John C. Polanyi Award

This award is presented for excellence by a scientist carrying out research in Canada in physical, theoretical or computational chemistry or chemical physics.

Terms of Reference

**Deadline:** July 2 of every year

**Sponsor:** CSC Physical, Theoretical and Computation Chemistry Division and the University of Toronto, Department of Chemistry

**Award:** A framed scroll

The recipient will be required to present an award lecture at the Canadian Chemistry Conference and Exhibition.

**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** (maximum one page) 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 nine pages).
- **Supporting Letters** (3 to 5) At least two letters must be from outside the nominee’s organization.

Membership in the CIC is not a prerequisite for this award.

If the nominee has previously received awards by the CSC and/or CIC, the nominator has to differentiate the current achievements from those that have been previously recognized.

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

No award will be given out, if less than 3 nominations for the award are received or if the Committee considers that no suitable candidate has been nominated up to date and complete.

**Selection Committee:**

- CSC Director of Awards as non-voting Chair
- Vice Chair of the Physical, Theoretical and Computational Chemistry Division
- Past two winners of the John C. Polanyi Award

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**List of Recipients**

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<th>Date</th>
<th>Award Winner</th>
<th>Award Lecture</th>
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<tr>
<td>2018</td>
<td>Albert Stolow</td>
<td>Dynamics at Conical Intersections: Towards Polanyi Rules for Polyatomcics</td>
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<td>2017</td>
<td>Josef W. Zwanziger</td>
<td>The Relationship of Glass Structure to its Optical Performance</td>
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<td>2016</td>
<td>Federico Rosei</td>
<td>Multifunctional Materials for Electronics and Photonics</td>
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<td>2015</td>
<td>Terrance McMahon</td>
<td>Energetics, Structure and Vibrational Spectra of Gaseous Cluster Ions</td>
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<td>2014</td>
<td>Tucker Carrington, Jr.</td>
<td>Using Efficient Calculations of High-lying Levels of Methane to Refine a Potential Energy Surface</td>
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2013  Ronald P. Steer  Kasha’s Rule Isn’t: Adventures in the Land of Molecular Electronic Excited States
2012  Dennis Salahub  Towards the Multiscale Modelling of Chemical Reactions in Complex Environments from the Hohenberg-Kohn Theorems to Health, Wealth and Happiness
2011  Moshe Shapiro  Coherent Control and Chiral Separation and the Imaging of Molecular Potentials
2009  Axel Becke  Static Correlation in Density Functional Theory: The Good and the Bad
2008  Jacek Lipkoswski  Building a Biomimetic Membrane at an Electrode Surface
2007  No award
2006  No award
2005  No award
2004  Roderick E. Wasylishen  Characterization of NMR Parameters via Experiment and Theory
2003  David Bishop
2002  Donald G. Fleming
2001  André D. Bandrauk
2000  R.J. Dwayne Miller
1999  A. Merer
1998  Diethard K. Bohme  Fullerene Ions in the Gas Phase: Chemistry as a Function of Charge State.
1997  R. F. W. Bader  Why are There Atoms in Chemistry?
1995  Peter R. Norton  Surface Science: Past, Present and Future; A Personal Perspective.
1994  S. Huzinaga  Concept of Active Electrons in Chemistry.
1993  C. E. Brion  Electron, Molecules and Chemistry.
1992  John C. Polanyi  The Dynamics of Photodissociation and Photoreaction in the Adsorbed State.