

## Rio Tinto Award

### Terms of Reference

**Deadline:** July 2 of every year

**Sponsor:** [Rio Tinto](#)

**Award:** A framed scroll, \$2,500 cash and up to \$1,000 for travel to present the lecture at the CSC Conference, if required. Rio Tinto will send one of their researchers (or other employee in a technical role) to the winner's institution (all expenses paid) to present a talk that will be appropriate for undergraduate, graduate and academic staff and faculty from across the institution. The winner and his/her Department will be responsible for coordinating and promoting this event to ensure maximum attendance from the Departments of Chemistry and Chemical Engineering,

#### 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

Selection Committee:

- CSC Director of Awards as non-voting Chair
- Past Chair of the Inorganic Chemistry Division
- Past two winners of the Rio Tinto Award

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

### List of Recipients

Date	Award Winner	Award Lecture
<b>Rio Tinto Award</b>		
2019	George Shimizu	Bridging the Fundamental to Applied to Commercial Metal-Organic Framework Research
<b>Rio Tinto Alcan Award</b>		
2018	Jillian Buriak	Totally Radical Chemistry of Chalcogenides on Silicon Surfaces
2017	Heinz-Bernhard Kraatz	Ferrocene Peptides. Self-assembly and Materials
2016	Michael Wolf	Making Conjugated Materials Shine
2015	Steven Holdcroft	ORR Electrochemistry at the Pt/Ionomer Interface
2014	Martin Stillman	Nature's Shrink-wrapped Metal Thiolate Clusters: Mechanistic Complexity Vies with Structural Simplicity in the Metallothioneins
2013	Pierre Harvey	What can you Learn from Artificial Special Pairs?
2012	Stephen Loeb	Metal-Organic Framework (MOF) Materials with Dynamic Interlocked Components

2011	Linda Nazar	Inorganic Nanostructured Materials for Large Scale Energy Storage
2010	Jeff Dahn	How Can One Tell if a Rechargeable Battery Will Last 10 Years—In a Few Weeks?
2009	Chris Orvig	Medicinal Inorganic Chemistry

#### Alcan Award

Sponsored by Alcan International

2008	Jack Passmore	Homopolyatomic Cations of Groups 16 and 17: Structure, Energetics and Chemistry: New Classes of Compounds, Unexpected Structures, Novel Bonding and Physical Properties
2007	Suning Wang	Three-Coordinate Organoboron: Impact of Molecular Geometry on Donor-Acceptor Charge Transfer Emission and Applications
2006	Neil Burford	Homoatomic P-P Coordination Complexes: A New Direction in the Chemistry of Phosphorus
2005	Warren Piers	Bifunctional Boranes: Two Borons Are Better Than One
2004	Laurie K. Thompson	
2003	Martin Cowie	
2002	Gary J. Schrobilgen	
2001	Douglas W. Stephan	
2000	Michael McGlinchey	
1999	Ian Manners	
1998	Jacek Lipkowski	Surface Electrochemistry - Surface Science with a Joystick
1997	John Harrod	Going for the Goal: Some Successes and Failures in the Field of Hydrosilane Chemistry
1996	Sandro Gambarotta	Highly Reactive Low-Valent Early Transition Metals: From Dinitrogen Fixation, to C-H Bond Activation and Metal-Metal Bond Formation
1995	Robert H. Morris	Intermediates in the Homolytic and Heterolytic Splitting of Dihydrogen by Transition Metal Complexes
1994	Tom Ziegler	Approximate Density Functional Theory: A Practical Tool in Molecular Energetics and Dynamics
1993	Richard T. Oakley	Chemical Binding within and between Inorganic Rings; the Design and Syntheses of Molecular Conductors
1992	M. Fryzuk	Excursions around the Periodic Table: Ligand Design in Inorganic Chemistry
1991	F. Bottomley	[Ru(NH <sub>3</sub> ) <sub>5</sub> (N <sub>2</sub> O)] <sup>2+</sup> + to (-C <sub>5</sub> H <sub>5</sub> ) <sub>14</sub> V <sub>16</sub> O <sub>24</sub> and Beyond
1990	G. Michael Bancroft	Shedding Light on the Electronic and Molecular Structure of Inorganic and Organometallic Molecules using Far UV and Soft X-Rays
1989	Peter Legzdins	Aspects of the Organometallic Nitrosyl Chemistry of the Group 6 Elements
1988	Dennis G. Tuck	Recent Studies of the Chemistry of Indium (I) and (III) Compounds
1987	Tristram Chivers	Electron-rich Inorganic Systems
1986	Michael C. Baird	A Chemist Looks to Theory, Fact and Fancy
1985	Richard J. Puddephatt	Organometallic Chemistry with Binuclear and Trinuclear Complexes
1984	Arthur J. Carty	Chemical Transformations on Phosphido (PR <sub>2</sub> , PR, P) Bridged Clusters
1983	W. R. Fawcett	The Electrodepositions of Semi-Conducting Films and their Use in Solar Energy Conversion
1982	Gregory Ozin	Some Light on Taking Metal Atom Chemistry out of the Cold
1981	A. B. P. Lever	An Experimental View of the Electronic Structure of Metallophthalocyanines – Towards Solar Energy Conversion
1980	Howard Alper	Organometallic Phase Transfers Catalysis
1979	R. G. Cavell	Excursions in Phosphorus Chemistry