

LTOS-16

Synthetic Pathways presents

The 16th Symposium on the Latest Trends in Organic Synthesis



August 13–16, 2014

Brock University
Niagara Region
St. Catharines, Ontario, Canada

ABOUT THE SYMPOSIUM



The very first Symposium on the Latest Trends in Organic Synthesis was held May 28–31, 1984, in Blacksburg, Virginia. Organized by Tomas Hudlicky (Virginia Tech), George Majetich (University of Georgia), and Dennis Liotta (Emory University), it was conceived as a forum for enhancing the visibility of synthetic organic chemists from the southern United States. The original format was designed to provide a balanced mix of industrial chemists as well as early-career and established academic chemists. The inaugural symposium was a marathon event featuring 33 speakers. It was a resounding success, and the symposium has convened every two years since. In the intervening years, it evolved into an internationally recognized symposium, on par with the Gordon Research Conferences.

In 1996, the Symposium moved to Gainesville, Florida, and in 2004 moved again to the present location in the Niagara Region of Ontario, which has proven to be an ideal venue. The upcoming 16th Symposium will be the sixth one held here. The conference remains an exciting event, bringing together from around the world some of the most interesting and accomplished chemists in academia and industry.

The Organizing Committee



Tomas Hudlicky • Brock University
Chair and Founder of the Symposium

Josie Reed • Brock University
Vice-Chair

Steve Bergmeier • Ohio University

Mike Kerr • Western University

Bill Kinney • IteraMed

Mark McMills • Ohio University

P. J. Persichini • Allegheny College

Dennis Wright • University of Connecticut

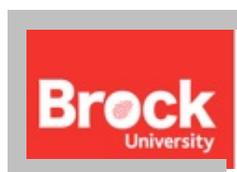
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UPDATED JULY 15, 2014

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SPEAKERS



Jeffrey Atkinson • *Brock University*

Organic chemistry research at Brock University: An overview

Martin G. Banwell • *Australian National University*

The application of chemoenzymatic and other methods to the total synthesis of biologically active natural products

D. Phillip Cox • *Noramco Inc.*

Advances in opiate chemistry

Boris Gorin • *Alphora Research Inc.*

Process development for vitamin D family of active pharmaceuticals

Stephen Hanessian • *University of Montréal*

Proximity effects in cycloaddition reactions toward tetrazoles

Thomas R. Hoye • *University of Minnesota*

The hexadehydro-Diels-Alder (HDDA) reaction. What's up with that?

Hans-Joachim Knölker • *Technical University Dresden*

Total synthesis of carbazole alkaloids using transition metals

Ari M. P. Koskinen • *Aalto University*

Asymmetric synthesis of 1,2-amino alcohols and other nitrogen heterocycles

Dennis Liotta • *Emory University*

The role of CXCR4 modulators in controlling HIV entry, stem cell mobilization and certain types of cancer

Thomas Livinghouse • *Montana State University*

Intramolecular metalloaminations of *N,N*-dimethylhydrazinoalkenes, A versatile method for the synthesis of functionalized piperidines and pyrrolidines

George Majetich • *University of Georgia*

The synthesis of natural products from the Tora Bora region of East Afghanistan and West Pakistan

Adam McCubbin • *University of Winnipeg*

Boronic acids as catalytic activators of (hetero)benzylic and allylic alcohols: More than simple Lewis acids

Peter Metz • *Technical University Dresden*

Total synthesis of hydroazulene natural products

Michael Natchus • *Emory Institute of Drug Development*

Discovery, manufacture and assessment of a small-molecule therapy for measles and canine distemper viruses

Brian Pagenkopf • *Western University*

Reactions of strained donor-acceptor carbocycles and applications in synthesis

Robin Polt • *University of Arizona*

Minimally competent Lewis acids for glycosidation: Glycopeptide drugs from endogenous neurotransmitters that penetrate the blood–brain barrier

Miroslav Soral • *Palacky University*

High-throughput solid-phase synthesis of some cyclic guanidines related to anagrelide and evaluation of their biological properties

Fabio Souza • *Alphora Research, Inc.*

Scale-up development for the synthesis of complex API molecules

Gary A. Sulikowski • *Vanderbilt University*

Synthesis and study of natural products of relevance to human health

James M. Tanko • *Virginia Tech*

C–H functionalization of hydrocarbons, ethers, and acetals via a free-radical allyl transfer process

Joseph P. Vacca • *WuXi AppTech*

Drug discovery in the 21st Century — New models for collaboration

David R. Williams • *Indiana University*

The stereocontrolled total synthesis of ileabethoxazole, a novel marine metabolite exhibiting antimycobacterial activity

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REGISTRATION



DEADLINES

Registration: July 18, 2014

Poster titles: July 18, 2014

Cancellation: July 18, 2014

A full refund will be issued to anyone cancelling by July 18, 2014.

We regret that we can issue no refunds after this date.

Cost: \$575, payable in either Canadian or U.S dollars

Students and postdocs are charged at a reduced rate of \$185.

The registration fee includes the opening social event on Wednesday evening and the symposium banquet on Saturday evening.

Participants are responsible for arranging their own accommodations.

*All participants are invited to submit their research
at the Symposium Poster Sessions.*

To register for LTOS-16:

First, download the appropriate registration form (form-fillable Word documents):

[Participant registration form](#)

[Student/postdoc registration form](#)

Next, fill out the form and send it with your cheque or money order, payable to TDC Research Inc. to:

TDC Research
c/o Tomas Hudlicky
Department of Chemistry, Brock University
500 Glenridge Avenue
St. Catharines, Ontario L2S 3A1
CANADA

To reserve your place, email your form to [Professor Hudlicky](#) or fax it to +1-905-984-4841 before mailing it with your payment to the address above.

We regret that we are unable to process registration payments by credit card.

Last, make arrangements for your accommodations and travel.

Updated: April 4, 2014

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ACCOMMODATIONS



Participants are responsible for making their own arrangements for accommodations.

DEADLINES

Brock University Conference Centre: July
Four Points: Friday, July 11, 2014

The Brock University Conference Centre is providing accommodations for the Symposium. Participants will be housed in the Earp Residence, which offers single air-conditioned rooms with every other room sharing an adjoining bath. The cost of a room plus breakfast is CDN \$69.50 per person per night, plus applicable taxes. More information can be found at the Conference Services website: www.brocku.ca/conference.

To make a reservation at the Brock University Conference Centre, please download the Accommodation Registration form.

Word document: [Brock accommodations request form](#)

Please return the completed form to Brock University Conference and Event Services by fax to +1-905-688-2110 or by email to roombookings@brocku.ca.

Four Points by Sheraton St. Catharines Niagara Suites. Participants, especially those travelling with their families, may choose to stay at the [Four Points by Sheraton St. Catharines Niagara Suites](#), which is located within walking distance of the Brock University campus. We have reserved a block of rooms for the conference. The rate for a room (single or double occupancy/standard suite with 2 double beds and sofa bed) is CDN \$139 (plus applicable taxes and fees) per night. A fee of \$10 per night will be charged for additional guests. This rate will be available for two days prior to the conference, subject to availability.

No-show policy/early departure policy: Individuals with guaranteed reservations who fail to arrive on the confirmed date without [72-hours notice](#) will be charged at the group rate for one night. Late

arrivals may be charged for the confirmed stay at the group rate. Early departures will be charged 50% of room rate for the remainder of their confirmed length of stay.

[To avoid these charges, please notify the hotel at least 72 hours prior to the reserved arrival time if you plan to change your reservation in any way.](#)

Visit [this web site](#) make your reservation on-line or call 1-905-984-8484 or (toll-free) 1-877-848-3782 and mention Latest Trends in Organic Synthesis.

The group rate is available until Friday, July 11, 2014.

For other accommodations in St Catharines, Niagara Falls or elsewhere in the Niagara Region, please consult one of the following websites:

http://www.tourismstcatharines.ca/page/where_to_stay

<http://www.tourismniagara.com/where-to-stay.html>

<http://www.niagarafallstourism.com/wheretostay.html>

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USEFUL INFORMATION FOR PARTICIPANTS



PLEASE NOTE: As of June 1, 2009, United States citizens and permanent residents returning to the U.S. from Canada are required to have a passport or other acceptable enhanced identification.

Getting to St. Catharines

By air: Pearson International Airport, Toronto, Ontario, Canada
Buffalo Niagara International Airport, Buffalo, New York, USA
Hamilton International Airport, Hamilton, Ontario, Canada
Niagara Falls International Airport, Niagara Falls, New York

Transportation to and from area airports: If you do not wish to rent a car at the airport, we recommend Niagara Airbus, which offers reliable door-to-door shuttle service to and from the Toronto and Buffalo airports. For the Hamilton airport, only exclusive service is available. Once you have your flight schedule, make your reservations on-line at www.niagaraairbus.com, by telephone at 1-905-374-8111, or through your travel agent. Booking on-line will save you 10% if you book at least 72 hours ahead.

By train: [VIA Rail](#) provides service to St. Catharines.

[GO Transit](#) offers regular bus service between St. Catharines and the Burlington GO station, with connecting trains to and from Toronto. During the the summer months, there is GO Train service between Toronto and St Catharines on the weekends.

By coach: Direct coach service is available to St. Catharines from Toronto and Buffalo with [Greyhound](#) or [Coach Canada](#).

By car: For driving directions, consult your favourite online map application.

For current wait times at the U.S.-Canada border, [click here](#). The three crossing points from New York State into the Niagara Region are the Peace Bridge (Buffalo/Ft. Erie), the Rainbow Bridge (Niagara Falls), and the Queenston–Lewiston Bridge. From Michigan, crossings into Southern Ontario are at the Blue Water Bridge (Port Huron/Sarnia), the Detroit and Canada Tunnel, and the Ambassador Bridge (Detroit/Windsor).

Traveling to Canada

For information from Canada Border Services see: <http://www.cbsa-asfc.gc.ca/travel-voyage/menu-eng.html>

What to do in your spare time

The technical sessions and social events are scheduled so that all afternoons are free for relaxing or sightseeing.

Besides our famous waterfall and the attractions in the city of Niagara Falls, located 20 minutes by car from the Brock campus, there are plenty of other interesting things to do and see. Watch ships ply the locks on Welland Canal. Attend a play at the Shaw Festival Theatre in Niagara-on-the-Lake. Taste wine at some of the dozens of wineries in the area. Below are links to a few websites for exploring some of what the Niagara Region has to offer.

[St. Catharines](#)

[Niagara Falls](#)

[More Niagara Falls](#)

[DeCew Falls](#) (near the Brock University campus)

[Waterfalls in Ontario](#) (Check out the ones in Niagara and Hamilton.)

[Niagara Parks](#)

[Welland Canal](#)

[Niagara Escarpment and the Bruce Trail](#) (a UNESCO World Biosphere Reserve)

[Niagara Region](#)

[Twenty Valley](#)

[Jordan Village](#)

[Niagara-on-the-Lake](#)

[Shaw Festival Theatre](#)

[Niagara wineries](#)

[Ontario wineries](#)

[Walking and hiking trails](#)

[More trails](#)

[Golf courses](#)

[Niagara Golf Trail](#)

[Golden Horseshoe Travel Guide](#)

[The Greenbelt](#)

Participants may use the Brock University swimming pool or the Zone Fitness Centre by purchasing a day pass at the Welcome Desk in the Walker Complex. See: <https://brocku.ca/conference-services/Meetings-rec/campus-recreation>

For the current weather conditions in St. Catharines, [click here](#).

Dress at the symposium is casual.



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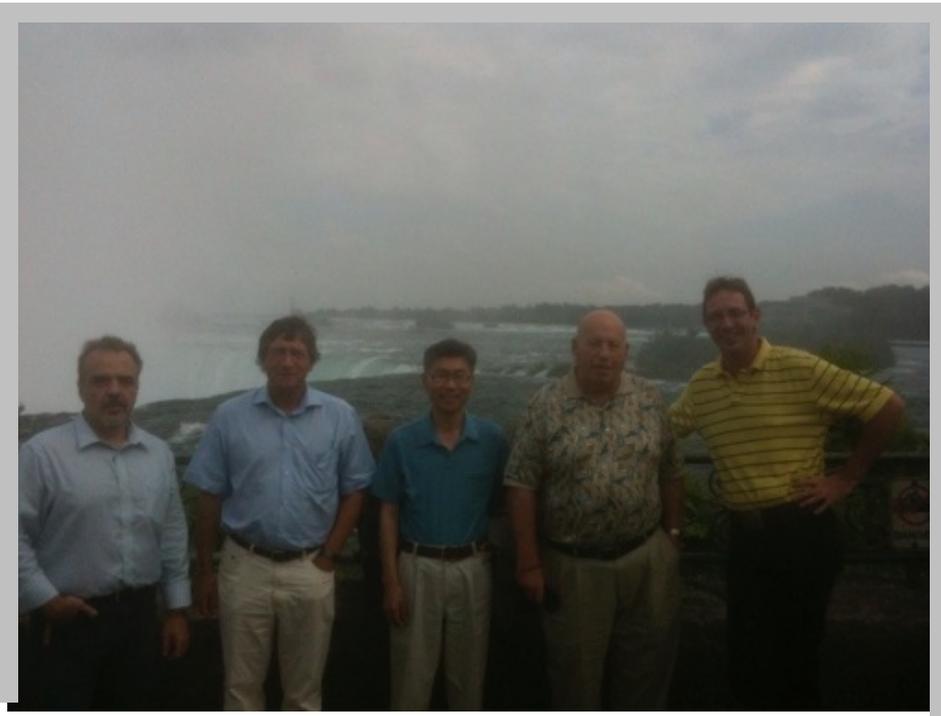
PHOTOS



from the last symposium (August 2012)



Taking a break from the talks



Visiting Niagara Falls

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CONTACT



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