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CURRICULUM VITAE - VICTOR ALGIRDAS SНИЕCKUS

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PERSONAL DATA

Born	Kaunas, Lithuania, 1 August, 1937
Citizenship	Canadian
Married	Anne Cecilia (Pinkham) Snieckus
Two Children	Darius Victor (b. 1967) Naomi Marie (b. 1970)
Languages	English, French, German, Lithuanian, Estonian
Outside Interests	History of Science, Jazz, Table Tennis

EDUCATION

Preuniversity	Germany, 1945-48 Alberta, Canada, 1948-55
B.Sc. (Honors)	University of Alberta, 1959
M.Sc.	University of California, Berkeley, 1961 (with D.S. Noyce)
Ph.D.	University of Oregon, 1965 (with V. Boekelheide)
Postdoctoral	National Research Council, Ottawa, 1965-66 (with O.E. Edwards)

ACADEMIC POSITIONS

University of Waterloo	Assistant Professor	1967-71
	Associate Professor	1971-79
	Professor	1979-92
	Monsanto/NSERC Ind Res Chair	1992-98
Queen's University	Bader Chair in Organic Chemistry	1998-
	Bader Chair in Organic Chemistry	
	Emeritus	2009-
Brock University	Adjunct Professor, Organic Chemistry	2009-
Snieckus Innovations	Director	2009-

RESEARCH INTERESTS

The Snieckus group has contributed to the development and application of the directed *ortho* metalation reaction (DoM) and used it as a conceptual platform for discovery of new efficient methods for the

regioselective synthesis of polysubstituted aromatics and heteroaromatics. The directed remote metalation (DreM) reaction and DoM – linked transition metal catalyzed cross coupling (especially Suzuki-Miyaura) were first uncovered in his laboratories. These have found broad application especially in pharmaceutical industry (Research director quote: “When we say ‘let’s do it by Snieckus chemistry’, we know exactly what we mean.” DoM has received NAME REACTION status (Kürti & Czakó book).

PROFESSIONAL ACTIVITIES

Organic Editor

Volume Editor

Canadian Journal of Chemistry, 1988-2012
Science of Synthesis, Vols 8a-b (*The Alkali Metals*), Snieckus, V. Majewski, M. Eds. Georg Thieme Verlag, Stuttgart, **2005**. A 1700-page, two-volume, 42 author, work dealing with the last decade of Alkali Metals, especially Lithium, chemistry aimed to become the successor of the eminent *Houben-Weyl* series as the practical, hands-on bible of synthetic methods for industrial/academic chemists.

Editor

Advances in Carbanion Chemistry, Ed-in-Chief, A. Padwa, Jai Press, 1988-1999

Editor, American Continents

SYNLETT, 1990-

Editor, American Continents

SYNFACTS, 2005-

Topical Editor

Polycyclic Aromatic Compounds, 1988-

Advisory Editorial Board

Journal of Organic Chemistry, 1984-89

Advisory Editorial Board

Progress in Heterocyclic Chemistry, 1988-95

Advisory Editorial Board

Chemistry & Biodiversity, 2003-

Advisory Board

International Symposium on Polynuclear Aromatic Hydrocarbons, 1987-93

Advisory Board

International Society Carbanion Chemistry (ISCC), Madison, WI, 2006-

Editorial Board Member

Organic Process Research & Development, 2000-

Editorial Board Member

Advanced Synthesis and Catalysis, 2000-2012

Board of Consulting Editors

Tetrahedron/Tetrahedron Letters 2003-2007

Editorial Committee

International Society on Polynuclear Aromatic Hydrocarbons, 1989-95.

President/Executive Committee

International Society on Heterocyclic Chemistry (ISHC), 1990-92

Chairman, Organic Division

American Chemical Society, 1989-90

Councilor, Organic Division

American Chemical Society, 1993-96

Alternate Councilor (DOC)

American Chemical Society, 1996-2002

Member

International Activities Committee, ACS, 1994-2008

Member

International Advisory Board: International

Member, International Advisory Committee

Symposium on Process Chemistry (ISPC 2011)

18th International Congress of Heterocyclic

Chemistry (ICHC), 2000, 2007

Member, International Advisory Committee

International Conference on Heteroatom Chemistry, 2002

CIC/CSC Organic Division:

Representative from ACS Organic Division, 1989-

NSERC Grant Selection Committee

Member 1996-99

Polanyi Prize Committee

1988-91 (Chair, 1991)

Rutherford Medal Committee

1997-2000 (Chair, 2000)

Society Memberships:	American Chemical Society (ACS), Canadian Society of Chemistry (CSC), International Society for Heterocyclic Chemistry, American Association for the Advancement of Science
Combinatorial Chemistry Research Grants Program Committee	Member, 2001-2002
Member, Awards Selection Committee	Herbert C. Brown Award for Creative Research in Synthetic Methods, 2003-2005
Chairman, Awards Selection Committee	Katritzky Award, International Society of Heterocyclic Chemistry, 2007
Chairman, Awards Selection Committee	THIEME/IUPAC PRIZE in Synthetic Organic Chemistry, 2000-
Member, International Advisory Committee	18th International Symposium on Carbanion Chemistry (ISCC), 2007
Consultantships:	Albany Molecular Research (AMRI), 1999-2009 NPS (Allelix Biopharmaceuticals), 1994-2000 Sanofi-Aventis (Hoechst Marion Roussel), 1996-2006 Apotex Pharmachem Inc., 1997-2002 Cambrex 2000-2001 Ceregen, 1989-1995 Archimica (formerly Clariant), 2000-2008 Bristol-Myers Squibb (Dupont Merck), 1989- BMS Canada, 2003-2007 Kyowa Hakko, 1999-2009 Merck, Sharp & Dohme, UK, 1997-2000 Morphochem 2000-2002 OSI Pharmaceuticals (CADUS) 1996-2009 Pharmacia (Monsanto/Searle), 1989-2003 Syntex, 1987-1993 DuPont Stine, 1989-1992, 2002- Major Laboratories, Scientific Advisory Board, 2003- Bioblocks, Advisor Board, 2003- ViroChem, Montreal, 2008-2009
Society Memberships	American Chemical Society Canadian Society of Chemistry International Society for Heterocyclic Chemistry Science for Peace

FELLOWSHIPS AND AWARDS (listed since 1990)

1991	Universitat Basel Chair, Switzerland
1992-97	NSERC/Monsanto Industrial Research Chair in Chemical Synthesis and Biomolecular Design
1993	The Alfred Bader Award in Organic Chemistry
1993	Japan Society for the Promotion of Science (JSPS) Fellowship
1993	Fellow of the Royal Society of Canada

1994	Gastprofessor, University of Zurich, Switzerland (June 6-July 15, 1994)
1995	Gastprofessor, University of Innsbruck, Austria (May 1-June 15, 1995)
1996	Glaxo Wellcome Professorship, Duke University (January 24-February 26, 1996)
1996	Humboldt Research Award (Humboldt-Forschungspreis)
1996	University of Oregon Alumni Achievement Award in Chemistry
1997	R.U. Lemieux Award for Organic Chemistry
1999	Fellow, Lithuanian Academy of Sciences
2000	100 Milestones of 20 th Century Canadian Chemistry Award
2000-2001	Killam Research Fellowship
2001	ACS Arthur C. Cope Scholar Award
2001	International Society for Heterocyclic Chemistry Award
2001	Japan Society for the Promotion of Science, Invitational Fellowship for Research
2001	AstraZeneca Excellence Award in Organic Synthesis
2001	Boehringer-Ingelheim Distinguished Lecturer
2001	Royal Society of Chemistry, Perkin Division, Lecturer
2002	Gedimino Order of the Republic of Lithuania
2003	H.C. Brown Lecturer
2003	Craig Visiting Professor, Australian National University, Canberra
2005	Bernard Belleau Award of the Canadian Society for Chemistry
2005	Novartis Chemistry Lectureship
2005	Aventis Vision Lecturer
2006	AstraZeneca Lecturership
2006	GlaxoSmithKline, Grey College Fellowship, University of Durham, UK
2007	Bristol-Myers-Squibb Lecturer, North Jersey ACS Section
2007	Fellow, International Society of Heterocyclic Chemistry (IHC)
2007	Aldrich Lectureship, Scripps Research Institute, La Jolla
2008	Boehringer-Ingelheim Lecturer, UQAM, Montreal, April, 2008.
2008	Givaudan/Karrer Visiting Professor, University of Zurich, Organic Chemistry Institute
2009	IHC Symposium Dedicated to V. Snieckus, St. John's, Newfoundland, August, 2009
2009	Novartis Lecturer, Central European Countries, Prague, Budapest, Bratislava, April 18 th -24 th , 2009
2009	Fellow, American Chemical Society (1 of 2 non-Americans of 150 recipients)
2009	<i>Honours causa</i> , Technical University of Tallinn, Estonia
2010	Lithuanian Academy of Sciences Laureate
2011	Excellence In Research, Queen's University
2011	Alumni Award for a Distinguished BSc Graduate, University of Alberta
2013	Global Lithuanian Award from the President of the Republic of Lithuania, Dalia Grybauskaitė

PLENARY AND SPECIAL INVITED LECTURESHIPS (249 total, listed since 1993)

- 1993
- ACS Spring Symposium: Organic Synthesis and Methodology, Rochester, N.Y., March 15-16, 1993.
 - Gordon Research Conference, New Hampton, N.H., July 5-9, 1993.
 - 34th IUPAC Congress, Beijing, China, August 15-20, 1993.
 - 11th Symposium on Chemistry of Heterocyclic Compounds, Prague, Czechoslovakia, August 29-September 4, 1993.
 - 1993 CHEMETALL Hybrid Symposium, Goslar, Germany, September 29-October 1, 1993.
 - VII Mokslo Ir Kurybos Simpoziumas, Chicago, IL, November 24-28, 1993.

- 1994 • 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Pakistan, January 16-20, 1994.
- 4th French/American Chemical Society, New Orleans, January 30-February 3, 1994.
- 29th ESF/EUCHEM Conference on Stereochemistry-Bürgenstock, Switzerland, May 1-7, 1994.
- Lilly Research Laboratories Lecturer at Ohio State University, Columbus, Ohio, September 22, 1994.
- 1994-1995-Organic Synthesis Seminar Series, The DuPont Experimental Station, Wilmington, DE, October 31, 1994.
- 17th Annual Meeting of the Brazilian Chemical Society, Caxambu, Brazil, May 24-27, 1994.
- International Isotope Society Meeting, Pearl River, November 4, 1994.
- 1995 • Canadian Workshop in Organic Synthesis, CSC Conference, Guelph, Ontario, May 28-June 1, 1995.
- Pre-Congress Symposium "Modern Aspects of Organic Synthesis", in honour to Prof. Sauter, June 12, 1995.
- 5th Blue Danube Symposium on Heterocyclic Chemistry, Casta-Papiernicka, June 14-17, 1995.
- 15th International Congress of Heterocyclic Chemistry, Taipei, Taiwan, R.O.C., "Anionic Friedel - Crafts Equivalents. Regiospecific Construction of Thioxanthenes, Xanthenes, and Dibenzo[b,e]Phosphorinones", August 6-11, 1995.
- 6th Québec/Ontario Symposium in Synthetic and Bioorganic Chemistry, McGill University, Montréal, PQ, "Metalation: The Point of Departure from New Synthetic Aromatic/Heteroaromatic Chemistry", October 28, 1995.
- Invited lecturer, Organic/Inorganic Seminar Series, "The Directed ortho Metalation Reaction: A New Chapter for Streitwieser and Heathcock?", University of Chicago, December 8, 1995.
- 1996 • Laval University, Quebec City, PQ "Les réactions et stratégies de métallation en synthèse organique", January 18, 1996.
- University of Oregon, "Sightseeing the Metallated Flatlands", on the occasion of receiving the University of Oregon Alumni Achievement Award in Chemistry, March 8, 1996.
- 211th ACS, New Orleans, Louisiana, March 24-28, 1996.
- 79th Canadian Society for Chemistry Conference and Exhibition, Memorial University of Newfoundland, "Sparteine-Mediated Enantioselective Carbanionic Processes. Direct Methods for the Synthesis of Chiral Alkylbenzenes and Ferrocenes with Planar Chirality" June 23-26, 1996.
- 15th National Organic Conference, Central Queensland University, Australia, "New Regio- and Enantio-Selective Carbanion Mediated Processes of Synthetic Utility" June 30-July 5, 1996.
- XVIIth International Conference Organometallic Chemistry, Brisbane, Australia, 7-12 July, 1996.
- 212th ACS, Orlando, Florida, August 25-30, 1996.
- 1997 • "Overview: Catalysis in Asymmetric Synthesis", Winter Conference on Medicinal and Bioorganic Chemistry, Steamboat Springs, Colorado, January 26-31, 1997.
- 117th Annual Meeting of the Pharmaceutical Society of Japan, March 26-28, 1997.
- Symposium on Drug Discovery in Neuroscience and Pain, Astra Research Centre, Montreal, May 15-16, 1997.

- “Synthetic Observations from the Flatlands. Contributions Towards Chemical Synthesis of Aromatics”. 80th CSC, Windsor, Ontario, June 1-4, 1997.
 - US-Baltics Workshop in Environmental Chemistry, ACS Conference, Palanga, Lithuania, June 11-14, 1997.
 - 15th International Symposium on Synthesis in Organic Chemistry, St. Catherine’s College, Oxford, UK, July 21-24, 1997.
 - Gordon Research Conference on Organic Reactions and Process, Henniker, NH, August, 1997.
 - Syntex Lecturer, Colorado State University, Fort Collins, Colorado, October 19-21, 1997.
 - J. Cartier Colloque, Lyon, France, December 7-11, 1997.
 - UCI Synthesis Symposium, Irvine, California, December 13, 1997.
- 1998
- ICOS-12, Venice, Italy, June 28-July 2, 1998.
 - The 10th Sendai International Scientific Symposium, Sendai, Japan, July 5, 1998.
 - The 9th International Symposium on Novel Aromatic Compounds, Hong Kong, August 2-7, 1998.
 - The Impact of Organic Synthesis on Drug Discovery, Heidelberg Symposium, August 30, 1998.
 - Merck Frosst Lecturer, University of Montreal, November 18, 1998.
- 1999
- The Third Lake Tahoe Symposium on Molecular Diversity, California, January 24-29, 1999.
 - 12th Annual Organic Chemistry Day, University of Missouri, Columbia, Missouri, May 1, 1999.
 - Combinatorial Chemistry Symposium, 82nd CSC, Toronto, ON, June 1-2, 1999.
 - Heterocycles Symposium, 82nd CSC, Toronto, ON, June 1-2, 1999.
 - Gordon Research Conference on Organic Reactions and Processes, Henniker, NH, July 11-16, 1999.
 - IUPAC conferences on Organometallic Chemistry, Versailles, France, July 18-22, 1999.
 - 5th Annual Organic Colloquium, Proctor & Gamble, Cincinnati, OH, July 30, 1999.
 - 17th International Congress of Heterocyclic Chemistry, Vienna, August 1-6, 1999.
 - KOPO Symposium, Ulm, Germany, September 22, 1999.
 - Metal Catalyzed Cross Coupling Reactions, Society Chemical Industry, UK, October 5, 1999.
 - 7th Wyeth-Ayerst Research Award Lecture, Wyeth Ayerst and Columbia University, December 16-17, 1999.
- 2000
- INFORMEX, New Orleans, Louisiana, March 15-18, 2000.
 - 1st Florida Heterocyclic Conference, Gainesville, Florida, March 8-10, 2000.
 - Organic Process Research and Development (OPRD) Conference, July, 2000.
 - Gordon Research Conference on Natural Products Chemistry, Henniker, NH, July 30, 2000.
 - Groupe d’Etudes de Chimie Organique (GECO) XXXXI, Nièvre, France, August 27-September 1, 2000.
 - Gulf Coast Conference, Pensicola, Florida, September 14-16, 2000.
 - Royal Society of Chemistry Heterocyclic Group Meeting, London, UK, September 26, 2000.
- 2001
- 4th Winter Conference on Medicinal and Bioorganic Chemistry (WCMBC), Steamboat Springs, Colorado, January 28-February 2, 2001.
 - Sixth International Conference on Heteroatom Chemistry, Kodz, Poland, June 22-27.

- 8th International Society of Heterocyclic Chemistry, Yokohama, Japan, July 29-Aug 3, 2001.
 - Post-OMCOS-XI Conference, Kyoto, Japan, July 27-29, 2001.
 - Cope Award Symposium, 222nd ACS Meeting, Chicago, August 2001.
 - Cornforth - Eaborn Lecture, University of Sussex, UK, August 31, 2001.
 - Second European Catalysis Symposium, Italy, September 23-26, 2001.
 - IBC (Molecular Diversity) Meeting, San Diego CA, October 10-12, 2001.
 - Dupont Pharma Symposium, University of California, San Diego CA, December 10, 2001.
 - Royal Society of Chemistry, Newcastle-upon-Tyne, 2001.
 - Second European Catalysis Symposium, Italy, September 23-26, 2001.
 - IBC (Molecular Diversity) Meeting, San Diego CA, October 10-12, 2001.
 - Dupont Pharma Symposium, University of California, San Diego CA, December 10, 2001.
 - Royal Society of Chemistry, Perkin Division, Glasgow, December, 2001.
 - Millennium Pharmaceuticals, Boston, December, 2001.
- 2002
- Bristol Myers Squibb Lecturer, MIT, Boston, March, 2002.
 - ICNPA Conference, Gottingen, Germany, May 9-12, 2002.
 - SECO Conference, St. Jean de Monts, France, May, 2002.
 - F/5 Conference, Ulm, Germany, May, 2002.
 - Morphochem, Germany, May, 2002.
 - ICOS-14, University of Auckland, New Zealand, July 12, 2002.
 - Merck Research Laboratories, September 6, 2002.
 - Distinguished Merck Lecturer, Merck, University of Puerto Rico, September 30, 2002.
 - Ontario/Quebec Mini-Symposium on Synthetic and Bioorganic Chemistry, Canada, October 8-10, 2002.
 - Queen's Award Celebration, Symposium, Scientific Update, London, UK, October 30, 2002.
 - Syngenta, Jealotts Hill, UK, November 20, 2002.
- 2003
- 5th Winter Conference on Medicinal and Bioorganic Chemistry (WCMBC), Steamboat Springs, Colorado, January 27-31, 2003.
 - Kyowa Hakko, Mishima Research Laboratories, Kyowa Hakko, Japan, July 3, 2003.
 - H.C. Brown 20th Anniversary Lecture, West Lafayette, Indiana, September 23, 2003.
 - Albany Molecular Research Center, Albany, New York, September 10, 2003.
 - Arfvedson-Schlenk Symposium, GDCh Jahrestagung, Munich, Germany, October 7, 2003.
 - Serono Reproductive Biology Institute, Boston, Massachusetts, November 5, 2003.
 - Distinguished Lecturer, DuPont Crop Protection Center, Stine, November 7, 2003.
- 2004
- Krohn Symposium, Universität Paderborn, Paderborn, Germany, April 23, 2004.
 - Canada-France Congress, Nice, France, April 26, 2004.
 - 50th Anniversary of A.N. Nesmeyanov Institute of Organoelement Compounds, Moscow, Russia, June, 2, 2004.
 - Queguiner Symposium, Rouen, France, June 24, 2004.
 - 7th International Symposium on Carbanion Chemistry (ISCC-7), Alicante, Spain, July 7-10, 2004.
 - ICOS-15, Nagoya, Japan, August 1-6, 2004.
- 2005
- 6th Winter Conference on Medicinal and Bioorganic Chemistry (WCMBC), Steamboat Springs, Colorado, January 23-29, 2005.
 - Current Aspects of Synthetic Organic Chemistry Symposium (Symposium in Honor of

- Alfred Bader), 229th American Chemical Society National Meeting, March 13-March 16, 2005.
- Vision Symposium, Aventis, Bridgewater, New Jersey, May 24, 2005.
 - 88th Canadian Society for Chemistry Conference, Saskatoon, Saskatchewan, May 27-June 1, 2005.
 - Lithuanian Academy of Arts & Sciences Meeting, Vilnius, Lithuania, June 30-July 3, 2005.
 - 14th European Symposium on Organic Chemistry, Helsinki, Finland, July 4-July 7, 2005.
 - Polish Academy of Sciences Meeting (Symposium in Honor of M. Makosza), July 14-16, 2005.
 - AstraZeneca Canada Lecturer, 2005.
 - Novartis Distinguished Lectureship, 2005.
 - Pacificchem 2005, Honolulu, Hawaii, December 15-20, 2005.
- 2006
- Pfizer Distinguished Lectureship, York University, Toronto, ON, April 20, 2006.
 - Novartis Distinguished Lectureship, Cambridge, Massachusetts, May 2, 2006.
 - Merck Frosst Distinguished Lectureship, University of Victoria, Victoria, B.C., May 4, 2006.
 - ICOS-16, Mérida, Yucatán, México, June 11-15, 2006.
 - 2006 GRC on Heterocyclic Compounds, Salve Regina College, New Port, RI, July 2-7, 2006.
 - 2006 GRC on Natural Products, Tilton, NH, July 23-28, 2006.
 - CRC International Symposium, Purdue University, West Lafayette, IN, September 15-16, 2006.
 - Frontiers in Organic Chemistry Symposium, University of Illinois, Urbana, IL, October 14, 2006.
- 2007
- Synthetic Heterocyclic Chemistry Conference, Barcelona, Spain, April 12-13, 2007.
 - High Throughput Medicinal Chemistry III, RSC Symposium, Harlow, UK, May 1, 2007.
 - New Jersey ASC Spring Symposium, Newark, NJ, May 24, 2007.
 - Organic Chemistry: Perspectives on the 21st Century IV, Barton Conference, St. Lucia, May 27-June 2, 2007.
 - 21st International Symposium for Polycyclic Aromatic Compounds, Trondheim, Norway, August 5-10, 2007.
- 2008
- Zing Conference on Natural Products, Antigua, January, 2008.
 - 6th Rencontres de Chimie Organique (RCO), Gif-sur-Yvette, France, April 9, 2008.
 - Donald S. Matteson Honorary Symposium, Pullman, WA, August, 2008.
 - Albert I. Meyers In Memoriam Symposium, Fort Collins, CO, September, 2008.
 - Glaxo-SmithKline Symposium, September, 2008.
 - Forum on Asymmetric Synthesis and Technology (FAST), Princeton, NJ, October 27-29, 2008.
- 2009
- Organic Winter Meeting, Norwegian Organic Chemical Society Meeting, January 8, 2009.
 - Zing Conference on Catalytic Reactions, Antigua, March, 2009.
 - 22nd Conference on Advances in Organic Synthesis, Krapacz, Poland, July, 2009.
 - 22nd International Congress on Heterocyclic Chemistry, St. John's, Newfoundland and Labrador, August 2-7, 2009.
- 2010
- Synthesis and Applications of Boron Compounds, 93rd Canadian Society for Chemistry Conference, May 29-June 2, 2010.

- 6th BASF Boron Conference, Ludwigshafen, Germany, June 14-16, 2010.
 - Gordon Research Conference, Organic Reaction and Processes, Smithfield, RI, July 18-23, 2010.
 - ICOS -18, Bergen, Norway, August 1-6, 2010.
- 2011
- 12th Florida Heterocyclic and Synthetic Conference, Gainesville, Florida, March, 2011.
 - H.C. Brown Symposium honouring Professor Akira Suzuki, 241 ACS Meeting, Anaheim, CA: March, 2011.
 - First Mexican Meeting On Pure And Applied Chemistry, 43rd IUPAC, Mexico City, Mexico, May 16-20, 2011.
 - Modern Synthetic Methods & Chiral Europe Conference, Edinburgh, Scotland, May 2011.
 - Heck Symposium, University of Delaware, Newark, Delaware, May, 2011.
 - 1st Pharmaron Symposium on Synthetic and Medicinal Chemistry, Pharmaron Beijing Co., Ltd, Beijing, China, September 17, 2011.
 - YoungChem Conference, Krakow, Poland, October 12-16, 2011.
- 2012
- 2012 Excellence in Research Award Lecture, Queen's University, Kingston, March 20, 2012.
 - Manfred Hesse Symposium, Zurich, Switzerland, March 22, 2012.
 - Victor Grignard Centenary Symposium, Lyon, France, June 22-23, 2012.
- 2013
- A Symposium in Honour of David N. Harpp, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.
 - Grasmere Heterocyclic Chemistry conference, Grasmere, UK, May 9-13th, 2013.
 - GECCO (Groupe d'Etude de Chimie Organique), Batz-sur-mer, France, August 25-30, 2013.
 - International Symposium on Carbanion Chemistry (ISCC-10), Kyoto, Japan, September 23-26, 2013.

SHORT COURSES (92 TOTAL, LISTED SINCE 1993)

- 1993
- The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and Methods and Strategies in Heteroaromatic Metalation, Merck Frosst, Montreal, Quebec, January 12 and 13, 1993.
- The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and Methods and Strategies in Heteroaromatic Metalation, Rhone-Poulenc Rorer, Collegeville, PA, March 22-24, 1993.
- Methods and Strategies in Heteroaromatic Metalation, Anaquest Inc., Murray Hill, N.J., May 10, 1993.
- The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and Methods and Strategies in Heteroaromatic Metalation, EGIS Pharmaceuticals Ltd., Budapest, Hungary, September 6-8, 1993.
- The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and Methods and Strategies in Heteroaromatic Metalation, presented in collaboration with Scientific Update, France, October 4-8, 1993.

The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and Methods and Strategies in Heteroaromatic Metalation, Monsanto Company, St. Louis, Missouri, November 16, 18, 19, 1993.

1994 The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis, Instituto de Quimica, Unicamp, Campinas, Brazil, May, 1994.

The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis, Gesellschaft Deutscher Chemiker (GDCh), Frankfurt, Germany, October 11-13, 1994.

The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and "Methods and Strategies in Heteroaromatic Metalation, Dow Elanco, Indianapolis, Indiana, November 28-December 2, 1994.

1995 2nd Merck/Lipha Short Course, Lyon, France, March 16-18, 1995.

"The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and "Methods and Strategies in Heteroaromatic Metalation", Novo Nordisk, Denmark, Sept. 20-22, 1995.

The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and "Methods of Aromatic Synthesis", DoM and Cross Coupling Reactions", Zeneca Pharmaceuticals, U.K., Oct./Nov., 1995.

"The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis" and "Aryl-Aryl Cross Coupling Methods and Strategies in Synthesis", Merck Sharp & Dohme, Essex, U.K., Nov. 7-8, 1995.

1996 The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and "Methods and Strategies in Heteroaromatic Metalation. Synthetic Aspects of the Formation of the Aryl-Aryl Bond. The Heck Reaction.", Zeneca Pharmaceuticals, U.K., Sept. 2-4, 1996.

The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and "Methods and Strategies in Heteroaromatic Metalation. Synthetic Aspects of the Formation of the Aryl-Aryl Bond. The Heck Reaction.", Rhone Poulenc Rorer, U.K., Sept. 5-6, 1996.

The Directed *ortho* Metalation (DoM) Reaction in Organic Synthesis and "Transition Metal Catalyzed Processes and Strategies in Aromatic and Heteroaromatic Synthesis". CIBA, Switzerland, Sept. 10, 1996.

Methods of Aromatic Synthesis, DoM and Cross Coupling Reactions, Zeneca Pharmaceuticals, Cheshire, England, Oct. 28-30, 1996.

1997 The Aryl-Aryl Cross Coupling Reaction. Methods, Strategies, and Synthetic Deployment, Novo Nordisk, Copenhagen, Denmark, Feb. 6-7, 1997.

The Aryl-Aryl Cross Coupling Reaction. Methods, Strategies, and Synthetic Deployment, Kodak, Rochester, New York, U.S.A., April 2-4, 1997.

Cross Coupling Strategies and Methods for Aromatic and Heteroaromatic Synthesis,

- Scientific Update, East Sussex, U.K., April 28-30, 1997.
- The Aryl-Aryl Cross Coupling Reaction. Methods, Strategies, and Synthetic Deployment, SmithKline Beecham Pharmaceuticals, Essex, U.K., July 17-18, 1997.
- The DoM/HetDoM - Aryl-Aryl Cross Coupling Nexus. Methods, Strategies and Synthetic Deployment, Brantford Chemicals, August 1, 1997.
- The DoM Reaction: New Strategies and Methodologies in Aromatic and Heteroaromatic Synthesis, University of Darmstadt, Germany, Sept 22-24, 1997.
- 1998
- The DoM Reaction in Organic Synthesis: Methods and Strategies in Heteroaromatic Directed Metalation, Astra Arcus, Rochester, New York, U.S.A., March 9-11, 1998.
- The Aryl-Aryl Cross Coupling Reaction. Methods, Strategies, and Synthetic Deployment, Rohm and Haas, Pennsylvania, U.S.A., March 18-20, 1998.
- The DoM Reaction in Organic Synthesis: Methods and Strategies in Heteroaromatic Directed Metalation, Biochem Pharma, Montreal, October 21, 1998.
- 1999
- The Aryl-Aryl Cross Coupling Reaction. Methods, Strategies, and Synthetic Deployment, Scientific Update, UK, March 29-30, 1999.
- Cross Coupling Strategies and Methods in Aromatic and Heteroaromatic Synthesis, Scientific Update, UK, October 6, 1999.
- 2000
- The DoM Reaction in Organic Synthesis" and " The Aryl-Aryl Cross Coupling Reaction. Methods, Strategies, and Synthetic Deployment", Boehringer-Ingelheim, January 17, 2000.
- Modern Aspects in Synthetic Heterocyclic Chemistry, Scientific Update, UK, June, 2000.
- 2001
- Cross Coupling Strategies and Methods in Aromatic and Heteroaromatic Synthesis, Scientific Update, Stratford-upon-Avon, UK, June 27-29, 2001.
- Directed ortho Metalation - Transition Metal Catalyzed Combinations in Heteroaromatic Synthesis, Morphochem, Munchen, Germany, July 2-4, 2001.
- 2002
- The Heteroaromatic Directed ortho Metalation (HetDoM) Reaction, ACS Perspectives, Barcelona, Spain, February 24th, 2002.
- 2003
- Catalytic Cross Coupling Chemistry of Aromatic Molecules, Kodak, Rochester, New York, May 6-8, 2003.
- Catalytic Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis. Mechanism, Method, and Strategy. Pfizer, Groton, Connecticut, October 26-27, 2003.
- Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Scientific Update, Cambridge, UK, December 10-11, 2003.

- 2004 Modern Methodologies in Aromatic and Heteroaromatic Anionic and Transition Metal Catalyzed Chemistry, Albany Molecular Research, Inc., September 29-30, 2004.
- Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Scientific Update, Surrey, UK, October 7-8, 2004.
- 2005 Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Scientific Update, Surrey, UK, October 5-7, 2005.
- Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Serono, Boston, November 10-11, 2005.
- 2006 Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Schering-Plough Research Institute, Boston, MA, April 27, 2006.
- Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Xenon-Pharma, Vancouver, B.C., May 5, 2006.
- Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Scientific Update, Surrey, San Francisco, CA, May 8-10, 2006.
- Cross Coupling Reactions in Aromatic and Heteroaromatic Synthesis, Scientific Update, Surrey, Nice, France, October 3-5, 2006.
- Cross Coupling Reactions in Aromatic and Heteroaromatic, Sanofi-Aventis, Newark, New Jersey, November 30-December 1, 2006.
- 2007 Metal-catalyzed Annulation to Aromatics and Heteroaromatics. Emerging Strategies for Heterocyclic Construction, AMRI, Albany, NY, March 28, 2007.
- The Directed ortho Metalation (DoM) Strategy for Synthetic Aromatic and Heteroaromatic Chemistry, Tallinn University of Technology, Tallinn, Estonia, September 17-18, 2007.
- The Directed ortho Metalation (DoM) Strategy for Synthetic Aromatic and Heteroaromatic Chemistry, Vilnius University, Vilnius, Lithuania, September 20-21, 2007.
- Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, Scientific Update, Barcelona, Spain. October 9-11, 2007.
- Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, OSI, Farmingdale, New Jersey, December 20-21, 2007.
- 2008 Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, Merck & Co., Rahway, NJ, January 14-15, 2008.
- Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, Merck & Co., Westpoint, PA, January 17-18, 2008.
- Connecting ortho Metlation to Transition Metal Catalyzed Reactions in Aromatic and Heteroaromatic Synthesis, Singapore, February 18-22, 2008.

Organic Synthesis Begins with Lithium, Florence, Italy, April 1-3, 2008.

Cross Coupling Strategies and Methods in Aromatic & Heteroaromatic Synthesis, Budapest, Hungary, April 15-18, 2008.

Cross Coupling Strategies and Methods in Aromatic & Heteroaromatic Synthesis, Dublin, Ireland, October 7-9, 2008.

Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, Gilead Sciences, Inc., Foster City, California, December 11-12, 2008.

2009 Organic Synthesis Begins with Lithium (with M. Majewski), Solvay Pharmaceuticals, Weesp, The Netherlands, January 20-21, 2009.

Organic Synthesis Begins with Lithium (with M. Majewski), Solvay Pharmaceuticals, Hannover, Daix, Germany, May 11-15, 2009.

2010 Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, Genentech, South San Francisco, CA, May 2010.

2011 Directed ortho Metalation, Transition Metal Catalyzed Coupling, and C-H Activation. Contemporary Synthetic Strategies for Aromatics and Heteroaromatics, Abbott, Cambridge, MA, May 2011.

Catalytic Cross Coupling Reactions In Aromatic & Heteroaromatic Synthesis, Sunovion, Marlborough, MA, November 9-11, 2011.

2012 Catalytic Cross Coupling Reactions In Aromatic & Heteroaromatic Synthesis, Universidad del Pais Vasco, Bilbao, Spain, May 9-10, 2012.

Directed ortho Metalation (DoM): Contemporary Synthetic Strategies for Aromatics and Heteroaromatics, SciUP, Edinburgh, Scotland - September 17th-19th 2012.

Catalytic Cross Coupling Reactions in Aromatic & Heteroaromatic Synthesis, Scientific Update, Prague, Czech Republic, November 2012.

INVITED SEMINARS (listed since 1993)

University of Georgia, February 24, 1993.

Clemson University, South Carolina, February 25, 1993.

FMC Corporation, Gastonia, North Carolina, February 26, 1993.

M.I.T., Cambridge, MA, April 8, 1993.

Rutgers University, Newark, N.J., May 11, 1993.

Schering-Plough Research Institute, June 8, 1993.

Allelix Biopharmaceuticals Inc., Mississauga, Ontario, July 29, 1993.

Roche Research Centre, Hertfordshire, U.K., October 8, 1993.

Acadia University, Wolfville, N.S., October 25, 26, 1993.

Syntex Research, Palo Alto, CA, December 6, 1993.

Genentech Inc., South San Francisco, CA, December 7, 1993.

Corvas International, San Diego, CA, December 8, 1993.

Department of Science and Technology, Calcutta, India, January 21, 1994.
Calcutta University, Calcutta, India, January 21, 1994.
Jadavpur University, Calcutta, India, January 22, 1994.
Indian Association for the Cultivation of Science, Jadavpur, Calcutta, India, January 24, 1994.
Wayne State University, March 3, 1993.
Warner-Lambert Co., Ann Arbor, MI, March 4, 1994.
Marion Merrell Dow Co., Cincinnati, Ohio, March 10, 1994.
Burroughs Wellcome, Research Triangle Park, N.C., March 11, 1994.
University of Connecticut, Storrs, CT, March 30, 1994.
Hoffmann-La Roche, Basel, Switzerland, April 29, 1994.
Universidade Federal do Rio de Janeiro, Brazil, May, 1994.
Universidade Federal de Minas Gerais, Brazil, May, 1994.
Ciba-Geigy, Basel, Switzerland, June 28, 1994.
ETH Zentrum, Switzerland, June 30, 1994.
Lilly Corporate Center, Indianapolis, Indiana, September 20, 1994.
University of Pisa, Pisa, Italy, October 5 and 6, 1994.
Neurosearch, Copenhagen, Denmark, October 7, 1994.
Hoechst AG, Frankfurt, Germany, October 10, 1994.
Johnson Matthey, Philadelphia, October 25, 1994.
University of Alabama, Tuscaloosa, November 10, 1994.
University of Alabama, Birmingham, November 11, 1994.
Boehringer Ingelheim, Ridgefield, Connecticut, November 14, 1994.
University of Western Ontario, November 16, 1994.
ACIC Canada, Brantford, Ontario, January 26, 1995.
Pfizer Inc, Groton, CT, February 15, 1995.
Bristol-Myers, Wallingford, February 16, 1995.
Laboratoires Fournier S.C.A., Dijon, France, March 20, 1995.
Iowa State University, Ames, Iowa, April 14, 1995.
Bristol Meyers, Princeton, N.J., April 19, 1995.
Bristol Meyers, New Brunswick, N.J., April 20, 1995.
Boehringer Mannheim GmbH, Mannheim, Germany, 1995.
University of Twente, Enschede, The Netherlands, 1995.
Ciba-Geigy Limited, Basle, Switzerland, June 22, 1995.
Eastman Kodak Company, July 13, 1995.
BioChem Therapeutic Inc., Montréal, PQ, October 27, 1995.
Rhone Poulenc Rorer, Terlings Park, U.K., November 6, 1995.
University of Chicago, Chicago, IL December 8, 1995.
Université Laval, Québec City, PQ, January 18, 1996.
Síntese de Cumestanos e Tiocumestanos, Universidade Federal do Rio de Janeiro, May 27-30, 1996.
Reilly Industries, Indianapolis, IN, September 12, 1996.
Kansas State University, Lawrence, KS September 24, 1996.
Agouron Pharmaceuticals, San Diego, CA, October 15, 1996.
Corvas International, San Diego, CA, October 16, 1996.
Athena Neurosciences, Inc., South San Francisco, October 17, 1996.
Argonaut Technologies, Inc., San Carlos, CA, October 21, 1996.
Roche Bioscience, Palo Alto, CA, October 22, 1996.
Amgem, Thousand Oaks, CA, October 23, 1996.
Zeneca Huddersfield Works, Huddersfield, England, October 31, 1996.
Sepracor, Inc., Marlborough, MA, November 6, 1996.
McGill University, Montréal, PQ, January 21, 1997.
Novo Nordisk, Mont Tremblant, PQ, February 4, 1997.

Astra Draco, Malmo, Sweden, February 4, 1997.
Astra Arcus, Stockholm, Sweden, February 11, 1997.
Astra Hassle, Gothenberg, Sweden, February 12, 1997.
Astra Charnwood, Leics, U.K., February 13, 1997.
Bristol-Myers Squibb, Montreal, PQ, March 3, 1997.
Cadus Pharmaceutical Corporation, Tarrytown, NY, March 13, 1997.
Sakai Research Labs, Osaka, Japan, March 24, 1997.
Kyowa Hakko Kogyo Co. Ltd., Tokyo, Japan, March 25, 1997.
Pfizer Limited, Sandwich, Kent, UK, May 1, 1997.
Astra Research Centre, Montreal, PQ, July 29, 1997.
Gordon Research Conference on Organic Reactions and Process, Henniker, NH, August, 1997.
Pharmacia Upjohn, Kalamazoo, Michigan, September 4-5, 1997.
Agouron, San Diego, California, October 15, 1997.
Colorado State University, Fort Collins, Colorado, October 19-21, 1997.
Terrapin Technologies Inc. San Fransisco, November 6, 1997.
BASF, Germany, December 5, 1997.
J. Cartier Colloque, Lyon, France, December 7-11, 1997.
Irvine, California, December 13, 1997.
Simon Fraser University, Burnaby, B.C., January 21, 1998.
St. Mary's University, Halifax, January 23, 1998.
Boehringer Ingelheim Pharma KG, Germany, June 23-24, 1998.
Bayer, West Haven, Conneticut, September 14, 1998.
Ontogen Corporation, California, October 19, 1998.
Viropharma, Philadelphia, November 23, 1998.
Albermarle, Louisiana, November 2, 1998.
Cadus, Tarrytown, NY, January 21, 1999.
BioChem Pharma, Quebec, February 9, 1999.
CLARIANT, Frankfurt, July 27, 1999.
Laval University, Quebec, September 6, 1999.
University of Manchester, UK, September 29, 1999.
Merck Sharpe & Dohme, UK, September 30, 1999.
Acadia University, Nova Scotia, November 4, 1999.
Dalhousie University, Nova Scotia, November 5, 1999.
Memorial University of Newfoundland, Dec 4, 1999.
Wyeth-Ayerst, Columbia University, New York, NY, December 17, 1999.
Emisphere Technologies Inc., Tarrytown, NY, February 18, 2000.
Kyowa Hakko, Japan, April 9, 2000.
Abbott Laboratories, Chicago, Illinois, April 18, 2000.
University of Illinois, Chicago, Illinois, April 19, 2000.
Alanex, San Diego, California, April 21, 2000.
Eli Lilly, UK, November 25-27, 2000.
Imperial College, UK, November 28, 2000.
Centre National de la Recherche Scientifique, France, November 29-December 1, 2000.
AstraZeneca, Montreal, December 7, 2000.
University of Pennsylvania at Philadelphia, April 16, 2001.
Juniata College, Huntingdon PA, April 17, 2001.
Boehringer-Ingelheim, New Orleans LA, May, 2001.
Dupont Merck, Wilmington DE, May 16, 2001.
University of Girona, Italy, May 24, 2001.
Canadian Chemical Society, Montreal, June 2001.
Post-OMCOS-XI, Kyoto, Japan, July, 2001.

Second European Catalysis Symposium, Pisa, September 2001.
Royal Society of Chemistry, Newcastle-upon-Tyne, September, 2001.
Boehringer-Ingelheim, University of New Orleans, November 16, 2001.
AstraZeneca, Delaware, November 6, 2001
2nd UCSD/DuPont Pharma Symposium on Organic Chemistry, December 10, 2001
Millennium Pharmaceuticals, Boston, December 14, 2001.
Royal Society of Chemistry: Perkin Division, Glasgow, December 19, 2001
Ibn Sina Conference, Egypt, February, 2001
Bristol-Myers Squibb: MIT, Cambridge, April, 2002.
Joint Chemistry/Physics Speaker Series, Trent University, Peterborough, April 3, 2002
International Conference on Natural Products and Analogues, Gottingen, May, 2002
Semaine d'Etudes de Chimie Organique, St. Jean de Monts, May, 2002.
CSC National Conference, Vancouver, May 2002
Fifth International Symposium on Functional Electron Systems, Ulm, Germany, June, 2002.
9th Blue Danube Symposium on Heterocyclic Chemistry, Tatranski Lomnica, June 2002.
Roche Symposium, University of Colorado, Colorado, June 7th, 2002
Balticum Organicum Syntheticum, Vilnius, Lithuania, June 23-27, 2002.
ICOS 14, New Zealand, July, 2002.
Oppolzer Symposium, Geneva, Switzerland, October 4th-6th, 2002.
Scientific Update, New Orleans, Louisiana, November 12-15th, 2002.
Walden Symposium, Riga, Latvia, October 13th-14th, 2003.
Roche Carolina, Inc., Florence, South Carolina, October 22nd-23rd, 2003.
CV Therapeutics, Inc., San Francisco, California, November 3-5, 2003.
Lecturer, DuPont Crop Protection Center, Stine, November 7, 2003.
Serono Reproductive Biology Institute, Boston, Massachusetts, November 5, 2003.
DuPont Stine Crop Protection, Newark, Delaware, November 6-7, 2003.
Scios, Inc., Fremont, California, February 17, 2004.
Dartmouth College, Hanover, New Hampshire, February 19, 2004.
Balticum Organicum Syntheticum, June 27-July 1, 2004.
Biogen, Cambridge, MA, September 8, 2004.
Bristol-Myers Squibb, Candiac, Quebec, September 13, 2004.
Bristol-Myers Squibb, Syracuse, New York, September 15, 2004.
BASF, Germany, October 11-13, 2004.
NERM Symposium, November 1-2, 2004.
Lund University, Sweden, December 6, 2004.
University of Stockholm, Stockholm, Sweden, December 9-10, 2004.
Bristol-Myers Squibb, Candiac, Quebec, April 19, 2005.
DuPont Stine Crop Protection, Newark, Delaware, May 16-17, 2005.
Sorono International S.A., Geneva, Switzerland, July 7, 2005.
Bristol-Myers Squibb, Candiac, Quebec, September 16, 2005.
Bristol-Myers Squibb, Wallingford, Connecticut, September 26, 2005.
Bristol-Myers Squibb, Princeton, New Jersey, September 27, 2005.
Albany Molecular Research, Inc., Syracuse, New York, September 28, 2005.
Wilfried Laurier University, Waterloo, Ontario, January 20, 2006.
Xenon-Pharma, Vancouver, B.C., May 5, 2006.
Georgia State University, Athens, Georgia, October 14, 2006.
F-Tech, Tokyo, Japan, October 26, 2006.
University of Saskatchewan, Saskatoon, SK, February 20, 2007.
University of Wisconsin, Madison, Wisconsin, April 17, 2007.
University of Connecticut, Storrs, Connecticut, April 25, 2007.
Bristol-Myers Squibb, New Brunswick, New Jersey, April 26, 2007

University College Dublin, Dublin, Ireland, May 3, 2007.
Aldrich Lectureship, Scripps Research Institute, La Jolla, CA, May 11, 2007.
AMRI, Albany, NY, July 10, 2007.
AMRI, Syracuse, NY, July 11, 2007.
Vertex, Boston, MA, July 12, 2007.
University of Strathclyde, Glasgow, Scotland, September 26, 2007.
Heterocyclic and Synthesis Group Meeting, Organon, Scotland, September 27-29, 2007.
Boehringer Ingelheim, Biberach, Germany, October 12, 2007.
AMRI, Albany, NY, November 16, 2007.
Sanofi-Aventis, Bridgewater, NJ, December 7, 2007.
Kyowa-Hakko, Sakai, Japan, December 10 - 14, 2007.
OSI Pharmaceuticals, December 20-21, 2007.
Antigua Natural Products Conference, January 10-13, 2008.
Bristol-Myer Squibb, New Brunswick, NJ, February 11, 2008.
Bristol-Myers Squibb, Lawrenceville, NJ, February 12, 2008.
Bristol-Myers Squibb, Wakefield, Connecticut, February 13, 2008.
AMRI Budapest, Budapest, Hungary, April 14, 2008.
Sanofi-Aventis, Budapest, Hungary, April 15-16, 2008.
University of Quebec in Montreal, April 28, 2008.
Brock University, September 12, 2008.
ACS Prospectives, Boston, MA, September 29, 2008.
Almac Sciences, Dublin, Ireland, October 10, 2008.
GlaxoSmithKline, Raleigh, North Carolina, October 13, 2008.
Albany Molecular Research Inc., Syracuse, New York, December 7, 2008.
Kyowa Hakko Kirin Co. Ltd., Sakai, Japan, December 15, 2008.
Kyoto University, December 17, 2008.
Hoffmann-La Roche, Nutley, NJ, March 26, 2009.
Wyeth Pharmaceuticals, Pearl River, NJ, May 28, 2009.
BMS, Wallingford, June, 2009.
Amgen, Thousand Oaks, California, October 26, 2009.
Bernd Giese Symposium, Basel, Switzerland, June 4, 2010.
93rd CSC Meeting, Toronto, Ontario, May 30-June 3, 2010.
Brock University, Synthetic Organic Chemistry in Canada: A 50-Year Selective Perspective, April 17, 2010.
PACIFICHEM Conference: Honolulu, Hawaii, December 15-20, 2010.
Pfizer, Groton, Connecticut, April 4th, 2011.
Amgen, Cambridge, MA, June 20, 2011.
Arfvedson-Schlenk Award Symposium, Bremen, Germany, September 7, 2011.
Shanghai Institute of Organic Chemistry, Shanghai, China, September 14, 2011.
Peking University, Beijing, China, September 16, 2011.
University of Konstanz, Kontansz, Germany, October 10, 2011.
University of Alberta, Edmonton, Alberta, December 5, 2011.
Universidad del Pais Vasco, Bilbao, Spain, May 8, 2012.
Oxford University, England, May 22, 2012.
Uppsala University, Uppsala, Sweden, May 25, 2012.
BMS, Wallingford, June 10, 2012.
Boehringer-Ingelheim, Ridgefield, CT, February 11, 2013.
University of Oregon, Eugene, Oregon, June 7, 2013.

TEACHING ACTIVITIES

University of Waterloo

Courses taught range from 1st year General Chemistry to graduate courses. Experience in teaching general chemistry, all levels of undergraduate organic chemistry, special topics in organic chemistry (heterocycles, physical organic, synthesis, natural products, biosynthesis, bioorganic chemistry, environmental chemistry). Enrollments ranged from 20-75 students.

In the 1975-95 period, taught, every year, *Chemistry in Modern Society*, a course designed for "poets" but usually taken by a broad mix and level of undergraduate students varying from arts to engineering, from 1st year to 4th year. Attendance of 150-300 range. Topics covered include Chemical Carcinogens, Chemical Warfare Agents, Drugs in Sports, Chemical Messages Make Scents, DNA Profiling, Aspects of Stratospheric Chemistry, some of which are given by guest lecturers.

From beginning of academic career, taught, on a regular basis, graduate courses in organic chemistry including Spectroscopic Techniques, Heterocyclic Chemistry, Free Radical Chemistry, Biogenesis and Biosynthesis, Natural Products, Synthetic Methods, and Strategies in Synthesis.

Queen's University

Continuing teaching activities, 1st year organic chemistry, upper year organic synthesis and heterocyclic chemistry, and graduate synthetic, heterocyclic, and biosynthesis since 1998. Organization of special course in Medicinal and Pharmaceutical Chemistry of invited lecturers from the pharma and agrochemical industries to present topics of current research in discovery programs of drug and agrochemical interest.

CONFERENCE PROCEEDINGS (1st: 1969. Listed since 1993)

1. Directed *ortho*-Metalation Mediated E⁺-Introduction: Regiospecific Synthesis of Fluorinated Aromatics. F. Beaulieu, V. Snieckus, W. Han, C.K. Murphy, F.A. Davis 205th ACS National Meeting, Denver, CO, March 28-April 2, **1993**. Abstr. 172. (Oral)
2. Ni(O)-Catalyzed Cross Coupling of Aryl S-Thiocarbamates and Aryl Triflates with Grignard and Zinc Reagents Respectively: Directed *ortho*-Metalation-Cross Coupling Connections. F. Beaulieu, C. Quesnelle, V. Snieckus 205th ACS National Meeting, Denver, CO, March 28-April 2, **1993**. Abstr. 173.
3. Aromatic Metallation Aromatique. Methodology and Synthetic Consequences Synthetiques. ALFRED BADER AWARD LECTURE. V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-B1 177.
4. Metalation of N,N Diethyl-O-5-Carbomyloxyindole. E.J. Griffen, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-C7 371.
5. Intramolecular Aryl to α -Amidoyl Radical 1,5-Hydrogen Atom Transfer Reactions. Highly Diastereoselective Route to Substituted α -Alanine Derivatives. F. Beaulieu, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-E6 569.
6. Preparation of Macrocyclic Host Molecules for the Analysis and Complexation of Polychlorinated Dibenzo-p-Dioxins. M. Campbell, J.M. Wiebe, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-F8P 686.
7. Ni(O)-Catalyzed Cross Coupling of Aryl Triflates with Organozinc Reagents. C. Quesnelle, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-G6 819.
8. Combined Metalation - Cross Coupling Approach to Phenanthroviridin and Related Natural Products. B.-p. Zhao, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-G6 818.

9. Directed *ortho* Metalation Mediated F⁺-Introduction. Regiospecific Synthesis of Fluorinated Aromatics. F. Beaulieu, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-B8P 192.
10. Preparation of Macrocyclic Host Molecules for the Complexation of α -Amino Acids Using Lithiation and Cross Coupling Strategies. M. Campbell, V. Snieckus 76th CIC Conference, Sherbrooke, Quebec, May 30-June 3, **1993**. Abstr. OR-F8P 685.
11. Heterocyclic Excursions Based on the Directed Metalation-Cross Coupling Symbiosis. V. Snieckus Gordon Research Conference, New Hampton, NH, July 5-9, 1993.
12. Combined Metalation - Cross Coupling Approach to Phenanthroviridin and Related Natural Products. B.-p. Zhao, V. Snieckus 14th International Conference on Heterocyclic Chemistry (IHC), Antwerp, Belgium, August, 1-6, **1993** Abstr. PO2-84.
13. Intramolecular Aryl to α -Amidoyl Radical 1,5-Hydrogen Atom Transfer Reactions. Highly Diastereoselective Route to Substituted β -Alanine Derivatives. F. Beaulieu, V. Snieckus 14th International Conference on Heterocyclic Chemistry (IHC), Antwerp, Belgium, August, 1-6, **1993**. Abstr. OP-Sy-8.
14. Directed *ortho* Metalation-Cross Coupling Connections. Ni(O)-Catalyzed Cross Coupling of Aryl S-Thiocarbamates and Aryl Triflates with Grignard and Organo Zinc Reagents. F. Beaulieu, C. Quesnelle, V. Snieckus 14th International Conference on Heterocyclic Chemistry (IHC), Antwerp, Belgium, August, 1-6, **1993**. Abstr. PO2-85.
15. New Synthesis of Condensed Anthracene and Phenanthrene PAHS Via Aromatic Metalation - Cross Coupling Tactics. B.-p. Zhao, S. Chowdhury, V. Snieckus 14th International Symposium on Polycyclic Aromatic Compounds, Osage Beach, Missouri, September 8-11, **1993**. Abstr. OC5.
16. Combined Metalation - Cross Coupling Approach to Phenanthroviridin and Related Natural Products. V. Snieckus 34th IUPAC Congress, Beijing, China, August 15-20, **1993** Abstr. I-1006.
17. Remote Directed Metalation of Diaryl Sulfone *o*-Amides and *o*-Carbamates. Synthesis of Diaryl Sulfones and New Route to Substituted Thioxanthen-9-One 10,10-Dioxides. F. Beaulieu and V. Snieckus 206th ACS Meeting, Chicago, IL, August 22-27, **1993**. Abstr. ORGN 81.
18. Expedient Synthesis of 3,3'-Disubstituted 1,1'-BI-(2-Phenols) (Bipols) by Directed *ortho* Metalation. A.S. Parsons, J.M. Garcia and V. Snieckus 206th ACS Meeting, Chicago, IL, August 22-27, **1993**, Abstr. ORGN 422.
19. Intramolecular Aryl to α -Amidoyl Radical 1,5-Hydrogen Atom Transfer Reactions. Highly Diastereoselective Route to Substituted β -Alanine Derivatives. F. Beaulieu and V. Snieckus 206th ACS Meeting, Chicago, IL, August 22-27, **1993**, Abstr. ORGN 421.
20. Metal(I)ation: The Point of Departure for New Synthetic Aromatic Chemistry. V. Snieckus 1993 CHEMETALL Hydrid Symposium, Goslar, Germany, September 20-October 1, **1993**.
21. [1,5]-H Atom Translocations in Thiobenzamides. J. Arora and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
22. Combined Metalation-Cross Coupling Approach to Phenanthroviridin Aglycon and Related Natural Products. Z. Baoping and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
23. Preparation of Macrocyclic Host Molecules for the Analysis and Complexation of Polychlorinated Dibenzo-p-Dioxins. M. Campbell and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
24. Total Synthesis of Biruloquinone. B. Chapell and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
25. Synthesis of New Dibenzopyranones as Ellagic Acid Antimutagenic Congeners. A. Coelho and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
26. 1,4-rearrangements of Benzylic Carbamates. I. Ionica and V. Snieckus Guelph-Waterloo Centre

- for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
27. Studies Toward the Total Synthesis of Defucogilvocarin M. C. James and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
28. A Few New Areas of Vinyl Carbamates. B. Joseph and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
29. Ni(O)-Catalyzed Cross Coupling of Aryl Triflates with Organozinc Reagents. C. Quesnelle and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
30. Stereoselective Synthesis of Dihydroxyethylene Dipeptide Isostere. M. Tsukasaki and V. Snieckus Guelph-Waterloo Centre for Graduate Work in Chemistry (GWC²) Saturday Seminar, Waterloo, November 13, **1993**.
31. The Emerging Centrality of the Directed *ortho* Metalation Reaction in Synthetic Aromatic Chemistry. V. Snieckus VII Mokslo ir Kurybos Simpoziumas, Chicago, IL, November 24-28, **1993**; Festkolloquium, Moderne Aspekte der Organischen Synthese, Wien, June 12, **1995**.
32. Synthesis of 3,3'-Disubstituted 1,1'-Bis(2-Phenols (Bipols) by Directed *ortho* Metalation and Cross Coupling. A.S. Parsons, J. Garcia, and V. Snieckus 32nd Convention of the South African Chemical Institute South Africa, January 30-February 3, **1994** (Oral).
33. α -Lithiated Vinyl Carbamates as Acetaldehyde Dianion Equivalents. Synthesis of Dihydroxyethylene Dipeptide Isostere. M. Tsukasaki and V. Snieckus 207th ACS Meeting, San Diego, CA, March 13-18, **1994**. Abstr. ORGN 161.
34. Combined Metalation and Cross-Coupling Approaches to Biruloquinone and Defucogilvocarin M. B.A. Chapell, C.A. James, and V. Snieckus 207th ACS Meeting, San Diego, CA, March 13-18, **1994**. Abstr. ORGN 162.
35. [1,5-Hydrogen Atom Translocation in *o*-Halothiobenzamides. J. Arora and V. Snieckus 77th CIC Conference, Winnipeg, Manitoba, May 29-June 2, **1994**. Abstr. OR-C6, 254.
36. 1,4-Wittig Rearrangement of Benzylic Carbamates. M. Leite, B. Chapell, I. Ionica, V. Snieckus 77th CIC Conference, Winnipeg, Manitoba, May 29-June 2, **1994**. Abstr. OR-C6, 255.
37. Ni(O)-Catalyzed Cross Coupling of Aryl O-Carbamates and Aryl Triflates with Grignard Reagents. M.N. Leite, S. Sengupta, D.S. Raslan, C. Quesnelle, and V. Snieckus 17th Annual Meeting of the Brazilian Chemical Society, Campinas, Brazil, May 24-27, **1994**. Abstr. QO-65
38. Studies in the Synthesis of Radermachol. M.A.F. Brandao, A.B. de Oliveira, D.S. Raslan, and V. Snieckus. 17th Annual Meeting of the Brazilian Chemical Society, Campinas, Brazil, May 24-27, **1994**. Abstr. QO-66.
39. Anionic O \rightarrow C Carbamoyl Migration of 2-Methyl Aryl O-Carbamates. Regiospecific Route to Substituted Benzofuranones. M.A.J. Miah, M. Tsukasaki, M. Wicki, T. Nguyen, M. Kerr, and V. Snieckus. 209th National ACS Meeting, Anaheim, CA, April 2-6, **1995**. Abstr. ORGN 374.
40. Anionic Friedel-Crafts Equivalents. Regiospecific Construction of Thioxanthenes, Xanthenes, and Dibenzo[b,e] Phosphorinones. F. Beaulieu, P. Moreau, O.B. FAMILONI, I. Ionica, M. Gray, V. Snieckus 209th National ACS Meeting, Anaheim, CA, April 2-6, **1995**. Abstr. ORGN 375.
41. Biaryl O-Carbamate Remote Metalation Reactions. Studies Towards the Total Synthesis of the Defucogilvocarin Family of Antibiotics. C. James and V. Snieckus. 209th National ACS Meeting, Anaheim, CA, April 2-6, **1995**. Abstr. ORGN 376.
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 154. Ascic, E., Harmata, M., Månsson, K., Wärnmark, K., Snieckus, V., Towards Synthesis of New Tröger's Base Derivatives, American Chemical Society, NERM, Burlington, Vermont, June 29-July 2, 2008.
 155. Snieckus, V., Bonding Boron to Aromatic Metalation Synthetic Strategies, Matteson Symposium, Pullman, Washington, September 13, 2008.
 156. Kåre B. Jørgensen, Toni Rantanen, Thilo Dörfler, and Victor Snieckus. Synthesis of 1-Methylphenanthrene Metabolites by Directed Metalation Strategies. Canadian Society for Chemistry 2009, Hamilton, Ontario May 30-June 3, 2009.
 157. Jignesh J. Patel, Manlio Alessi and Victor Snieckus. Studies towards the Total Synthesis of Isoprekinamycin. Canadian Society for Chemistry 2009, Hamilton, Ontario May 30-June 3, 2009.
 158. Emilie David, Josefine Karlsson, Erhad Ascic, Victor Snieckus, Kenneth Wärnmark, Michael Harmata Synthesis of new Tröger's base derivatives. Canadian Society for Chemistry 2009, Hamilton, Ontario May 30-June 3, 2009.
 159. Katherine A. Groom, V. Snieckus, D. Zechel. Investigating RebC-Mediated Chemoselective Oxidation during Rebecamycin Biosynthesis. Canadian Society for Chemistry 2009, Hamilton, Ontario May 30-June 3, 2009.
 160. Gan, Wei; Snieckus, Victor; Lemieux, Robert. Synthesis of A New LC Material with Phenanthrene Core by A Combined Metalation-Cross Coupling Route. Canadian Society for Chemistry 2009, Hamilton, Ontario May 30-June 3, 2009.
 161. Yigang Zhao, Victor Snieckus. Reduction of Tertiary Amides to Aldehydes by *in situ* Generation of Schwartz Reagent [Cp₂Zr(H)Cl]. Canadian Society for Chemistry 2009, Hamilton, Ontario May 30-June 3, 2009.
 162. Hurst, T., Macklin, T., Hartmann, E., Kugel, W., Parisienne-La Salle, J.-C., Becker, M., Schneider C., Marder, T., Snieckus, V., Synthesis of regioisomeric aryl boronates via complementary methodologies, International Conference on Heterocyclic Chemistry, St. John's, Newfoundland, August 2-8, 2009.
 163. Yigang Zhao, Justin Morin, and Victor Snieckus, Reduction of tertiary amides to aldehydes by *in situ* generated Schwartz reagent [Cp₂Zr(H)Cl]. Link to the directed *ortho* metalation (DoM) reaction, International Conference on Heterocyclic Chemistry, St. John's, Newfoundland, August 2-8, 2009.
 164. Yigang Zhao, Andrew Larkin, Victor Snieckus, Towards the synthesis of lysergic acid *via* a directed *ortho* metalation (DoM) strategy, International Conference on Heterocyclic Chemistry, St. John's, Newfoundland, August 2-8, 2009.
 165. Wei Gan, Robert Lemieux, Victor Snieckus, Synthesis of A New Liquid Crystal (LC) Material with Phenanthrene Core by A Combined Metalation-Cross Coupling Strategy, International Conference on Heterocyclic Chemistry, St. John's, Newfoundland, August 2-8, 2009.
 166. Josefine Karlsson, Erhad Ascic, Victor Snieckus, Kenneth Wärnmark, Michael Harmata, Synthesis of new Tröger's Base Derivatives, International Conference on Heterocyclic Chemistry, St. John's, Newfoundland, August 2-8, 2009.
 167. Antoft-Finch, A., Blackburn, T., Snieckus, V. *N,N*-Diethyl *O*-Carbamate: Directed Metalation Group and Orthogonal Cross-Coupling Partner, 38th SOUSCC, Toronto, ON, March 2010.

168. Rantanen, T., Miller, R., Snieckus, V., So you think you can dance, pyridine? 239th ACS Conference, San Francisco, CA, March 21-25, 2010.
169. C. Schneider, E. Broda, and V. Snieckus. Synthesis of aryl/heteroaryl sulfonamides boropinacolates and their application. 239th ACS Conference, San Francisco, CA, March 21-25, 2010.
170. E. David, C. Schneider, V. Snieckus, Investigating the chemoselectivity of RebC-assisted biosynthesis of rebeccamycin Directed *ortho* metalation approach to C-4 substituted 7-azaindoles, 239th ACS Conference, San Francisco, CA, March 21-25, 2010.
171. Yigang Zhao, Victor Snieckus. Reduction of Tertiary Amides to Aldehydes by *in situ* Generation of Schwartz Reagent [Cp₂Zr(H)Cl]., Balticum Organicum Syntheticum 2010, Riga, Latvia, June 27-30, 2010.
172. da Silva, A., Snieckus, V., Regioselective Arylation of Fluorenone Skeleton via Combined Ru- and Pd-Catalyzed Suzuki Cross Coupling Reactions, 93rd CSC, Toronto, ON, May 30-June 3, 2010.
173. Ricarda E. Miller, Victor Snieckus² and Ulrich Groth, Unexpected One-Pot Sequential Halogen Dance – Anionic *Ortho* Fries Rearrangement Of *O*-Aryl Carbamates, Balticum Organicum Syntheticum 2010, Riga, Latvia, June 27-30, 2010.
174. Yigang Zhao, Justin Morin, Victor Snieckus, Reduction of Tertiary Amides to Aldehydes by *in situ* Generation of Schwartz Reagent [Cp₂Zr(H)Cl]. Link to the Directed *ortho* Metalation (DoM) Reaction. 10th Winter Conference on Medicinal and Bioorganic Chemistry, Steamboat Springs, Colorado, Jan 23-27, 2011.
175. Adam Friedman, Matthew Kitching, Yigang Zhao, Victor Snieckus, Directed *ortho* Metalation Route Towards C-7 Functionalized Benzimidazoles. 94th CSC, Montreal, QC, June 5-9, 2011.
176. Jenn Cosman, Victor Snieckus, Directed *ortho* Metalation Chemistry. Towards the Development of a Boron Based Directing Metal Group, 94th CSC, Montreal, QC, June 5-9, 2011.
177. Yigang Zhao, Justin Morin, Victor Snieckus, Mild Selective Reduction of Tertiary Amides to Aldehydes via the *in situ* Generated Schwartz Reagent [Cp₂Zr(H)Cl]. Link to the Directed *ortho* Metalation (DoM) Reaction, 94th CSC, Montreal, QC, June 5-9, 2011.
178. Tim Hurst, Alcides da Silva, Victor Snieckus, Negishi Cross Coupling of Vinylzincs with Aryl Halides and Triflates. A Friedel-Crafts Equivalent for the Regioselective Synthesis of Polysubstituted Acetophenone Derivatives, 94th CSC, Montreal, QC, June 5-9, 2011.
179. Cedric Schneider, Alcides da Silva, Victor Snieckus, Chemoselective Catalytic C-O Activation. Construction of Polyarylated Fluorenones *via* Ru- and Pd-Catalyzed Suzuki Cross-Coupling Reactions, 94th CSC, Montreal, QC, June 5-9, 2011.
180. Ricarda Miller, H. Fan, Ulrich Groth, Victor Snieckus, Synthesis of Schumanniohytinderivatives via key Remote Anionic Fries rearrangement, 23rd ICHC, Glasgow, Scotland, July 31-August 4, 2011
181. Timothy E. Hurst, Matthew Kitching, and Victor Snieckus, Copper Catalyzed Cascade Interrupted by an Opportunistic Smiles Rearrangement: An Efficient Domino Approach to Dibenzoxazepinones, 4th Annual Queen's Chemistry Graduate Symposium, Kingston, ON, September 7th, 2011.
182. Matthew Kitching, Adam Friedman, Yigang Zhao, Victor Snieckus, *Towards the Regioselective Functionalization of C-7 Substituted Benzimidazoles*, 4th Annual Queen's Chemistry Graduate Symposium, Kingston, ON, September 7th, 2011.
183. Toni Rantanen, Jennifer Cosman, Victor Snieckus, *Snieckus Innovations – Solving Synthetic Challenges and Learning Along the Way*, 4th Annual Queen's Chemistry Graduate Symposium, Kingston, ON, September 7th, 2011.
184. T.E. Hurst, M. O. Kitching, F. Lee and V. Snieckus, *Copper-Catalyzed Cross-Coupling Interrupted by an Opportunistic Smiles Rearrangement: An Efficient Domino Approach to Dibenzoxazepinones*, The 15th Symposium on the latest trends in Organic Synthesis, St. Catharines, ON, August 8-12, 2012.

185. M. Dalziel, M. Kitching, C. Schneider, A. Bailey, C. Crudden, V. Snieckus*, Dancing DMGs: Regioselective Functionalization of Azine or Azole in Azaindole, The 15th Symposium on the latest trends in Organic Synthesis, St. Catharines, ON, August 8-12, 2012.
186. Jennifer L. Cosman, Johnathan Board, Toni Rantanen, Victor Snieckus*, Serendipitous Discovery of an Efficient Synthesis of 4-Chloro-2H-Chromenes and Their Derivatives, The 15th Symposium on the latest trends in Organic Synthesis, St. Catharines, ON, August 8-12, 2012.
187. Suneel P. Singh, Adam Friedman, Matthew O. Kitching, Victor Snieckus, Selective metallation of substituted benzimidazole, The 15th Symposium on the latest trends in Organic Synthesis, St. Catharines, ON, August 8-12, 2012.
188. Jennifer L. Cosman, Johnathan Board, Toni Rantanen, Victor Snieckus, Serendipitous Discovery of an Efficient Synthesis of 4-Chloro-2H-Chromenes and Their Derivatives, 5th Annual Queen's Chemistry Graduate Symposium, Kingston ON, September 7, 2012.
189. Timothy Hurst, Synthetic Efforts Towards a New Treatment for Tuberculosis, 5th Annual Queen's Chemistry Graduate Symposium, Kingston ON, September 7, 2012.
190. Michael Dalziel, Dancing Directed Metalation Groups: Regioselective Functionalization of Azaindoles, 5th Annual Queen's Chemistry Graduate Symposium, Kingston ON, September 7, 2012.
191. Matthew Kitching, Towards the Regioselective Functionalization of C-7 Substituted Benzimidazoles, 5th Annual Queen's Chemistry Graduate Symposium, Kingston ON, September 7, 2012.
192. C.-H. F. Lee, K. G. Guimarães, T. E. Hurst, M. O. Kitching, A. J. M. da Silva, V. Snieckus, Towards the Total Synthesis of (\pm)-Paralycolin A, SOUSCC 2013, McMaster University, Hamilton, ON, March 30th, 2013.
193. Christopher A. Ziebenhaus, Matthew O. Kitching, Jignesh Patel, and Victor Snieckus, Towards the Total Synthesis of Isoprekinamycin and the Related Fluostatin Natural Products, SOUSCC 2013, McMaster University, Hamilton, ON, March 30th, 2013.
194. Victor Snieckus, It's Organic! The Imprint of David Harpp, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.
195. Keller Guimarães, Victor Snieckus, Towards the Total Synthesis of (!CB1)-Paralycolin A, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.
196. Michael Dalziel, Victor Snieckus, Dancing Directed Metalation Groups: Regioselective Functionalization of Azaindoles, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.
197. Suneel Singh, Victor Snieckus, A Directed ortho-Metalation (DoM) Strategy for the Synthesis of C-7 (C-4) Substituted Benzimidazoles, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.
198. Christopher A. Ziebenhaus, Matthew O. Kitching, Jignesh Patel, and Victor Snieckus, Towards the Total Synthesis of Isoprekinamycin and the Related Fluostatin Natural Products, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.
199. Jenn Cosman, Victor Snieckus, Serendipitous Discovery of an Efficient Synthesis of 4-Chloro-2H-Chromenes and Their Derivatives, 96th Canadian Chemistry Conference and Exhibition in Québec, Quebec, May 26-30, 2013.

GRADUATE STUDENTS

(a) Ph.D. Theses

1. G.Y.-P. Kan (1970): Selected Studies of N-Iminopyridinium Ylides and Pirylium and Thiopyrylium Salts. External Examiner: P.A.S. Smith, University of Michigan, USA.

2. K.S. Bhandari (1970): Catalytic, Photochemical and Thermal Decomposition of Indole-2-diazoketone. Chemistry of 2-(2-Aminoethyl) Indole Derivatives. External Examiner: S. McLean, University of Toronto.
3. J.A. Eenkhoorn (1971): Approaches Towards the Synthesis of the Uleine-Type Alkaloids. External Examiner: E. Warnhoff, University of Western Ontario.
4. H.O. Bernhard (1971): Synthetic Approaches Towards the Rhoeadine Papaverrubine Alkaloids. Synthesis of Schoepf-Schweickert Amine VI. External Examiner: D.B. MacLean, McMaster University.
5. S.O. de Silva (1973): Wittig Synthesis and Photocyclization Reactions of some 2- and 3- (2-Aryl) Vinylindoles. External Examiner: E. Wenkert, Rice University, USA.
6. I. Ahmad (1976): Synthetic Routes to the Rhoeadine and the Phthalideisoquinoline Alkaloids. External Examiner: M. Shamma, Penn. State University, USA.
7. D.J. Harris (1976): Organic and Organometallic Chemistry of 1,2-Diazepines. External Examiner: J. A. Moore, University of Delaware, USA.
8. F.W. Widmer (1977): Purification and Partial Characterization of Tryptophan-5-Hydroxylase. External Examiner: N. Cohen, NIH, Bethesda, MD, USA.
9. G.B. Mpango (1980): Metalated α,β -Unsaturated Amides in Organic Synthesis. Application to the Synthesis of 1-Aryltetralin Lignans. External Examiner: P. Beak, University of Illinois, USA.
10. M. Majewski (1982): Amide Dienolate Alkylations. Synthesis of Pyrethroid Amides. External Examiner: M.W. Rathke, Michigan State University, USA.
11. R.J. Mills (1985): Silicon in Benzamide Directed Metalation Reactions. External Examiner: J.C. Martin, University of Illinois, USA.
12. J.N. Reed (1985): *Ortho*-Amination of Lithiated Tertiary Benzamides, Synthesis of Anthranilamides, Acridones and the Antibiotic Anthramycin. External Examiner: E. Vedejs, University of Wisconsin, USA.
13. M.A.J. Miah (1985): The Tertiary Amide and Carbamoyloxy Groups in Aromatic Directed Metalation. Synthesis of Polysubstituted Benzene and Pyridine Derivatives. External Examiner: R. Fraser, University of Ottawa.
14. M.I. Mumtaz (1986): Dilithiated Aliphatic Diamides. Methodology and Synthesis of Lignan Natural Products. External Examiner: A. Schultz, Rennsalaer Polytechnic Institute, USA.
15. J.R. Green (1987): I. γ -Silylated α,β -Unsaturated Amides: Preparation and Condensation Chemistry. II. Stereoselectivity in Amide Dienolate Formation. External Examiner: R. Schlessinger, University of Rochester, USA.
16. E.G. Doadt (1988): The Directed Aromatic Metalation Reaction. Synthesis of Anthraquinones, Polysubstituted Thiophenes and, Via Benzynes, 1,4-Epoxynaphthalenes. External Examiner: G. Gribble, Dartmouth College, USA.

17. M.A. Siddiqui (1990): The Directed *ortho* Metalation and Palladium Catalyzed Aryl-Aryl Cross Coupling Reactions. Synthesis of Heteroaromatics and Alkaloids. External Examiner: D. Comins, North Carolina State University, USA.
18. J.-m. Fu (1990): Combined Directed *ortho* Metalation - Pd(O) - Catalyzed Cross Coupling Strategies. Regiospecific Synthesis of 9-Phenanthrols and Fluorenones including Dengibsinin. External Examiner: W. Wulff, University of Chicago, USA.
19. X. Wang (1992): Synthetic Applications of Directed *ortho* Metalation and Palladium Catalyzed Aryl-Aryl Cross Coupling Reactions. External Examiner: L. Hegedus, Colorado State University, USA.
20. Bao-ping Zhao (1994): Remote Directed Metalation. A Regiospecific and Efficient Preparation of Fluorenone Derivatives Including Natural Products. External Examiner: L.S. Liebeskind, Emory University, USA.
21. F. Beaulieu (1994): The Thiocarbamate as a Dual Directed Metalation and Cross Coupling Group Intramolecular 1,5-Hydrogen Atom Transfer in Aromatic Amides. External Examiner: G. Stork, Columbia University, USA.
22. M. Tsukazaki (1995): Synthetic Application of O-Vinyl and O-Arylcarbamates. Synthesis of Dihydroxyethylene Dipeptide Isosters and Benzofuran 5-Lipoxygenase Inhibitor Analogues and Synthesis and Reactivities of 2-Substituted Allyltrimethylsilane and 3,4-Pyridyne Precursors. External Examiner: P. Parsons, University of Sussex, UK.
23. M. Campbell (1996): I. Mechanistic Investigations into the Suzuki Cross Coupling Reaction and Its Application to Synthesis. II. Synthesis of Macrocyclic Ligands for the Complexation and Detection of Aromatic Pollutants. External Examiner: S.L. Buchwald, Massachusetts Institute of Technology, USA.
24. C. Quesnelle (1996): Methodological and Comparative Studies on Directed *ortho* Metalation of Aryl *tert*-Butyl Sulfoxides and Ni(0)-Catalyzed Cross Coupling of Aryl Triflates and *O*-Aryl Carbamates. Studies Directed Toward the Total Synthesis of Sterigmatocystin. External Examiner: L.S. Hegedus, Colorado State University, USA.
25. Clint A. James (1998): The Directed Remote Metalation – Carbonyl Migration Reaction. Total Syntheses of the Defucogilvacarcins and Arnottin I and Synthesis of Heteroaryl-fused Benzopyranones. External Examiner: David Hart, Ohio State University, USA.
26. Sylvie Chamoin (2000): Aryl-Aryl Stille and Suzuki-Miyaura Cross Coupling Reactions on Solid Support. External Examiner: Thomas Hoye, University of Minnesota, USA.
27. Brian Chapell (2000): Directed *ortho* Metalation for Synthesis of Chromenes and Indoles. External Examiner: Scott Denmark, University of Illinois, Urbana-Champaign, USA.
28. Costa Metallinos (2001): Planar Chiral Ferrocenyl Ligands. Synthesis and Modification. External Examiner: Henri Kagan, Université Paris Sud, France.
29. Brian Chauder (2001): Combined Directed *ortho* Metalation-Transition Metals Catalyzed Coupling Reactions. External Examiner: Marc Snapper, Boston College, USA.

30. Stephen MacNeil (2002): The Tertiary Sulfonamide as a Directed Metalation Group. External Examiner: Derrick Clive, University of Alberta.
31. Robert Milburn (2003): Tertiary Aryl Sulfonamides as New Cross Coupling Partner for Ni Catalyzed Kumada-Corriu-Tamao Reductive and C-C Bond Forming Cross Coupling Reactions. External Examiner: Andre Charette, Université de Montreal.
32. Adam McCubbin (2004). Directed Metalation Approach to Ferroelectric Liquid Crystals with Chiral Fluorene Cores: The Effect of Restricted Rotation and Hydrogen Bonding on Polar Order. External Examiner: Danial Dyer, Southern Illinois University, USA.
33. Zhongdong Zhao (2006.): Direct *ortho* Metalation - Electrophile-Induced *Ips*o-Desilylation Reactions. Towards Unconventional Aromatic Substitution Patterns. External Examiner: Rob Batey, University of Toronto.
34. Todd Macklin (2007): The Development of Sulfamates as Latent Directed Metalation Groups. Total Synthesis of Schumanniphytine. Divergent Synthesis of Substituted Chromone 3- and 8-Carboxamides External Examiner. M. Smith, III, Michigan State University, USA.
35. Manlio Alessi (2008): Towards the Synthesis of Isoprekinamycin. The phosphorodiamidate Directed Metalation Group. G. Molander, University of Pennsylvania, USA.
36. Wei Gan (2009): A combined metalation and cross-coupling route to a new smetic liquid crystal with a phenanthrene core. G. Bodwell, Memorial University, St. John's, Newfoundland.
37. Yigang Zhao (2010): Reduction of Tertiary Benzamides to Benzaldehydes by an in situ-Generated Schwartz Reagent (Cp₂Zr(H)Cl); Formal Synthesis of Lysergic Acid. Gunda George, University of Minnesota.
38. Katherine Groom (2013): Investigation of the Chemoselectivity of RebC-Assisted Biosynthesis of Rebecamycin and Synthesis of Stable Analogues of Chromopyrrolic Acid, Paul Harrison, McMaster University.

(b) M.Sc. Theses

1. E. Watson (1970): Selected Ketocarbene and Nitrene Reactions in Heterocyclic System.
2. A.H.E. Wu (1975): A formal Synthesis of the Complex Indole Alkaloids (±)-Condyfoline and (±)-Tubifoline and (±) Tubifolidine.
3. I.O.W. Tse (1976): Photochemical Preparation of Pyrrolo-[2,1-b] [3] benzazepines. A Synthetic Approach to Cephalotaxux Alkaloids.
4. R.I. Wojtyk (1977): The Synthesis of Tetrahydrocannabinol, its Tritiation by Isotopic Exchange, and the Synthesis of its Epoxides.
5. J.A. Oakleaf (1977): I. Alkylation of Metalated Unsaturated Amides. II. Computer Teaching of Organic Synthesis.
6. Mutus, B. (1977): Studies on Tryptophan-5-Monooxygenase.

7. J.N. Reed (1979): I. Synthesis of the Isoindole [1,2-b] Isoquinoline and Isoindolo [1,2-b] [3] Benzazocene Ring Systems.
8. R. Billedeau (1983): Directed *ortho* Lithiation of Tertiary Benzamides. 1. Synthesis of Phthalide and Isocoumarin Natural Products. 2. O→C Silicon Migrations.
9. N. Altintas (1985): Synthetic Studies Towards Anthracyclinone Antibiotics.
10. M.J. Sharp (1986): Biaryls by the Cross-Coupling of Directed Metalation Derived Aryl Boronic Acids with Haloarenes.
11. C. Sloan (1987): Radical-Induced Cyclization Routes to Heterocycles.
12. K. Cullen (1988): Aza-Polycyclic Aromatic Hydrocarbons: A Review of the Literature.
13. H. Perrier (1989): Directed *ortho* Metalation of Phenyl and Pyridyl *t*-Butyl Sulfones and *t*-Butyl Sulfoxides.
14. C. Unrau (1991): The Design and Synthesis of Molecular Cavity Receptors for α -Amino Acids. Polyaryl Synthesis Using 2:1 Pd(O)-Catalyzed Boronic Acid Cross Coupling.
15. W. Wang (1991): Directed *ortho* and Remote Aromatic Metalation. Synthesis of Highly Substituted Biaryls, Dibenzo[b,d]Pyranones and 3,3'-Substituted-1,1'-Bi-2-Naphthols.
16. J. Arora (1995): [1,5]-Hydrogen Atom Translocation in Thiobenzamides and Pyrimidinones. Mechanistic and Synthetic Studies.
17. A. Kinsman (1997): Directed *ortho* Metalation-cross Coupling Route to *ortho*-quinodimethanes. Synthesis of Benz[e]indoles.
18. K. Puumala (1997): I. Directed *ortho* Metalation and Cross Coupling Reactions of O- and S-Aryl Thiocarbamates. II. DoM and Cross Coupling Methodologies in Polysubstituted Naphthalene Synthesis
19. Stephen MacNeil (1997): Synthesis of Acridone Alkaloids by an Anionic Friedel Crafts Equivalent.
20. Brian A. Chauder (1998): Methodological Studies on the Phenylboronic Acid-mediated Synthesis of 2H-1-Benzopyrans. Total Synthesis of Plicadin, A Coumestan from *Psoralea plicata*.
21. Bing Miao (1998): Towards the Total synthesis of Karnamicin B2.
22. Robert Milburn (1999): Synthesis of 3,3'-Diarylsubstituted BINOLs.
23. Christopher Kendall (1999): The Directed *ortho*-metalation Suzuki-Miyaura Cross Coupling Connection towards the Total Synthesis of Dehydrorabelomycin.
24. Laine Green (2001): Synthesis of functionalized pyridine boronic acids and connections to Cross Coupling.
25. Chunfeng Yin (2001): Directed *ortho* Metalation (DoM) and Suzuki-Miyaura Cross Coupling.

26. Claire Milburn (2002): The Directed ortho Metalation Reaction of Aryl O-Carbamates on Solid Support.
27. Andrew Larkin (2002): Studies Towards the Total Synthesis of (\pm)-Lysergic Acid.
28. Roseanne Quinn (2002): Phosphorous-based Directed Metalation Groups: Suzuki-Miyaura Cross Coupling.
29. Brian Wilson (2004): Anionic ortho-Fries Rearrangement of N-Carbamoyl Diarylamines. Synthesis of the Acridone Alkaloid Junosidine.
30. Chris Jones (2005): Directed ortho Metalation - Cross Coupling Methodology of Naphthalene 1,8-Bis-Diethylamide.
31. Kevin Ogilvie (2006): The DoM - Halogen Dance Combo: Synthesis of Tri- And Tetra-Substituted Pyridines By Directed ortho Metalation - Halogen Dance Methodology.
32. Justin Morin (2006): The *Peri*-Metalation of Naphthalenes.
33. Ping-Shan Lai (2007): Directed ortho metalation-boronation Suzuki-Miyaura cross coupling leading to synthesis of azafluorenol core liquid crystals.
34. Thomas Blackburn (2009): Progress in directed ortho Metalation, and II. Generating chirality in periodic mesoporous organosilica.
35. Michael (in progress, co-supervisor: Andrew Evans): New Enantioselective Allylation – Directed ortho Metalation Synthetic Methodology.
36. Jenn Cosman (in progress, co-supervisor: Andrew Evans): New Enantioselective Allylation – Directed ortho Metalation Synthetic Methodology.

CURRENT RESEARCH GROUP

GRADUATE STUDENTS

Katie Groom	Ph.D.	Joint (D. Zechel)	2005	Complete
Michael Dalziel	M.Sc.	Joint (A. Evans)	2013	Active
Jenn Cosman	M.Sc.	Joint (A. Evans)	2013	Active

POST DOCTORAL FELLOWS AND VISITING SCIENTISTS

Toni Rantenan	Chemistry Manager, <i>Snieckus Innovations</i>
Johnathan Board	Chemistry Manager, <i>Snieckus Innovations</i>
Timothy Hurst	Postdoctoral Fellow
Matthew Kitching	Postdoctoral Fellow
Ondrej Kysilka	Postdoctoral Fellow
Suneel Singh	Postdoctoral Fellow, <i>Snieckus Innovations</i>
Ashish Maheta	Visiting Scientist, <i>Snieckus Innovations</i>

GRADUATE STUDENTS AND POST DOCTORAL FELLOWS, 1967-PRESENT**STUDENT (M.Sc.)****PRESENT POSITION**

- | | |
|--------------------------------|--|
| 1. Altintas, N. | University of British Columbia |
| 2. Arora, J. | Research Chemist, NPS, Mississauga, ON |
| 3. Balint, R. | Head, Anal Lab, MTC, Waterloo |
| 4. Benesch, L. | unknown |
| 5. Blackburn, T. | Research Chemist, 3M, London, ON |
| 6. Billedeau, R. | Research Chemist, Roche, Palo Alto, CA |
| 7. Miao, B. | CIDtech Research Inc. Cambridge, ON |
| 8. Cheng, W.L. | unknown |
| 9. Cullen, K. | Brandon, Manitoba |
| 10. Green, L. | Medical School, Dalhousie, NS |
| 11. Holder, M. | Brock University |
| 12. Ionica, I. | Research Chemist, Toronto, ON |
| 13. Jones, C. | M.Sc. 200?, Queen's U |
| 14. Joseph, B. | Research Chemist, NPS, Mississauga, ON |
| 15. Kendall, C. | AstraZeneca, Montreal, Que |
| 16. Kinsman, A. | Research Chemist, Apotex (BCI) Brandford, ON |
| 17. Larkin, A. | Research Chemist, GSK, Raleigh, NC |
| 18. Laufer, R. | Group Leader, OSI, NJ |
| 19. Miao, B. | Group Leader, CIDtech, Cambridge, ON |
| 20. Milburn, C. | Chemist, Amgen, Thousand Oaks, CA |
| 21. Morin, J. | Cancer Research Institute, Toronto, ON |
| 22. Mutus, B. | Professor, University of Windsor, ON |
| 23. Oakleaf, J. | Brampton, ON |
| 24. Oglivie, K. | M.Sc. Student, 2003- , Queen's U |
| 25. Palencia, H. (CIDA Fellow) | Ph.D. Student, U. Nebraska |
| 26. Perrier, H. | Chemist, Amgen, Thousand Oaks, CA |
| 27. Puumala, K. | Chemist, Research Triangle Park, NC |
| 28. Quinn, R. | Research Chemist, GSK, Raleigh, NC |
| 29. Reed, J.N. | Professor, Thompson Rivers University, BC |
| 30. Sharp, M.J. | Head, Process Labs, GSK, Raleigh, N.C. |
| 31. Sloan, C. | Research Chemist, BMS, CT |
| 32. Tse, I.O.W. | University of Western Ontario, ON |
| 33. Unrau, C. | Teacher's College, U Toronto, ON |
| 34. Wang, W. | Research Chemist, BMS, CT |
| 35. Watson, E. | Birmingham, England |
| 36. Wilson, B. | Chemist, GSK, Raleigh, NC |
| 37. Wojtyk, R.I. | Surgeon, Ottawa, ON |
| 38. Wu, A. | Connaught Laboratories, Toronto, ON |
| 39. Yin, Feng | Chemist, Pfizer-Agouron, San Diego, CA |

STUDENT (Ph.D.)**PRESENT POSITION**

- | | |
|-----------------------------------|--|
| 1. Ahmad, I. | Ministry of the Environment, Toronto, ON |
| 2. Alessi, M. | Vanier College, Quebec |
| 3. Alves, G.B.C.(CNPq Fellowship) | Chemist, U Rio de Janeiro, Brazil |
| 4. Anctil, E. | Teacher, Montreal, Quebec |
| 5. Beaulieu, F. | Research Chemist, BMS, Candiac, Que |

6. Bernhard, H.O.
 7. Bhandari, K.S.
 8. Brustle, S. (GDCh Fellowship)
 9. Cai, X.
 10. Campbell, M.
 11. Chapell, B.
 12. Chauder, B
 13. Chamoin, S.
 14. Da Silva, A. (CNPq Fellowship)
 15. De Silva, S.O.
 16. Doadt, E.G.
 17. Eenkhoorn, J.A.
 18. Espuga, P.(Spain Fellowship)
 19. Felding, J. (Visiting Ph,D. Student)
 20. Fu, J.M.
 21. Focken, T. (GDCh Fellowship)
 22. Garcia, E. (Spain Fellow)
 23. Green, J.R.
 24. Harris, D.J.
 25. Hundsdorf, T.(German Fellowship)
 26. James, C.
 27. Kan, G. Y. P.
 28. Kauch, M. (Humboldt Fellowship)
 29. Koning, B.J. (STIR Fellow)
 30. Macklin, T.
 31. MacNeil, S.
 32. Maillet, M. (France Govt Fellowship)
 33. Majewski, M.
 34. McCubbin, A.
 35. Metallinos, C.
 36. Miah, M.A.J.
 37. Milburn, R.
 38. Mpango, G.B.
 39. Miao, G.
 40. Mills, R.J.
 41. Mumtaz, M.I.
 42. Pla, A. (Spain Fellowship)
 43. Quesnelle, C.
 44. Reed, J.N.
 45. Rodrigues, D. (CNPq Fellowship)
 46. Schneurch, M. (Austrian Fellowship)
 47. Siddiqui, M.A.
 48. Stefinovic, M.
 49. Tsukazaki, M.
 50. Wang, X.
 51. Widmer, F.W.
 52. Zhao, B.P.
 53. Zhao, Y.
 54. Zhao, Z.
- Director, Seigfried AG, Switzerland
Teacher, Strathcona Lodge School, BC
Ph.D. Student, U Erlangen-Nurnberg
Ph.D. Student, 200?- ,Queen's U
Computational Chemist, Raleigh, NC
Professor, Mohawk College, ON
Research Chemist, GSK, Raleigh, NC
Research Chemist, Novartis, Suisse
Professor, U Rio de Janeiro, Brazil
Instructor, University of Waterloo, ON
Principal, Bluevale, Kitchener, ON
Ordained Minister, somewhere
Ph.D. Student, U Barcelona, Spain
Res Assoc, U Copenhagen, Denmark
Director, Xenon Gen, Burnaby, BC
PDF, U. Montreal (A. Charette)
Ph.D. Student, U de Pais Vasco, Spain
Professor, U of Windsor, ON
Head, Govt Anal Labs, Perth, Australia
Ph.D. Student, U Darmstadt, Germany
Research Chemist, BMS, Montreal, Que
Head, Anal Labs, Environ Canada, BC
Ph.D. received, U Munster, Gemany
Ph.D. received, U Gronigen, Netherlands
Research Chemist, Takeda Pharmaceuticals, CA
Professor, Wilfred Laurier U, ON
Chemist, Rhone-Poulenc, France
Professor, U of Saskatchewan
Professor, U. Winnipeg, Manitoba
Professor, Brock University, ON
Professor, U of Rajshahi, Bangladesh
Senior Research Chemist, Amgen, CA
Professor, Makerere University, Uganda
Research Chemist, Arquel, Boston, MA
Head, Process, SKF, Philadelphia, PA
Chemist, Dow Chemical Co. Sarnia, ON
Ph.D. Student, U de Girona, Spain
Group Leader, BMS, Candiac, Que
Professor, Thompson Rivers University, BC
Ph.D. Student, U Rio de Janeiro, Spain
Ph.D. Student, Tech U. Wien, Austria
Director, Shering-Plough, Boston, MA
Research Chemist, Sanofi, Austria
Group Leader, Roche Japan
Research Chemist, Amgen, CA
Director, Biotech. Inc. Denmark
Research Chemist
Postdoctoral Fellow, Snieckus Innovations
Research Chemist, Gilead Inc.

POST DOCTORAL FELLOWS AND VISITING SCIENTISTS

PRESENT POSITION

- | | |
|--|---|
| 1. Alo, B.(NSERC/CIDA Fellow) | Professor, U Lagos, Nigeria |
| 2. Alves, T. (CNPq Fellowship) | U Minas Gerais, Brazil |
| 3. Aubert, T. (NATO Fellow) | Chemist, Rhone-Poulenc, France |
| 4. Bientinesi, I. | U Pisa, Italy |
| 5. Blanchet, J. | Chemist, IRCOF Rouen, France |
| 6. Bower, J. | Research Chemist, Robotech, UK |
| 7. Brandao, M. (CAPES Fellowship) | Professor, U Minas Gerais, Brazil |
| 8. Ellen Broda (Visiting M.Sc.) | Ludwig-Maximillians University, Germany |
| 9. Brough, P. | Research Chemist, Ribotargets, UK |
| 10. Bury, P. | Gr Leader, Manchester, UK |
| 11. Chattopadhyay S.(Visiting Professor) | Professor, Jadavpur U, India |
| 12. Chieffi, A. (CNPq Fellowship) | Professor, U Rio de Janeiro, Brazil |
| 13. Chong, R. | Chemist, U of Waterloo, ON |
| 14. Coehlo, A. (CNPq Fellowship) | Chemist, U Rio de Janeiro, Brazil |
| 15. Cox, P. | Director of Research, Sanofi-Aventis, NJ |
| 16. Cuevas, C. (NATO Fellowship) | Research Chemist, GSK, Spain |
| 17. Da Silva, Alcides | Professor, Brazil |
| 18. David, Emilie | Postdoctoral Fellow, Université Rouen, France |
| 19. De Silva, S.O. | Instructor, U of Waterloo, ON |
| 20. Derdau, V. (DAAD Fellowship) | Research Chemist, Aventis, Germany |
| 21. Dexter, C. (Royal Soc Fellowship) | Gr Leader, Rhodia Pharma, UK |
| 22. Dmitirienko, G.I. | Professor, U of Waterloo, ON |
| 23. Egestad. B. (Swedish Fellowship) | Gr Leader, Neurosearch, Denmark |
| 24. Emslie, N. (Visiting Professor) | Professor, U of Natal, South Africa |
| 25. Engqvist, R. | Chemist, Astra-Zeneca, Sweden |
| 26. Epsztajn, J. (Visiting Professor) | Professor, Lodz University, Poland |
| 27. Faessler, J. (Suisse Fellowship) | Chemist, Zurich, Switzerland |
| 28. FAMILONI, W. (CIDA/NSERC Fellow) | Professor, U Lagos, Nigeria |
| 29. Fecher, A. (DAAD Fellowship) | Chemist, Pharma, Germany |
| 30. FAMILONI, W. (Visiting Professor) | University of Nigeria, Lagos, Nigeria |
| 31. Gan, Wei | Postdoctoral Fellow, U. Ottawa |
| 32. Garcia, J. (Spain Fellowship) | Professor, U de Navarra, Spain |
| 33. Gharpure,M. | PDF, VPI, Blacksburg, VA |
| 34. Glanser, J. | unknown |
| 35. Gray, M. | Gr Leader, GSK, UK |
| 36. Greff. Z. (CIDA Fellowship) | Chemist, EGIS, Budapest, Hungary |
| 37. Griffen, E. | Gr Leader, AstraZeneca, UK |
| 38. Guillauneux, D. (France Fellowship) | Research Chemist, France |
| 39. Hartung, C. (Humboldt Fellow) | Research Chemist, Axxima, Germany |
| 40. Henaff, N. | Chemist, Rhone Poulenc, France |
| 41. Houldsworth, S. | Director, Dalton Chem, Toronto, ON |
| 42. Shakil Hussain (Visitin Ph.D) | University of Karachi, Pakistan |
| 43. Iihama, T. (Visiting Scientist) | Research Chemist, Nippon Soda, Japan |
| 44. Iwao, M. | Professor, Nagasaki University, Japan |
| 45. Iwema-Bakker, W. (Dutch Govt Fellow) | Chemist, Solvay, The Netherlands |
| 46. Jablonski, C.R. | Professor, Memorial U, Nfld |
| 47. Jagusch, T. | MercaChem, The Netherlands |

48. Jin, Z. Chemist, Digital Chem, Toronto, ON
49. Johnson, M. Research Chemist, AMRI, Albany, NY
50. Jung, M. Research Chemist, BASF
51. Josephine Karlesson (Visiting, M.Sc.) Lund University, Sweden
52. Kandil, A. Chemist, Connaught Labs, Toronto, ON
53. Kalinin, A. (NATO Fellowship) Group Leader, Merck Sharp & Dohme, Rahway, USA

54. Katsuura, K. Manager, Tosoh Corp, Japan
55. Kimachi, T. Professor, Kyoto U, Japan
56. Korolev, D. Russia
57. Kothadaraman, S. Research Chemist, MSD, W Point, NJ
58. Lane, C. Research Chemist, Pfizer, UK
59. Leite, M. (CNPq Fellowship) Chemist, U Minas Gerais, Brazil
60. Lin, M. S. Research Chemist Sloan Kettering, ILL
61. Lopez, S. (Visiting Professor) Professor, U S. Bolivar, Venezuela
62. Mahalanabis, K.K. (CIDA Fellow) Professor, Jadavpur University, India
63. Mallet, M. (Govt France Fellowship) Chemist, Rhone-Poulenc, France
64. McKibben, B. Gr Leader, Boehringer-Ingelheim, NJ
65. Mercia, S. (CNPq Fellowship) Ph.D. student, U. Rio de Janeiro, Brazil
66. Miao, G. Research Chemist, ArQule, Boston, MA
67. Mohri, S.-i. (Visiting Scientist) Head, QC Labs, Kyowa Hakko, Japan
68. Mohri, K. (Visiting Professor) Professor, Showa College, Japan
69. Moriya, T. Research Chemist, somewhere Japan
70. Moreau, P. (Govt France Fellowship) Res Associate, U d'Orleans, France
71. Mizufune, H. (Visiting Scientist) Research Chemist, Takeda Co, Japan
72. Nerdinger, S. (DAAD Fellowship) Research Chemist, Sanofi-Aventis, Austria
73. Christian Nilewski (Visiting, M.Sc.) Post doctoral fellow, Scripps, CA
74. Nolte, B. (DAAD Fellowship) Research Chemist, Alantos Pharmaceuticals, Germany

75. Parsons, A. (South Africa Fellowship) Exec Dir, Chamber of Mines, S. Africa
76. Patel, J. GVK, India
77. Patil, P. Research Director, CIDtech, Cambridge, ON
78. Prien, O. Research Director, Schering AG, Germany
79. Rajapaksa, D. PDF, U of North Texas, TX
80. Mark Reed Group Leader, Treventis, Dalhousie, NS
81. Riebel, P. Director Process Res, DSM, Germany
82. Roe, D. Research Director, Torcan Chemicals, ON
83. Rogers-Evans, M. Group Leader, Roche, Basel, Switzerland
84. Roglans, A. (Spain Fellowship) Professor, U Girona, Spain
85. Scharl, Heiko Research Chemist, Austria
86. Schneider, Cedric Postdoctoral Fellow, Université Rouen, France
87. Schwaller, J.C. (NATO Fellow) Res Chemist, Rhone-Poulenc, France
88. Sengupta, S. Professor, Jadvapur University, India
89. Sibi, M. Professor, U of North Dakota, ND
90. Somera, N. (CAPES Fellowship) Professor, U Mato Grosso do Sul, Brazil
91. Sotomayor, N. (Spanish Fellowship) Professor, U del Pais Vasco, Spain
92. Superchi, S. (Italian Fellowship) Professor, U Potenza, Italy
93. Szillat, H (Humboldt Fellowship) Research Chemist, Aventis, Germany
94. Thomas, M.T. Chemist, Sunnybrook Med, Toronto, ON
95. Tinkl, M. Group Leader, CIBA, Basel, Suisse
96. Troisi, L. (Visiting Professor) Professor, U Lecce, Italy

97. Tschamber, T (NATO Fellow) Res Associate, U Haut Alsace, France
98. Tsuchiya, T. (Visiting Professor) Professor, Hokuriku U, Japan
99. Veith, U. Research Chemist, Lonza, Switzerland
100. Watanabe, M. Professor, Nagasaki U (†14.03.00)
101. Wicki, M.(Suisse Fellowship) Group Leader, 3M Canada, London, ON
102. Wiesner, C.J. Head, Res and Productivity Council, NB
103. Williams, K. University of British Columbia
104. Wong, P.L. Chemist, Scripps Institute, Philippines
105. Venkateswarlu, R. (Visiting Professor) Professor, Andhra U, India
106. Yin, C. Chemist, Toronto, ON
107. Zani, C. (CNPq Fellowship) Group Leader, Pesquisas- FIOCRUZ, Brazil
108. Zhou, Z. Professor, U Beijing, China
109. Zumbansen, Kristina Visiting M.Sc Student, Universitat Münster
110. Dr. Oleg Demchuk (NSERC/NATO) Professor, Maria Curie-Skłodowska University,
Lublin, Poland
111. Dr. Barbel Wittel Archimica, Stuttgart, Germany
112. Dr. Till Vogel BASF, Germany