



Chemical Institute of Canada | *For Our Future*

Canadian Green Chemistry and Engineering Awards

Terms of Reference and list of Award Recipients

CGCEN Awards

The Canadian Green Chemistry and Engineering Network (CGCEN) awards recognize individuals and organizations for advancements in green chemistry and/or engineering.

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

- Canadian Green Chemistry and Engineering Award (Individual)
- Canadian Green Chemistry and Engineering Award (CSA Group Award for Organizations)
Formerly the Ontario Green Chemistry and Engineering Awards (Organization)
- Ontario Green Chemistry and Engineering Award (Individual) is no longer being offered however a list of past winners is provided at the end of this handbook.

Canadian Green Chemistry and Engineering Award (Individual)

Terms of Reference

The Canadian Green Chemistry and Engineering Award (Individual) is presented to an individual working in Canada who has made significant contributions to advance green chemistry and/or engineering, including the technical, human health and environmental benefits.

Deadline: July 2 of every year

Sponsor: [GreenCentre Canada](#)

Award: a framed scroll and \$1,000 cash prize

The award shall be presented at one of the Chemical Institute of Canada's (CIC) annual conferences, an independent conference or symposium organized by the CIC or an event chosen by the CGCEN. The recipient will be asked to present an award lecture.

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

Membership in the Chemical Institute of Canada is not a prerequisite.

The nomination includes:

Citation Provide a brief statement (approximately 250 words) of why the candidate/group/team should receive the award.

Biographical Sketch (for individuals only — maximum one page) Provide background information on the nominee and summarize past accomplishments. This is a summary of information obtained from a C.V.

Support Documents This is the key document in the nomination and this information should outline areas where the individual meets the criteria listed in the Terms of Reference for this award, including awards, patents and other related information.

For individuals, an abbreviated C.V., no longer than nine pages is accepted. including background information on previous awards, fellowships and plenary lectures at national and international meetings; projects being carried out, CIC activities and other information particularly related to green chemistry or engineering.

Supporting Letters (3 to 5) It is CIC policy that a minimum of three and a maximum of five letters of support are required. At least two must be from outside the nominee's organization.

Selection Committee:

Chair of the CGCEN

Two past winners of this award

One additional member appointed by the Board of Directors of the CGCEN.

Selection Committee members may also be members of the CGCEN Board of Directors.

It is recommended that members of the committee are from all sectors: industry, government and academia.

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

List of Recipients

Date	Award Winner	Award Lecture
2016	Roger Gaudreault	Three Decades of Innovative and Engineered Green Chemistry
2015	Andrew Dicks	Undergraduate Research-Inspired Green Organic Laboratory Development
2014	Douglas W. Stephan	Frustrated Lewis Pairs: A New Approach to Metal-Free Catalysis
2013	Flora Ng	Green Processes for the Production of Sustainable Fuels and Chemicals
2012	Philip Jessop	CO ₂ -Triggered Switchable Solvents and Surfactants
2011	R. Tom Baker	Towards a Renewable Transportation Fuel: Catalyzed Ammonia-Borane Dehydration for Chemical Hydrogen Storage
2010	Chao-Jun Li	Exploration of Synthetic Chemistry for a Sustainable Future

Canadian Green Chemistry and Engineering Award (CSA Group Award for Organizations)

The Canadian Green Chemistry and Engineering Award (CSA Group Award for Organizations) is presented to an organization (not-for-profit or profit) which is based in, or which has significant investment in Canada and which has made significant contributions to the field of green chemistry and engineering, including the technical, economic, human health and environmental benefits. The organization may be from industry, government, or academia or a not-for-profit in Canada.

Terms of Reference

Deadline: July 2 of every year

Sponsor: [CSA Group](#)

Award: An etched glass trophy

Criteria: Preference will be given to those that meet one or more of the following criteria:

- Has the initiative resulted in the reduction in toxics use within an industrial facility or sector?
- Does the initiative have the potential to reduce toxics use within a facility or sector?
- Has the initiative resulted in reduced emissions or have the potential to reduce emissions of a toxic substance (specific to the Toxics Reduction Strategy)?
- Does the initiative have the potential to save money / provide a competitive advantage to a facility or sector if implemented?
- Does this initiative have the potential to brand Canadian industry as a leader in this area of green chemistry or engineering? (For example, is this something that Canada can export or license as technology or intellectual property?)
- Has the initiative provided a means to assess safer alternatives?
- Has the initiative enhanced the public's understanding about green chemistry?
- Has the initiative resulted in a change in consumer behaviour and demand for safer alternatives?
- Has the initiative resulted in any collaboration of industry and academia in driving a research agenda to address gaps and barriers in green chemistry and engineering?
- Does the initiative include the implementation of standards or include a recommendation for the development of Canadian, Bi-national, or International standards?
- Has the initiative raised awareness of industry of opportunities to implement green chemistry and engineering?
- Does the organization follow the 12 Principles of Green Chemistry or Principles of Green Engineering.

Nominations should include:

- **Summary** (maximum one page) Provide a brief statement of why the organization should receive the award.
- **Support Documents** This is the key document in the nomination and this information should outline areas where the organization meets the criteria listed in the Terms of Reference for this award, including awards, patents and other related information.

- **Supporting Letters** (3 to 5) It is CIC policy that a minimum of three and a maximum of five letters of support are required. At least two must be from outside the nominee's organization.

Membership by employees in the Chemical Institute of Canada is not a prerequisite.

The award shall be presented at one of the Chemical Institute of Canada's (CIC) annual conferences, an independent conference or symposium organized by the CIC or an event chosen by the CGCEN. A representative from the winning organization will be offered the opportunity to present an award lecture.

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

- Chair of the CGCEN
- Two representatives from past winner organizations
- One additional member appointed by the Board of Directors of the CGCEN.
- Selection Committee members may also be members of the CGCEN Board of Directors.
- It is recommended that members of the committee are from all sectors: industry, government and academia.

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

List of Recipients

This award was originally sponsored by Ontario Ministry of the Environment from 2010-2012 (Ontario Green Chemistry and Engineering Award), specifying that the organization made the contributions within Ontario; although the organization did not have to be located within Ontario. In 2014, it became a national award — the Canadian Green Chemistry and Engineering Award (CSA Group Award for Organizations) sponsored by CSA Group.

Date	Award Winner	Award Lecture
2016	No award presented	
2015	No award presented	
2014	Orbite Aluminae Ltd.	The Orbite Process
2013	No award presented	
2012	Xerox Research Centre of Canada	Green Chemistry and Engineering
2011	EcoSynthetix	The Challenges and Achievements of Following the 12 Principles of Green Chemistry
2010	Woodbridge Foam Corporation	A World Leader in Green Chemistry

The following awards were presented from 2010–2012 only

Ontario Green Chemistry and Engineering Award (Individual)

List of Recipients

Date	Award Winner	Award Lecture
2012	Paul Charpentier	Supercritical Fluids – A Tool for Sustainable Nanotechnology and Alternative Energy
2011	Franco Berruti	Turning Waste into Black Gold
2010	Leo W. M. Lau	Green Chemistry: Experiences and Reserach