra</i></li><li>▪ Presentation of the <b>Kalev Pugi Award</b> to <i>Dr Jamal Chaouki</i></li><li>▪ Presentation of the <b>International Award</b> to <i>Dr Jimi Tjong</i></li><li>▪ Presentation of the <b>LeSueur Memorial Award</b> to <i>Dr Laurel Schafer</i></li><li>▪ Presentation of the <b>Purvis Memorial Award</b> to <i>Dr Sarah Gallagher and Dr Cara Tannenbaum</i></li><li>▪ Inauguration and presentation of the <b>Outreach Award</b> to <i>Dr Joe Schwarcz</i></li><li>▪ Presentation of the <b>Canada Medal</b> to <i>Naushad Jamani</i></li></ul>
15.00	<b>Panel discussion: "Chemistry in a time of crisis"</b>
15:40	<b>Closing remarks</b>
	

## AWARD WINNERS



Est. 1939

### The Canada Medal

Awarded to  
**Naushad Jamani**  
*Nova  
Chemicals*



Naushad Jamani retired as SVP Olefins at Nova Chemicals in 2019 after over 30 years of service to the industry in Canada, including building Nova into the largest chemical company in Canada and its leading proponent of Responsible Care.



Est. 1975

### International Award

Awarded to  
**Dr Jimi Tjong**  
*Ford  
Canada*



Dr Tjong of FORD Canada leads the Powertrain Engineering, Research and Development Centre (PERDC) at Windsor Essex in partnership with Canada's leading Universities and is known globally for his pioneering and innovative ideas, vision and leadership in making the global transportation value chain greener and sustainable, including low carbon fuel and low carbon light-weight and functional materials.



Est. 2002

### Kalev Pugi Award

Awarded to  
**Dr Jamal Chaouki**  
*École Polytechnique  
de Montréal*



Dr Chaouki of École Polytechnique de Montréal has a significant track record of industrially oriented research focused on the development of innovative technologies and processes for conversion of waste, biomass and complex raw materials to energy, fuels and chemicals.



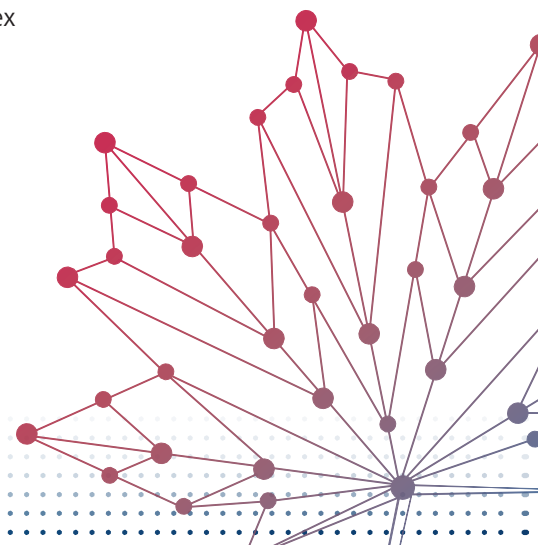
Est. 1955

### LeSueur Memorial Award

Awarded to  
**Dr Laurel Schafer**  
*University of  
British Columbia*



Dr Schafer of the University of British Columbia is recognized for her work in amination processes and catalysis, and in enantioselective catalytic synthesis of biopolymers.



## AWARD WINNERS



Est. 1947

**Purvis  
Memorial Award**

Awarded to  
**Dr Sarah Gallagher**  
*Canadian Space Agency  
& Western University*



Sarah Gallagher is the Science Advisor to the President of the Canadian Space Agency and a Professor of Physics and Astronomy at Western University. In March 2020, she applied expertise gained from contributing to large astronomy project teams to determine the technical requirements and set up the collaboration framework for the rapid implementation of CanCOVID.



Est. 1947

**Purvis  
Memorial Award**

Awarded to  
**Dr Cara Tannenbaum**  
*Université de Montréal*



Cara Tannenbaum is the Departmental Science Advisor to Health Canada and a Professor in the Faculties of Medicine and Pharmacy at the Université de Montréal. During the first wave of the pandemic, she transformed the idea of CanCOVID into reality, co-founding a virtual real-time collaboration, communication and coordination platform to crowdsource scientists' knowledge about SARS-Cov-2 into government decision-making.



Est. 2021

**Outreach  
Award**

Awarded to  
**Dr Joe Schwarcz**  
*McGill University*



Dr Joe Schwarcz is globally known for his outstanding reach out to society at large for his knowledge-rich and highly entertaining public lectures on topics, such as science, body, mind, and society; Joe made tremendous contribution to the chemistry in everyday life by popularizing Chemistry throughout his lifelong media career.



Est. 2006

**Julia Levy  
Award**

Awarded to  
**Dr Lakshmi Kotra**  
*University of Toronto*



Dr Lakshmi Kotra inventions span novel small molecules for chronic diseases as well as novel industrial technologies, and several of them have been successful start-ups and further licensed for commercialization. Dr. Kotra has contributed to several drug discovery and drug delivery projects including anti-HIV drugs, antibacterials, insulin, anti-malarials, drugs targeting multiple sclerosis, and medical cannabis-based therapeutics.

## 2019 STUDENT MERIT AWARD WINNERS

## Ontario

Joclyn Armit	Lakehead University	Biochemistry
Lyndsay Desimone	Lakehead University	Chemistry
Neal Londry	Lakehead University	Chemical Engineering
Andrew Kwong	McMaster University	Biochemistry
Jason Yeung	McMaster University	Chemistry
Melissa Larocque	McMaster University	Chemical Engineering
Ella Marie Dekemp	Queens University	Biochemistry
Hayden Deacon	Queens University	Chemical Engineering
Kayla Ann Thompson	Queens University	Engineering Chemistry
Polina Novoseltseva	Queens University	Chemistry
Élisabeth Desgagné	Royal Military College of Canada	Chemistry
Angus Sullivan	Trent University	Chemistry
Rodion Gordzevich	Trent University	Biochemistry
Catherine Jany	University of Guelph	Biological & Pharmaceutical Chemistry
Elizabeth Brown	University of Guelph	Chemistry
Aiden Pezacki	University of Ottawa	Chemistry
Neelabh Rastogi	University of Ottawa	Chemical Engineering
Alan Amin	University of Toronto	Biochemistry
Ali Emam	University of Toronto	Chemical Engineering
Evangeline Tsagarakis	University of Toronto	Biochemistry
Nan-Hui (Suzanne) Yao	University of Toronto	Chemistry
Jia Qi Han	University of Toronto Mississauga	Forensic Chemistry
Shaishav Datta	University of Toronto Mississauga	Chemistry
Tetyana Murdza	University of Toronto Mississauga	Biochemistry
Alexander McCarthy	McGill University	Chemical Engineering
Celine Prell	McGill University	Biochemistry
Jessica Karaguesian	McGill University	Chemistry
Jacob Rothera	University of Windsor	Chemistry
Nathan Doupnik	University of Windsor	Biochemistry
Sean Chen	Western University	Chemical Engineering

## Saskatchewan

Reyad Arwini	University of Regina	Biochemistry
Shyla Christie	University of Regina	Chemistry
Ian Andvaag	University of Saskatchewan	Chemistry
Jason Lawrence	University of Saskatchewan	Chemical Engineering
Michael Atser	University of Saskatchewan	Biochemistry

## Alberta

Ivy Porter	University of Alberta	Biochemistry
Alexander Gherasim	University of Calgary	Chemistry
Alyne Ribano	University of Calgary	Biochemistry
Logan Gray	University of Calgary	Chemical Engineering
Austin Huculak	University of Lethbridge	Chemistry
Jeffrey McDonald	University of Lethbridge	Biochemistry

## British Columbia

Esmee Zinkan	University of Victoria	Biochemistry
Cody James	Simon Fraser University	Chemistry
Olivia Tsai	Simon Fraser University	Biochemistry

## Nova Scotia

Chloe Ma	Dalhousie University	Biochemistry
Connor Lamont	Dalhousie University	Chemistry
Andrew Duffy	St Francis Xavier	Chemistry



## Quebec

<b>Jason Covone</b>	<i>Concordia University</i>	Biochemistry
<b>Weijie Tan</b>	<i>Concordia University</i>	Chemistry
<b>Alexandra McGowan</b>	<i>University of Waterloo</i>	Chemical Engineering
<b>Antoine Fournier</b>	<i>Université de Sherbrooke</i>	Chemical Engineering
<b>Jacob Tremblay</b>	<i>Université de Sherbrooke</i>	Chemistry
<b>Melissa Windsor</b>	<i>Université de Sherbrooke</i>	Biotechnology
<b>Raphael Robidas</b>	<i>Université de Sherbrooke</i>	Chemistry
<b>Jacob Lessard-Lord</b>	<i>Université Laval</i>	Chemistry
<b>Maxime Dumas</b>	<i>Université Laval</i>	Biochemistry
<b>Samuel Rancourt</b>	<i>Université Laval</i>	Chemical Engineering
<b>Maryam Hojjat Jodaylami</b>	<i>Université de Montreal</i>	Chemistry

## New Brunswick

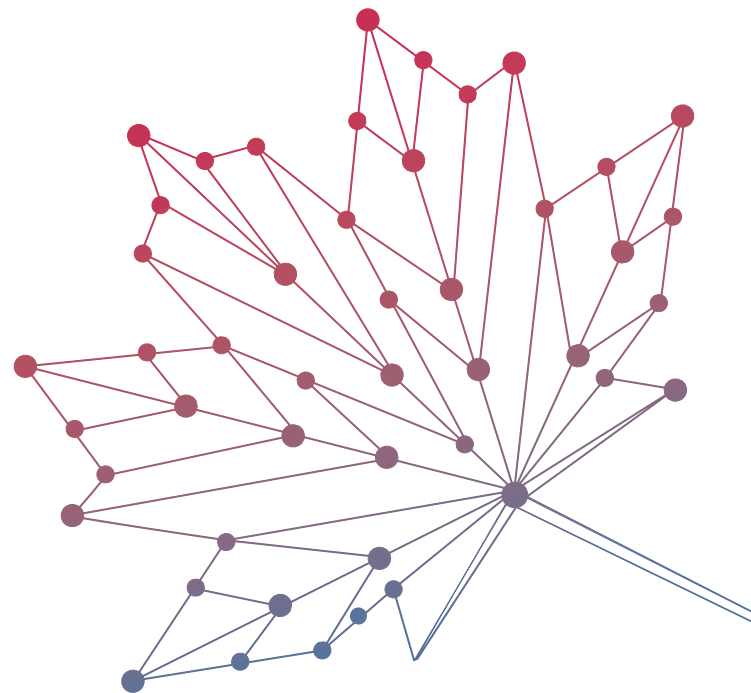
<b>Andrew Linton</b>	<i>Mount Allison University</i>	Chemistry
<b>Katherine Reiss</b>	<i>Mount Allison University</i>	Chemistry
<b>Maia Murphy</b>	<i>Mount Allison University</i>	Chemistry
<b>Maxim Landry</b>	<i>Mount Allison University</i>	Chemistry
<b>Megumi Gates</b>	<i>Mount Allison University</i>	Biochemistry
<b>Brandon Frenette</b>	<i>University of New Brunswick</i>	Chemistry
<b>Brennan MacLean</b>	<i>University of New Brunswick</i>	Chemical Engineering
<b>Connor Flynn</b>	<i>University of New Brunswick</i>	Biochemistry
<b>Audrey Isabel Chiasson</b>	<i>Université de Moncton</i>	Chemistry
<b>Chloé Comeau</b>	<i>Université de Moncton</i>	Biochemistry

## Newfoundland

<b>Christopher Qiu</b>	<i>Memorial University of Newfoundland</i>	Chemistry
<b>Liam Gregory</b>	<i>Memorial University of Newfoundland</i>	Biochemistry

## Manitoba

<b>Carolyn Gregory</b>	<i>University of Winnipeg</i>	Chemistry
<b>Harjot Sidhu</b>	<i>University of Winnipeg</i>	Biochemistry



## 2020 STUDENT MERIT AWARD WINNERS

## Ontario

<b>Talia Mendelsohn</b>	<i>University of Guelph</i>	Chemistry
<b>Brooke Rapien</b>	<i>University of Guelph</i>	Chemistry
<b>Konrad Samsel</b>	<i>University of Toronto</i>	Nutritional Sciences
<b>Khushbu Patel</b>	<i>Trent University</i>	Chemistry
<b>Cassandra Johannessen</b>	<i>Trent University</i>	Chemistry
<b>Marlena Scaffidi</b>	<i>University of Ottawa</i>	Chemistry & Biomolecular Sciences
<b>Mason Guy</b>	<i>University of Ottawa</i>	Chemistry & Biomolecular Sciences
<b>Valérie Saikaley</b>	<i>University of Ottawa</i>	Chemistry & Biomolecular Sciences
<b>Wei Cheng Hooi</b>	<i>University of Toronto</i>	Chemical Engineering & Applied Chemistry
<b>Jack Babulic</b>	<i>Queen's University</i>	Biochemistry
<b>Joshua Kofsky</b>	<i>Queen's University</i>	Chemistry
<b>Gabrielle Godbille</b>	<i>Queen's University</i>	Chemical Engineering
<b>Justin Kaskow</b>	<i>Queen's University</i>	Engineering
<b>Samantha Stanzel</b>	<i>University of Ottawa</i>	Department of Chemical & Biological Engineering
<b>Melanie Semaan</b>	<i>University of Windsor</i>	Chemistry & Biochemistry
<b>Ariel Sotomayor</b>	<i>University of Windsor</i>	Chemistry & Biochemistry
<b>Sawsan Abusharkh</b>	<i>Carleton University</i>	Chemistry
<b>Wondewossen Gebeyehu</b>	<i>Carleton University</i>	Chemistry
<b>Alveena Ahmed</b>	<i>McMaster University</i>	Bochem & Biomed Sciences
<b>Alexander Ferch</b>	<i>Royal Military College of Canada</i>	Chemical Engineering
<b>Momin Kashif</b>	<i>University of Toronto Mississauga</i>	Chemical & Physical Sciences
<b>Lyndon Swick</b>	<i>Lakehead University</i>	Chemistry
<b>Branden Mandaric</b>	<i>Lakehead University</i>	Chemistry
<b>Tien Nguyen</b>	<i>Lakehead University</i>	Chemical Engineering

## Saskatchewan

<b>Julia Batiuk</b>	<i>University of Saskatchewan</i>	Chemical & Biological Engineering
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## Alberta

<b>Cole Englot</b>	<i>University of Alberta</i>	Chemical & Materials Engineering
<b>Anna Huang</b>	<i>University of Alberta</i>	Chemistry
<b>Christina Hassey</b>	<i>University of Alberta</i>	Chemical Engineering
<b>Eman Moussa</b>	<i>University of Alberta</i>	Biochemistry
<b>Laura Mah</b>	<i>University of Calgary</i>	Biochemistry
<b>Angie Hu</b>	<i>University of Calgary</i>	Chemistry
<b>Zachary Kahn</b>	<i>University of Calgary</i>	Chemical Engineering

## British Columbia

<b>Danielle Hanke</b>	<i>University of Victoria</i>	Chemistry
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## Nova Scotia

<b>Noa Sorbara</b>	<i>Dalhousie University</i>	Biochemistry & Molecular Biology
<b>Joshua MacMillan</b>	<i>Dalhousie University</i>	Chemistry
<b>Nikita Kenney</b>	<i>St. Francis Xavier</i>	Chemistry
<b>Tiffany MacLennan</b>	<i>St. Francis Xavier</i>	Chemistry

## Quebec

<b>Félix Gagnon</b>	<i>Université Laval</i>	Chemistry
<b>Olivier Courtemanche</b>	<i>Université Laval</i>	Biochemistry, Microbiology & Bioinformatics
<b>Xiao Cong Zhang</b>	<i>McGill University</i>	Chemistry
<b>Bianca Adams</b>	<i>McGill University</i>	Biochemistry
<b>Alex Desgagnes</b>	<i>Université Laval</i>	Chemical Engineering Department
<b>Devin Klapatiuk</b>	<i>University of Regina</i>	Chemistry & Biochemistry
<b>Jared Price</b>	<i>University of Regina</i>	Chemistry & Biochemistry
<b>Melissa Lemire</b>	<i>Sherbrooke University</i>	Chemical & biotechnological engineering
<b>Loïc Bellemare</b>	<i>Sherbrooke University</i>	Chemical & biotechnological engineering
<b>Melissa Windsor</b>	<i>Sherbrooke University</i>	Biotechnology
<b>Antoine Fournier</b>	<i>Sherbrooke University</i>	Chemical & biotechnological engineering

## Newfoundland

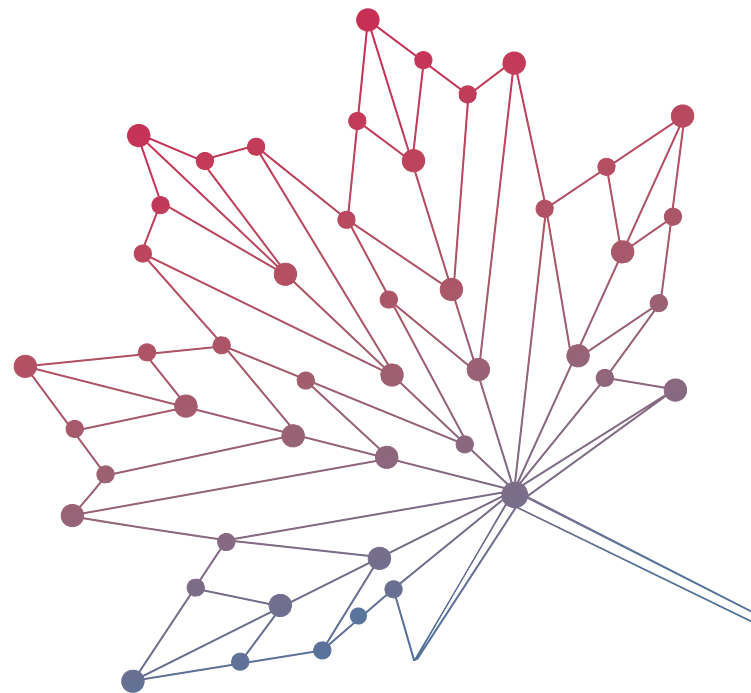
<b>Henry Power</b>	<i>Memorial University of Newfoundland</i>	Biochemistry
<b>Pauline Seviour</b>	<i>Memorial University of Newfoundland</i>	Chemistry

## Manitoba

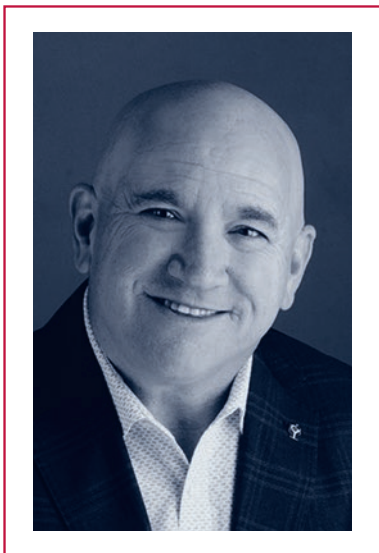
<b>Lucy Todd</b>	<i>The University of Winnipeg</i>	Chemistry
<b>Spencer Ferbers</b>	<i>The University of Winnipeg</i>	Chemistry

## New Brunswick

<b>Alanna Bohnsack</b>	<i>University of New Brunswick</i>	Chemistry
<b>Jordan Conrad</b>	<i>University of New Brunswick</i>	Chemistry
<b>Ève Mallet Gauthier</b>	<i>Université de Moncton</i>	Chimie/ Biochimie
<b>Alexandre Landry</b>	<i>Université de Moncton</i>	Chimie/ Biochimie



## PRESENTER BIOGRAPHY



### **Bob Masterson**

*President and CEO, Chemistry Industry Association of Canada*



Bob Masterson is President and CEO of the Chemistry Industry Association of Canada (CIAC). He is responsible for executing the strategic direction and ongoing operations of the Association. Bob joined CIAC in 2010 as Vice President of Responsible Care®, the industry's globally recognized sustainability initiative. Under his leadership, Responsible Care enacted a new set of sustainability principles and guidelines for Canada's chemistry industry.

Prior to joining CIAC, Bob spent 15 years as a consultant on environment and sustainability issues in a number of industry sectors including forest products, electricity, cement, mining and energy.

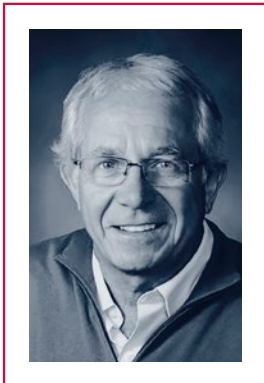
# 2021 SCI Canada AWARDS



## NOMINEE COMMITTEE

**R. Tom Baker***University of Ottawa*

Tom is full professor of Chemistry and Canada Research Chair in Catalysis Science for Energy Applications. Tom spent fifteen years at DuPont CR&D in Delaware developing applications of homogeneous catalysis to fluorochemicals, titanium dioxide, and nylon intermediates. He has mentored 147 students and postdocs, published over 135 papers and book chapters, has 22 patents and has presented over 330 invited talks. Distinctions include CIC Green Chemistry and Engineering award (2011) and SCI's Kalev Pugi award (2013). Current research interests include green routes to fluorocarbons using base metal catalysis, ligand-assisted base metal complex catalysis, and catalyzed conversion of renewable resources to value-added chemicals.

**Franco Berruti***Western University*

Berruti is an accomplished and internationally recognized researcher with expertise in chemical reactor technologies, thermal cracking, conversion of heavy oils and biomass residues and organic wastes into value-added fuels and chemicals. He has contributed over 350 publications in several prestigious journals, books and conferences, and he holds four patents. He has received numerous awards and international recognitions including the SCI's Kalev Pugi Award, the Bantrel Award in Design and Industrial Practice and the Ontario Green Chemistry and Engineering Award.

**Cathy Campbell**

*President – Responsible Distribution Canada (RDC) Formerly Canadian Association of Chemical Distributors (CACD)*



Ms. Campbell has been with RDC for 23 years. She started as the Member Service Coordinator and now holds the position of President. RDC's members commit to a chemical management system known as Responsible Distribution®, based on the continual improvement of transportation, health, safety, environment, stewardship and sustainability. Cathy has won awards from The Royal Canadian Mounted Police for the work she has done at RDC with the chemical diversion program.

## NOMINEE COMMITTEE

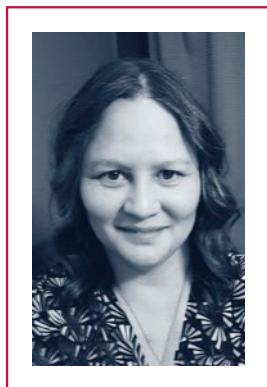


### Dave Emerson

*Senior Business Advisor,  
Emerson Global Solutions*



Experienced President with a demonstrated history of working in the chemicals industry. Skilled in Negotiation, Food & Beverage, Strategic Planning, Business Development, and Polymers. Strong business development professional with a Master's degree focused in Medical Biophysics from University of Toronto.



### Fiona Hess

*Senior Process Chemist, INEOS*



Inorganic chemist with PhD from Vancouver (UBC) and Cape Town (MSc) with expertise in Catalysts Development, Spectroscopy, Synthesis and Process / Industrial Chemistry. Areas of expertise include olefin oligomerization, dinitrogen activation, surfactants, liquid crystals and early transition metals. Currently Senior Process Chemist at INEOS Oligomers, Joffe, Canada and previously Senior Scientist at Sasol Technology, R&D, South Africa. Inventor with patents relating to ethylene trimerisation and discovery of ethylene tetramerisation. Long-standing executive function on the CIC Edmonton Local section and involvement with judging in Science Fairs and School outreach with the Alberta Science Network. Fun fact: a Hons in Geochemistry.

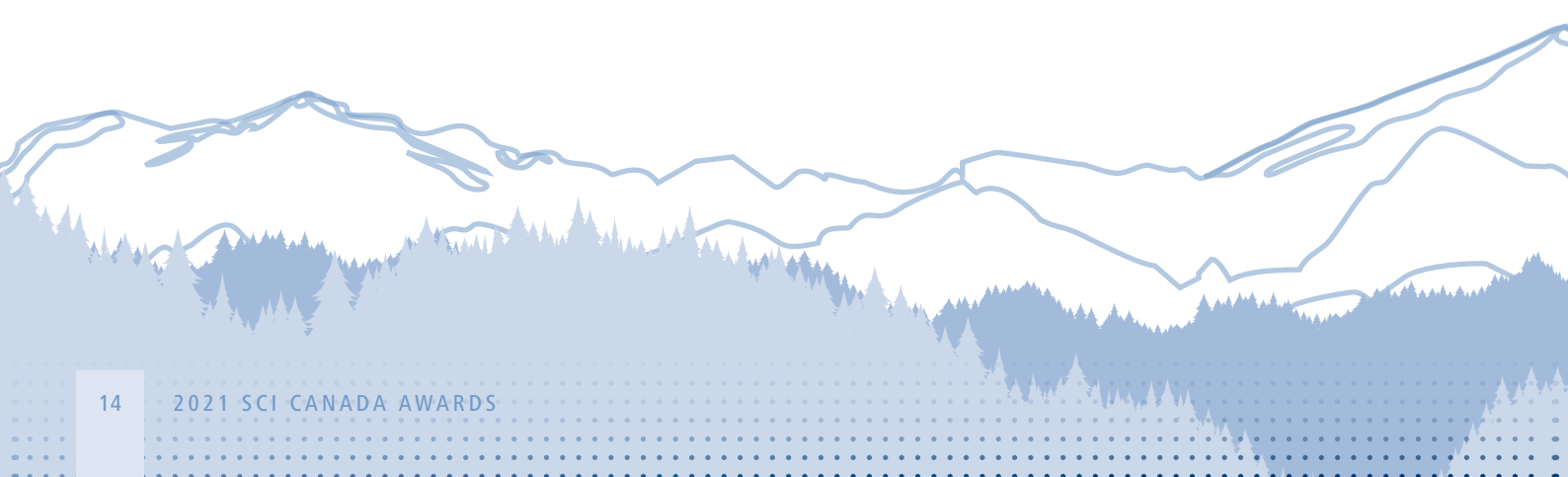


### Hamdy Khalil

*Senior Global Director for Advanced Technologies  
Research and Product Development and  
Innovation, Woodbridge Foam Corporation*



Dr. Khalil is the Senior Global Director for Advanced Technologies Research and Product Development and Innovation for the Woodbridge Foam Corporation at The Woodbridge Group. Dr. Khalil pioneered the introduction and commercialization of renewable materials into the polyurethane chemistry used in the interior automotive parts manufacturing which is now the benchmark for the industry.





### **Mohini Sain**

*Director of the Centre for Biocomposites and Biomaterials Processing University of Toronto*



Mohini is Professor of Mechanical and Industrial Engineering and the Director of the Centre for Biocomposites and Biomaterials Processing. Dr. Sain specializes in advanced bionanotechnology, functional biocomposites and nature-inspired advanced devices at the University of Toronto.

Prof. Sain is known globally for his pioneering work on the Biocar Initiative: in 2009, an issue of Toronto Life magazine featured his idea as second best among 25 World Changing Ideas. Dr. Sain holds several awards including the Plastic Innovation Award and SCI's Kalev Pugi. He is the author of more than 600 peer-reviewed papers and is designated as a highly-cited researcher.



### **Bonnie Schmidt**

*President and Founder, Let's Talk Science*



Dr. Bonnie Schmidt is the founder and president of Let's Talk Science, an award-winning, national Canadian charitable organization that she started in 1991 while completing a PhD in Physiology. Let's Talk Science helps children and youth fulfill their potential and prepare for their future careers and citizenship role by supporting their learning through science, technology, engineering and mathematics (STEM) engagement.

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[www.soci.org](http://www.soci.org)



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