



The Chemical Institute of Canada  
L'Institut de chimie du Canada

# Catalysis Division NEWSLETTER

May 2011

[www.chimiste.ca/divisions/catalysis](http://www.chimiste.ca/divisions/catalysis)

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Our division is a member of the  
Chemical Institute of Canada (CIC)  
and a club of the North American  
Catalysis Society (NACS)  
[www.nacatsoc.org](http://www.nacatsoc.org)



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and Flora Ng.

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## Report from the Chair

On the behalf of the Executive Committee and myself, I welcome all the members especially all the new members of the Catalysis Division of Chemical Institute of Canada. There are two issues of the Newsletter annually. We had a call of nominations for the Canadian Catalysis Lectureship Award in the October 2010 Newsletter and I am selected for this prestigious award and have humbly accepted the award. Dr. Craig Fairbridge has kindly agreed to coordinate my lecture tour. I wish to congratulate Professor Iglesia of the University of Berkeley for being the winner of the 2010 Cross-Canada Lecture Tour award. He will visit six Universities in June 2011. Professor Ng has agreed to coordinate his tour.

Professor Cathleen Crudden has visited four Universities in Eastern Canada and is planning to visit the Universities of Alberta and Calgary in June 2011. Her tour has generated lots of interests in the catalysis field especially among young researchers.

The Catalysis Award, sponsored by the Canadian Catalysis Foundation, is given biannually. Please nominate your fellow Colleagues in writing to the Awards Manager by October 3, 2011 using the CIC nomination form found at [www.cheminst.ca/awards](http://www.cheminst.ca/awards).

Professor Kaliaguine will Chair the organizing committee for the 22nd Canadian Catalysis Symposium, to be held in Québec City in May 2012. I invite you to attend and present your work at this important symposium. There are several catalysis experts already identified to give keynote address at this symposium.

Also, North American Catalysis Society Meeting will be held in Detroit in June 5-11, 2011. I hope that there will be strong Canadian participation in this conference. The Division Executive Meeting will be held at Andiamo's at the Renaissance Center in Detroit on Monday June 6 at 12 (<http://www.andiamoitalia.com/detroit/>). I would like to invite the students who have applied for a Kokes Travel Award to apply for support from the Canadian Catalysis Foundation. The application for funding is at the end of this newsletter.

As a final note, the division is doing extremely well and can do better with your active participation. Finally, have a safe and enjoyable summer.

Ajay Dalai

## Canadian Catalysis Lectureship Award

We are pleased to announce that **Dr. Ajay Dalai** has been awarded the 2011 Canadian Catalysis Lectureship Award. Craig Fairbridge (craig@NRCan.gc.ca) can be contacted for details on Dr. Dalai's tour.

The CCF created and sponsors the Canadian Catalysis Lectureship Award. The lectureship is restricted to Canadians who are currently working in Canada in the area of catalysis, and is intended to provide exposure for Canadian scientists and engineers. The lecture tour is to be held annually, and to include 4 to 6 Canadian cities. It will be offered to a limited number of locations in the USA as well, the sites to be determined through The North American Catalysis Society, of which The Catalysis Division of CIC is a member. The recipient will be chosen by a committee appointed by The Catalysis Division, and could be either a researcher recognized as a leader in a particular field of research, or someone who has just completed a new and interesting or controversial piece of work but who is not yet widely recognized.

Ajay K. Dalai obtained his B.Sc. and M.Tech. from India and his Ph.D. (all in Chemical Engineering) from the University of Saskatchewan. He is Professor and Canada Research Chair (Tier 1) in Bioenergy and Environmentally Friendly Chemical Processing in the Department of Chemical Engineering, University of Saskatchewan. Professor Dalai has been a member of the Chemical Institute of Canada since 1987. He has held Chair of Northern Saskatchewan Section of CIC (1997-2000) and has been a member of the executive committee of the Catalysis Division of CIC since 2000. The Catalysis and Chemical Reaction Engineering (CCREL) laboratory led by Professor Dalai is widely known and respected for both academic and industrial research, and he has tremendous contacts in industry and academia, both nationally and internationally. Professor Dalai's current focus is the development of gas to liquid technologies and Fischer-Tropsch synthesis. He is a leader in biodiesel research, and his other research interests include value-added products from biomass, solid acid catalysis for the production of alkylates, activated carbon production and applications for mercury and hydrogen sulfide capture, and hydroprocessing of heavy gas oil derived from Athabasca bitumen. Professor Dalai has nine patents and patent applications related to catalytic processes. He has published 200 research papers in international journals and conference proceedings, over 110 research reports for funding agencies, and he has presented 250 papers at national and international conferences. Professor Dalai has given over 50 invited lectures in his areas of expertise in Canada, USA, Australia, China and India. He is a member of many national and international strategic initiatives on the bio-economy. He has held the Petro Canada Young Innovator Award (1999), the Syncrude Owl Award (2003), Kentucky Colonel Award (2004), Institute of Chemical Technology Mumbai Professor R.A. Rajadhyaksha Memorial lecture Series Award (2006), Indian Chemical Engineering Congress NEERI Distinguished Speaker award (2006), McMaster University's Brockhouse Institute for Materials Research Distinguished Speaker award (2009) and DAAD Fellowship (Germany) Award (2010). Recently, he has received fellowship of Engineering Institute of Canada (EIC) and Innovator Award from Industrial Liaison Office at the University of Saskatchewan and Innovation Place in Saskatoon.

### Award Winners

Lectureship (CCLA):  
2008 No award given  
2009 M. Baird  
2010 C. Crudden  
2011 A. Dalai

Lecture Tour (CCLT):  
2004 J.A. Dumesic  
2006 A. Corma  
2008 No award given  
2010 E. Iglesia

## 2010 CCLA Tour by Dr. Cathleen Crudden

In late October/early November Dr. Crudden visited several Universities on the east coast as part of this lectureship. The first tour started with the University of New Brunswick in Fredericton where she presented her work related to both homogeneous and heterogeneous catalysis. The lecture began with a

highlight of the importance of catalysis to chemistry since three of the Nobel Prizes in the last decade were given in the area of catalysis! This fact impressed virtually everyone on the tour. After UNB, the next stop was Acadia University where she had an outstanding turnout of third and fourth year undergraduates. The students were extremely keen and asked remarkably insightful questions. She was since told that at Acadia the students rank all the lecturers for the year. The last time she talked to the Department Chair there, her lecture was still ranked number one for the year!

After Acadia, Dr. Crudden traveled to Cape Breton University where she again had a very large crowd of students and faculty. The lecture was very well received, and several students came up to her at the end saying that they would be interested in going to grad school to study catalysis. Finally, in February she went to Mount Allison in Sackville New Brunswick and gave her talk to a packed crowd. The last part of the trip will be this summer to the University of Calgary and the University of Alberta.

### **2010 Cross-Canada Lecture Tour: Dr. Enrique Iglesia**

Professor Iglesia of the University of Berkeley and winner of the 2010 Cross-Canada Lecture Tour award, will be visiting the Universities of Toronto (Chuck Mims), Ottawa (Tom Baker), Waterloo (Flora Ng), Saskatchewan (Ajay Dalai), Calgary (Josie Hill), and British Columbia (Kevin Smith) on his Cross-Canada Lecture Tour June 13-22, 2011. Please contact his hosts (names in brackets above) directly for more information on his visits or Flora T.T. Ng at [ftng@uwaterloo.ca](mailto:ftng@uwaterloo.ca).

### **The Catalysis Award – Call for Nominations**

The Catalysis Award, sponsored by the Canadian Catalysis Foundation, is awarded biannually to an individual who, while resident in Canada, has made a distinguished contribution to the field of catalysis. The recipient of the Award receives a rhodium-plated silver medal and travel expenses to present the Award Lecture at the Canadian Symposium on Catalysis or the annual conference of the Canadian Society for Chemistry or the Canadian Society for Chemical Engineering.

Nominations for the 2012 Award must be submitted in writing to the Awards Manager by October 3, 2011, using the CIC nomination form found at [www.cheminst.ca/awards](http://www.cheminst.ca/awards).

Previous winners of the Catalysis Award are R.J. Cvetanovic and Y. Amenomiya (1977), R.B. Anderson (1979), C.H. Amberg (1982), H. Alper (1984), H.W. Habgood (1986), J.B. Moffat (1988), B.R. James (1990), B. Wojciechowski (1992), I. Dalla Lana (1994), M. Ternan (1996), S. Kaliaguine (1998), G.L. Rempel (2000), M.C. Baird (2002), C.A. Fyfe (2004), S. Brown (2006), Flora T.T. Ng (2008) and R. Stanley Brown (2010).

For more information, please contact the Division Vice-Chair, William Epling, Department of Chemical Engineering, University of Waterloo, Waterloo, ON N2L 3G1; Tel: (519) 888-4567, ext. 37048, Fax: (519) 888-4347, email : [wepling@uwaterloo.ca](mailto:wepling@uwaterloo.ca) or Gale Thirlwall, Awards Manager, Chemical Institute of Canada, 130 Slater Street, Suite 550, Ottawa, ON K1P 6E2; Tel: (613)-232-6252, ext 223; Fax: (613)-232-5862; email: [gthirlwall@cheminst.ca](mailto:gthirlwall@cheminst.ca).

### **North American Catalysis Meeting**

The following excerpt has been modified from the North American Catalysis Society Website:

22nd North American Catalysis Society Meeting ([www.22nam.org](http://www.22nam.org)), June 5-10, 2011

Detroit Marriott at the Renaissance Center, Detroit, MI

The 22nd biannual North American Meeting of the North American Catalysis Society will be hosted by the Michigan Catalysis Society in Detroit, MI on June 5-10, 2011. With the theme "Driving Catalysis Innovation" and with plenary lectures (including the Houdry, Emmett, and Boudart Award lectures), several renowned keynote presentations, parallel oral sessions and poster sessions this conference is shaping up to be one you won't want to miss!

Students who have applied for a Kokes Travel Award can also apply for support from the Canadian Catalysis Foundation. The application for funding is at the end of this newsletter.

**22<sup>nd</sup> Canadian Symposium on Catalysis: Catalysis: a Science of Universal Application  
Quebec City, May 13-16, 2012**

Serge Kaliaguine reports that the organization of the 22nd Canadian Catalysis Symposium, to be held in Québec City in May 2012, is going on smoothly. We have an impressive slate of invited/keynote speakers which includes Sir John M. Thomas, Prof. Can Li, President of the Federation of Catalysis Societies, Prof. James Dumesic, Prof. Ferdi Schueth, Dr Frederique Jaouen and Prof. Ying Wan.

**Get New Members**

Please advertise our division to your colleagues and encourage them to become a Catalysis Division Member. Our division can be chosen when submitting your annual CIC membership dues.

Please forward any comments or suggestions for the newsletter to [jhill@ucalgary.ca](mailto:jhill@ucalgary.ca).

**STUDENT TRAVEL ASSISTANCE  
FROM THE CANADIAN CATALYSIS FOUNDATION**

The Canadian Catalysis Foundation is pleased to assist with travel expenses incurred by students from Canadian Universities presenting one or more papers at the 22<sup>nd</sup> North American Catalysis Meeting, June 5-10, 2011

Name: \_\_\_\_\_

Presentation Title: \_\_\_\_\_

\_\_\_\_\_

Oral \_\_\_\_\_ Poster \_\_\_\_\_

Your e-mail address: \_\_\_\_\_

Name of research supervisor: \_\_\_\_\_

Mailing address of research supervisor: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please list your expenses below, attach **original receipts** for these expenses to this form and mail to the address at the bottom of the page.

Travel \_\_\_\_\_  
Indicate mode (e.g. "By air")

Travel Total \_\_\_\_\_

Lodging \_\_\_\_\_

Lodging Total \_\_\_\_\_

Conference registration \_\_\_\_\_

TOTAL \_\_\_\_\_

Signature: \_\_\_\_\_

Please mail this form and receipts **by July 15, 2011** to:

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