



Chemical Institute of Canada | ***For Our Future***  
Institut de chimie du Canada | ***Pour notre avenir***

# CIC Awards

*Terms of Reference and Lists of Award Recipients*

# CIC Awards

The CIC Awards program recognizes overall contributions by chemists, chemical engineers and chemical technologists for their research and their work in the chemical community. It also recognizes outstanding individuals within individual fields through CIC Division awards.

This CIC Awards Handbook provides the Terms of Reference for each award along with a list of current and past winners. The awards are

- **Beaumier Award for High School/CÉGEP Chemistry Teachers**  
replaced the Bayer Inc. Award
- **Catalysis Award**
- **CIC Award for Chemical Education**  
formerly Union Carbide Award for Chemical Education
- **CIC Medal**
- **Environment Division Research and Development DIMA Award**  
replaced the Environmental Improvement Award
- **Macromolecular Science and Engineering Award**  
formerly Polysar Award  
formerly Dunlop Award
- **Montreal Medal**

## Beaumier Award for High School / Cégep Chemistry Teachers

This award is presented in recognition of excellence in teaching chemistry at the high school or Cégep level and to encourage and promote chemistry at the high school and Cégep level in Canada.

### Terms of Reference

**Deadline:** October 15 of each year

**Sponsor:** Beaumier Churcott Foundation

**Award:** A one-year high school teacher membership to the Chemical Institute of Canada, a plaque and \$1,000 educational grant to use towards chemical supplies, equipment, books or other material to enhance the teacher's classroom.

A maximum of two awards may be offered each year.

#### Nominations:

The following may be considered in choosing the winners:

- A good understanding of the subject
- Exceptional ability to communicate and the knowledge to motivate students in chemistry
- Innovative teaching methods
- Mentorship to students and other teachers in chemistry
- Involvement in outreach activities such as science fairs, the Canadian Chemistry Olympiad, the Canadian Chemistry Contest

The Committee will consider primarily the nominee's performance as a teacher of chemistry. They may, at its discretion, withhold awards if no nominations of sufficient merit are submitted, or if an insufficient number of nominations are made. Persons other than full time teachers of chemistry, if they meet the requirements in other ways, are eligible for these awards.

Submit your completed nomination package by e-mail in pdf format to [awards@cheminst.ca](mailto:awards@cheminst.ca)

#### Nominations must include:

- detailed description of the candidate's contributions to high school chemistry teaching
- C.V. (maximum 3 pages)
- 2–3 letters of support. These can include letters from teachers and students. Nominators do not need to be members of the CIC

Membership in the CIC is not a prerequisite

The nomination shall remain in force for three years.

#### Selection Committee:

- Past Chair of the CIC Board of Directors as non-voting Chair
- Chair of the Chemistry Education Division
- Immediate Past Chair of the Chemistry Education Division
- CSC and CSChE Directors, Education and Student Affairs
- In the event of a conflict of interest, the Division Chair shall designate an alternative member of the Executive to serve on the award jury

The award shall be presented annually unless the Committee considers that no suitable candidate has been nominated

## List of Recipients

Date	Award Winner
2018	Jailson Lima, Vanier College, Montreal, Que.
2017	Michael Jansen, Crescent School, Toronto, Ont.
2016	Michael Ng, Paul Kane High School, St. Albert, Alta.
2015	Yvonne Clifford, Jacob Hespeler High School, Cambridge, Ont.
2014	Jennifer Pitt-Lainsbury, University of Toronto Schools, Toronto, Ont.
2013	Gyro Inman, Earl of March Secondary School, Kanata, Ont.

### Bayer Inc. Award

This award was terminated by the CIC and a new award (above) was established in 2013.

2003	No award given
2002	John Desmond Burke, Stephenville High School, Stephenville, Nfld.
2001	No award given
2000	Leslie Barton, Toronto French School, Toronto, Ont. Paul E. St. Louis, Fellowes High School, Pembroke, Ont.
1999	Geri Salinitri, St. Anne High School, Tecumseh, Ont. Connie Powell, Roncalli High School, Port Saunders, Nfld.
1998	No award given
1997	K. Toope, Booth Memorial High School, St. John's, Nfld.
1996	C.R. Paige, Westdale Secondary High School, Hamilton, Ont.
1995	L. Green, Aden Bowman Collegiate, Saskatoon, Sask. W. Wobick, Western Canada High School, Calgary, Alta.
1994	R. (Jo) Young, St. Patrick's High School, Sarnia, Ont.
1993	M. Falk, Harry Ainlay Composite High School, Edmonton, Alta.
1992	D. Fisher, Richmond School District, Richmond, B.C. N. Nalepa, Halifax West High School, Halifax, N.S.
1991	P.E. Barron, Carleton Board of Education, Ottawa, Ont. S.C. Thomas, William Aberhart Senior High School, Calgary, Alta.
1990	B.A. Deuel, Crofton House School, Vancouver, B.C. M. Barker, Regina high School, Corner Brook, Nfld.
1989	L.O. Mossing, Martin Collegiate, Regina, Sask. M. Pierre-Pierre, École Secondaire Le Virage, Laval, Que. R.N. Booth, Elmira District Secondary School, Elmira, Ont.
1988	L.S. Nikkel, Grenlawn Collegiate, Winnipeg, Man. C.R. Tompkins, Queen Elizabeth Composite High School, Edmonton, Alta.
1987	J. Burns, Prince Andrew High School, Dartmouth, N.S. R. Harris, Labrador City Collegiate, Labrador City, Nfld. Z.M. Khoja, Brookfield High School, Ottawa, Ont. G. Loveridge, Silver Heights Collegiate, Winnipeg, Man.
1986	M. Mackenzie, Nepean High School, Ottawa, Ont. M. Kozman, Lindsay Place High School, Mount Pearl, Nfld.
1985	M. Dzwiniel, McNally Composite High School, Edmonton, Alta. R. Loutfy, Toronto French School, Toronto, Ont. H.M. Rodgeron, Charlottetown Rural High School, Mount Pearl, Nfld.
1984	W.S. Bykowsky, Walter Murray Collegiate Institute, Saskatoon, Sask. D. LeClair, Colonel Gray Senior High School, Charlottetown, P.E.I.
1983	J.S. Allen, Riverdale High School, Pierrefonds, Que. D. Johnston, North and South Esk High School, Red Bank, N.B.
1982	M. Miyata, Lakeport Secondary School, St. Catherines, Ont. L. Lisk, Nickel District Secondary High School, Sudbury, Ont. L. Syska, St. Francis Xavier High School, Edmonton, Alta. R. Penny, Tobique Valley High School, Plaster Rock, N.B.
1981	F.J. Borowski, Grant Park High School, Winnipeg, Man. H. Bugden, Herman Collegiate, Corner Brook, Nfld. P.J. Foreman, Fredericton High School, Fredericton, N.B.

- 1980
- D. B. Evans, Charlottenburgh Lancaster District High School, Williamstown, Ont.
  - A. Slater, Stratford Central Secondary School, Stratford, Ont.
  - G.E. Huff, Sir Wilfrid Laurier Collegiate Institute, Scarborough, Ont.
  - O.C. Lantz, Harry Ainlay Composite High School, Edmonton, Alta.
  - G. Ogilvie, Beaconsfield High School, Beaconsfield, Que.
  - S. Richardson, Riverdale High School, Pierrefonds, Que.
  - A. Spenceley, Colonel Gray Senior High School, Charlottetown, P.E.I.

## Catalysis Award

This award is presented biennially to an individual who, while resident in Canada, has made a distinguished contribution to the field of catalysis.

### Terms of Reference

**Deadline:** October 1 on odd numbered years (i.e. 2017, 2019, 2021...).

**Sponsor:** [Canadian Catalysis Foundation](#)

**Award:** A rhodium-plated silver medal and travel expenses to present the award lecture. The recipient will be required to present an award lecture at the Canadian Symposium on Catalysis or the CSC or CScHE conference.

Membership in the Institute is not a prerequisite for receiving this award.

#### Nominations must include:

- **Citation** (250 word maximum) statement of why the candidate should receive the award. This is the key document in the nomination and this information should be relevant to the achievements for which the award is being offered.
- **Biographical Sketch** (250 word maximum) This provides background information on the nominee and summarizes past accomplishments. This is a summary of information obtained from a C.V.
- **Curriculum Vitae** (maximum 9 pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee's organization.

The nomination shall remain in force for three consecutive odd years. Nominators are responsible for keeping the record of the nominee up to date and complete.

#### Selection Committee:

- Vice-Chair of the Catalysis Division as non-voting chair
- Three most recent winners of the Catalysis Award
- In the event of a conflict of interest, the Division Chair shall designate an alternative member of the Executive to serve on the award jury

The award shall be presented biannually unless the Committee considers that no suitable candidate has been nominated.

### List of Recipients

Date	Award Winner	Award Lecture
2018	Cathleen Crudden	N-Heterocyclic Carbenes as Ligands for Surfaces, Nanoparticles and Clusters
2016	Mark Lautens	
2014	Warren Piers	
2012	Charles Mims	
2010	R. Stanley Brown	
2008	Flora T.T. Ng	
2006	Steve Brown	
2004	Colin Fyfe	
2002	Michael C. Baird	
2000	Garry Rempel	Catalytic Hydrogenation of Nitrile Butadiene Rubber
1998	Serge Kaliaguine	
1996	Martin Ternan	Pore Diffusion of Vacuum Residue Molecules and Hydrogen Dissociation on Reaction Sites: Essential Steps in Hydrocracking Catalysis
1994	I. Dalla Lana	Rational Catalysis: Mechanism, Kinetics and Design

1992	B. Wojciechowski	Chain Mechanisms in Hydrocarbon Cracking
1990	Brian R. James	Ruthenium Complexes - The Elite of Homogeneous Catalysts
1988	J. Moffat	Multifunctional Microporous Heterogeneous Catalysts
1986	H. W. Habgood	Research in Catalysis - A Personal View
1984	Howard Alper	Processes Catalyzed by Metal Complexes
1982	C. H. Amberg	No award presented
1979	R. D. Anderson	Some Catalysts I Have Known
1977	R. J. Cvetanovic Y. Amenomiya	Development of a Technique for Catalyst Studies

## CIC Award for Chemistry Education

This award is presented as a mark of recognition to a person who has made an outstanding contribution in Canada to education at the post-secondary level in the field of chemistry or chemical engineering.

### Terms of Reference

**Deadline:** July 2 of every year.

**Sponsor:** CIC Chemical Education Fund

**Award:** A framed scroll, \$1,500 cash.

The award shall be presented at the annual Canadian Chemistry Conference and Exhibition or Canadian Chemical Engineering Conference. The recipient will be required to present an award lecture.

**Supporting letters:** Supporting letters for this award might include such information as: description of special methods and procedures (models, instruments, computer programs, etc.), reorganization of course content, innovations in teaching methods and professional activities of the candidate. Details of teaching effectiveness are important, i.e. testimonials from students describing the effect of the nominee on their attitudes towards chemistry, and teaching awards that the nominee has received with the component of student evaluation described. Details of chemical education activities such as publications, lectures, curriculum development and administrative positions are also useful.

#### Nominations must include:

- **Citation** (250 word maximum) statement of why the candidate should receive the award. This is the key document in the nomination and this information should be relevant to the achievements for which the award is being offered.
- **Biographical Sketch** (250 word maximum) This provides background information on the nominee and summarizes past accomplishments. This is a summary of information obtained from a C.V.
- **Curriculum Vitae** (maximum 9 pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee's organization.

Membership in the Institute is not a prerequisite for receiving this award.

The nomination shall remain in force for three consecutive years. Nominators are responsible for keeping the record of the nominee up to date and complete.

#### Selection Committee:

- Past Chair of the CIC Board of Directors as non-voting Chair
- Chair of the Chemistry Education Division
- Immediate Past Chair of the Chemistry Education Division
- CSC and CSChE Directors, Education and Student Affairs
- In the event of a conflict of interest, the Division Chair shall designate an alternative member of the Executive to serve on the award jury

The award shall be presented annually unless the Committee considers that no suitable candidate has been nominated.

### List of Recipients

Date	Award Winner	Award Lecture
2018	Margaret-Ann Armour	My Teaching Odyssey
2017	Charles A. Lucy	Welcome to My Classworld: Engaging in Large Chemistry Classes And Beyond
2016	Glen R. Lopnow	The Bonds that Tie: The Things We Don't Teach, but Students Learn, in First-year Chemistry



2015	David Stone	What You Don't Know Shouldn't Hurt your Students: Why Good Educational Research Matters
2014	Uttandaraman Sundararaj	Electrically Conductive Polymer Nanocomposites for Electromagnetic Shielding and Charge Storage Applications
2013	Stanislaw Skonieczny	Teaching Chemistry in Small, Medium and Large Classes
2012	Dietmar Kennepohl	Game Changers: Learning Chemistry in the 21st Century
2011	Mel Usselman	An Old Dog Can Learn New Tricks
2010	Andrew Dicks	How You Can (and Why You Should) "Green" Your Undergraduate Lab Curriculum
2009	Normand Voyer	Promoting Chemistry and Improving Chemistry Curriculum
2008	Geoffrey Rayner-Canham	General Chemistry: Fossilized or Futurized?
2007	Robert Burk	Teaching with Technology in First Year Chemistry: A 10 Year Confluence of Expediency, Opportunities and Demand
2006	Gordon Bates	Don't Be Afraid to Say "Yes" - You Can Make a Difference
2005	Ron Martin	Ignorance, Greed and the University

### Union Carbide Award for Chemical Education

Sponsored by Union Carbide

2004	Lewis Brubacher	
2003	Peter G. Mahaffy	
2002	Mary Anne White	
2001	Judith Poë	
2000	Murray Brooker	
1999	R. Kydd	
1998	R. C. Thompson	Integrating the Sciences in the First Year University Curriculum.
1997	R. E. McClung	Can an Academic Advisor Really Help?
1996	P. E. Wood	Panel Discussion: McCabe-Thiele and Friends in the Future.
1995	Marie Macbeath	
1994	Josef Takats	
1993	Elizabeth A. Dixon	
1992	Nigel Bunce	
1991	David A. Humphreys	
1990	Donald E. Irish	
1989	Z. Valenta	
1988	L. Yaffe	
1987	Michael C. L. Gerry	
1986	G. Lange	
1985	J. A. Pincock	
1984	F. W. Birss	
1983	R. Y. Moir	
1982	David N. Harpp	
1981	Hugh J. Anderson	
1980	H. B. Dunford	
1979	R. H. Tomlinson	
1978	R. J. Thibert	
1977	Brian T. Newbold	
1976	Ronald J. Gillespie	
1975	Walter E. Harris	
1974	Keith J. Laidler	
1973	J. M. Holmes	
1972	R. L. McIntosh	
1971	A. N. Campbell	
1970	C. A. Winkler	
1969	C. Ouellet	L'humanité sera-t-elle toujours à l'école
1968	A. B. Van Cleave	Science Education Policy? That's Not Our Business. We're Scientists
1967	W. A. E. McBryde	The Case for Iroquois College
1966	L. H. Cragg	The Central Purpose of Chemical Education
1965	J. B. Phillips	Trends in Chemical Engineering Education in Canada
1964	C. Sivertz	Problems of Science Education in the New Age
1963	G. B. Frost	Chemical Education - The Future Perspective
1962	R. B. Sandin	Put the Spotlight on the Student - Not on Yourself
1961	R. P. Graham	Too Much and Not Enough

## CIC Medal

This award is presented as a mark of distinction and recognition to a person who has made an outstanding contribution to the science of chemistry or chemical engineering in Canada.

### Terms of Reference

**Deadline:** July 2 of every year

**Sponsor:** Chemical Institute of Canada

**Award:** A medal and travel expenses to the CSC or CSChE conference to present the plenary lecture.

The award shall be presented at the annual Canadian Chemistry Conference and Exhibition or Canadian Chemical Engineering Conference. The recipient will be required to present a plenary lecture.

#### Nominations must include:

- **Citation** (250 word maximum) statement of why the candidate should receive the award. This is the key document in the nomination and this information should be relevant to the achievements for which the award is being offered.
- **Biographical Sketch** (250 word maximum) This provides background information on the nominee and summarizes past accomplishments. This is a summary of information obtained from a C.V.
- **Curriculum Vitae** (maximum 9 pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee's organization.

Membership in the Institute is not a prerequisite for receiving this award.

All nominations will remain in force for three years. Nominators are responsible for keeping the record of the nominee up to date and complete.

#### Selection Committee:

- CIC Chair or Past Chair, on rotating basis as non-voting chair
- 2 Appointees of the CIC, other than the CIC Chair or Past Chair (may be Society Presidents)
- Two past CIC medalists
- In the event of a conflict of interest, substitutions may be required.

The award shall be presented annually unless the Committee considers that no suitable candidate has been nominated.

### List of Recipients

Date	Award Winner	Award Lecture
2018	André Charette	A Journey Into Organic Synthesis: Evolution of Methods and Techniques to Tackle 21 <sup>st</sup> Century Problems
2017	Eugenia Kuimacheva	Nanoparticle Self-assembly Bridging the Gap between Molecules and Nanoparticles
2016	Stephen G. Withers	Design and Discovery of Enzyme Inhibitors Towards Therapies for Diabetes and Influenza
2015	Axel Becke	Full Circle, A Career in Density-Functional Theory
2014	Douglas W. Stephan	From Frustrated Lewis Pairs to Electrophilic Phosphorinium Cations: Metal-free Approaches to Hydrogenation Catalysis
2013	Mark Lautens	Multicomponent-Multicatalytic Reactions (MC) <sup>2R</sup>
2012	Raymond Andersen	Sponging Off Nature for New Drug Leads
2011	Adi Eisenberg	Block Copolymer Vesicles Following Nature's Trail with Bigger Molecules
2010	Tom Ziegler	Approaching Chemistry from First Principle with Density Functional Theory
2009	R. J. D. Miller	Making the Molecular Movie: Quest for the Structure-Function Correlation of Biology
2008	John Vederas	The Chemistry and Biology of Getting Drugs from Bugs
2007	Diethard K. Bohme	Gas-Phase Ions and Chemical Mass Spectrometry
2006	Ronald Kluger	Molecular Keystones: Lessons from Bioorganic Reaction Mechanisms

2005	Peter Guthrie	Computational Chemistry as a Tool for Mechanistic Investigations: Predicting Rate and Equilibrium Constants
2004	Mitchell A. Winnik	Nanowires and Nanotubes through Block-Copolymer Self-Assembly
2003	Raymond E. Kapral	
2002	Chris E. Brion	Experimental Observation of Orbital-Like Behaviour of Valence Electrons: Which Orbital Models are Appropriate For Describing Electron Transfer?
2001	Geoffrey A. Ozin	Race for the Photonic Chip
2000	Brian R. James	
1999	J.C. Scaiano	Laser Applications in the Study of Organic Reaction Mechanisms
1998	R. J. Puddephatt	Bond Activation by Organoplatinum Compounds.
1997	Howard Alper	Catalysis Today: New Opportunities for Tomorrow.
1996	G. M. Bancroft	Synchrotron Radiation: the Light Source of the Future.
1995	J. B. Jones	Studies on Enzymes. A Personal Perspective.
1994	W.A.G. Graham	The Rich Potential of Trispyraxylyborate Ligands.
1993	Paul Brumer	Control of Chemical Reactions Using Lasers.
1992	D. A. Ramsay	The Spectra of Free Radicals.
1991	K. Yates	The Nature of Photohydration Reactivity.
1990	Ashok Vijh	Excursions in Electrochemical Physics.
1989	J. L. Holmes	Novel Ions, Molecules and Radicals; Mass Spectrometry's Gifts to Chemistry.
1988	Stephen Hanessian	Man, Machine and Heuristics in Synthesis Planning.
1987	J. C. D. Brand	Multiphoton Spectroscopy.
1986	Paul Kebarle	Energy Changes of Ionic Reactions in the Gas Phase and Solution - Bridging of the Two Fields.
1985	A. G. Brook	One Thing Leads to Another - From Silylcarbinols to Silaethylenes.
1984	P. Yates	Aspects of the Photochemistry of Cyclic Ketones.
1983	C. Sandorfy	Chemical Spectroscopy in the Far Ultraviolet.
1982	P. de Mayo	Superficial Photochemistry.
1981	Keith U. Ingold	Oxidation and Its. Prevention in Petrochemicals, Food and Living Systems.
1980	W. H. Rapson	Chemistry and Human Welfare.
1979	Bernard Belleau	The Curse of Opium: Requital through Medicinal Organic Chemistry.
1978	R. J. Cvetanovic	Some Current Trends in Chemical Kinetics.
1977	Ronald J. Gillespie	Structural Chemistry of the Main Group Elements.
1976	John. C. Polanyi	Molecular Motions in Chemical Reactions.
1975	B. E. Conway	Electrochemical Studies in Surface Science.
1974	H. J. Bernstein	Resonance Raman Spectroscopy.
1973	S. G. Mason	The Micro-Rheology of Disperse Systems.
1972	Gerhard Herzberg	Spectra of Simple Free Radicals.
1971	Keith J. Laidler	Adventures in Chemical Kinetics.
1970	D. J. LeRoy	The Kinetics of the Simplest Chemical Reactions.
1969	C. A. McDowell	Photoelectron Spectroscopy.
1968	J. A. Morrison	The Unexpected Behavior of Solid Methane at Very Low Temperatures.
1967	Harold E. Gunning	Sulphur Atom Chemistry.
1966	W. H. Gauvin	High Temperature Research.
1965	P. A. Giguère	Thirty Years of Peroxide Chemistry.
1964	Raymond U. Lemieux	The Chemical Synthesis of Glycosides.
1963	K. Wiesner	Ten Years of Studies on Basic Terpenes at the University of New Brunswick.
1962	E. Baer	Natural Phospholipids - Synthesis and Structure.
1961	W. G. Schneider	Problem Electrons.
1960	C. B. Purves	Locating Substituents in Cellulose - A Review.
1959	R. H. Manske	Fifty Years with Alkaloids.
1958	C. A. Winkler	Active Nitrogen.
1957	H. G. Thode	The Geochemistry of the Sulphur Isotopes.
1956	L. Marion	The Biogenesis of Alkaloids.
1955	A. R. Gordon	Current Problems in the Field of the Electrolytes.
1954	R. K. Stratford	Thirty Years in Petroleum Research.
1953	E. W. R. Steacie	Present Status of Radical Mechanisms for Organic Decompositions.
1952	O. Maass	Some Underlying Factors Involving the Process of Wood Pulp Production.
1951	T. Thorvaldson	The Training of Chemists for Industry.

## Environment Division Research and Development Dima Award

This award replaces the previous Environmental Improvement Award. The award was established by the CIC Environment Division in 2009.

It is awarded for distinguished contributions to research and/or development in the fields of environmental chemistry or environmental chemical engineering, while working in Canada. One award will be available each year.

### Terms of Reference

**Deadline for Application:** July 2 each year.

**Sponsor:** Dima Technology Inc.

**Award:** a framed scroll, \$1,000 cash and up to \$1,000 for travel expenses to the CSC Conference, if required.

The award shall be presented at the annual Canadian Chemistry Conference and Exhibition or Canadian Chemical Engineering Conference. The recipient will be required to present an award lecture.

#### Nominations must include:

- **Citation** (250 word maximum) statement of why the candidate should receive the award. This is the key document in the nomination and this information should be relevant to the achievements for which the award is being offered.
- **Biographical Sketch** (250 word maximum) This provides background information on the nominee and summarizes past accomplishments. This is a summary of information obtained from a C.V.
- **Curriculum Vitae** (maximum 9 pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee's organization.

Membership in the Institute is not a prerequisite for receiving this award.

All nominations will remain in force for three years. Nominators are responsible for keeping the record of the nominee up to date and complete.

#### Selection Committee:

- Director of Awards of the CSC or CSChE as non-voting Chair
- Past two winners of the Environment Division Award
- One member of the current Environment Division executive designated by the Division Chair
- In the event of a conflict of interest, the Division Chair shall designate an alternative member of the Executive to serve on the award jury

The award shall be presented annually unless the Committee considers that no suitable candidate has been nominated.

### List of Recipients

Date	Award Winner	Award Lecture
2018	Kevin Wilkinson	Metallic Nanoparticles — Detection, fate and Bioavailability
2017	Xing-Fang Li	Drinking Water Safety Pathogens and Disinfection By-products
2016	Allan Bertram	Phase Transitions and Viscosities of Atmospheric Particles
2015	Frank Wania	Predicting Exposure of Northerners to PCBs – From Global Emissions to Concentrations in Individual Humans
2014	William R. Cullen	Fresh Water Mussels as Bioindicators: Speciation Changes in Anodonta Kennerlyi Exposed to Mine Impacted Sediments within the Quins Watershed, Vancouver

		Island
2013	Janusz Pawliszyn	Application of SPME and Related Technologies in Environmental Investigations
2012	Jon Abbatt	Oxidation of Tropospheric Aerosol Particles: Mechanisms and Potential Impacts

Sponsored by Pierre Beaumier, MCIC

2011	X. Chris Le	Analytical and Environmental Chemistry of Arsenic
2010	Scott Mabury	The Environmental Fate, Disposition, and Persistence of Polyfluorinated Chemicals in the Environment

#### **Environmental Improvement Award**

Sponsored by the CIC Environment Division

This award was terminated by the Division and a new Division award (above) was established in 2010.

2001	M.M. Avedesian Michel Bédard Alain Bergeron
2000	Ken J. Reimer
1999	Lambton Industrial Society – John McAndless
1998	Calgon Carbon Oxidation Technologies
1997	No award
1996	Lennox Industries (Canada) Ltd.
1995	No award
1994	No award

Sponsored by IEC Beak Consultants Ltd.

1985	Award cancelled
1984	Lubricants Division of Mohawk Oil Ltd.
1983	No award
1982	No award
1981	ERCO Industries Limited
1980	CIP Research Limited
1979	Shell Canada Resources Limited
1978	St. Lawrence Cement Company
1977	Dow Chemical & Diversy (Canada) Ltd.
1976	DuPont of Canada Limited
1975	B & W Heat Treating (1967) Limited and University of Waterloo

## Macromolecular Science and Engineering Award

This award is presented to an individual who, while residing in Canada, has made a distinguished contribution to macromolecular science or engineering.

### Terms of Reference

**Deadline:** July 2 of every year

**Sponsor:** [NOVA Chemicals Corporation](#)

**Award:** A framed scroll, \$2,000 cash prize

The award shall be presented at the annual Canadian Chemistry Conference and Exhibition or Canadian Chemical Engineering Conference. The recipient will be required to present an award lecture.

#### Nominations must include:

- **Citation** (250 word maximum) statement of why the candidate should receive the award. This is the key document in the nomination and this information should be relevant to the achievements for which the award is being offered.
- **Biographical Sketch** (250 word maximum) This provides background information on the nominee and summarizes past accomplishments. This is a summary of information obtained from a C.V.
- **Curriculum Vitae** (maximum 9 pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee's organization.

Membership in the Institute is not a prerequisite for receiving this award.

All nominations will remain in force for three years. Nominators are responsible for keeping the record of the nominee up to date and complete.

#### Selection Committee:

- Past Chair of the CIC Board of Directors as non-voting Chair
- Past Chair of the Macromolecular Science and Engineering Division
- Two past Macromolecular Science and Engineering Division award winners
- In the event of a conflict of interest, the Division Chair shall designate an alternative member of the Executive to serve on the award jury

The award shall be presented annually unless the Committee considers that no suitable candidate has been nominated.

### List of Recipients

Date	Award Winner	Award Lecture
2018	Alex Adronov	Conjugated Polymers, Controlled Architectures, and Nanotube Assembly
2017	Michael A. Brook	A Strategy for Controlled Silicone Polymer Synthesis: Just Add Water (And a Few Other Things)
2016	Harald D.H. Stöver	Synthetic Polymers and Hydrogels for Biomedical Applications
2015	Julian Zhu	Making Polymers from Natural Compounds
2014	Derek G. Gray	Chiral Nematic Cellulose-based Materials
2013	Yue Zhao	Control of Stimuli-responsive Polymers by New Methods and Materials Design
2012	Françoise Winnik	Phosphoral-choline Containing Polymers: Multifaceted Biomaterials and Unique Tools in Biology
2011	Shiping Zhu	Macromolecular Reaction Engineering of Controlled Radical Polymerization—What Can Chemical Engineers Contribute to Polymer Science?
2010	Steven Holdcroft	Electro-Active Graft Copolymers: Nanostructures, Charge Transport and Power
2009	Robert Pelton	The Deviant Behaviour of Labile Polyelectrolytes
2008	Mario Leclerc	Solar Cells Based on Poly(2,7- carbozole) Derivatives (presented lecture in 2009)

2007	Guojun Liu	Nanoworld of Block Copolymers - Block Copolymer Assembly, Chemical Processing and Nanomaterial Application
2006	Z. Y. Wang	Organic Infrared Materials and Potential Applications
2005	Eugenia Kumacheva	
2004	Pudupadi Sundararajan	Simulations of Polymer Chain Folding
2003	St. John Manley	
2002	Ian Manners	
2001	Michael K. Georges	Stable Free Radical Living Polymerization
2000	Almeria L. Natansohn	
1999	R.H. Marchessault	
1998	A. S. Hay	Macrocyclic Oligomers as Precursors to Polymers with Very High Glass Transition Temperatures.
1997	Garry L. Rempel	The Emergence of Hydrogenated Nitrile Rubber as a High Performance Elastomer.
1996	D. J. Carlsson	Polymers: Life and Death Factors.
1995	Pierre Carreau	Rheological Properties of Polymeric Multiphase Systems.
1994	Robert Prud'homme	Stéréocomplexation de Polymères: Quand? Pourquoi? et Comment?
1993	M. Winnik	Polymer Welding: How Diffusion Leads to Mechanical Strength.
1992	K. O'Driscoll	The Long and the Short of Free Radical Polymerization Kinetics.
1991	B. L. Funt	New Interfaces Between Polymer Chemistry and Electrochemistry.
1990	D. J. Worsfold	The Polysilanes.

#### **Polysar Award**

1989	A. Rudin	Polymer Characterization: The Best is Yet to Come.
------	----------	--

#### **Dunlop Award**

1988	A. Eisenberg	Ionomer Blends.
1987	A. E. Hamielec	Fundamental Challenges and Commercial Opportunities in Free Radical Polymerization.
1985	D. D. Patterson	Thermodynamics and Order in Polymer and Model Systems.
1983	H. P. Schreiber	Applied Polymer Sciences: Variations on a Ruminative Theme.
1981	Donald M. Wiles	Polymer Photodegradation and Ultraviolet Stabilization.
1979	J. E. Guillet	Some Light on Plastic Molecules.
1977	H. L. Williams	Dynamic Properties of Polymers.
1975	S. G. Mason	Some New Aspects of Wetting Solids by Liquids.
1973	S. Bywater	Recent Advances in Ionic Polymerization.
1971	G. S. Whitby	Reflections on the Early Days of Canadian Polymer Chemistry.

## Montréal Medal

This medal is presented as a mark of distinction and honour to a resident of Canada who has shown significant leadership in or has made an outstanding contribution to the profession of chemistry or chemical engineering in Canada

### Terms of Reference

**Deadline:** July 2 of every year

**Sponsor:** [Montréal CIC Local Section](#) and the CIC.

**Award:** A medal and travel expenses to the CSC or CSChE conference to present the plenary lecture.

The award shall be presented at the annual Canadian Chemistry Conference and Exhibition or Canadian Chemical Engineering Conference. The recipient will be required to present a plenary lecture.

**Eligibility:** A resident of Canada who has shown significant leadership in or has made an outstanding contribution to the profession of chemistry or chemical engineering in Canada. According to the following considerations:

Administrative contributions within the Chemical Institute of Canada and other professional organizations.

Contributions by chemical educators, and by staff members of chemical industries.

Single individual exploits which contribute to the advancement of the professions of chemistry and chemical engineering.

Note: Contributions to the sciences of chemistry and chemical engineering are not to be considered. Membership in the Institute is not a prerequisite for receiving this award.

#### Nominations must include:

- **Citation** (250 word maximum) statement of why the candidate should receive the award. This is the key document in the nomination and this information should be relevant to the achievements for which the award is being offered.
- **Biographical Sketch** (205 word maximum) This provides background information on the nominee and summarizes past accomplishments. This is a summary of information obtained from a C.V.
- **Curriculum Vitae** (maximum 9 pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee's organization.

All nominations will remain in force for three years. Nominators are responsible for keeping the record of the nominee up to date and complete.

#### Selection Committee:

- Past Chair of the CIC Board of Directors as non-voting Chair
- Chair of the CIC
- Most recent Montreal medalist
- Up to two persons appointed by the Past Chair of the CIC
- In the event of a conflict of interest, substitutions may be required.

The award shall be presented annually unless the Committee considers that no suitable candidate has been nominated.



## List of Recipients

Date	Award Winner	Award Lecture
2018	Robert B. Magee	Funny Thing About Experience, It Takes Time. What the Next Generation of Chemical Engineers Need to Know
2017	Neil Burford	Shifts. Δs. Hybridization and Characterization of the Chemistry Discipline
2016	Kim Baines	Leadership Matters: What They Didn't Tell You about a Career in Chemistry
2015	No award	
2014	Mario Pinto	Ramblings of a Chimeric Researcher/Administrator
2013	Robert E. Prud'homme	Are Polymers Nothing but the Residue in the Bottom of Organic Chemists' Flasks?
2012	John Grace	Reflections on the Role and Future of Chemical Engineering
2011	Jan Kwak	From Colloids to Nanoscience Chemistry at the Meso Scale
2010	Joseph Schwarcz	Chemistry in the Crosshairs
2009	Russell J. Boyd	Computers, Concepts and Chemistry
2008	R. Stanley Brown	Getting Involved in Chemistry: A Personal Perspective for the Profession and Society
2007	Joseph Hubert	Analytical Chemistry and Society
2006	Richard Puddephatt	The Human Factor in Chemistry
2005	Margaret-Ann Armour	CIC, Outreach and WISEST: My Thirty Years of Fostering Diversity in the Community of Chemists
2004	Tristram Chivers	Some Reflections on Chemistry in Canada
2003	Howard Alper	
2002	G. Michael Bancroft	
2001	Bryan R. Henry	Canadian Chemistry Profile and Local Vibrational Modes
2000	Alex McAuley	
1999	Edward Piers	A Research Career in Synthetic Organic Chemistry: A Retrospective View
1998	J. E. Guillet	Science is the Mother of Invention
1997	William Ayer	The Changing Face of Natural Products Chemistry
1996	Arthur J. Carty	
1995	Les Shemelt	
1994	Frank W. Bachelor	
1993	H. Thode	
1992	G. Kenney-Wallace	
1991	R. Marchessault	
1990	W. A. E. McBryde	
1989	Colin J. L. Lock	
1988	J. C. Richer	
1987	Dennis G. Tuck	
1986	Guy G. S. Dutton	
1985	J. A. Morrison	
1984	Henry I. Bolker	
1983	W. H. Gauvin	
1982	C. A. McDowell	
1981	W. O. Twaits	
1980	L. Piché	
1979	L. Yaffe	
1978	J. W. Hodgins	
1977	J. W. T. Spinks	
1976	A. N. Bourns	
1975	B. B. Migicovsky	
1974	R. Gaudry	
1973	W. G. Schneider	
1972	H. S. Sutherland	
1971	I. E. Puddington	
1970	L. J. Rubin	
1969	L. Marion	Chemistry in the Science Turmoil
1968	E. Lozinski	The View from Without
1967	J. A. Davis	Who's in Charge Here?
1966	W. N. Hall	What Can The Chemical Institute of Canada Do For Canada?
1965	L. H. Cragg	Educating Tomorrow's Professional Chemists and Chemical Engineers
1964	E. A. G. Colls	The Chemical Engineer Today

1963	C. J. Mackenzie	The New Scientific Technology - Canada's Obligations and Opportunities
1962	J. R. Donald	Chemical Engineering Reminiscences
1961	H. B. Marshall	Why Join the CIC
1960	J. W. Bain	Recollections of Early Days in the CIC
1959	T. Thorvaldson	The Role of Basic Scientific Research
1958	T. W. Smith	Legislative Handicaps to the Development of Canadian Secondary Industry
1957	L. Lortie	Professional Responsibilities of Canadian Chemists
1956	R. R. McLaughlin	Industry Must Help to Prepare to Train Them