

MARK LAUTENS, O.C., FRSC, D.Sc. h.c.

University Professor
J. Bryan Jones Distinguished Professor
AstraZeneca Professor of Organic Synthesis
Fellow of Trinity College, University of Toronto
Department of Chemistry
80 St. George St.
University of Toronto
Toronto, Ontario M5S 3H6
(416) 978-6083 FAX: (416) 946-8185 e-mail: mlautens@chem.utoronto.ca

PERSONAL

Place and Date of Birth: Hamilton, Ontario CANADA, July 9, 1959

EDUCATION

Harvard University	PDF with D.A. Evans	1985-1987
U. Wisconsin-Madison	Ph.D. with B.M. Trost	1985
U. Guelph	B.Sc.-Distinction	1981

ACADEMIC POSITIONS

J. Bryan Jones Distinguished Professor	University of Toronto	2013-2023
University Professor (top 2% of faculty)	University of Toronto	2012-present
Merck Frosst/NSERC Industrial Research Chair	University of Toronto	2003-2013
AstraZeneca Professor of Organic Synthesis	University of Toronto	1998-present
Professor	University of Toronto	1995-1998
Associate Professor	University of Toronto	1992-1995
Assistant Professor	University of Toronto	1987-1992

HONORS

Doctor of Science, <i>honoris causa</i>	University of Guelph	2016
Officer of the Order of Canada, O.C.	Governor General of Canada	2014
Fellow of the Royal Society of Chemistry (UK)	RSC	2011
Fellow of the Royal Society of Canada	RSC	2001

AWARDS

Henry Marshall Tory Award	Royal Society of Canada	2017
J.J. Berry Smith Graduate Supervision Award	University of Toronto	2017
UofT Alumni Faculty Award	University of Toronto	2016

CIC Catalysis Award	Chemical Institute of Canada	2016
CIC Medal	Chemical Institute of Canada	2013
Pedler Award	Royal Society of Chemistry	2011
Killam Research Fellowship	Canada Council	2013-2015
Alexander von Humboldt Awardee	Humboldt Foundation	2009-2015
A. C. Cope Scholar	American Chemical Society	2006
Alfred Bader Award	Canadian Society for Chemistry	2006
R. U. Lemieux Award	Canadian Society for Chemistry	2004
Solvias Ligand Contest Winner	Solvias AG	2002
Novartis Chemistry Lecturer	USA, Japan, Europe	1999
E.W.R. Steacie Fellow	NSERC (Canada)	1994-1996
Rutherford Memorial Medal	Royal Society of Canada	1994
NSERC/JSPS Bilateral Exchange	University of Tokyo	1994
CSC/Merck Frosst Lecture Award	Chemical Institute of Canada	1994
Eli Lilly Grantee	University of Toronto	1992-1994
Alfred P. Sloan Fellow	University of Toronto	1991-1995
1st BioMega Young Investigator	University of Toronto	1990-1993
NSERC University Research Fellow	University of Toronto	1987-1997
NSERC Postdoctoral Fellowship	Harvard University	1985-1987
Sigma Xi Research Award	U. Wisconsin-Madison	1985
NSERC Postgraduate Scholarship	U. Wisconsin-Madison	1981-1985
Chemical Institute of Canada Medal	U. Guelph	1980

VISITING PROFESSORSHIPS

SYNORG Chair d'Excellence	ENSICAEN	2017-19
ESPCI Visiting Professor	ESPCI Paris	2016
Nanyang Visiting Professor	NTU, Singapore	2014
ICIQ Summer School	ICIQ Tarragona, Spain	2008
Invited Visiting Professor	University of Marseilles	2008
Attilio Corbella Summer School Professor	Italian Chemical Society	2007
Visiting Professor, Santiago de Compostela	Spain	2006
100 Memorial Fund Visiting Professor	Tokyo Institute of Technology	2004
Guest Professor of the Max Planck Society	MPI Mülheim	1997
Troisième Cycle Visiting Professorship	University of Geneva	1996
D.A.A.D. Visiting Research Fellowship	University of Marburg	1996
Catalan Visiting Professorship	University of Barcelona	1996
Professeur Associé	Université Paris VI	1993

EDITORIAL RESPONSIBILITIES

Founding Editor for *Synfacts* published by Georg Thieme Verlag, Stuttgart
 Editor for the Americas for *Synthesis* published by Georg Thieme Verlag, Stuttgart
 Advisory Board, Organic Synthesis Inc. , 2013-present.
 Board of Editors, Organic Synthesis Inc.TM 2004-2012.

Editor of *Science of Synthesis* Vol. 1 "Transition Metal-Carbon Pi Bonds of Groups 10-8"
Royal Society of Chemistry, Member of International Advisory Board 1990-2000.

RESEARCH TRAINING

1985-1987: Approach to the Total Synthesis of Bryostatin (D.A. Evans, Harvard University)

1981-1985: Molybdenum(0) Catalyzed Reactions of Allylic Acetates. Palladium(II)
Catalyzed Cyclizations of 1,6-Enynes. (B.M. Trost, U. Wisconsin-Madison)

January 1981-June 1981: Mechanism of the Pd(II) Catalyzed Oxidation of Allyl Alcohol.
(P.M. Henry, U. Guelph)

May 1980-September 1980: Synthesis of Coloured Liquid Crystals. (P. Kazmaier, T. Martin,
Xerox Research Centre)

May 1979-May 1980: A Photochemical-Thermolysis Sequence as a Route to Medium Ring
Sesquiterpenoids. (G.L. Lange, U. Guelph)

RESEARCH INTERESTS

- multi-metal multi-component reactions for sustainable synthesis
- carbohalogenation via reversible oxidative addition
- new routes to medicinally interesting agents
- heterocyclic synthesis using metal catalysts
- new synthetic methods
- asymmetric catalysis with a focus on nickel, palladium and rhodium catalysts
- natural product synthesis
- new strategies to biologically active compounds
- metal catalyzed cycloaddition and annulation reactions
- fragmentation reactions
- cyclopropane synthesis and reactions
- hydrometallation reactions
- reactions of organosilicon and organotin compounds

SUMMARY OF PROFESSIONAL ACTIVITY

- 415 lectures presented at conferences, universities and to industry
- 365 publications
- presentation of "short courses" at universities or to industry (10 to date)

OTHER SCHOLARLY ACTIVITIES

16. Secretary General OMCOS International Advisory Board, 2017-2021.
15. Scientific Chair, 100th Canadian Society for Chemistry, Toronto, June 2017.
14. Editor for the newly launched journal *Synfacts*, 2005-present.
13. Member of the Board of Editors, Organic Synthesis Inc.TM 2004-2012
12. Chair OMCOS-12, (Organometallic Chemistry in Organic Synthesis), Toronto 2003.
11. Consultant for Merck Frosst and Merck Inc., 1998-2008.
10. Editor for the "Americas" for the journal *Synthesis*, 1999-present.
9. Consultant for Astra and Astra Research Centre Montreal, 1998-2000.
8. Consultant for BioChem Pharma, 1998-2000
7. Area Coordinator for Organic Chemistry, Pacificchem 2000, Hawaii.
6. Organic Division Treasurer and Conference Organizer, CSC Toronto, 1999.
5. Co-organized the 1st Canadian Symposium on Combinatorial Chemistry, Toronto 1995.
4. Co-organized 5th Quebec/Ontario Minisymposium in Organic Chemistry, Toronto, 1994.
3. Organizer of 2nd Canadian Workshop in Organic Synthesis, Sherbrooke, P.Q. 1993.
2. Organized a Symposium on "Organometallics in Organic Synthesis" at 74th CIC, Hamilton, 1991.
1. Initiated and co-organized 1st Quebec/Ontario Minisymposium in Organic Chemistry, Toronto, 1990.