

PERSONAL

Born on September 9, 1961 in Montreal, QC, Canada

EDUCATION

Postdoctoral Appointment (Prof. David A. Evans), Harvard University, Cambridge, MA — 1987-1989

Ph.D. (Prof. Robert K. Boeckman Jr.), University of Rochester, NY — 1987

M.Sc. (Prof. Robert K. Boeckman Jr.), University of Rochester, NY — 1985

B.Sc. in Chemistry, Université de Montréal, Montreal, QC — 1983

WORK EXPERIENCE

Université de Montréal, Montreal, QC — 2009-

Co-Director of the Centre in Green Chemistry and Catalysis (FQRNT Strategic Cluster)

Université de Montréal, Montreal, QC — 2005-

Holder of the Canada Research Chair in Stereoselective Synthesis of Bioactive Molecules

Université de Montréal, Montreal, QC — 1998-

Full Professor

Université de Montréal, Montreal, QC — 2000-2010

Holder of the NSERC/Merck Frosst/Boehringer Ingelheim Industrial Chair in Stereoselective Drug Synthesis

SoluPhase Inc., Montreal, QC — 2007-2010

Chief Scientific Officer

Université de Montréal, Montreal, QC — 1994-1998

Associate Professor, NSERC University Research Fellow

Université de Montréal, Montreal, QC — 1992-1994

Assistant Professor, NSERC University Research Fellow

Université Laval, Quebec City, QC — 1989-1992

Assistant Professor, NSERC University Research Fellow

EXPERTISE

Stereoselective synthesis of organic compounds and natural products

Piperidine synthesis and C-H insertion

Asymmetric cyclopropanation and catalysis

Chiral amines and heterocyclic derivatives

Organometallics

LANGUAGES

French: mother tongue; **English:** fluent

CAREER HIGHLIGHTS

14 major awards

189 published papers, 9 book chapters, 3 patents and 21 encyclopedia articles

260 invited talks, 5 invited professorships and 306 conference proceedings

38 trained postdoctoral fellows, 35 Ph.D students, 76 M.Sc. students and 81 short-term interns

HONORS AND AWARDS

2010	Honorary membership of the Israel Chemical Society
2009	Alfred Bader Award (Canadian Society for Chemistry)
2009	JSPS Fellowship for Research in Japan (Japan Society for the Promotion of Science)
2008	Prix Marie-Victorin (Government of Québec)
2007	Arthur C. Cope Scholar Award (American Chemical Society, USA)
2007	Fellow of the Royal Society of Canada: The Academies of Arts, Humanities and Sciences of Canada
2006	Urgel Archambault Award (Association francophone pour le savoir - ACFAS)
2006	R. U. Lemieux Award (Canadian Society for Chemistry)
2003-2005	Enantioselective Synthetic Chemistry Research Grants Program (Canadian Society for Chemistry)
2002	Rutherford Memorial Medal in Chemistry (Royal Society of Canada - RSC)
2002	Young Explorers Prize: Canada's Top 20 Researchers <40 (Canadian Institute for Advanced Research)
2000-2002	E. W. R. Steacie Memorial Fellowship (NSERC)
1999	Astra Pharma Award (Canadian Society for Chemistry)
1998	Fellow of the Chemical Institute of Canada (CIC)
1998-1999	Academic Development Program Award (Chemistry Council of Merck Research Laboratories, USA)
1998	Merck Frosst Centre for Therapeutic Research Award (Canadian Society for Chemistry)
1996-1998	Alfred P. Sloan Research Fellowship (Alfred P. Sloan Foundation, USA)
1994-1996	Eli Lilly Grantee Award (Eli Lilly, USA)
1991-1993	Young Investigator Award for Organic Chemistry (BioMega/Boehringer Ingelheim)
1992-1997	NSERC University Research Fellow, Université de Montréal
1989-1992	NSERC University Research Fellow, Université Laval
1987-1989	NSERC Postdoctoral Fellow, Harvard University
1983-1987	Sherman Clarke Fellow, University of Rochester

REFEREED PUBLICATIONS

2013

190. Beaulieu, L.-P. B.; Schneider, J. S.; Charette, A. B. Highly Enantioselective Simmons-Smith Fluorocyclopropanation of Allylic Alcohols via the Halogen Scrambling Strategy of Zinc Carbenoids. *J. Am. Chem. Soc.* **2013**, *135*, 7819-7822.
189. Pelletier, G.; Charette, A. B. Triflic Anhydride-Mediated Synthesis of Imidazo[1,5-a]azines. *Org. Lett.* **2013**, *15*, 2290-2293.
188. Ladd, C. L.; Sustac Roman, D.; Charette, A. B. Palladium-Catalyzed Ring-Opening of Cyclopropyl Benzamides: Synthesis of Benzo[c]azepine-1-ones via a C(sp³)-H Functionalization. *Tetrahedron* **2013**, *69*, 4479-4487 (Invited Contribution).
187. Ladd, C. L.; Sustac Roman, D.; Charette, A. B. Silver-Promoted, Palladium-Catalyzed Direct Arylation of Cyclopropanes: Facile Access to Spiro 3,3'-Cyclopropyl Oxindoles. *Org. Lett.* **2013**, *15*, 1350-1353.
186. Mousseau, J. J.; Charette, A. B. Direct Functionalization Processes: A Journey from Palladium, to Copper, to Iron, to Nickel, to Metal-Free Coupling Reactions. *Acc. Chem. Res.* **2013**, *46*, 412-427.
185. Lindsay, V. N. G.; Fiset, D.; Gritsch, P. J.; Azzi, S.; Charette, A. B. Stereoselective Rh₂(IBAZ)₄-Catalyzed Cyclopropanation of Alkenes, Alkynes and Allenes: Asymmetric Synthesis of Di-Acceptor Cyclopropylphosphonates and Alkylidenecyclopropanes. *J. Am. Chem. Soc.* **2013**, *135*, 1463-1470.

2012

184. Beaulieu, L.-P. B.; Zimmer, L. E.; Gagnon, A.; Charette, A. B. Highly Enantioselective Synthesis of 1,2,3-Substituted Cyclopropanes Using α -Iodo- and α -Chloromethylzinc Carbenoids. *Chem. Eur. J.* **2012**, *18*, 14784-14791.
183. Pelletier, G.; Lie, S.; Mousseau, J. J.; Charette, A. B. One-Pot Synthesis of 1-Iodoalkynes and Trisubstituted Alkenes. *Org. Lett.* **2012**, *14*, 5464-5467.
182. Beaulieu, L.-P. B.; Sustac Roman, D.; Vallée, F.; Charette, A. B. Nickel(0)/NaHMDS Adduct-Catalyzed Intramolecular Alkylation of Unactivated Arenes via a Homolytic Aromatic Substitution Mechanism. *Chem. Commun.* **2012**, *48*, 8249-8251.
181. Lemonnier, G.; Charette, A. B. Grob Fragmentation of 2-Azabicyclo[2.2.2]oct-7-ene: A Versatile Tool for the Rapid Stereoselective Synthesis of Polysubstituted Piperidines. *J. Org. Chem.* **2012**, *77*, 5832-5837.
180. Fiset, D.; Charette, A. B. Microwave-Assisted Hydrolysis: Efficient Synthesis of α -Substituted Cysteines on Multi-gram Scale. *RSC Adv.* **2012**, *2*, 5502-5505.

179. Lindsay, V. N. G.; Charette, A. B. Design and Synthesis of Chiral Heteroleptic Rh(II)-Carboxylate Catalysts: Experimental Investigations of the Halogen Bond Rigidity Effects in Asymmetric Cyclopropanation Reactions. *ACS Catal.* **2012**, *2*, 1221-1225.
178. Charette, A. B.; Bull, J. A.; Mousseau, J. J.; Pelletier, G. Synthesis of Pyridine and Dihydropyridine Derivatives by Regio- and Stereoselective Addition to *N*-Activated Pyridines. *Chem. Rev.* **2012**, *112*, 2642-2713.
177. Moreau, B.; Alberico, D.; Lindsay, V. N. G.; Charette, A. B. Catalytic Asymmetric Synthesis of Nitrocyclopropane Carboxylates. *Tetrahedron* **2012**, *68*, 3487-3496 (Invited Contribution).
176. Bechara, W. S.; Pelletier, G.; Charette, A. B. Controlled and Chemoselective Synthesis of Kentones and Ketimines via the Addition of Organometallic Reagents to Secondary Amides. *Nature Chem.* **2012**, *4*, 228-234.

2011

175. Mousseau, J. J.; Bull, J. A.; Ladd, C. L.; Fortier, A.; Sustac Roman, D.; Charette, A. B. Synthesis of 2- and 2,3-Substituted Pyrazolo[1,5-*a*]pyridines: Scope and Mechanistic Considerations of a Domino Direct Alkynylation and Cyclization of *N*-Iminopyridinium Ylides using Alkenyl Bromides, Alkenyl Iodides, and Alkynes. *J. Org. Chem.* **2011**, *76*, 8243-8261.
174. Jarvis, S. B. D.; Charette, A. B. Synthesis of Enantiopure Substituted Piperidines via an Aziridinium Ring Expansion. *Org. Lett.* **2011**, *13*, 3830-3833.
173. Lebel, H.; Davi, M.; Roy, M.-N.; Zeghida, W.; Charette, A. B. Olefination Reactions Using Tetraarylphosphonium (TAP)-Supported Phosphorus Ylides. *Synthesis* **2011**, 2275-2280.
172. Barbe, G.; Fiset, D.; Charette, A. B. Asymmetric Total Synthesis of (+)-Luciduline: Toward a General Approach to Related *Lycopodium* Alkaloids. *J. Org. Chem.* **2011**, *76*, 5354-5362.
171. Lindsay, V. N. G.; Nicolas, C.; Charette, A. B. Asymmetric Rh(II)-Catalyzed Cyclopropanation of Alkenes with Diaceptor Diazo Compounds: the *p*-Methoxyphenyl Ketone as a General Stereoselectivity Controlling Group. *J. Am. Chem. Soc.* **2011**, *133*, 8972-8981.
170. Sustac-Roman, D.; Takahashi, Y.; Charette, A. B. Potassium *tert*-Butoxide Promoted Intramolecular Arylation via a Radical Pathway. *Org. Lett.* **2011**, *13*, 3242-3245.

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169. Lemonnier, G.; Charette, A. B. Stereoselective Synthesis of 2,3,6-Trisubstituted Tetrahydropyridines via Tf₂O Mediated Grob Fragmentation: Access to Indolizidines (–)-209I and (–)-223J. *J. Org. Chem.* **2010**, *75*, 7465-7467.
168. Mousseau, J. J.; Vallée, F.; Lorion, M. M.; Charette, A. B. Umpolung Direct Arylation Reactions: Facile Process Requiring Only Catalytic Palladium and Sub-Stoichiometric Amount of Silver Salts. *J. Am. Chem. Soc.* **2010**, *132*, 14412-14414.
167. Pelletier, G.; Bechara, W. S.; Charette, A. B. Controlled and Chemoselective Reduction of Secondary Amides. *J. Am. Chem. Soc.* **2010**, *132*, 12817-12819.
166. Beaulieu, L.-P. B.; Delvos, L. B.; Charette, A. B. Dual Role of Silanol Groups in Cyclopropanation and Hiyama-Denmark Cross-Coupling Reactions. *Org. Lett.* **2010**, *12*, 1348-1351.
165. Lemire, A.; Charette, A. B. Stereoselective Syntheses of L-Pipecolic Acid and (2*S*,3*S*)-3-Hydroxypipecolic Acid From a Chiral *N*-Imino-2-Phenyl-1,2-Dihydropyridine Intermediate. *J. Org. Chem.* **2010**, *75*, 2077-2080.
164. Bull, J. A.; Mousseau, J. J.; Charette, A. B. Preparation of (*E*)-(2-Iodovinyl)benzene from Benzyl Bromide and Diiodomethane [(*E*)-β-Styryl Iodide]. *Org. Synth.* **2010**, *87*, 170-177.
163. Goudreau, S. R.; Marcoux, D.; Charette, A. B. Synthesis of Dimethyl 2-Phenylcyclopropane-1,1-Dicarboxylate Using an Iodonium Ylide. *Org. Synth.* **2010**, *87*, 115-125. (Featured Article)
162. Voituriez, A.; Zimmer, L. E.; Charette, A. B. Preparation of a Storable Zinc Carbenoid Species and Its Application in Cyclopropanation, Chain Extension and [2,3]-Sigmatropic Rearrangement Reactions. *J. Org. Chem.* **2010**, *75*, 1244-1250.
161. Bull, J. A.; Charette, A. B. Intramolecular Simmons-Smith Cyclopropanation. Studies Into the Reactivity of Alkyl-Substituted Zinc Carbenoids, Effect of Directing Groups and Synthesis of Bicyclo[*n*.1.0]alkanes. *J. Am. Chem. Soc.* **2010**, *132*, 1895-1902.
160. Vallée, F.; Mousseau, J. J.; Charette, A. B. Iron-Catalyzed Direct Arylation: Mild Aryl and Heteroaryl Functionalization. *J. Am. Chem. Soc.* **2010**, *132*, 1514-1516.
159. Marcoux, D.; Lindsay, V. N. G.; Charette, A. B. Use of Achiral Additives to Increase the Stereoselectivity in Rh(II)-Catalyzed Cyclopropanations. *Chem. Commun.* **2010**, *46*, 910-912. (Invited Contribution)
158. Vanier, S. F.; Larouche, G.; Wurz, R. P.; Charette, A. B. Formal Synthesis of Belactosin A and Hormaomycin via a Diastereoselective Intramolecular Cyclopropanation of α-Nitro Diazoesters. *Org. Lett.* **2010**, *12*, 672-675.

157. Cérat, P.; Gritsch, P. J.; Goudreau, S. R.; Charette, A. B. Synthesis of Enantioenriched Allenes from 1,1-Cyclopropanediester. *Org. Lett.* **2010**, *12*, 564-567.
156. Mousseau, J. J.; Fortier, A.; Charette, A. B. Synthesis of 2-Substituted Pyrazolo[1,5-a]pyridines Through Cascade Direct Alkenylation/Cyclization Reactions. *Org. Lett.* **2010**, *12*, 516-519.
155. Mousseau, J. J.; Bull, J. A.; Charette, A. B. Copper-Catalyzed Direct Alkenylation of *N*-Iminopyridinium Ylides. *Angew. Chem. Int. Ed.* **2010**, *49*, 1115-1118.
154. Goudreau, S. R.; Charette, A. B. Defying Ring Strain: New Approaches to Cyclopropanes. *Angew. Chem. Int. Ed.* **2010**, *49*, 486-488. (Invited Highlight)

2009

153. Lemire, A.; Côté, A.; Janes, M. K.; Charette, A. B. Synthesis and Application of Diorganozinc Reagents: Beyond Diethylzinc. *Aldrichim. Acta* **2009**, *42*, 71-83. (Invited Contribution)
152. Marcoux, D.; Goudreau, S. R.; Charette, A. B. *trans*-Directing Ability of the Amide Group: Enabling the Enantiocontrol in the Synthesis of 1,1-Dicarboxy Cyclopropanes. Reaction Development, Scope, and Synthetic Applications. *J. Org. Chem.* **2009**, *74*, 8939-8955. (Featured Article)
151. Lindsay, V. N.; Lin, W.; Charette, A. B. Experimental Evidence for the All-Up Reactive Conformation of Chiral Rhodium(II) Carboxylate Catalysts: Enantioselective Synthesis of *cis*-Cyclopropane α -Amino Acids. *J. Am. Chem. Soc.* **2009**, *131*, 16383-16385.
150. Roy, M.-N.; Poupon, J.-C.; Charette, A. B. Tetraarylphosphonium Salts as Soluble Supports for Oxidative Catalysts and Reagents. *J. Org. Chem.* **2009**, *74*, 8510-8515. (Featured Article)
149. Beaulieu, L.-P. B.; Zimmer, L. E.; Charette, A. B. Enantio- and Diastereoselective Iodocyclopropanation of Allylic Alcohols by Using a Substituted Zinc Carbenoid. *Chem. Eur. J.* **2009**, *15*, 11829-11832.
148. Goudreau, S. R.; Charette, A. B. *In Situ* Generation of Zinc Carbenoids from Diazo Compounds and Zinc Salts: Asymmetric Synthesis of 1,2,3-Substituted Cyclopropanes. *J. Am. Chem. Soc.* **2009**, *131*, 15633-15635.
147. Zimmer, L. E.; Charette, A. B. Enantioselective Synthesis of 1,2,3-Trisubstituted Cyclopropopanes Using *gem*-Dizinc Reagents. *J. Am. Chem. Soc.* **2009**, *131*, 15624-15626.
146. Barbe, G.; Pelletier, G.; Charette, A. B. Intramolecular Pyridine Activation – Dearomatization Reaction: Highly Stereoselective Synthesis of Polysubstituted Indolizidines and Quinolizidines. *Org. Lett.* **2009**, *11*, 3398-3401.
145. Bonnaventure, I.; Charette, A. B. Stereoselective Synthesis of *N*-Heterocycles: Application of the Asymmetric Cu-Catalyzed Addition of Et₂Zn to Functionalized Alkyl and Aryl Imines. *Tetrahedron* **2009**, *65*, 4968-4976. (Invited Contribution)
144. Marcoux, D.; Azzi, S.; Charette, A. B. Highly Enantio- and Diastereoselective Rhodium-Catalyzed Cyclopropanation of Alkenes Using α -Cyano Diazoacetamide. Spectacular Effect of Trifluoromethanesulfonic Amide Additive. *J. Am. Chem. Soc.* **2009**, *131*, 6970-6972.
143. Goudreau, S. R.; Marcoux, D.; Charette, A. B. General Method for the Synthesis of Phenyliodonium Ylides from Malonate Esters: Easy Access to 1,1-Cyclopropane Diesters. *J. Org. Chem.* **2009**, *74*, 470-473.

2008

142. Marcoux, D.; Charette, A. B. Nickel-Catalyzed Synthesis of Phosphonium Salts from Aryl Halides and Triphenylphosphine. *Adv. Synth. Catal.* **2008**, *350*, 2967-2974.
141. Marcoux, D.; Charette, A. B. *trans*-Directing Ability of Amides in Cyclopropanation: Application to the Asymmetric Cyclopropanation of Alkenes with Diazo Reagents Bearing Two Carboxyl Groups. *Angew. Chem., Int. Ed.* **2008**, *47*, 10155-10158.
140. Barbe, G.; St-Onge, M.; Charette, A. B. Silverion-Induced Grob Fragmentation of γ -Amino Iodides: Highly Stereoselective Synthesis of Polysubstituted Piperidines. *Org. Lett.* **2008**, *10*, 5497-5499.
139. Bull, J. A.; Mousseau, J. J.; Charette, A. B. Convenient One-Pot Synthesis of (*E*)- β -Aryl Vinyl Halides from Benzyl Bromides and Dihalomethanes. *Org. Lett.* **2008**, *10*, 5485-5488.
138. Charette, A. B. Short Cuts to Complexity. *Nature* **2008**, *456*, 451-453. (Invited News and Views Article)
137. Pelletier, G.; Larivée, A.; Charette, A. B. Highly Regioselective Intermolecular Arylation of 1,2,3,4-Tetrahydropyridines. *Org. Lett.* **2008**, *10*, 4791-4794.
136. Barbe, G.; Charette, A. B. Total Synthesis of (+)-Lepadine B: Stereoselective Synthesis of Non-Racemic Polysubstituted Hydroquinolines Using a *RC-ROM* Process. *J. Am. Chem. Soc.* **2008**, *130*, 13873-13875.
135. Bull, J. A.; Charette, A. B. Improved Procedure for the Synthesis of *gem*-Diiodoalkanes by the Alkylation of Diiodomethane. Scope and Limitations. *J. Org. Chem.* **2008**, *73*, 8097-8100.
134. Legault, C. Y.; Charette, A. B.; Cozzi, P. G. Iridium Catalyzed Enantioselective Hydrogenation of *N*-Iminopyridinium Ylides: Mechanistic Insights. *Heterocycles* **2008**, *76*, 1271-1283 (Invited Contribution).
133. Lifchits, O.; Alberico, D.; Zakharian, I.; Charette, A. B. Nucleophilic Addition of Phenol Derivatives to Methyl 1-Nitrocyclopropanecarboxylates. *J. Org. Chem.* **2008**, *73*, 6838-6840.
132. Bonnaventure, I.; Charette, A. B. Probing the Importance of the Hemilabile Site of Bis(Phosphine) Monoxide

Ligands in the Copper-Catalyzed Addition of Diethylzinc to *N*-Phosphinoylimines: Discovery of New Effective Chiral Ligands. *J. Org. Chem.* **2008**, *73*, 6330-6340.

131. Lifchits, O.; Charette, A. B. A Mild Procedure for the Lewis Acid-Catalyzed Ring-Opening of Activated Cyclopropanes with Amine Nucleophiles. *Org. Lett.* **2008**, *10*, 2809-2812.
130. Desrosiers, J.-N.; Bechara, W. S.; Charette, A. B. Catalytic Enantioselective Addition of Diorganozinc Reagents to Vinyl Sulfones. *Org. Lett.* **2008**, *10*, 2315-2318. Corresponding author corrected in *Org. Lett.* **2008**, *10*, 4709-4709. (Additions/Corrections OL802157Q)
129. Charette, A. B.; Côté, A.; Desrosiers, J.-N.; Bonnaventure, I.; Lindsay, V. N. G.; Lauzon, C.; Tannous, J.; Boezio, A. A. New Methods in Asymmetric Catalysis Based on New Hemi-Labile Bidentate Ligands. *Pure. Appl. Chem.* **2008**, *80*, 881-890. (Invited Contribution)
128. Mousseau, J. J.; Larivée, A.; Charette, A. B. Palladium-Catalyzed Benzylic C–H Insertion of 2-Substituted *N*-Iminopyridinium Ylides. *Org. Lett.* **2008**, *10*, 1641-1643.
127. Ginisty, M.; Roy, M.-N.; Poupon, J.-C.; Picard, A.; Charette, A. B. Tetraarylphosphonium-Supported Carbodiimide Reagents: Synthesis, Structure Optimization and Applications. *J. Org. Chem.* **2008**, *73*, 2542-2547. Authors added in *J. Org. Chem.* **2008**, *73*, 6946-6946. (Additions/Corrections JO801495B)
126. Perreault, C.; Goudreau, S. R.; Zimmer, L. E.; Charette, A. B. Cycloadditions of Aromatic Azomethine Imines with 1,1-Cyclopropane Diesters. *Org. Lett.* **2008**, *10*, 689-692.
125. Côté, A.; Charette, A. B. General Method for the Expedient Synthesis of Salt-Free Diorganozinc Reagents Using Zinc Methoxide. *J. Am. Chem. Soc.* **2008**, *130*, 2771-2773.
124. Marcoux, D.; Charette, A. B. Palladium-Catalyzed Synthesis of Functionalized Tetraarylphosphonium Salts. *J. Org. Chem.* **2008**, *73*, 590-593.
123. Larivée, A.; Mousseau, J. J.; Charette, A. B. Palladium-Catalyzed Directed C–H Arylation of *N*-Iminopyridinium Ylides: Application to the Synthesis of (±)-Anabasine. *J. Am. Chem. Soc.* **2008**, *130*, 52-54.
122. Barbe, G.; Charette, A. B. Highly Chemoselective Metal-Free Reduction of Tertiary Amides. *J. Am. Chem. Soc.* **2008**, *130*, 18-19.

2007

121. Poupon, J.-C.; Marcoux, D.; Cloarec, J.-M.; Charette, A. B. Removal, Recovery, and Recycling of Triarylphosphonium Supported Tin Reagents for Various Organic Transformations. *Org. Lett.* **2007**, *9*, 3591-3594.
120. Desrosiers, J.-N.; Charette, A. B. Catalytic Enantioselective Reduction of β,β -Disubstituted Vinyl Phenyl Sulfones Using Bisphosphine Monoxide Ligands. *Angew. Chem., Int. Ed.* **2007**, *46*, 5955-5957.
119. Stazi, F.; Marcoux, D.; Poupon, J.-C.; Latassa, D.; Charette, A. B. Tetraarylphosphonium Salts as Soluble Supports for the Synthesis of Small Molecules. *Angew. Chem., Int. Ed.* **2007**, *46*, 5011-5014.
118. Moreau, B.; Ginisty, M.; Alberico, D.; Charette, A. B. Expedient Stereoselective Synthesis of Coronafacic Acid Through Intramolecular Diels-Alder Cyclization. *J. Org. Chem.* **2007**, *72*, 1235-1240.
117. Côté, A.; Lindsay, V. N. G.; Charette, A. B. Application of Chiral Bis(phosphine) Monoxide Ligand to Catalytic Enantioselective Addition of Dialkylzinc Reagents to β -Nitroalkenes. *Org. Lett.* **2007**, *9*, 85-87.

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116. Voituriez, A.; Charette, A. B. Enantioselective Cyclopropanation with TADDOL-Derived Phosphate Ligands. *Adv. Synth. Catal.* **2006**, *348*, 2363-2370.
115. Zoute, L.; Lacombe, C.; Quirion, J.-C.; Charette, A. B.; Jubault, P. Phosphonium Supported Triphenylphosphine Reagent: An Improved Access to α -Fluoro- α,β -Unsaturated Esters. *Tetrahedron Lett.* **2006**, *47*, 7931-7933. (jointly with the Jubault Group)
114. Larivée, A.; Charette, A. B. New Methodology Towards Chiral, Non-Racemic 2,5-*cis*-Substituted Piperidines via Suzuki Cross-Coupling. *Org. Lett.* **2006**, *8*, 3955-3957.
113. Focken, T.; Charette, A. B. Stereoselective Synthesis of Pyridinones: Application to the Synthesis of (–)-Barrenanzines. *Org. Lett.* **2006**, *8*, 2985-2988.
112. Lauzon, C.; Charette, A. B. Catalytic Asymmetric Synthesis of α,α,α -Trifluoromethyl Amines by the Copper Catalyzed Nucleophilic Addition of Diorganozinc Reagents to Imines. *Org. Lett.* **2006**, *8*, 2743-2745.
111. Poupon, J.-C.; Boezio, A. A.; Charette, A. B. Tetraarylphosphonium Salts as Novel Solubility Control Groups: Phosphonium Supported Triphenylphosphine and Azodicarboxylates Reagents. *Angew. Chem., Int. Ed.* **2006**, *45*, 1415-1420.
110. Desrosiers, J.-N.; Côté, A.; Boezio, A. A.; Charette, A. B. Preparation of Enantiomerically Enriched (1*S*)-1-Phenylpropan-1-amine Hydrochloride by a Catalytic Addition of Diorganozinc Reagents to Imines. *Org. Synth.* **2006**, *83*, 5-17. (Invited Contribution)
109. Côté, A.; Desrosiers, J.-N.; Boezio, A. A.; Charette, A. B. Preparation of Enantiomerically Pure (*R,R*)-BozPHOS. *Org. Synth.* **2006**, *83*, 1-4. (Invited Contribution)

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107. Sales, M.; Charette, A. B. A Diels-Alder Approach to the Stereoselective Synthesis of 2,3,5,6-Tetra- and 2,3,4,5,6-Pentasubstituted Piperidines. *Org. Lett.* **2005**, *7*, 5773-5776.
106. Côté, A.; Charette, A. B. Multicomponent One-Pot Procedure for the Synthesis of Free α -Chiral Amines from Aldehydes. *J. Org. Chem.* **2005**, *70*, 10864-10867.
105. Lauzon, C.; Desrosiers, J.-N.; Charette, A. B. Synthesis of *N*-Diphenylphosphinoylimines Using the Kresze Reaction. *J. Org. Chem.* **2005**, *70*, 10579-10580.
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103. Lin W.; Charette, A. B. Rhodium Catalyzed Asymmetric Intramolecular Cyclopropanation of Substituted Allylic Cyanodiazooacetates. *Adv. Synth. Catal.* **2005**, *347*, 1547-1552.
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101. Lacasse, M.-C.; Poulard, C.; Charette, A. B. Iodomethylzinc Phosphates: Powerful Reagents for Asymmetric Cyclopropanation of Alkenes. *J. Am. Chem. Soc.* **2005**, *127*, 12440-12441.
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e-EROS CONTRIBUTIONS

- ▶ Charette, A. B. Dihydroquinine Acetate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rd233.pub2].
- ▶ Charette, A. B. Dihydroquinidine Acetate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rd232.pub2].
- ▶ Charette, A. B. 10-Camphorsulfonyl Chloride. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rc009.pub2].
- ▶ Charette, A. B. (–)-(1*S*,4*R*)-Camphanic Acid. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rc007.pub2].
- ▶ Charette, A. B. Diiodomethane. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on March 15, 2009 [DOI: 10.1002/047084289X.rd240.pub2].
- ▶ Charette, A. B. Diisopropyl Methylsulfanyldifluoromethylphosphonate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on March 15, 2009 [DOI: 10.1002/047084289X.rm01022].
- ▶ Charette, A. B. Tetrabutylammonium Iodide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2008 [DOI: 10.1002/047084289X.rt018.pub2].
- ▶ Charette, A. B. Tetrabutylammonium Bromide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 17, 2007 [DOI: 10.1002/047084289X.rt011.pub2].
- ▶ Charette, A. B. Lithium Perchlorate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 17, 2007 [DOI: 10.1002/047084289X.rl134.pub2].
- ▶ Charette, A. B. Iodomethylzinc Iodide (First Update). In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 17, 2007 [DOI: 10.1002/047084289X.ri033.pub2].
- ▶ Charette, A. B. Lithium Iodide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2006 [DOI: 10.1002/047084289X.rl121.pub2].
- ▶ Charette, A. B. Lithium Bromide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A.; Crich, D; Fuchs, P. L.; Molander, G. A. (Eds.); Wiley: Chichester. Published online on April 15, 2006 [DOI: 10.1002/047084289X.rl062.pub2].
- ▶ Charette, A. B. Samarium(II) Iodide (First Update). In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on October 15, 2005 [DOI: 10.1002/047084289X.rs004.pub2].
- ▶ Charette, A. B. *m*-Chloroperbenzoic Acid (First Update). In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on October 15, 2005 [DOI: 10.1002/047084289X.rc140.pub2].
- ▶ Charette, A. B. Methylenetriphenylphosphorane, Polystyrene-supported. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2004 [DOI: 10.1002/047084289X.rm00492].
- ▶ Charette, A. B. (S)-(–)-*N*-(2,2′)-Dimethylpropionyl)-2-[(diphenylphosphino)methyl]pyrrolidine. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2003 [DOI: 10.1002/047084289X.rm00220].
- ▶ Charette, A. B. (S)-3,3-Diphenyl-1-[trimethylsilylmethyl]tetrahydro-1*H*,3*H*-pyrrolo[1,2-*c*][1,3,2]oxazaborole. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2003 [DOI: 10.1002/047084289X.rm00202].

- ▶ Charette, A. B. (*R,R*)-2-Butyl-4,5-bis(dimethylaminocarbonyl)-1,3-dioxaborolane. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2002 [DOI: 10.1002/047084289X.rm00044].
- ▶ Charette, A. B. Tetramethylammonium Bromide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2001 [DOI: 10.1002/047084289X.rt056].
- ▶ Charette, A. B. 3-Bromocamphor-8-sulfonic Acid. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2001 [DOI: 10.1002/047084289X.rb283].

PATENTS

- ▶ Austad, B.; Behnke, M. L.; Castro, A. C.; Charette, A. B.; Grogan, M. J.; Janardanannair, S.; Lescarbeau, A.; Peluso, S.; Tremblay, M. R. Cyclopamine Analogs. Published on July 10, 2008 (WO2008083248).
- ▶ Charette, A. B.; Côté, A. Methods for Preparing Diorganozinc Compounds. Published on November 13, 2008 (WO 2008134890).
- ▶ Charette, A. B.; Poupon, J.-C.; Boezio, A. A. Phosphonium Salt Derivatives and Their Use as Solubility Controlling Auxiliaries. Published on October 20, 2005 (WO 2005097812).

INVITED PROFESSORSHIPS

Université Claude Bernard Lyon 1, Lyon, France — **March 2013**

JSPS Fellowship, Japan — **February 2009**

IRCOF-INSA, Université de Rouen, Mont Saint-Aignan, France — **October/November 2008**

Université Louis Pasteur, Strasbourg, France — **May 2005**

Université Pierre et Marie Curie, Paris, France — **April 2001**

Beijing Medical University, Beijing, China — **October 2000**

INVITED LECTURES

▶ **Total to date: 260**

2013 ACS North East Regional Meeting (NERM), New Haven, CT, Oct. 23-26.

Université de Bordeaux 1, Bordeaux, France, June 26.

Mini-Symposium on Green Chemistry, Univ. Federal do Paraná, Curitiba, Brazil, May 15.

Mini-Symposium on Green Chemistry, Univ. Estadual de Campinas, Campinas, Brazil, May 13.

Bayer S.A.S., Lyon, France, Apr. 4.

Novartis Pharma AG, Basel, Switzerland, Mar. 26.

Univ. Claude Bernard Lyon 1, Lyon, France, Mar. 14, Mar. 21 and Mar. 28.

Univ. d'Orléans, Orléans, France, Mar. 19.

Univ. de Rouen, Rouen, France, Mar. 18.

Univ. de Marseille, Marseille, France, Mar. 15.

2012 Univ. Geneva, Geneva, Switzerland, Dec. 14.

École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, Dec. 13.

Gilead Sciences, Foster City, CA, Oct. 11.

Theravance, South San Francisco, CA, Oct. 10.

Groupe d'Études en Chimie Organique (GECO-53), Sévrier, France, Aug. 26-31.

Balticum Organicum Syntheticum 2012 (BOS-2012), Tallinn, Estonia, Jul. 1-4.

Cegep Bois-de-Boulogne, Montreal, QC, Feb. 3.

2011 Alphora Research, Mississauga, ON, Nov. 11.

60th Natural Products Gordon Research Conference, Bryant Univ., Smithfield, RI, Jul. 24-29.

Lundbeck Research USA Inc., Paramus, NJ, Jun. 16.

94th CSC Conference, Montreal, QC, Jun. 5-9.

Collège Ahunatic, Montreal, QC, Mar. 31.

Queen's Univ., Kingston, ON, Feb. 9.

2010 Galderma R&D, Sofia-Antipolis, France, Nov. 19.

Johnson & Johnson PRD, San Diego, CA, Oct. 21.

First China Canada Bilateral Symposium on Catalysis, Kunming, China, Oct. 7-11.

Massachusetts Institute of Technology (Bristol-Myers Squibb Lecturer), Cambridge, MA, Mar. 25.
239th ACS Meeting, San Francisco, CA, Mar. 21-24.
Schulich Symposium on New Concepts in Organic Synthesis, Haifa, Israel, Jan. 24.
Tel Aviv Univ., Tel Aviv, Israel, Jan. 20.
Weizmann Institute of Science, Rehovot, Israel, Jan. 19.
Technion-Israel Institute of Technology, Israel, Jan. 18.

- 2009** Sepracor, Marlborough, MA, Sep. 28.
Univ. of Waterloo, Waterloo, ON, Aug. 20.
OMCOS-15, Glasgow, Scotland, UK, Jul. 26-30.
Univ. de Sherbrooke, Sherbrooke, QC, Jul. 6.
92nd CSC Conference, Hamilton, ON, May 30-Jun. 3.
Merck, Rahway, NJ, May 27.
Modern Synthetic Methods & Chiral USA Conference, Chicago, IL, May 11-13.
Univ. of Victoria, Victoria, BC, Mar. 26.
Simon Fraser Univ., Burnaby, BC, Mar. 25.
Univ. of British Columbia, Vancouver, BC, Mar. 24.
Pittcon Conference & Expo, Chicago, IL, Mar. 8-13.
Univ. of Tokyo, Tokyo, Japan, Feb. 13.
Tokyo Institute of Technology, Tokyo, Japan, Feb. 12.
Hokkaido Univ., Hokkaido, Japan, Feb. 9.
Kumamoto Univ., Kumamoto, Japan, Feb. 6.
Kyushu Univ., Kyushu, Japan, Feb. 5.
Osaka Univ., Osaka, Japan, Feb. 4.
Kyoto Univ. (Katsura Campus), Kyoto, Japan, Feb. 3.
Kyoto Univ., Kyoto, Japan, Feb. 2.
- 2008** Univ. de Rennes, Rennes, France, Dec. 5.
Institut de recherche Servier, Suresnes, France, Dec. 4.
IRCOF-INSA de Rouen, Mont Saint-Aignan, France, Nov. 21.
Boston Univ., Boston, MA, Nov. 3.
ACS ProSpectives Conference, Philadelphia, PA, Oct. 26-28.
Univ. München, Munich, Germany, Oct. 21.
Univ. de Caen, Caen, France, Oct. 17.
Janssen-Cilag, Val-de-Reuil, France, Oct. 16.
Univ. Pierre et Marie Curie, Paris VI, Paris, France, Oct. 13.
IRCOF-INSA de Rouen, Mont Saint-Aignan, France, Oct. 10.
Pfizer, Groton, CT, Oct. 1.
Indiana Univ.-Purdue Univ. Indianapolis, Indianapolis, IN, Sep. 24.
20th International Symposium on Chirality (ISCD-20), Geneva, Switzerland, Jul. 6-9.
ACS North East Regional Meeting (NERM), Burlington, VT, Jun. 29-Jul. 2.
GlaxoSmithKline, Verona, Italy, Jun. 16.
Amgen, Cambridge, MA, Jun. 6.
91st CSC Conference, Edmonton, AB, May 24-28.
9th Organic Workshop for Leading Young Canadian Chemists, Hinton, AB, May 21-24.
Hoffmann-La Roche, Nutley, NJ, May 15.
- 2007** Xenon Pharmaceuticals, Burnaby, BC, Oct. 23.
First International Conference on SFC, Pittsburgh, PA, Sep. 23-25.
234th ACS Meeting, Boston, MA, Aug. 19-23.
OMCOS-14, Nara, Japan, Aug. 2-6.
AstraZeneca R&D Montréal, St-Laurent, QC, Jun. 20.
Synthesis Day, Ottawa, ON, Jun. 18.
Bristol-Myers Squibb, New Brunswick, NJ, Jun. 14.
8th Symposium on Carbanion Chemistry, Univ. Wisconsin, Madison, WI, Jun. 6-10.
90th CSC Conference, Winnipeg, MB, May 26-30.
Amgen, Thousand Oaks, CA, May 11.

Univ. of California-Santa Barbara, CA, May 10.
Univ. of Toronto, ON, Feb. 21.
GlaxoSmithKline, King of Prussia, PA, Jan. 12.

2006 Univ. Laval, Quebec City, QC, Dec. 15.
Merck & Co., West Point, PA, Nov. 7.
Univ. of Saskatchewan, Saskatoon, SK, Oct. 3.
Genentech, San Francisco, CA, Sep. 15.
Gordon Research Conference on Stereochemistry, Salve Regina College, Newport, RI, Jun. 18-23.
89th CSC Conference, Halifax, NS, May 27-31.
74^e Congrès de l'ACFAS, Montreal, QC, May 15-19.
Univ. of Rochester (Kende Distinguished Lectures), Rochester, NY, Feb. 27-Mar. 2.

2005 Pacificchem, Honolulu, HI, Dec. 15-20.
University College London, London, United Kingdom, Dec. 6.
Univ. of Cambridge, Cambridge, United Kingdom, Dec. 5.
GlaxoSmithKline (Stevenage, Harlow, Tonbridge research sites), United Kingdom, Dec. 1-2.
McGill Univ., Montreal, QC, Nov. 29.
IRCOF-INSA de Rouen, Mont Saint-Aignan, France, Oct. 18.
Univ. Mulhouse, Mulhouse, France, Oct. 20.
Univ. Strasbourg, Strasbourg, France, Oct. 21.
Univ. Nancy, Nancy, France, Oct. 26.
Univ. Reims, Reims, France, Oct. 28.
Merck Symposium, UC Irvine, CA, Sep. 17.
230th ACS National Meeting, Washington, DC, Aug. 28-Sep. 1.
Gilead Sciences, Foster City, CA, Jun. 16.
88th CSC Conference, Saskatoon, SK, May 28-Jun. 1.
Infinity Pharmaceuticals, Cambridge, MA, Apr. 25.
Boston College, Boston, MA, Apr. 5.
Univ. at Buffalo (State Univ. of New York), Buffalo, NY, Jan. 26.
Univ. of Pennsylvania, Philadelphia, PA, Jan. 24.

2004 Dalhousie Univ., Halifax, NS, Dec. 3.
Georg-August-Univ. Göttingen, Göttingen, Germany, Nov. 14.
Univ. Basel, Basel, Switzerland, Nov. 17.
Univ. Strasbourg, Strasbourg, Nov. 19.
Boehringer Ingelheim Pharma GmbH, Biberach, Germany Nov. 22.
ACS North East Regional Meeting (NERM), Rochester, NY, Nov. 1-2.
3rd International Boehringer Ingelheim Chemistry Meeting, Mont-Tremblant, QC, Oct. 18-20.
Univ. of Alberta, Edmonton, AB, Sep. 27.
26th Gulf Coast Conference, Pensacola, FL, Sep. 9-11.
IUPAC ICOS-15, Nagoya, Japan, Aug. 1-6.
Univ. of Tokyo, Tokyo, Japan, Jul. 8.
Osaka Prefecture Univ., Osaka, Japan, Jul. 7.
Nara Institute of Science and Technology (NAIST), Nara, Japan, Jul. 6.
ISIS 2004, Hyogo, Japan, Jul. 4-5.
Univ. of Calgary, Calgary, AB, Jun. 29.
Boehringer Ingelheim Pharma, Biberach, Germany, Jun. 15.
French-American Chemical Society Symposium (FACS X), Charleston, SC, Jun. 6-10.
North Jersey ACS Spring Symposium, Rutgers Univ., New Brunswick, NJ, May 27.
Univ. of Illinois at Urbana-Champaign (Bristol-Myers Squibb Lecturer), Urbana, IL, Apr. 22.
California Institute of Technology, Pasadena, CA, Mar. 3.
Johnson & Johnson Pharmaceuticals, Raritan, NJ, Feb. 6.

2003 Queen's Univ., Kingston, ON, Nov. 28.
Utrecht Univ., Utrecht, The Netherlands, Oct. 23-24.
Paul Walden 3rd Symposium on Organic Chemistry, Riga, Latvia, Oct. 13-14.
Gordon Conference on Organic Reactions & Processes, Bristol, RI, Jul. 20-25.
Serono Reproductive Biology Institute, Rockland, MA, Jun. 10.

2002 COST D12 Workshop, Arcachon, France, Sep. 25-30.
Prestigious Novartis Chemistry Lectureships in Europe (Horsham, Vienna, Basel), Sep. 20-25.
Boehringer Ingelheim, Vienna, Austria, Aug. 23.

Syngenta, Basel, Switzerland, Aug. 22.
Schering-Plough Research Institute, Kenilworth, NJ, Jun. 20.
Gordon Conference on Stereochemistry, Salve Regina Univ., Newport, RI, Jun. 9-14.
AnorMED, Langley, BC, Jun. 6.
85th CSC Conference, Vancouver, BC, Jun. 1-6.
223rd ACS National Meeting, Orlando, FL, Apr. 7-11.
Univ. de Nice Sophia Antipolis, Nice, France, Apr. 4-5.
Sepracor/IBC 3rd International Symposium on New Synthetic Methods, Naples, FL, Mar. 11-13.
ETH Hönggerberg, Zurich, Switzerland, Jan. 30.
Univ. Tübingen, Germany, Jan. 22.
Univ. Stuttgart, Germany, Jan. 21.

2001 Forum Innovation, ADRIQ, Montreal, QC, Nov. 22.
Univ. of Ottawa, ON, Nov. 16.
Merck, Rahway, NJ, Nov. 7.
DSM Research, Geleen, The Netherlands, Sep. 11.
GECO 42, Batz-sur-Mer, France, Sep. 2-7.
9th Brazilian Meeting on Organic Synthesis, Curitiba, Brazil, Aug. 20-24.
Aventis, Bridgewater, NJ, Jun. 20.
École Polytechnique, Palaiseau, France, Apr. 27.
Ludwig Maximilians Univ., Munich, Germany, Apr. 23.
ICSN, Gif-sur-Yvette, France, Apr. 5.
Univ. d'Orsay, France, Apr. 3.
Univ. Pierre et Marie Curie, Paris VI, Paris, France, Apr. 2.
Colorado State Univ. (Roche Lecturer), Fort Collins, CO, Mar. 19.
Roche, Nutley, NJ, Feb. 8.
Univ. of Victoria (Merck Frosst Lecturer), Victoria, BC, Jan. 18.

2000 Pacificchem, Honolulu, HI, Dec. 14-19.
Wyeth-Ayerst, Pearl River, NY, Nov. 10.
Medical Univ. of Beijing, China, Oct. 16-26.
Boehringer Ingelheim Pharma, Biberach, Germany, Sep. 26.
Miscellaneous Plenary Lectures in Switzerland (5), Sep. 17-22.
AstraZeneca R&D Montréal, St-Laurent, QC, Aug. 2.
Boehringer Ingelheim, Ridgefield, CT, Jul. 25.
Boehringer Ingelheim, Laval, QC, Jun. 13.
83rd CSC Conference, Calgary, AB, May 27-31.
Ohio State Univ. (Hoechst Marion Roussel Lecturer), Columbus, OH, May 25.
National Natural Science Foundation of China, Beijing, China, May 11-22.
35th Euchem Conference on Stereochemistry, Bürgenstock, Switzerland, Apr. 29-May 5.
Pharmacia-Upjohn, Kalamazoo, MI, Apr. 2.
Univ. of Minnesota, Rochester, MN, Mar. 24.
Univ. of North Dakota, Grand Forks, ND, Mar. 23.
Montana State Univ., Bozeman, MT, Mar. 10.

1999 Merck, West Point, PA, Nov. 18.
Yale Univ., New Haven, CT, Nov. 17.
McGill Univ., Montreal, QC, Nov. 5.
Univ. of Rochester, Rochester, NY, Oct. 22.
Emory Univ., Atlanta, GA, Oct. 20.
Purdue Univ., West Lafayette, IN, Oct. 5.
Indiana Univ., Bloomington, IN, Oct. 4.
BP Amoco Chemicals, Suburby, England, Jul. 1.
Bio-Méga/BIR, Laval, QC, Jun. 17.
82nd CSC Conference, Toronto, ON, Jun. 2.
BP Amoco Chemicals, Chicago, IL, May 20.
67^e Congrès de l'ACFAS, Ottawa, ON, May 10.
SISOUM, Univ. de Montréal, Montreal, QC, Apr. 15.
Sepracor, Marlborough, MA, Mar. 29.
Tanabe Research Laboratories, San Diego, CA, Mar. 5.

1998 Harvard Univ., Cambridge, MA, Nov. 30.
York Univ., North York, ON, Nov. 19.

8th Symposium on the Latest Trends in Organic Synthesis, Gainesville, FL, Oct. 28-Nov. 1.
Univ. of Toronto, Toronto, ON, Sep. 18.
Univ. Louis Pasteur, Strasbourg, France, Sep. 11.
Belgium Organic Synthesis Symposium, Louvain-la-Neuve, Belgium, Jul. 5-8.
81st CSC Conference, Whistler, BC, May 31-Jun. 4.
Syntex/Roche Symposium in Organic Synthesis, Colorado Univ., Boulder, CO, May 20.
66^e Congrès de l'ACFAS, Quebec City, QC, May 12.
Bio-Méga/BIR, Laval, QC, May 5.
Bristol-Myers Squibb, Princeton, NJ, Mar. 16.
Univ. of California, Irvine, CA, Mar. 4.
Ligand Pharmaceuticals, San Diego, CA, Mar. 3.
Merck Frosst, Kirkland, QC, Jan. 26.
7th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Pakistan, Dec. 28-Jan. 2.

- 1997** Entretiens Jacques Cartier, Lyon, France, Dec. 8-11.
Univ. de Namur, Namur, Belgium, Dec. 5.
Univ. Libre de Bruxelles, Bruxelles, Belgium, Dec. 4.
École Polytechnique, Palaiseau, France, Dec. 3.
Société Française de Chimie, Paris, France, Dec. 2.
5th Chemical Congress of North America, Cancun, Mexico, Nov. 11-15.
Boehringer Ingelheim, Ridgefield, CT, Sep. 18.
80th CSC Conference, Waterloo, ON, Jun. 8.
Univ. Pierre et Marie Curie, Paris, France, May 20.
Miscellaneous Lectures in Switzerland (Lausanne, Geneva, Fribourg, Neuchâtel), May 2-12.
Merck, Rahway, NJ, Apr. 24.
- 1996** Rohm & Haas, Spring House, PA, Dec. 5.
Simon Fraser Univ., Burnaby, BC, Oct. 23.
Pfizer, Groton, CT, Oct. 11.
Gordon Research Conference on Heterocycles, Holderness, NH, Jul. 7-12.
Dartmouth College, Hanover, NH, May 29.
64^e Congrès de l'ACFAS, Montreal, QC, May 13-17.
Abbott Symposium on Asymmetric Synthesis, Chicago, IL, Apr. 29.
Eli Lilly Symposium, Indianapolis, IN, Mar. 4-5.
- 1995** Pacificchem, Honolulu, HI, Dec. 17-22.
Gordon Research Conference on Natural Products, New England College, Henniker, NH, Jul. 2-8.
78th CSC Conference, Waterloo, ON, Jun. 12.
McGill Univ., Montreal, QC, Jan. 10.
- 1994** Univ. of Alberta, Edmonton, AB, Nov. 28.
Univ. of British Columbia, Vancouver, BC, Nov. 25.
Univ. of Victoria, Victoria, BC, Nov. 27.
École Polytechnique, Palaiseau, France, Jun. 30.
ICSN, Gif-sur-Yvette, France, Jun. 28.
Eli Lilly, Indianapolis, IN, Jun. 20.
Univ. of Rochester, NY, Mar. 25.
Sandoz Research Institute, East Hanover, NJ, Feb. 7.
- 1993** Univ. of Toronto, Toronto, ON, Nov. 22.
Gordon Research Conference on Organic Reactions & Processes, New Hampton, NH, Jul. 12-16.
24th NSF Workshop on Organic Synthesis, Aspen, CO, Jun. 20-24.
76th CSC Conference, Sherbrooke, QC, May 31.
205th ACS National Meeting, Denver, CO, Apr. 1.
Univ. of Western Ontario, London, ON, Jan. 27.
- 1992** 9th IUPAC Symposium on Organic Synthesis, Montreal, QC, Jul. 1.
6 invitations before 1992.

PROFESSIONAL AFFILIATIONS

- 2011-** Réseau québécois de recherche sur les médicaments (RQRM)
2009- Centre in Green Chemistry and Catalysis (CGCC)
2007- Royal Society of Canada (RSC)
2003- Groupe de Recherche Universitaire sur le Médicament (GRUM)
1995- American Association for the Advancement of Science (AAAS)

1990- Ordre des chimistes du Québec
1984- American Chemical Society (ACS)
1984- Chemical Institute of Canada (CIC)

PROFESSIONAL ACTIVITIES

▶ Industrial Consultations

▶ Yearly Consultations

Galderma R&D — 2010-2013
Boehringer Ingelheim (Canada) Ltd. — 1999-2012
Genentech Inc. — 2012
Santai Labs Inc. — 2011-2012
SolPhase Inc. — 2007-2010
Infinity Pharmaceuticals Inc. — 2005-2006
MIGENIX Inc. (Scientific Advisory Board Member) — 2003-2004
Teratechnologies Inc. — 2001-2002
Silicycle Inc. (Scientific Advisory Board Member) — 1998-2001
BP/Amoco — 1999-2000

▶ One-Time Consultations

Bayer S.A.S., Lyon, France — 2013
Novartis Pharma AG, Basel, Switzerland — 2013
Gilead Sciences Inc., Foster City, CA — 2012
Theravance Inc., Foster City, CA — 2012
Alphora Research Inc., Mississauga, ON — 2011
Lundbeck Research USA Inc., Paramus, NJ — 2011
Galderma R&D, Sofia-Antipolis, France — 2010
Johnson & Johnson PRD, San Diego, CA — 2010
Sepracor Inc., Marlborough, MA — 2009
Merck & Co., Rahway, NJ — 2009
Pfizer Inc., Groton, CT — 2008
Amgen Inc., Cambridge, MA — 2008
Hoffmann-La Roche Inc., Nutley, NJ — 2008
Amgen Inc., Thousand Oaks, CA — 2007
Genentech Inc., San Francisco, CA — 2007
Bristol-Myers Squibb Co., New Brunswick, NJ — 2007
Merck & Co., West Point, PA — 2006
Gilead Sciences Inc., Foster City, CA — 2005
Cintech Agroalimentaire, Ste-Hyacinthe, QC — 2004
Boehringer Ingelheim Pharma GmbH, Biberach, Germany — 2004
Serono Reproductive Biology Institute, Rockland, MA — 2003
Boehringer Ingelheim Austria GmbH, Vienna, Austria — 2002
AnorMED Inc., Burnaby, BC — 2002
Merck & Co., Rahway, NJ — 2001

▶ Consultations as Expert Witness

Gowling Lafleur Henderson LLP Law Firm, Toronto, ON — 2011-2012
Smart & Biggar Fetherstonhaugh Law Firm, Toronto, ON — 2006-2009
Ogilvy-Renaud S.E.N.C.R.L., s.r.l. Law Firm, Montreal, QC — 2004-2006

▶ Editorial Committees

Member of the Editorial Board, *Encyclopedia of Reagents for Organic Synthesis (e-EROS)* — 2009-
Member of the Advisory Editorial Board, *Synlett, Synthesis* — 2009-
Member of the Board of Editors, *Organic Reactions* — 2001-2013

Volume Editor, *Science of Synthesis*, Vol. 22 — **2001-2005**

Volume Editor, *Handbook of Reagents for Organic Synthesis*, Volume entitled Reagents for Heteroarene Synthesis and Functionalization — **2011-2012**

Associate Editor, *Can. J. Chem.* (French Edition, Organic Chemistry) — **1997-2009**

Associate Editor, *Molecules Online*, Springer-Verlag — **1997-1999**

▶ **Organizing Committees**

Organizer, CGCC Fourth Annual Conference, Univ. Montréal (Montreal, QC) — **2012**

Symposium Organizer, 80^e Congrès de l'ACFAS (Montreal, QC) — **2012**

Organizer, CGCC Third Annual Conference, Univ. Laval (Quebec City, QC) — **2011**

Symposium Organizer, 94th CSC Conference (Montreal, QC) — **2011**

Technical Program Organizer, Pacifichem (Honolulu, HI) — **2010**

Organizer, CGCC Second Annual Conference, McGill Univ. (Montreal, QC) — **2010**

Symposium Organizer, 78^e Congrès de l'ACFAS (Montreal, QC) — **2010**

Organizer, CGCC First Annual Conference, Univ. Montréal (Montreal, QC) — **2009**

Organizer, 15^e Entretiens du Centre Jacques Cartier (Lyon, France) — **2002**

Organic Division Organizer, 84th CSC Conference (Montreal, QC) — **2001**

Member of the Executive Committee, CSC Organic Chemistry Division — **1999-2003**

Symposium Organizer, Pacifichem (Honolulu, HI) — **2000**

Organizer, 13^e Entretiens du Centre Jacques Cartier (Montreal, QC) — **2000**

▶ **Evaluation Committees**

AERES: Evaluation of UPR 2301 Research Center, ICSN, Gif-sur-Yvette, France — **Jan. 2009**

AERES: Evaluation of 4 CNRS Research Centers, Paris, France — **Jan. 2008**

NSERC Circle: Evaluation of Funding Allocation System for Chemistry, Edmonton, AB — **Oct. 2001**

NSERC (Collaborative R&D Grants): On-Site Visit, York Univ., Toronto, ON — **Jun. 2006**

▶ **Selection Committees**

Advisory Committee on University-Industry Grants, NSERC — **2010-2013**

Prix Marie-Victorin, Government of Québec — **2010-2011**

Prix Urgel-Archambault, ACFAS — **2009**

Election of New Fellows, Academy of Science, Royal Society of Canada — **2008-2009**

Excellence in Chemistry Award, AstraZeneca — **2007**

Thieme/IUPAC Prize in Synthetic Organic Chemistry — **2006, 2012**

Gerhard Herzberg Gold Medal, NSERC — **2006**

International Science and Technology Center, NSERC — **2005**

Senior Research Fellowship, Croucher Foundation (Hong Kong) — **2005**

Competitive Earmarked Research Grant, Research Grant Council (Hong Kong) — **2005**

E.W.R. Steacie Fellowship, NSERC — **2004-2005**

Alfred Bader Award, CSC — **2004**

Ichikizaki Fund for Young Chemists, CSC — **2003**

New Opportunities Fund, CFI — **2002**

FQRNT Grant — **2001-2003**

Cottrell Scholar Award, Research Corporation (USA) — **2000-2002**

Canada Research Chair, NSERC — **2000-2001**

NSERC Grant (Committe 024) — **1999-2002**

FCAR Action Concertée Grant (Combinatorial Chemistry) — **1998**

FCAR Équipe Grant — **1994-1995, 2002**

FCAR Grant — **1993-1994, 1998-1999**

▶ **Departmental Administrative Positions**

Organizer, Conference Program in Organic Chemistry — **1992-1997, 2003-**

Member, Organic Faculty Promotion Committee — **1996-**

President, NMR Laboratory Committee — 2005-

Member, Evaluation Committee of the Department of Chemistry — 2003-2005

Member, Selection Committee for the Nomination of a New Chemistry Chair — 2001-2002

Manager, Laboratory of Elemental Analysis — 1996-1999

COURSE ASSIGNMENTS

▶ Courses at Université de Montréal

▶ Graduate Courses

CHM 6315—Stereoselective Synthesis — 1996-

CHM 6310—Stereoselective Synthesis — 1994-1995

▶ Undergraduate Courses

CHM 3320—Methods in Organic Synthesis — 2002-

CHM 1312—Organic Chemistry 1B — 1994-2000

CHM 2310—Identification of Organic Substances — 1993-1999

CHM 3550—Research Project — 1996

CHM 2310—Identification of Organic Substances — 1993-1995

CHM 2310—Identification of Organic Substances — 1993

CHM 1977—Laboratory Sessions — 1993

▶ Courses for Pharmaceutical Industry

Galderma R&D, Sofia-Antipolis, France — Nov. 2010

▶ Title: Nouveaux développements récents dans le domaine des réactions de couplage (1/2 day).

Xenon Pharmaceuticals Inc., Burnaby, BC — Oct. 2007

▶ Title: Stereoselective Synthesis of Organic Compounds (1 day).

MethylGene Inc., Montreal, QC — May 2002

▶ Title: Recent Developments in Stereoselective C-C Bond Forming Reactions (1 day).

Boehringer Ingelheim (Canada) Ltd., Laval, QC — May 2001

▶ Title: Recent Developments in Stereoselective C-C Bond Forming Reactions (2 days).

TRAINING OF HIGHLY QUALIFIED PERSONNEL

▶ **Currently:** 2 Postdoctoral Fellows; 5 Ph.D. Students; 5 M.Sc. Students; 2 Work Term Interns.

▶ **Formerly:** 36 Postdoctoral Fellows; 30 Ph.D. Students; 76 M.Sc. Students; 81 Work Term Interns.

CONFERENCE PROCEEDINGS

Over the years, the group members have presented various talks or posters during national and international conferences. Below are the names and dates of all conference proceedings attended to this date.

- ▶ 96th Canadian Chemistry Conference and Exhibition, Quebec City, QC, May 26-30, 2013
- ▶ 4th Annual Meeting of the Centre in Green Chemistry and Catalysis (CGCC), Montreal, QC, May 10, 2012
- ▶ 80^e Congrès de l'ACFAS, Montreal, QC, May 7-11, 2012
- ▶ 243rd ACS National Meeting, San Diego, CA, Mar. 25-29, 2012
- ▶ 8th CRC International Symposium on Organometallics & Catalysis, Toronto, ON, Feb. 4, 2012
- ▶ 3rd Annual Meeting of the Centre in Green Chemistry and Catalysis (CGCC), Quebec City, QC, Dec. 9, 2011
- ▶ 22nd Québec-Ontario Minisymposium in Synthetic and Bio-Organic Chemistry (QOMSBQC), Montreal, QC, Nov. 11-13, 2011
- ▶ 94th Canadian Chemistry Conference and Exhibition, Montreal, QC, Jun. 5-9, 2011
- ▶ 241st ACS National Meeting, Anaheim, CA, Mar. 27-31, 2011
- ▶ Pacificchem, Honolulu, HI, Dec. 15-20, 2010
- ▶ 2nd Annual Meeting of the Centre in Green Chemistry and Catalysis (CGCC), Montreal, QC, Dec. 6, 2010
- ▶ 240th ACS National Meeting, Boston, MA, Aug. 22-26, 2010
- ▶ 93rd Canadian Chemistry Conference (CSC), Toronto, ON, May 29-Jun. 2, 2010
- ▶ 78^e Congrès de l'ACFAS, Montreal, QC, May 10-13, 2010
- ▶ Keith Fagnou Organic Chemistry Symposium (KFOS), Ottawa, ON, May 5-7, 2010

- ▶ 1st Annual Meeting of the Centre in Green Chemistry and Catalysis, Montreal, QC, Dec. 11, 2009
- ▶ 12th Annual Chemistry & Biochemistry Graduate Research Conference, Montreal, QC, Nov. 20-21, 2009
- ▶ 20th Québec-Ontario Minisymposium (QOMSBOC), Quebec City, QC, Oct. 30-Nov. 1, 2009
- ▶ 238th ACS National Meeting, Washington, DC, Aug. 16-20, 2009
- ▶ 92nd Canadian Chemistry Conference and Exhibition, Hamilton, ON, May 30-Jun. 3, 2009
- ▶ 77^e Congrès de l'ACFAS, Ottawa, ON, May 13-14, 2009
- ▶ 19th Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, Nov. 7-9, 2008
- ▶ AstraZeneca Chemistry Symposium, AstraZeneca R&D Montréal, Montreal, QC Oct. 3, 2008
- ▶ 236th ACS National Meeting, Philadelphia, PA, Aug. 17-21, 2008
- ▶ ACS North East Regional Meeting (NERM), Burlington, VT, Jun. 29-Jul. 2, 2008
- ▶ French-American Chemical Society Symposium (FACS XII), Santa Barbara, CA, Jun. 8-12, 2008
- ▶ 91st Canadian Chemistry Conference (CSC), Edmonton, AB, May 24-28, 2008
- ▶ 235th ACS National Meeting, New Orleans, LA, Apr. 6-10, 2008
- ▶ 18th Québec-Ontario Minisymposium (QOMSBOC), Montreal, QC, Nov. 9-11 2007
- ▶ 234th ACS National Meeting, Boston, MA, Aug. 19-23, 2007
- ▶ OMCOS-14, Nara, Japan, Aug. 2-6, 2007
- ▶ 90th Canadian Chemistry Conference, Winnipeg, MB, May 26-30, 2007
- ▶ 17th Québec-Ontario Minisymposium (QOMSBOC), London, ON, Nov. 3-5, 2006
- ▶ 232th ACS National Meeting, San Francisco, CA, Sep. 10-14, 2006
- ▶ Gordon Research Conference on Stereochemistry, Newport, RI, Jun. 18-23, 2006
- ▶ 89th Canadian Chemistry Conference (CSC), Halifax, NS, May 27-31, 2006
- ▶ 74^e Congrès de l'ACFAS, Montreal, QC, May 15-19, 2006
- ▶ 3^e Symposium des étudiants gradués en chimie, Univ. Montréal, Montreal, QC, Mar. 21, 2006
- ▶ Pacifichem, Honolulu, HI, Dec. 15-20, 2005
- ▶ 16th Québec-Ontario Minisymposium (QOMSBOC), St-Adèle, QC, Nov. 11-13, 2005
- ▶ 230th ACS National Meeting, Washington, DC, Aug. 28-Sep. 1, 2005
- ▶ 88th Canadian Chemistry Conference (CSC), Saskatoon, SK, May 28-Jun. 1, 2005
- ▶ 4^e Symposium international de l'Université de Montréal (SISOUM), Montreal, QC, Apr. 28-29, 2005
- ▶ 229th ACS National Meeting, San Diego, CA, Mar. 13-17, 2005
- ▶ Informex, Las Vegas, NV, Jan. 17-20, 2005
- ▶ 15th Québec-Ontario Minisymposium (QOMSBOC), Ottawa, ON, Nov. 5-7, 2004
- ▶ North East Regional Meeting (NERM), Rochester, NY, Nov. 1-2, 2004
- ▶ 228th ACS National Meeting, Philadelphia, PA, Aug. 22-26, 2004
- ▶ Bayer Workshop, New Haven, CT, Jun. 11-13, 2004
- ▶ French-American Chemical Society Symposium (FACS X), Charleston, SC, Jun. 6-10, 2004
- ▶ 87th Canadian Chemistry Conference (CSC), London, ON, May 29-Jun. 1, 2004
- ▶ 72^e Congrès de l'ACFAS, Montreal, QC, May 10-14, 2004
- ▶ 227th ACS National Meeting, Anaheim, CA, Mar. 28-Apr. 1, 2004
- ▶ 14th Québec-Ontario Minisymposium (QOMSBOC), Montreal, QC, Dec. 5-7, 2003
- ▶ 39th IUPAC Congress/86th CSC Conference, Ottawa, ON, Aug. 10-15, 2003
- ▶ OMCOS-12, Toronto, ON, Jul. 6-10, 2003
- ▶ 225th ACS National Meeting, New Orleans, LA, Mar. 22-27, 2003
- ▶ 15^e Entretiens Jacques Cartier, Lyon, France, Dec. 9-11, 2002
- ▶ 85th Canadian Chemistry Conference (CSC), Vancouver, BC, Jun. 1-6, 2002
- ▶ 70^e Congrès de l'ACFAS, Quebec City, QC, May 13-17, 2002
- ▶ 3^e Symposium international de l'Université de Montréal (SISOUM), Montreal, QC, May 2-4, 2002
- ▶ 223rd ACS National Meeting, Orlando, FL, Apr. 7-11, 2002
- ▶ 12th Québec-Ontario Minisymposium (QOMSBOC), Orford, QC, Nov. 9-11, 2001
- ▶ 84th Canadian Chemistry Conference (CSC), Montreal, QC, May 26-30, 2001
- ▶ 69^e Congrès de l'ACFAS, Sherbrooke, QC, May 14-17, 2001
- ▶ Pacifichem, Honolulu, HI, Dec. 14-19, 2000
- ▶ 11th Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, Nov. 10-12, 2000
- ▶ 13^e Entretiens Jacques Cartier, Montreal, QC, Oct. 3-6, 2000
- ▶ 220th ACS National Meeting, Washington, DC, Aug. 20-24, 2000
- ▶ 83rd Canadian Chemistry Conference (CSC), Calgary, AB, May 27-31, 2000
- ▶ 68^e Congrès de l'ACFAS, Montreal, QC, May 15-19, 2000
- ▶ 219th ACS National Meeting, San Francisco, CA, Mar. 26-30, 2000
- ▶ 218th ACS National Meeting, New Orleans, LA, Aug. 22-25, 1999

- ▶ 82nd Canadian Chemistry Conference (CSC), Toronto, ON, May 31-Jun. 5, 1999
- ▶ 67^e Congrès de l'ACFAS, Ottawa, ON, May 10-14, 1999
- ▶ 217th ACS National Meeting, Anaheim, CA, Mar. 21-25, 1999
- ▶ 80th Canadian Chemistry Conference (CSC), Windsor, ON, Jun. 1-4, 1997
- ▶ 65^e Congrès de l'ACFAS, Trois-Rivières, QC, May 12-16, 1997
- ▶ 213th ACS National Meeting, San Francisco, CA, Apr. 13-17, 1997
- ▶ 212th ACS National Meeting, Orlando, FL, Aug. 25-29, 1996
- ▶ 64^e Congrès de l'ACFAS, Montreal, QC, May, 13-17, 1996
- ▶ 6th Québec-Ontario Minisymposium (QOMSBOC), Montreal, QC, Oct. 28-29, 1995
- ▶ 210th ACS National Meeting, Chicago, IL, Aug. 20-24, 1995
- ▶ 78th Canadian Chemistry Conference (CSC), Guelph, ON, May 28-Jun. 1, 1995
- ▶ 63^e Congrès de l'ACFAS, Chicoutimi, QC, May, 22-26, 1995
- ▶ 5th Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, Oct. 15-16, 1994
- ▶ 62^e Congrès de l'ACFAS, Montreal, QC, May 16-20, 1994
- ▶ 4th Québec-Ontario Minisymposium (QOMSBOC), Ottawa, ON, Oct. 30-31, 1993
- ▶ 4th International Symposium on Chiral Discrimination, Montreal, QC, Sep. 19-22, 1993
- ▶ 8th European Symposium on Organic Chemistry, Barcelona, Spain, Sep. 2, 1993
- ▶ 61^e Congrès de l'ACFAS, Rimouski, QC, May 17-21, 1993
- ▶ 60^e Congrès de l'ACFAS, Montreal, QC, May 11-15, 1992
- ▶ 203rd ACS National Meeting, San Francisco, CA, Apr. 5-10, 1992
- ▶ 2nd Québec-Ontario Minisymposium (QOMSBOC), Montreal, QC, Oct. 25, 1991
- ▶ 6th IUPAC Symposium on Organometallic Chemistry, Utrecht, Netherlands, Aug. 26, 1991
- ▶ 59^e Congrès de l'ACFAS, Sherbrooke, QC, May, 21-24, 1991
- ▶ 1st Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, Oct. 20, 1990
- ▶ 58^e Congrès de l'ACFAS, Quebec City, QC, May 14-18, 1990
- ▶ 197th ACS National Meeting, Dallas, TX, Apr. 9-14, 1989
- ▶ 196th ACS National Meeting, Los Angeles, CA, Sep. 25-30, 1988
- ▶ 194th ACS National Meeting, New Orleans, LA, Aug. 30-Sep. 4, 1987
- ▶ 5th Chemistry Graduate Students' Symposium, Buffalo, NY, May 22, 1987