Michael Organ

Curriculum Vitae

Degrees:

Received Ph.D., University of Guelph, Chemistry, 1992. Supervisor: Gordon L. Lange
Received M.Sc., University of Guelph, Botany/Plant Physiology, 1988. Supervisor: J. Derek Bewley
Received Hons. B.Sc., University of Guelph, Honours Biology, 1986.

Professional Career:

01/16 to present, Professor, University of Ottawa, Department of Chemistry.
09/10 – present, Adjunct Professor, University of Toronto, Department of Chemical Engineering
08/08 to 12/15, Professor, York University, Department of Chemistry.
06/01 - 08/08, Associate Professor, York University, Department of Chemistry.
08/97 to 05/01, Assistant Professor, York University, Department of Chemistry.
08/94 - 07/97, Assistant Professor, Indiana University-Purdue University at Indianapolis, Indianapolis, Indiana, Department of Chemistry.
08/92 - 07/94, NSERC Postdoctoral Fellow, Stanford University, Department of Chemistry. Spervisor: Barry M. Trost

Academic Honours:

. Selected for inclusion in the AcademicKeys Who's Who in Sciences Higher Education (WWSHE) March 2021.
. NSERC John C. Polanyi Award, given to an individual or team whose research, conducted in Canada, has led to a recent outstanding advance in any field of the natural sciences or engineering. January 2018. The award came with unrestricted research funds ($250,000).
. *Encyclopedia of Reagents for Organic Synthesis 2017 Best Reagent Award*, in Recognition of the Invention of the *Pd-PEPPSI-IPent* Catalyst. The award came with unrestricted research funds ($10,000 USD).
. Raymond U. Lemieux Award from the Canadian Society for Chemistry. January 2016.
. Work on the mechanism of the Negishi Reaction was chosen by Chemical and Engineering News (December 22, 2014 issue 51, page 17) to be one of the most notable synthetic chemistry discoveries of 2014.
. Author Profile in Angewandte Chemie ("featuring the profiles of a selection of our most prolific and trusted authors"). November 2013.
. Appointed to the Editorial Board of *Chemistry, A European Journal*. November 2013.
. NSERC Accelerator Award, April 2013.
. Agilent Labs Fellow. Award comes with unrestricted research funds. Awarded October 2011.
. Japan Society for the Promotion of Science (JSPS) Fellow. The award comes with research and travel funds. Awarded May 2010.
. Naeja Pharmaceuticals Lecturer, University of Alberta, March 2008.
. Merck-Frosst Canadian Academic Development Program Fellow. The award comes with unrestricted research funds. Awarded December 2007.
. International Xerox Foundation Fellow. The award comes with unrestricted research funds. Awarded July 2007.
. E.T.S. Walton Visitor Award. Named after Ireland's 1951 Nobel laureate in physics, this award covered the cost of the PI visiting Dublin City University (Dublin) and conducting research at that institution for one year. The award came with unrestricted research funds. Awarded May 2002.
1999 Premier's Research Excellence Award. Awarded July 1999.
. University of Guelph Community Service Award. Awarded July, 1992.
. Donald F. Forster Medal, presented annually to the top overall graduating graduate student at the University of Guelph. Awarded June 1992.
. NSERC Postdoctoral Fellowship, Stanford University. Held 08/92 - 06/94.
. Charles S. Humphrey Scholarship For Chemistry, presented annually to the top overall organic student at the Guelph/Waterloo Centre for Graduate Work in Chemistry. Awarded November 1991.
. Ontario Graduate Scholarship, University of Guelph. Held 05/91 - 04/92.

. Ontario Graduate Scholarship, University of Guelph. Held 05/90 - 04/91.
. NSERC Postgraduate Scholarship, University of Guelph. Held 05/88 - 04/90.
. Ontario Graduate Scholarship, University of Guelph. Awarded May 1988, (declined).
. University of Guelph Fellowship for Graduate Work. Awarded July 1987.
. University of Guelph Scholarship for Graduate Work. Awarded August 1986.
. Wolfe Scholarship, University of Guelph. Awarded January 1984.

Honorary Journal Positions:

- Appointed to the International Advisory Board of *ChemCatChem*. November 2016 to present.
- Appointed to the Editorial Board of *Chemistry, A European Journal*. November 2013 to present.
- Appointed to the International Advisory Board of *The Journal of Flow Chemistry*. January 2010 to present.
- Appointed to the International Advisory Board of *ACS Combinatorial Science*. April 2003 to present.

Undergraduate Teaching Assignments:

2020-2021	CHM 1321	Lecturer	*Organic Chemistry I*
2019-2020	CHM4123/BPS4125 1.0 (F)	Director	*Medicinal Chemistry*
2014-2015	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2013-2014	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2012-2013	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry* (first half)
2012-2013	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2011-2012	Sabbatical		
2010-2011	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2009-2010	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2008-2009	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry* (second half)
2008-2009	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry* (second half)
2008-2009	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2007-2008	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry* (second half)
2007-2008	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry* (second half)
2007-2008	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2006-2007	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry* (second half)
2006-2007	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry* (second half)
2006-2007	SC CHEM 2020 6.0 (S)	Lecturer	*Organic Chemistry* (second half)
2006-2007	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry* (second half)
2006-2007	SC CHEM 4200C 3.0 (W)	Director	*Organometallics*
2006-2007	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2006-2007	SC CHEM 2020 6.0 (W)	Lecturer	*Organic Chemistry* (second half)
2006-2007	SC CHEM 2020 6.0 (W)	Tutorial	*Organic Chemistry* (second half)
2005-2006	SC CHEM 5000 3.0 (W)	Lecturer	*Spectroscopy*
2005-2006	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2004-2005	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry*
2004-2005	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry* (first half)
2004-2005	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry* (first half)
2004-2005	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry* (second half)
2004-2005	SC CHEM 2020 6.0 (S)	Director	*Organic Chemistry* (second half)
2004-2005	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry*
2004-2005	SC CHEM 4200C 3.0 (F)	Director	*Organometallics*
2003-2004	SC CHEM 5000 3.0 (W)	Lecturer	*Spectroscopy*
2003-2004	SC CHEM 2020 6.0 (S)	Lecturer	*Organic Chemistry*
2003-2004	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry*
2003-2004	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2003-2004	SC CHEM 4200C 3.0 (F)	Director	*Organometallics*
2003-2004	SC CHEM 1000 6.0 (W)	Tutorial	General *Chemistry*
2002-2003	Sabbatical		
2001-2002	SC CHEM 5000 3.0 (W)	Lecturer	*Spectroscopy*
2001-2002	SC CHEM 3071 3.0 (W)	Director	*Pharmaceutical Discovery*
2001-2002	SC CHEM 1000 6.0 (W)	Tutorial	General *Chemistry*
2000-2001	SC CHEM 2020 6.0 (S)	Lecturer	*Organic Chemistry*
2000-2001	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry*

1999-2000	SC CHEM 2020 6.0 (S)	Lecturer	*Organic Chemistry*
1999-2000	SC CHEM 2020 6.0 (S)	Tutorial	*Organic Chemistry*
1999-2000	SC CHEM 1000 6.0 (W)	Tutorial	General *Chemistry*
1998-1999	SC CHEM 4200C 3.0 (F)	Director	*Organometallics*
1998-1999	SC CHEM 1000 6.0 (W)	Tutorial	General *Chemistry*
1997-1998	SC CHEM 4050C 3.0 (W)	Director	*Organometallics*
1997-1998	SC CHEM 1000 6.0 (W)	Tutorial	General *Chemistry*
1996-1997	C-341 (W)	Director	*Organic Chemistry I*
1995-1996	C-341 (F)	Director	*Organic Chemistry I*
1994-1995	C-341 (F)	Director	*Organic Chemistry I*

Graduate Teaching Assignments:

2020-2021	M1 M2 (6C/6TD)		Director	*Catalyse*
2018-2019	SC CHEM 5900	3.0 (F)	Director	*Organometallics*
2014-2015	SC CHEM 5010	3.0 (W)	Director	*Organometallics*
2010-2011	SC CHEM 5010	3.0 (F)	Director	*Organometallics*
2008-2009	SC CHEM 5010	3.0 (F)	Director	*Organometallics*
2006-2007	SC CHEM 5010	3.0 (W)	Director	*Selected Topics In Organic Chemistry*
2004-2005	SC CHEM 5010	3.0 (F)	Director	*Selected Topics In Organic Chemistry*
2003-2004	SC CHEM 5010	3.0 (F)	Director	*Selected Topics In Organic Chemistry*
2002-2003	Sabbatical			
1998-1999	GS CHEM 5010	3.0 (F)	Director	*Selected Topics In Organic Chemistry*
1998-1999	GS CHEM 5010	3.0 (W)	Director	*Selected Topics In Organic Chemistry*
1997-1998	GS CHEM 5010	3.0 (W)	Director	*Selected Topics In Organic Chemistry*
1996-1997	C-696 (W)		Director	*Organometallic Chemistry*
1995-1996	C-696 (W)		Director	*Organometallic Chemistry*

Teaching Notes:

- Developed 'Pharmaceutical Chemistry' (a new course) for the undergraduate curriculum in Chemistry at York. It is an introductory-level medicinal chemistry course. (08/00).
- Invited instructional teacher for the American Chemical Society (short courses). (10/99 – 02/03).
- Attended the Edward C. Moore Teaching Symposium to improve teaching effectiveness. (05/96).
- Developed 'Organometallics' (a new course) as both an undergraduate and graduate level course for which a Faculty Development Grant In Aid of Teaching was competitively obtained. (01/96 - 08/96).
- Developed two new undergraduate laboratories, one of which was published in the Journal of Chemical Education (see: *J. Chem. Ed.* **1996**, *73*, 1193-1196).
- Developed (in part) 'Windows on Science' (a new course) which is an orientation course taken by all incoming science students at IUPUI. (05/96 - 08/96).

Research Mentoring (Supervisions):

Undergraduate Student Research Supervisions:
Career numbers: 41

- Scotchburn, Katerina (02/20 – present)
- Dumais, Jean-Philippe (09/19 – 04/20).
- Ducharme, Alexandre (01/19 – 04/19)
- Castro, Maribel (01/19 – 04/19)
- Trivael, Sheila (01/19 – 04/19)
- Ducharme, Alexandre (05/18 – 08/18)
- Farzam, Ali (05/18 – 08/18)
- Li, Jenny (05/18 – 08/18)
- El-Helwani, Taha (05/18 – 08/18)
- Peng, Andy (01/17 – 08/17)
- Kwak, Jee (09/15 – 04/16)
- Day, Craig (09/15 – 04/16)
- Zhang, Peter (05/15 – 08/15) Co-op student from the University of Waterloo
- Habaz, Lihi (05/15 – 08/15)
- Oyshik Sayed (09/14 – 12/14)
- Ajanthan Muthaiah (09/11 – 04/12)

- Yeonju Na (05/11 – 08/11)
- Stephan Leenders (02/11 – 06/11) Student is from The Netherlands.
- Pascal Patschinski (01/10 – 05/10) Student is from Munich, Germany.
- Matthew Pompeo (09/08 – 04/09)
- David Candito (05/07 – 08/07)
- Sylvia Baglione (09/06 – 04/07)
- Ka Hoi (05/06 – 04/07)
- Michael Tsimmerman (05/06 – 04/07)
- Michael Modabber (05/06 – 08/06)
- Kasha Jerzak (05/06 – 08/06)
- Stephanie Avola (09/05 – 04/06)
- Joanna Nasielski (09/05 – 04/06)
- Igor Dubovyk (09/05 – 04/06)
- Melissa Lewis (09/05 – 04/06)
- Vyacheslav Shakhov (09/04 – 04/05)
- Lawrence Montgomery (05/04 – 08/04).
- Cory Valente (09/02 – 12/02).
- Evette Majkut (09/01 - 04/02).
- Anita Villani (05/01 - 08/01).
- Elham Bagheri-Madjdi (05/99 - 09/99).
- Tina Bruner (01/96 - 05/96).
- Aaron Murray (06/96 - 07/96).
- Ellwood Glossbrenner (08/96 - 11/96).
- Michael Miller (06/96 - 07/97).
- Timothy Paul (01/97 - 05/97).

Graduate Student Supervisions:

Career numbers: Masters: 23; Ph.D.: 26

- Passey, Kyle M.Sc (05/21 – present)
- Bakhshi, Bahare Ph.D. (01/21 – present)
- Soleimany, Reihaneh Ph.D. (09/20 – present)
- Sinha, Kumardip, Ph.D. (09/20 – present)
- Masoomi, Kianoosh Ph.D. (02/20 – present)
- Nguyen, Thao M.Sc (04/19 – present)
- Farzam, Ali M.Sc. (09/18 – present)
- Nnamdi, Fred Ph.D. (01/18 – present)
- Eckert, Philip Ph.D. (05/17 – present)
- Kwak, Jee M.Sc. (05/16 – present)
- Bocking, David M.Sc. (05/16 – present)
- Bizzari, Nour M.Sc. (05/15 – present)
- Lombardi, Christopher M.Sc. (05/14 – present)
- Sharif, Sepideh M.Sc. (01/12 – present)
- Chen, Xia M.Sc. (01/12 – present)
- Summerville, Kristina Ph.D. (01/12 – 04/16)
- Chris Schruder, Ph.D. (09/10 – present)
- Abir Kadhri, Ph.D. (09/10 – present)
- Lucus McCann, Ph.D. (09/10 – 12/15). Graduated
- Jennifer Farmer, Ph.D. (09/09 – 12/15). Graduated
- Martines Oderinde, Ph.D. (01/10 – 06/13). Graduated.
- Matthew Pompeo, M.Sc. (09/09 – 08/13). Graduated.
- Michael Tsimerman, Ph.D. (09/07 – 08/13). Graduated.
- Mahmaud Sayah, Ph.D. (05/07 – 08/13). Graduated.
- George Achonduh , Ph.D. (05/07 – 04/13). Graduated.
- Kai Hoi, Ph.D. (09/07 – 08/12). Graduated.
- Paul O'Brien, M.Sc. (01/10 – 04/12). Graduated.
- Kunj Acharya , M.Eng. (09/10 – 09/11). Graduated.
- Jennifer Sauks, M.Eng. (09/09 – 09/11). Graduated.
- Endri Gjiri, M.Sc. (05/08 – 08/11). Graduated.
- Mirvat Abdelhadi M.Sc. (09/05 – 05/10). Graduated.
- Mario Orestano, M.Sc. (05/08 – 06/10). Graduated.

- Joanna Nasielski , M.Sc. (05/06 – 08/09). Graduated.
- Stacy Bremer Ph.D. (09/04 – 12/08). Graduated.
- Niloufar Hadie Ph.D. (01/04 – 06/09). Graduated.
- Cory Valente, Ph.D. (05/03 – 12/08). Graduated.
- Stephanie Avola, M.Sc. (05/06 – 09/08). Graduated.
- Gjergji Shore, Ph.D. (05/04 – 12/09). Graduated.
- Ihor Batruch , M.Sc. (09/03 – 08/06). Graduated.
- Yvette Majkut, M.Sc. (09/02 – 12/04). Graduated.
- Haleh Ghasemi, Ph.D. (09/01 – 08/04). Graduated.
- Louis Antunes, M.Sc. (09/01 – 04/04). Graduated.
- Debasis Mallik, Ph.D. (09/97 – 12/03). Graduated.
- Zissis Konstantinou, M.Sc. (01/98 - 02/02. Graduate.
- Fariba Soleymanzadeh, M.Sc. (05/98 - 08/00). Graduated.
- Jeremy T. Cooper, Ph.D. (01/96 - present). Graduated.
- Derick D. Winkle, M.Sc. (01/95 - 11/96). Graduated.
- Larry Rogers, M.Sc. (01/95 - 08/97) Graduated.
- Scott Conner, M.Sc. (06/96 - 12/96). Graduated.

External Examiner for Ph.D. Defenses at Other Universities: 8

3 at U of Toronto, 1 at U of Guelph, 1 at U. of Waterloo, 1 at U of Upsalla (Sweden), 1 at Eindhoven University (The Netherlands), 1 at U. of Alberta, 4 at YorkU, 1 at the UdeMontreal.

Post-Doctoral Supervisions:
Career numbers: 62

- Dr. Brendon Doyle (University of Ottawa). (01/21 – present)
- Dr. Mathieu Morin (University of Ottawa). (09/19 – present)
- Dr. Neha Rana (University of Delhi). (08/19 – present)
- Dr. Sepideh Sharif (York University). (07/19 – present)
- Dr. Aliakbar Mohammadzadeh (McMaster University). (07/19 – present)
- Dr. Jürgen Schulmeister (University of Heidelberg). (07/19 – present)
- Dr. Volodymyr Semeniuchenko (University of Windsor, Windsor). (01/18 – present)
- Dr. Ryan Sullivan (University of Ottawa). (06/20 – 10/20)
- Dr. Phillip Jolley, (University of Strathclyde, Glasgow, Scotland). (03/19 – 03/20)
- Dr. Narayn Sinha (Universität Münster**,** Münster**,** Germany). (04/17 – 03/19)
- Dr. Pier Alexander (University of Sherbrooke, Sherbrooke). (09/17 – 12/18)
- Dr. Colin Diner (University of Alberta, Edmonton). (09/17 – 07/18)
- Dr. Jonathan Day (Nottingham University). (05/14 – 31/17).
- Dr. Gregory Price (University of Manchester). (08/13 – 07/17).
- Dr. Abbas Hassan (University of Texas, Austin). (05/16 – present).
- Dr. Jennifer Farmer (York University). (01/16 – present).
- Dr. Matthieu Teci (Strasbourg University (UdS) – CNRS (UMR-7177)). (06/15 – present).
- Dr. Jonathan Day (Nottingham University). (05/14 – present).
- Dr. Gregory Price (University of Manchester). (08/13 – present).
- Dr. Declan Daly (Dublin City University). (06/14 – 05/15).
- Dr. Ricker Rucker (University of Washington). (01/14 – 01/15).
- Dr. Bruce Atwater (University of Indiana, Bloomington). (06/13 – 06/15).
- Dr. Nalin Chandrasoma (University of Missouri). (10/13 – 06/15).
- Dr. Kumara Swamy (University of Wollongong). (05/13 – 04/14).
- Dr. Dwayne Iwai (University of Western Ontario). (01/13 – 12/13).
- Dr. Toshiyuki Iwai (Osaka City University). (09/11 – 08/12).
- Dr. Farman Ullah (University of Greifswald). (06/09 – 12/12).
- Dr. Srinivas Achanta (Washington University, St. Louis). (01/10 – 12/10).
- Dr. Selcuk Calimsiz (Purdue University, West Lafayette). (09/07 – 04/11).
- Dr. Niloufar Hadie (York University). (06/09 – 12/10).
- Dr. Meena Dowlet (University of Alberta). (01/04 – 09/09).
- Dr. Yanhui Shi (Jilin University, China). (09/07 – 06/08).
- Dr. Changsheng Cao (Jilin University, China). (05/07 – 06/08).
- Dr. Christopher O'Brien (Sheffield University) (11/03 – 08/07).
- Dr. Eric Kantchev (The Ohio State University) (01/04 – 09/06).

- Dr. Chuanjun Gao (University of Leeds). (01/04 – 04/06).
- Dr. Vasiliy Kolesnik (Novosibirsk Institute of Organic Chemistry). (01/04 – 12/04).
- Dr. Eamon Comer (University of Ireland at Cork) (03/03 – 05/05)).
- Dr. Madhav Reddy (Indian Institute of Technology) (03/03 – 05/04).
- Dr. Franck Lepifre (University of Orleans) (11/02 – 05/04).
- Dr. Xiaoming Zhao (University of Florida) (06/02 – 03/04).
- Dr. Richard Hodgson (McMaster University) (07/02 – 06/04).
- Dr. Stanaslav Mayer (University of Orleans) (11/00 – 04/02).
- Dr. Paul Tiege, (University of Alberta) (03/01 – 05/03).
- Dr. Junquan Wang (Hangzhou University) (02/01 - 03/03).
- Dr. Min Weng (07/01 - 06/02).
- Dr. Blaise N'Zenba (Universite' de Poitiers) (12/01 - 12/02).
- Dr. Stephen Hynes (University College Dublin) (09/01 - 10/02).
- Dr. Yaroslav Bilokin (Weizmann Institute of Science) (02/01 - 07/02).
- Dr. Juan Xu (University of Leeds) (10/00 - 11/01).
- Dr. Yun Ling (Institute of Chemistry, Chinese Academy of Science) (09/00 - 02/02).
- Dr. Christophe Buon (University of Orleans) (06/00 - 12/01).
- Dr. Elena Arvanitis (Imperial College, London) (02/00 - 05/01).
- Dr. Charles Chamchumois, (York University) (06/00 - 09/00).
- Dr. Frank LaRonde (McMaster University) (03/00 - 09/00).
- Dr. Svetoslav S. Bratovanov (University of Zurich). (08/98 - 12/00).
- Dr. David Lavorato (McMaster University) (05/99 - 08/00).
- Dr. Paul Isbester (University of Minnesota) (09/99 - 08/00).
- Dr. Dan Parks (University of Calgary). (09/98 - 08/00).
- Dr. Mostafa Hatam (University of Shiraz, Iran) (06/99 - 04/00).
- Dr. Craig Dixon (University of Western Ontario) (11/97 - 03/99).
- Dr. Darrin Mayhew (University of Alberta). (04/97 - 03/99).
- Dr. Upinder Singh (Case Western University). (08/96 - 06/97).
- Dr. Vladimir Dragan (Zelinsky Institute, Moscow). (01/95 - 06/96).

Departmental Committee Assignments and Service:

- *Strategic Projects Opportunity Review Team* in the VP Research Office (07/15 – 12/15)
- *Member of the search committee for Tier I and II CRC positions in Material Science.* (06/15 – 11/15).
- *Departmental Chairman's Advisory Committee.* (06/12 – 11/15).
- *Departmental Strategic Planning Committee.* (01/10 – 12/12).
- *Graduate Program Curriculum Committee.* (01/11 – 12/13).
- *Member of the search committee for an organic teaching faculty member.* (01/13 – 03/13).
- *Chair of the search committee for a faculty member in Materials Science.* (08/10 – 04/11).
- *Departmental representative for the purchase of the new 700 MHz NMR research instrument.* (08/10)
- Promotion and Tenure Committee for the Department of Chemistry. (09/09 – 08/10).
- Junior faculty mentor for three new junior faculty members and advise them in a number of ways including sitting in on the courses they teach and reading/editing their research grant applications. (07/07 – 12/12).
- *Member of the search committee for an organic faculty member.* (09/07 – 04/08).
- *Member of the graduate student curriculum committee.* (05/07 –present).
- *Member of the search committee for an organic faculty member.* (09/06 – 03/07).
- *Member of the search committee for an organic faculty member.* (09/05 – 03/06).
- *Member of the search committee for an organic faculty member.* (09/04 – 03/05).
- *Member of the search committee for a biochemistry faculty member.* (01/04 – 03/05).
- *Chair of the search committee for an inorganic faculty member.* (01/04 – 06/04).
- *Chair of the search committee for an organic faculty member.* (01/04 – 06/04).
- *Departmental representative and secured the funding for the console upgrade for the purchase 400 MHz NMR research instrument.* (02/04)
- *Departmental representative and secured the funds for the purchase of the new 300 MHz NMR teaching instrument.* (02/04)
- *Departmental Chairman's Advisory Committee.* (09/03 – 06/08).
- *Departmental Space Committee.* (09/03 – 06/08).
- *Chair's Curriculum Sub-committee to develop a Chemical Biology Undergraduate Program at York and prepare a third-year course in pharmaceutical chemistry.* (07/00 – 02/01).
- *Departmental Chairman's Advisory Committee.* (08/98 - 12/99).
- *Departmental WHMIS Safety Representative.* (08/97 - 04/00).
- *Departmental renovation representative for the refurbishing of room 020 in the Petrie Science Building to accommodate the new synthetic laboratories of the York University Combinatorial Chemistry Facility.*

Secured the funding, negotiated the price and coordinated the renovation through the Department of Facilities at York University. (02/99 – 06/00).

- *Created the 'Grad Students vs. the Faculty' Departmental Baseball Game and BBQ and have organized it every year since its inception (06/99 – present).*
- *Departmental representative for the purchase of the new 200 MHz NMR teaching instrument.*
  Secured the funding, negotiated the price and coordinated the installation of this instrument (08/98).
- *Departmental representative for the purchase of the new 600 MHz NMR research instrument.*
  Secured the funding, negotiated the price and coordinated the installation of this instrument (08/98).
- *Departmental representative for the purchase of the new API 2000 LCMS instrument.*
  Secured the funding, negotiated the price and coordinated the installation of this instrument (08/98).
- *Departmental Seminar Coordinator.* (03/95 - 04/97).
- *C-343/4 Organic Laboratory I and II.*
  Developed two new laboratories for the organic undergraduate laboratory curriculum. One experiment was published in the *Journal of Chemical Education* in December of 1996.
- *Founder and chair of the Monday evening organic seminar series.*
  This exercise is designed to assist students and postdoctoral fellows in their performance on cumulative examinations and interviews to enhance their marketability in the job place following graduation. (09/94 – 08/09).
- *Departmental representative for the purchase of the new 200 MHz NMR teaching instrument.*
  Negotiated the price and coordinated the installation of this instrument (01/95 - 04/95).
- *Departmental representative for the upgrade of 300 MHz NMR spectrometer.*
  Secured the funding, negotiated the purchase and coordinated the installation of the new equipment. (05/95 - 08/95).

University Committee Assignments and Service:

- *Director of the Centre for Catalysis Research and Innovation* (01/16 – present)
- *Strategic Projects Opportunity Review Team* in the VP Research Office (07/15 – 12/15)
- Member of the Senate Sub-Committee on Honorary Degrees and Ceremonials. (08/13 – 12/15)
- Was the organizer for the Sixth Annual Ernst C. Mercier Entrepreneurial Lecture. (04/09 – 11/09)
- Committee for the design of the new Life Science Building at York University. (05/09-08/09)
- Chair of the fundraising committee for the new Science Building at York University (05/08-08/08)
- Promotion and Tenure Committee for the Faculty of Science and Engineering. (06/07 – present)
- Was the organizer for the first annual Ernst C. Mercier Entrepreneurial Lecture which was a cross discipline event sponsored by the Faculty of Pure and Applied Science, the Schulich School of Business and the Osgoode Law School. (08/03 – 11/03)
- Founder and member of the Joint Activities Group (JAG) made up from the departments of Chemistry and Biology for the development of a program in Chemical Biology at York. (08/99 – 01/00).
- Founder and Director of the York University Combinatorial Chemistry Facility. (03/98 – 12/04).
- School of Science Steering Committee. (09/95 - 12/95).
- School of Science Dean's Scholarship Committee. (01/95 - 04/95).
- Served on the following School of Science Scholarship selection committees: Continuing Student Dean's Scholars; Entering Student Dean's Scholars; New Generation Dean's Scholars. (01/95 - 04/95 and 01/96 - 04/96).
- Served on the committee that developed the new orientation course "Windows On Science" that all incoming School of Science students now take. Also, gave lectures in this class relating to opportunities in undergraduate research. (09/96 - 10/96 and 02/97 - 03/97).
- Academic counselor for the School of Science. (01/96 - 06/97).
- Served as a referee for The Department of Faculty Development reviewing internal research summer fellowship applications. (01/97 - 02/97).
- Provided lectures/demonstrations to primary schools and high schools in chemistry to promote the science and illustrate how it affects every day life. (01/97 – present)

External Professional Responsibilities and Service:

- Requested to serves on the ChemCatChem, A European Journal (11/16 – present).
- Requested to serves as Associate Editor for *Chemistry, A European Journal* (01/14 – present).
- Co-Organizer for the "Flow Chemistry Symposium" at Pacifichem 2015, Honolulu (01/13 – 12/15).
- Co-Organizer for the "CRC Symposium for Organometallics and Catalysis", Toronto (02/12).
- Requested to serve on the NIH Panel to determine which company was be awarded the contract to establish and maintain the NIH National Molecular Repository (09/11).
- Requested to serve on the Advisory Board of *The Journal of Flow Chemistry* (01/11 - present).
- Co-Organizer for the "Supramolecular Catalysis Symposium" at Pacifichem 2010, Honolulu, December 16/12/10).
- Requested to serve on the Advisory Board of Biotage Inc. (06/06 – 08/09).
- Requested to serve on the Advisory Board of *The University of Kansas Chemical Methodologies and Library Development Center (CMLD)* (09/04 – 04/07).
- Requested to serve on the NIH Panel to determine which company was be awarded the contract to establish and maintain the NIH National Molecular Repository (09/05).

- Organizer and Session Chair for the symposium entitled "Accelerating Organic Synthesis with New Chemistries and Equipment" at the 2004 Canadian Institute For Chemistry National Meetings, London. (05/30/04).
- Co-Organizer for the "ACS Perspectives: Combinatorial Chemistry: New Methods, New Discoveries Symposium", Virginia, September 21/09/03)
- University-Industry Committee for the Canadian Institute for Health research (CIHR) (01/02 - present)
- Requested to serve on the Advisory Board of *The Journal of Combinatorial Chemistry* (09/01 - present).
- Co-Organizer for the "Combinatorial and Parallel Synthesis: Applications to Medicinal Chemistry Symposium" at Pacifichem 2000, Honolulu, December 16/12/00.
- Chief Organizer of the 11th Annual Quebec/Ontario Mini Symposium in Bioorganic and Synthetic Chemistry, York University, Toronto. (10/11/00).
- Chaired a full session of the High Throughput Organic Synthesis Symposium, San Diego. (02/11/00).
- Organizer and Session Chair of the 2nd Annual Symposium in Combinatorial Chemistry at the 1999 Canadian Institute For Chemistry National Meetings, Toronto. (03/06/99).
- Co-organizer of the 26th Annual Southwestern Undergraduate Chemistry Conference held at York University (21/03/98).
- Referee of numerous scientific articles for multiple international journals
- Referee of several review articles, book chapters, and full book contributions
- Referee of numerous scientific grant proposals for agencies worldwide

Personal Professional Development:

French Courses:

French as a Second Language Courses at uOttawa:

- Summer term 2019 FLS 1600 - Débutant: initiation au français de base (33 hours);
- Fall term 2019 FLS 1600 - Débutant: initiation au français de base (33 hours)
- Winter term 2020 FLS 1600 - Débutant: initiation au français de base (33 hours)
  Result: Passed
- Summer term 2020 FLS 1810 - Élémentaire: lecture et compréhension orale (20 hours)
  Result: Passed

French Courses Taken at Alpadia Language Schools (paid in full by Michael G. Organ):

- Fall 2020 A1 French. This course was taken in Lyon, France. It consisted of in class learning fully immersed in French 3 hours every day, 5 days per week for 10 weeks (150 hours in total).
  Result: Passed

Individual Tutoring One-on-One:

- Winter term 2018 (January – February 30 hours)
- Winter term 2018 (March – April 30 hours)
- Summer term 2018 (June – July 30 hours)
- Fall term 2018 (September – October 30 hours)
- Fall term 2018 (November – December 30 hours)

Research Funding:

External Research Funding:

Governmental Funding Agencies, Grand Total as PI and Co-PI with Others: $45,250,166
Governmental Funding Agencies, Portion of above total going to MGO (PI): $12,847,506
Sum cash total to date from Industrial Research Sponsors: $2,745,000
Sum in-kind to date from Industrial Research Sponsors: $2,277,692

- 2020, MITACS: The Diagnostic, PCR-based Test to Detect SARS-CoV2 RNA (COVID-19): Solving the Global Shortage of the Key Organic Building Block Using Flow Chemistry. $90,000 (PI). Company match: 30,000
- 2020, NSERC COVID-19 Grant: The Diagnostic, PCR-based Test to Detect SARS-CoV2 RNA (COVID-19): Solving the Global Shortage of the Key Organic Building Block Using Flow Chemistry. $50,000 (PI).
- 2020, MITACS: Therapeutics and Catalysts for the COVID-19 Pandemic. $225,000 (PI). Company match: $81,000
- 2019, MITACS: New Catalysts and Chemical Processes for the Pharmaceutical Industry. $110,000 (PI). Company match: $90,000.
- 2019, CFI JELF: Sustainable Chemical Manufacturing. $512,000 (PI).
- 2018, NSERC John C. Polanyi Award. $250,000 over 5 years (PI).
- 2018, NSERC Discovery Grant, Improving Catalysis Sustainability. $525,000 over 5 years (PI).
- 2018, NSERC ENGAGE Grant, A Single Platform for Batch and Flow Chemistry, $25,000 over 6 months (PI).
- 2015, Ontario Research Fund, Research Excellence, Addressing the Microbial Crisis. $3,500,000 over 5 years (coPI, Gerry Wright, McMaster, PI) ($605,000 to MGO).

- 2014, GlaxoSmithKline Pharmaceuticals: Expanded Proposal for GSK PD Research and Development Collaboration with Professor Michael Organ's Research Group. $250,000 over 3 years (PI).
- 2014, GlaxoSmithKline Pharmaceuticals: Expanded Proposal for GSK PD Research and Development Collaboration with Professor Michael Organ's Research Group. $250,000 in-kind (GSK personnel time, chemical building blocks) over 3 years (PI).
- 2013, NSERC Discovery Grant, Catalysis: Relating Structure and Reactivity. $500,000 over 5 years (PI).
- 2013, NSERC Accelerator Award, Catalysis: Relating Structure and Reactivity. $120,000 over 3 years (PI).
- 2013, NSERC RTI Grant. A Liquid Processing Station for Continuous and Sustainable Chemical Manufacturing. $149,791 (PI).
- 2013, NSERC Collaborative Research and Development (CRD) Grant, Sustainable, Continuous Chemical Manufacturing Using Micro Flow Reactor Technology, $2,100,000 in cash from NSERC over 4 years. (Grant # CRDPJ 445703-12)
- 2012, Agilent Canada Inc.: Real-Time, In Line Analysis of Flowed Reaction Mixtures, $200,000 over 4 years (PI).
- 2012, Agilent Canada Inc.: Real-Time, In Line Analysis of Flowed Reaction Mixtures, $132,972 in-kind (LCMS equipment) over 6 years (PI).
- 2013, Abbvie Pharmaceuticals: Solid-Supported Catalysts for Flow Chemistry Applications. $140,000 over 5 years (PI).
- 2013, Abbvie Pharmaceuticals: Solid-Supported Catalysts for Flow Chemistry Applications. $90,000 in kind (Abbvie personnel time, chemical building blocks) over 8 years (PI).
- 2012, Lilly Research Awards Program (LRAP). Architectural Complex Drug Targets via Innovative and Sustainable Catalysis. $450,000 USD over 3 years (PI).
- 2012, Lilly Research Awards Program (LRAP). Architectural Complex Drug Targets via Innovative and Sustainable Catalysis. $300,000 USD in kind (Lilly personnel time, chemical building blocks) over 8 years (PI).
- 2012, Bruker Canada: Analysis of Flow Reactor products by Continuous NMR, $25,000 over 4 years (PI).
- 2012, Bruker Canada: Analysis of Flow Reactor products by Continuous NMR, $501,000 in-kind (600 MHz NMR console, flow probe, Bruker personnel time) over 8 years (PI).
- 2010, NSERC RTI Grant. A Conceptually New Microwave Applicator. $150,000 (PI).
- 2009, NSERC CREATE Training Grant in Microfluidics Applications and Training in Cardiovascular Health (MATCH), $1,650,000 (CoPI with Engineering at the University of Toronto). Portion coming to M. G. Organ, $200,000.
- 2009, NSERC RTI Grant. A New NMR Probe. $73,675 (PI).
- 2009, Canadian Foundation for Innovation. Centre for Microfluidic Systems in Chemistry and Biology, $9,375,200 (CoPI with Engineering at the University of Toronto). Portion coming to M. G. Organ, $605,420.00.
- 2008, Ontario Centers of Excellence (NM51969). New Microwave-Conducting Materials For Synthetic Chemistry Applications, $600,000 over 3 years.
- 2008, NIH (2P50GM069663-06), Center of Excellence in Chemical Methodologies and Library Development. $10,000,000 over 5 years (Co-PI with Medicinal Chemistry at the University of Kansas). Portion coming to M. G. Organ, $407,120.00 USD
- 2007, NSERC Discovery Grant, New N-Heterocyclic Carbene Ligands for Catalysts. $300,000 over 5 years (PI).
- 2007, Merck-Frosst Canadian Academic Development Program Fellow. National award for unrestricted research. $25,000 cash for one year.
- 2007, Xerox Foundation Fellow. International award for unrestricted research. $60,000 (USD) cash and $60,000 in kind over 3 years (PI).
- 2006, NSERC Collaborative Research and Development Grant, Microwave-Assisted, Continuous Flow Organic Synthesis, $800,000 over 4 years. (PI).
- 2006, Dalton Pharma Services Ltd.: Flow Chemistry, $250,000 over 4 years (PI).
- 2006, Dalton Pharma Services Ltd.: Flow Chemistry, $200,000 in-kind (Dalton personnel time, chemical building blocks) over 4 years (PI).
- 2006, Bruker Biospin Ltd.: Analysis of Solidy Supported Reagents and Catalysts by Solid-State NMR Spectroscopy, $150,000 over 4 years (PI).
- 2006, Biotage Inc.: Flow Chemistry, $115,720 in-kind (Biotage personnel time, donated microwave reactors) over 4 years (PI).
- 2006, Syrris Inc.: Flow Chemistry, $106,000 in-kind (Syrris personnel time, donated flow (Africa) equipment) over 4 years (PI).
- 2005, NSERC Discovery Grant, New Catalysts for organic Synthesis. $111,000 over 3 years (PI).
- 2002, E.T.S. Walton Visitor Award. $130,000 Euro ($190,000 Cdn). Covered housing and research costs for the PI to visit Dublin City University (Dublin) for one year and conduct research at that institution. Awarded May 2002.
- 2000, NSERC Collaborative Research Grant, Accelerating drug discovery using frontal affinity chromatography/mass spectrometry. $761,000 over 3 years (PI with two other CoPIs from McMaster University). Industrial match to grant is $500,000 in cash and $600,000 in kind.
- 2000, MDS SCIEX: FAC MS, $500,000 over 4 years (PI).
- 2000, MDS SCIEX: FAC MS, $261,000 in-kind (donated 3000 triplequad MS mass spectrometer) (PI).
- 2000, Ontario Research and Development Challenge Fund. To fund the formation of "Combinatorial Chemistry and High-Throughput Screening Initiative Within the Province of Ontario Genomics Program", $10,300,000 over 5 years (CoPI with Chemistry at the University of Toronto) Portion coming to M. G. Organ, $2,530,000 over 5 years.
- 1999, MRC Salary Grant, $50,000 over 5 years (PI).
- 1999 Premier's Research Excellence Award. $150,000 over 2 years (PI).
- 1999, Canadian Foundation for Innovation. To fund infrastructure for the Core Molecular Biology Facility, the York University Combinatorial Facility, and the York University Mass Spectroscopy Facility. $1,000,000.00. (CO-PI with two others at York Univeristy).
- 1998, Ontario Research and Development Challenge Fund. To fund the formation of "The Ontario Combinatorial Chemistry Cooperative", $965,000 over 3 years. (PI).
- 1998, MDS SCIEX: Combinatorial Chemistry, $261,000 in-kind (donated 2000 triplequad mass spectrometer) (PI).
- 1998, NSERC Collaborative Research Grant, New Approaches to Molecular Libraries of Amine-Based Drug Candidates. $241,000 over 3 years (PI).

- 1998, Eli Lilly Research Grant, Eli Lilly and Company, Operating Grant, $270,000 cash over 3 years (PI).
- 1997, NSERC New Faculty Support Grant, $160,000 over 3 years (PI).
- 1997, Glaxo-Wellcome Research Grant, Glaxo-Wellcome, Salary Support, $125,000 cash over 5 years (PI).
- 1997, National Institutes of Health. Operating Grant, $112,500, USD (PI).
- 1997, Petroleum research Fund, Type-G. $20,000, USD, (PI).
- 1995, Eli Lilly Research Grant, Eli Lilly and Company, $18,000 cash USD, (PI).

Internal Research Funding:

- 1999, York University, Faculty of Pure an Applied Science Junior Faculty Research Fund, $750.00.
- 1998, York University, Faculty of Pure an Applied Science Junior Faculty Research Fund, $831.85.
- 1996, IUPUI Research Grant, IUPUI, $6,000
- 1995, IUPUI Faculty Development Grant: Grant In Aid For Teaching, $3,000.

Scholarly and Professional Academic Activities:

Invited Presentations at National or International Conferences as a Key-Note or Plenary Speaker:

84. Carbenes for Catalysis and Synthesis, Pacifichem 2020, Honolulu, HI, December **2021**.
83. Flow Synthesis Using Flow and Microreactor Systems, Pacifichem 2020, Honolulu, HI, December **2021**.
82. SelectBIO Flow Chemistry Summit 2021, Boston, October **2021**.
81. Sustainability Through Flow Chemistry Symposium, IUPAC, Montreal, August **2021**.
80. Group for Research on Automated Flow Synthesis and Microreactor Synthesis (GRAMS), Awaji Island, Japan, November **2019**.
79. Catalysis Research at the Argonne Photon Source, Chicago, October **2019**.
78. 7th Conference of Frontiers in Organic Synthesis Technology (FROST7), Budapest, Hungary, October **2019**.
77. Green Chemistry Initiative, Toronto, May, **2019**.
76. Greater Indianapolis Organic Symposium Series (GIOSS), Indianapolis, Indiana, March **2019**.
75. Flow Chemistry Congress, Miami, November **2018**.
74. ACS GCI Pharmaceutical Roundtable, Boston, August **2018**.
73. Organic Synthesis at the Interface of Academia and the Pharmaceutical Industry. The CSC National Meetings, Edmonton, May **2018**.
72. Organic Synthesis at the Interface of Academia and the Pharmaceutical Industry. The CSC National Meetings, Edmonton, May **2018**.
71. Encyclopedia of Reagents for Organic Synthesis 2017 Best Reagent Address, Zurich, December **2017**.
70. Beilstein Organic Chemistry Symposium 2017, Potsdam, Germany, October **2017**
69. 21st Annual Green Chemistry and Engineering Conference, Reston, VA, June **2017**.
68. 20th Annual Green Chemistry and Engineering Conference, Portland, June **2016**.
67. Analysing in Flow. Miami Flow Conference, Select Biosciences. Miami, November **2016**.
66. The Negishi Reaction, Reveal Your Secrets, Raymond U. Lemieux Award Address. The CSC National Meetings, Ottawa, June **2016**.
65. Advances in Catalyzed Carbon-Element Bond Formation: Cross-coupling and Beyond, The CSC National Meetings, Ottawa, June **2015**.
64. Transition Metal Complexes of N-Heterocyclic and Mesoionic Carbenes: Structure, Materials and Catalytic Applications. Pacifichem, December **2015**.
63. Prospects for Flow Chemistry. Pacifichem, December **2015**.
62. Symposium on Innovative Approaches in Bond-Cleavage and Bond-Forming Reactions at Late Transition-Metal Centres, Pacifichem, December **2015**.
61. Advances in Synthetic Methods, A. Novel Reactivity and Catalytic Reactions, B. Flow Chemistry Symposium, The CSC National Meetings, Ottawa, June **2015**.
60. Recent Developments in Transition Metal Catalyzed Synthesis Symposium, The CSC National Meetings, Ottawa, June **2015**.
59. Vietnam International Chemical Congress, Hanoi, Vietnam, November **2014**.
58. Malaysian International Chemical Congress, Kuala Lumpur, Malaysia, November **2014**.
57. Brown-Negishi Lectures, Purdue University, October, **2014**.
56. CRC International Symposium, Chicago, October **2014**.
55. The International Conference on Organometallic Chemistry, Sapporo, Japan, July **2014**
54. The International Symposium on Homogeneous Catalysis, Ottawa, July **2014**
53. MEXT, 2014 Canada-Japan Workshop, Ottawa, July **2014**
52. Modern Characterization Methods in Inorganic Chemistry Symposium, The CSC National Meetings, Vancouver, June **2014**.
51. Synthetic Challenges in Drug Discovery and Development Symposium, The CSC National Meetings, Vancouver, June **2014**.
50. N-Heterocyclic and Mesoionic Carbenes in Catalysis Symposium, The CSC National Meetings, Vancouver, June **2014**.
49. Microwave and Flow Chemistry Conference, California, July **2013**.
48. Advances in Synthetic Chemistry symposium, CSC National Meetings, Quebec, June **2013**.
47. Green Chemistry: Catalysis symposium, The CSC National Meetings, Quebec, June **2013**.
46. A Symposium in Honour of David N. Harpp, CSC National Meetings, Quebec, June **2013**.

45. International Flow Chemistry Society Meeting, Boston, May **2013**.
44. Multi Component Reactions and Related Chemistry, Hangzhou, China, November **2011**.
43. The Canadian Institute for Chemistry National Meetings, Montreal, June **2011**.
42. Flow Chemistry Conference, Boston, April **2011**.
41. Tateshina Conference on Organic Chemistry, Nagano, Japan, November **2010**.
40. 4th International Forum on Homogeneous Catalysis, Kunming, China, October **2010**.
39. The Industrial Chemistry Symposium, The CSC National Meetings, Toronto, May **2010**.
38. The N-Heterocyclic Carbene Conference, The CSC National Meetings, Toronto, May **2010**.
37. Combinatorial Sciences in Biology, Chemistry, Catalysts and Materials. Beijing, Sept. **2009.**
36. Microwave-Assisted Organic and Protein Synthesis, Montpellier, France, June **2009**.
35. Multi Component Reactions and Related Chemistry, Ekaterinburg, Russia, May **2009**.
34. Enabling Technologies in Drug Discovery and Process Research, Antigua, January **2009**.
33. International Symposium on Cross-Coupling and Organometallics, Stockholm, Nov. **2008**.
32. Centers for Chemical Methodologies and Library Development. Kansas, October. **2008**.
31. Gordon Research Conference 200, High Throughput Technologies, Oxford, UK, Sept. **2008**
30. SYNTOP 2008, Bridging Chemistry and Engineering, Potsdam, Germany, June **2008**.
29. Microwave-Assisted Organic Synthesis, The CSC National Meetings**,** Edmonton, May **2008**.
28. The Microwave-Assisted Organic Synthesis Conference, San Francisco, October **2007**.
27. Modern Tools in Organic Synthesis, Edingurgh, July **2007**.
26. The Green Synthesis symposium, The CIC National Meetings**,** Winnipeg, May **2007**.
25. The 5th International Workshop on Micro Chemical Plants. Kyoto, Japan, January **2007**.
24. IKCOC10, Kyoto, Japan, November **2006**.
23. CRC International Symposium on Cross-Coupling, West Lafayette, September **2006**.
22. The Bangladesh Chemical Congress 2006, Bangladesh, December **2006**.
21. 2005 Symposium on Chemical Synthesis: Advances and Applications, Boston, May **2005**.
20. Microwave Assisted Organic Synthesis Conference, Boston, May **2005**.
19. The Canadian Institute for Chemistry National Meetings, Saskatoon, May **2005**.
18. Screening Europe 2005, Geneva, February 14-16, **2005**.
17. Cutting Edge Technologies in Combinatorial Chemistry, Web Cast, September 29, **2004.**
16. Address given at the National Institutes of Health, Bethesda, MD, March 15, **2004**.
15. The 2003 Combinatorial Chemistry Gordon Conference. Tilton, NH., July 6-11 **2003.**
14. Advancing Library Design and Organic Synthesis Conference, San Diego, CA, Feb. **2003**.
13. ACS Perspectives Meetings, Virginia, September **2002**.
12. Drug Discovery in the 21st Century", The American Chemical Society, October **2001**.
11. The Canadian Institute for Chemistry National Meetings, Montreal, May **2001**.
10. The North American Catalysis Symposium, Toronto, June **2001**.
9. The Canadian Institute for Chemistry National Meetings, Calgary, May **2000**.
8. The High Throughput Synthesis Symposium, San Diego, February **2000**.
7. The Royal Institute for the Advancement of Science, Toronto, January **2000**.
6. Calibration & Validation Group 1999 Annual Symposium & Exhibition, Toronto, Sept. **1999**.
5. The Exploiting Molecular Diversity Symposium, San Diego, February **1999**.
4. Third International Lake Tahoe Symposium on Molecular Diversity, Lake Tahoe, Jan. **1999**.
3. The NMHCC Bio/Technology Conference, San Diego, September **1998**.
2. The Canadian Institute for Chemistry National Meetings, Whistler (BC) June **1998**.
1. Opening Presentation at the ACS Central Regional Meeting, Midland (MI), May **1997**.

Other Invited Presentations:

222. University of Goettingen, Goettingen, Germany, November **2015**.
221. BASF, Ludwigshafen, Germany, November **2015**.
220. University of Heidelberg, Heidelberg, Germany, November **2015**.
219. University of Muenster, Heidelberg, Germany, November **2015**.
218. University of Muenster, Heidelberg, Germany, November **2015**.
217. University of Muenster, Heidelberg, Germany, November **2015**.
216. Pfizer, LaJolla, USA, March **2016**.
215. Novartis, LaJolla, USA, March **2016**.
214. PÜSCHNER GMBH + CO KG, Bremen, Germany, November **2015**.
213. Boehringer Ingelheim, Biberach, Germany, November **2015**.
212. Abbvie Pharmaceuticals, Ludwigshafen, Germany, November **2015**.
211. University of Regensburg, Regensburg, Germany, November **2015**.

210. Ludwig-Maximilians-University, Munich, Germany, November **2015**.
209. AstraZeneca, Cambridge, UK, October **2015**.
208. Eli Lilly and Company, UK, October **2015**.
207. GlaxoSmithKline, UK, October **2015**.
206. Syngenta Ltd., UK, October **2015**.
205. AstraZeneca, Maccesfield, UK, October **2015**.
204. Eli Lilly and Company, USA, July **2015**.
203. University of Wisconsin, Madison, May **2015**.
202. University of Illinois at Chicago, Chicago, May **2015**.
201. University of Chicago, Chicago, May **2015**.
200. Sigma-Aldrich, Milwaukee, May **2015**.
199. Abbvie Pharmaceuticals, Chicago, May **2015**.
198. Eli Lilly and Company, October **2014**.
197. The Dow Chemical Company, Collegeville, PA, USA, June **2014**.
196. GlaxoSmithKline, King of Prussia, PA, USA, June **2014**.
195. Universal Display Corporation, Trenton, NJ, USA, June **2014**.
194. Hokkaido University, Sapporo, Japan, February **2014**.
193. Bruker Inc., Karsruhe, Germany, October **2013**.
192. Freie Universitaet Berlin, Berlin, Germany, October **2013**.
191. University of Hannover, Hannover, Germany, October **2013**.
190. University of Stockholm, Stockholm, Sweden, October **2013**.
189. GlaxoSmithKline, Stevenage, UK, October **2013**.
188. Boehringer Ingelheim, Biberach, Germany, October **2013**.
187. University of Manchester, UK, October **2013**.
186. University of Birmingham, UK, October **2013**.
185. University of Bristol, UK, October **2013**.
184. University of Nottingham, UK, October **2013**.
183. University of Heidelberg, Germany, October **2013**.
182. Eli Lilly and Company, Indianapolis, Indiana, June **2012**.
181. Dow Agro Sciences, Indianapolis, Indiana, June **2012**.
180. Indiana University, Bloomington, Indiana, June **2012**.
179. Northwestern University of Michigan, Ann Arbor, Michigan, June **2012**.
178. University of Illinois, Chicago, Chicago, Illinois ,April **2012**.
177. Northwestern University, Chicago, Illinois ,April **2012**.
176. Abbott Pharmaceuticals: Process Chemistry, Chicago, Illinois ,April **2012**.
175. Abbott Pharmaceuticals: Discovery Chemistry, Chicago, Illinois ,April **2012**.
174. Spring National ACS Meeting, San Diego, California , March **2012**.
173. Spring National ACS Meeting, San Diego, California , March **2012**.
172. Spring National ACS Meeting, San Diego, California , March **2012**.
171. Nitto Denko Technical Corp, La Jolla, California , March **2012**.
170. Celgene/Signal Pharmaceuticals, San Diego, California , March **2012**.
169. Amgen Pharmaceuticals, South SanFrancisco, California , March **2012**.
168. Genentech Pharmaceuticals, South SanFrancisco, California , March **2012**.
167. Novartis Pharmaceuticals, Emeryville, California , March **2012**.
166. Bristol-Myer Squibb, Princeton, New Jersey, February **2012**.
165. Merck Pharmaceuticals, West Point, Pennsylvania, February **2012**.
164. GlaxoSmithKline Pharmaceuticals, Philadelphia, Pennsylvania, February **2012**.
163. GlaxoSmithKline Pharmaceuticals, Philadelphia, Pennsylvania, February **2012**.
162. Merck Pharmaceuticals, Rahway, New Jersey, February **2012**.
161. Pfizer Pharmaceuticals, Groton Connecticut, February **2012**.
160. Pfizer Pharmaceuticals, Groton Connecticut, February **2012**.
159. Pfizer Pharmaceuticals, Groton Connecticut, February **2012**.
158. Bristol-Myer Squibb, Wallingford, Connecticut, February **2012**.
157. 8th CRC International Symposium on Organometallics & Catalysis, Toronto, Feb. **2012**.
156. 8th CRC International Symposium on Organometallics & Catalysis, Toronto, Feb. **2012**.
155. 8th CRC International Symposium on Organometallics & Catalysis, Toronto, Feb. **2012**.
154. 8th CRC International Symposium on Organometallics & Catalysis, Toronto, Feb. **2012**.
153. Spring National ACS Meeting, San Diego, California, March **2011**.
152. Spring National ACS Meeting, San Diego, California, March **2011**.
151. Spring National ACS Meeting, San Diego, California, March **2011**.

150. Gilead Pharmaceuticals, Redwood City, California, March **2011**.
149. Waseda University, Tokyo, Japan, November **2010**.
148. University of Tokyo, Tokyo, Japan, November **2010**.
147. Gakushuin University, Tokyo, Japan, November **2010**.
146. Osaka Prefecture University, Osaka Prefecture, Japan, November **2010**.
145. Kyoto University (Kitashirakawa Campus), Kyoto, Japan, November **2010**.
144. Kyoto University (Toyonaka Campus), Kyoto, Japan, November **2010**.
143. Kyoto University (Katsura Campus), Kyoto, Japan, November **2010**.
142. Osaka University, (Toyonaka Campus), Osaka , Japan, November **2010**.
141. Osaka University, (Suita Campus), Osaka , Japan, November **2010**.
140. Hokkaido University, Sapporo, Japan, October **2010**.
139. Nagoya University, Nagoya, Japan, October **2010**.
138. Institute for Molecular Sciences, Nagoya, Japan, October **2010**.
137. RIKEN Institute, Tokyo, Japan, October **2010**.
136. Tokyo Institute of Technology, Tokyo, Japan, October **2010**.
135. BIKAKEN Institute, Tokyo, Japan, October **2010**.
134. Chuo University, Tokyo, Japan, October **2010**.
133. Keio University, Tokyo, Japan, October **2010**.
132. Saint Mary's University , September **2010**.
131. Dalhousie University , September **2010**.
130. University of Nijmegen , March **2010**.
129. University of Twente, The Netherlands, March **2010**.
128. University of Groningen , March **2010**.
127. Eindhoven University, The Netherlands, March **2010**.
126. McGill University , March **2010**.
125. Department of Chemistry, McGill University , March **2010**.
124. AstarZeneca Pharmaceuticals, Montreal, February **2010**.
123. University of Kansas, October **2009**.
122. Peking University, Beijing, September **2009**.
121. Shanghai Institute for Organic Chemistry, Shanghai, September **2009**.
120. University of Waterloo, July **2009**.
119. University Louis Pasteur, Strasbourg, France, June **2009**.
118. Institut de Chimie Organique et Analytique Université d'Orléans, June **2009**.
117. Institut des Sciences Moléculaires, University of Bordeaux, June **2009**.
116. University of Heidelberg, Heidelberg, May **2009**.
115. Marburg University, Marburg, May **2009**.
114. Ludwig-Maximilians-Universität, Munich, May **2009**.
113. Upsalla University, Upsalla, May **2009**.
112. University of Stockholm, Stockholm, May **2009**.
111. Department of Chemical Chemistry, University of Leeds, Leeds, UK, August **2008**.
110. University of Leeds, Leeds, UK, August **2008**.
109. Naeja Pharmaceuticals, Inc., Edmonton, March **2008**.
108. University of Alberta, Edmonton, March **2008**. Invited Naeja Pharmaceuticals Lecture.
107. Merck-Frosst Pharmaceuticals, Montreal, February **2008**.
106. Department of Chemical Engineering, University of Illinois, Urbana Champagne, Nov. **2007**
105. University of Illinois, Urbana Champagne, Illinois, November **2007**.
104. Brock University, St. Catherines, Ontario, November **2007**.
103. Washington University, St. Louis, Missouri, September **2007**.
102. University of Missouri Columbia, Columbia, Missouri, September **2007**.
101. Varian Inc. Walnut Creek, CA, August **2007**.
100. Dow Chemical Inc., Midland, Michigan, May **2007**.
99. Dow Corning Inc., Midland, Michigan, May **2007.**
98. Pleotint Inc., Holland, Michigan, May **2007.**
97. University of British Columbia, Vancouver, January **2007**.
96. GlaxoSmithkline, Research Triangle Park, NC, December **2006**.
95. Scynexis , Research Triangle Park, NC, December **2006**.
94. Tekada Pharmaceuticals Inc., Osaka, November **2006**.
93. Dainippon-Sumitomo, Osaka, November **2006**.
92. Banyu Inc., Tokyo, November **2006**.
91. Sankyo/Shinagawa, Tokyo, November **2006**.

90. Biovitrum Inc., Stockhom, Sweden, October **2006**.
89. AstraZeneca Inc., Stockholm, Sweden, October **2006**.
88. AstraZeneca Inc., Gothenburg, Sweden, October **2006**.
87. Carlsson Research Center, Lund, Sweden, October **2006**.
86. Gothenburg University, Gothenburg, Sweden, October **2006**.
85. AstraZeneca Inc., Lund, Sweden, October **2006**.
84. Arcadia Pharmaceuticals Inc., Lund, Sweden, October **2006**.
83. 7 TM Pharma Inc., Copenhagen, Denmark, October **2006**.
82. LeoPharma Inc., Copenhagen, Denmark, October **2006**.
81. Symbion Inc., Copenhagen, Denmark, October **2006**.
80. Lundbeck Pharmaceuticals Inc., Copenhagen, Denmark, October **2006**.
79. Synthetica Inc., Oslo, Norway, October **2006**.
78. Alpharma Inc., Oslo, Norway, October **2006**.
77. GlaxoSmithkline, Stevenage, England, October **2006**.
76. GlaxoSmithkline, Harlow, England, October **2006**.
75. GlaxoSmithkline, Tonbridge, England, October **2006**.
74. Max Planck Institute, Dortmund, Germany, September **2006**.
73. Umicore, Hanau, Germany, September **2006**.
72. Boehringer Ingelheim, Biberach, Germany, September **2006**.
71. Stuttgart University, Stuttgart, Germany, September **2006**.
70. Angen Pharmaceuticals Inc., Thousand Oaks, CA, September **2006**.
69. Ligand Pharmaceuticals Inc., San Diego, CA, September **2006**.
68. CV Therapeutics Inc., Palo Alto, CA, September **2006**.
67. Kosan Pharmaceuticals Inc., San Francisco, CA, September **2006**.
66. Symmx Inc., San Francisco, CA, September **2006**.
65. Biotage, Montreal, Quebec, August **2006**.
64. Merck Frosst Pharmaceuticals Inc., Montreal, Quebec, August **2006**.
63. AstraZeneca Inc., Montreal, Quebec, August **2006**.
62. Bristol-Myers Squibb Pharmaceuticals Inc., Montreal, Quebec, August **2006**.
61. Boehringer Ingelheim Pharmaceuticals Inc., Montreal, Quebec, August **2006**.
60. Enanta Pharmaceuticals, Boston, Massachusetes, June **2006**.
59. Wyeth Pharmaceuticals, Boston, June **2006**.
58. Pfizer Inc., Groton, Connecticut, May **2006**.
57. Pfizer Inc., Ann Arbor, Michigan, May **2006**.
56. Pfizer Inc., Ann Arbor, Michigan, May **2006**.
55. Eli Lilly and Company Inc., Indianapolis, Indiana, May **2006**.
54. Abbott Pharmaceuticals Inc., Chicago, Illinois, May **2006**.
53. Bristol-Myers Squibb, Princeton, New Jersey, May **2006**.
52. Johnson and Johnson Pharmaceuticals, New Jersey, May **2006**.
51. Merck Pharmaceuticals Inc., Rahway, New Jersey, May **2006**.
50. Virtex Pharmaceuticals, New Jersey, May **2006**.
49. CV Therapeutics, Palo Alto, March **2005**.
48. Southampton University, Southampton, UK, February **2005**.
47. Southampton University, Southampton, UK, February, **2005**.
46. University of Graz, Graz, Austria, February **2005**.
45. University of Vienna, Austria, February **2005**.
44. University of Kansas, Livermore, February **2004**.
43. CV Therapeutics, Palo Alto, March **2004**.
42. Personal Chemistry Inc., Uppsala, Sweden, May **2003**.
41. Uppsala University, Uppsala, Sweden, April May **2003**.
40. Brock University, St. Catherines, April **2003**.
39. Dublin City, Dublin, March, **2003**.
38. University College Cork, Cork, March **2003**.
37. University of Calgary, Calgary, February **2003**.
36. Pfizer pharmaceuticals, Ann Arbor, June **2001**.
35. Boehringer Ingelheim, Connecticut, April **2001**.
34. Merck Frosst Inc., Montreal, March **2001**.
33. Tulane University, New Orleans, March **2001**.
32. Waterloo University, Waterloo, March **2001**.
31. McGill University, Montreal, January **2001**.

30. University College Dublin, Dublin, November, **2000**.
29. Dupont Pharmaceuticals, Wilmington, Delaware, June **2000**.
28. Department of Biology, York University, January **2000**.
27. AstraZeneca, Laval, December **1999**.
26. BioChem Pharma, Montreal, October **1999**.
25. Eli Lilly and Company, Toronto, September **1999**.
24. Glaxo-Wellcome, Stevenage (UK), August **1999**.
23. Brantford Chemical, Brantford, June **1999**.
22. Barringer Technologies Inc., May **1999**.
21. Uniroyal Chemical, Guelph, April **1999**.
20. Eli Lilly and Company, Scarborough, April **1999**.
19. Xerox, Mississauga, April **1999**.
18. Biovail, Toronto, December **1998**.
17. University of Windsor, Windsor, November **1998**.
16. Argonaut Technologies, San Carlos (CA), September **1998**.
15. Ontogen Corporation, San Diego, September **1998**.
14. Dalton Chemical Laboratories, Toronto, August **1998**.
13. Union Carbide Corporation, Charleston (WV), June **1998**.
12. Allelix Biopharmaceuticals, Mississauga, October **1997**.
11. Boehringer Ingelheim, Laval, September **1997**.
10. Notre Dame University, Notre Dame, April **1997**.
9. Purdue University, West Lafayette, March **1997**.
8. York University, Toronto, December **1996**.
7. Eli Lilly and Company, Indianapolis, May **1996**.
6. Indiana University/Purdue University at Indianapolis, Indianapolis, April **1994**.
5. The University of Northern British Columbia, Prince George (BC), March **1994**.
4. Allelix Biopharmaceuticals, Toronto, March **1994**.
3. East Carolina University, Greensville (NC), March **1994**.
2. Illinois Institute of Technology, Chicago, March **1994**.
1. Seton Hall University, South Orange (NJ), February **1994**.

Invited International Lectureships Administered by The American Chemical Society:

19. Bristol Myer Squibb, Connecticut, February **2003**.
18. Drug Discovery Meetings, Osaka, April **2002**.
17. ACS National Meetings, Orlando, April **2002**.
16. ACS Perspectives Meetings, Zurich, Switzerland, November **2001**.
15. Novartis, Somerset, NJ, October **2001**.
14. Boston Drug Discovery Meetings, Boston, August **2001**.
13. ACS National Meetings, Chicago, August **2001**.
12. ACS National Meetings, San Diego, April **2001**.
11. Dalton Chemical Laboratories, Toronto, March **2001**.
10. PITTCON 2001, New Orleans, March **2001**.
9. Midwest Regional ACS Short Course, Chicago, December **2000**.
8. Dublin City University, Dublin, November **2000**.
7. Calibration & Validation Group, Toronto, October **2000**.
6. Boston Drug Discovery Meetings, Boston, August **2000**.
5. ACS short course for Industry and Academia, ACS Perspectives, Tucson, April **2000**.
4. Northeast Regional ACS Short Course, Boston, August **2000**.
3. An ACS short course for industry and academia, San Francisco, April **2000**.
2. INTERPHEX, New York, March **2000**.
1. Worldpharm 1999, Philadelphia, October **1999**.

Papers Presented In Conference Proceedings:

59. ORGN-622. 249th ACS National Meeting & Exposition, San Diego, CA, March **2015**
58. ORGN-107. 249th ACS National Meeting & Exposition, San Diego, CA, March **2015**
57. ORGN-106. 249th ACS National Meeting & Exposition, San Diego, CA, March **2015**
56. ORGN-328. 249th ACS National Meeting & Exposition, Denver, CO, August **2015**.
55. ORGN-327. 249th ACS National Meeting & Exposition, Denver, CO, August **2015**.

54. ORGN-235. 249th ACS National Meeting & Exposition, Denver, CO, August **2015**.
53. ORGN-447. 249th ACS National Meeting & Exposition, Denver, CO, August **2015**.
52. ORGN-165. 248th ACS National Meeting & Exposition, San Francisco, CA, August **2014**.
51. ORGN-479. 248th ACS National Meeting & Exposition, San Francisco, CA, August **2014**.
50. ORGN-606. 248th ACS National Meeting & Exposition, San Francisco, CA, August **2014**.
49. ORGN-607. 248th ACS National Meeting & Exposition, San Francisco, CA, August **2014**.
48. ORGN-319. 247th ACS National Meeting & Exposition, Dallas, TX, **2014**.
47. ORGN-320. 247th ACS National Meeting & Exposition, Dallas, TX, **2014**.
46. ORGN-361. 247th ACS National Meeting & Exposition, Dallas, TX, **2014**.
45. ORGN-277. 247th ACS National Meeting & Exposition, Dallas, TX, **2014**.
44. ORGN-470. 246th ACS National Meeting & Exposition, Indianapolis, IN, September **2013**.
43. ORGN-452. 246th ACS National Meeting & Exposition, Indianapolis, IN, September **2013**.
42. ORGN-440. 246th ACS National Meeting & Exposition, Indianapolis, IN, September **2013**.
41. ORGN-387. 245th ACS National Meeting & Exposition, New Orleans, LA, April **2013**.
40. ORGN-386. 245th ACS National Meeting & Exposition, New Orleans, LA, April **2013**.
39. ORGN-385. 245th ACS National Meeting & Exposition, New Orleans, LA, April **2013**.
38. ORGN-761. 243rd ACS National Meeting & Exposition, San Diego, CA, March **2012**.
37. ORGN-706, 243rd ACS National Meeting & Exposition, San Diego, CA, March **2012**.
36. ORGN-267, 242nd ACS National Meeting & Exposition, San Diego, CA, March **2011**.
35. ORGN-266, 242nd ACS National Meeting & Exposition, San Diego, CA, March **2011**.
34. ORGN-266, 241st ACS National Meeting & Exposition, Anaheim, CA, March **2011**.
33. ORGN-527, 240th ACS National Meeting & Exposition, Boston, MA, March **2010**.
32. ORGN-478, 240th ACS National Meeting & Exposition, Boston, MA, March **2010**.
31. ORGN-400, 238th ACS National Meeting & Exposition, Washington, DC, March **2010**.
30. ORGN-399, 238th ACS National Meeting & Exposition, Washington, DC, March **2010**.
29. MEDI-253, 233rd ACS National Meeting & Exposition, Boston, MA, March **2007**.
28. ORGN-012. 232nd ACS National Meeting & Exposition, San Francisco, CA, Sept. **2006**.
27. ORGN-011. 232nd ACS National Meeting & Exposition, San Francisco, CA, Sept. **2006**.
26. ORGN-011. 231st ACS National Meeting & Exposition, Atlanta, GA, March. **2006**.
25. ORGN-196. 231st ACS National Meeting & Exposition, Atlanta, GA, March. **2006**.
24. ORGN-374. 230th ACS National Meeting & Exposition, Washington, DC, Sept. **2005**.
23. ORGN-373. 230th ACS National Meeting & Exposition, Washington, DC, Sept. **2005**.
22. ORGN-372. 230th ACS National Meeting & Exposition, Washington, DC, Sept. **2005**.
21. ORGN-371. 230th ACS National Meeting & Exposition, Washington, DC, Sept. **2005**.
20. ORGN-683. 226th ACS National Meeting & Exposition, New York, NY, Sept. **2003**.
19. ORGN-438. 222nd ACS National Meeting & Exposition, Chicago, IL, August **2001**.
18. 11th Québec / Ontario Mini symposium in Synthetic Chemistry, Toronto, November **2000**.
17. 11th Québec / Ontario Mini symposium in Synthetic Chemistry, Toronto, November **2000**.
16. 10th Québec / Ontario Mini symposium in Synthetic Chemistry, Saint-Sauveur, Nov. **1999**.
15. The Canadian Institute for Chemistry National Meetings, Whistler (BC), June **1998**.
14. 25th Ontario/Quebec Physical Organic Mini Symposium, London, November **1997**.
13. 9th IUPAC-Symposium on Organometallic Chemistry, Göttingen (Germany), July **1997**.
12. The Canadian Institute for Chemistry National Meetings, Windsor, June **1997**.
11. 19th Ontario/Quebec Physical Organic Mini Symposium, Guelph, December **1991**.
10. GWC2 Annual Conference, Waterloo, November **1991**.
9. 1st Ontario/Quebec Mini symposium in Synthetic Chemistry, Toronto, October **1990**.
8. The Canadian Institute for Chemistry National Meetings, Halifax, July **1990**.
7. Great Lakes Photochemistry Symposium, London, Ontario, May **1990**.
6. GWC2 Annual Conference, Waterloo, November **1989**.
5. A.S.P.P. Meeting, Reno, July **1988**. Abstract: *Plant Physiol. 86* (suppl.) 149.
4. C.S.P.P. Eastern Regional Meeting, Guelph, December **1987**.
3. 20th Plant Development Workshop, Vineland (Ont.), December **1987**.
2. A.S.P.P. Meeting, St. Louis, July **1987**. Abstract: *Plant Physiol. 83* (suppl.) 22
1. Candian Society for Plant Physiology, Kingston, Ontario, June **1987**.

Publications*:*

Career numbers:

- Papers in refereed journals (accepted): 163
- Book Chapters: 4
- Patents or Patents Pending: 13

- Major invited contribution and/or technical reports: 3

Current H-Index: 55 (Source: Google Scholar):
Current i10-Index (Manuscripts cited 10 or more times): 141
Manuscripts Cited 100 Or More Times: 39
Total Citations: 13,223

Journal Articles Submitted:

167. Semeniuchenko, V.; Ovens, J.; Braje, W. M.; Organ, M. G. *Organometallics*, **2021**NaBHT generated from BHT and NaOtBu: crystallographic characterization and applications in Buchwald-Hartwig amination.
166. Mohammadzadeh, A.; Sharif, S.; Semeniuchenko, V.; Townsend, N.; Corbett, A. D.; Organ, M. G. *J. Org. Chem.* **2021** (Manuscript Number ID jo-2021-01289j) Lithium Aluminum Hydride in Flow: Overcoming Exotherms, Solids, and Gas Evolution En Route to Chemoselective Reductions.
165. Semeniuchenko, V.; Sepideh, S.; Day, J.; Chandrasoma, N.; Pietro, W.; Manthorpe, J.; Braje, W. M.; Organ, M. G. *J. Org. Chem.* **2021** (Manuscript Number ID jo-2021-01057u) (DiMeIHeptCl)Pd: A Low-Load Catalyst for Efficient, Solvent-Free Amination.
164. Workmana, S. D.; Day, J.; Farhaf, M. A.; Brown, E. D.; Organ, M. G.; C. J. Strynadkaa, N. C. J. *J. Med. Chem.* **2021**. (Manuscript Number ID jm-2021-00941r) Antimicrobial Agent and Chemotherapy Structural insight into the inhibition of undecaprenyl pyrophosphate 1 synthase from Gram-positive bacteria.

Journal Articles Accepted:

163. Semeniuchenko, V.; Braje, W. M.; Organ, M. G. *Chem. Eur. J.* **2021**. In Press. (Manuscript Number ID chem.202101617) Sodium Butylated Hydroxytoluene (NaBHT): An Ideal Base for Solvent-Free, Pd-Catalysed Amination.
162. Morin, M. A.; Mallik, D.; Zhang, Organ, M. G. *Angew. Chem.* **2021**, In Press. (Manuscript Number ID 202102009) Sampling and Analysis in Flow: The Keys to Smarter, More Controllable, and Sustainable Fine-Chemical Manufacturing.(https://doi.org/10.1002/anie.202102009)
161. Kwak, J. S.; Zhang, W.; Mallik, D.; Organ, M. G. *Anal. Chem.* **2021**, In Press. (Manuscript Number ja-2020-09648q). Chiral API Development Redefined: Intelligent Multidimensional Purity Analysis and Confirmation Tool for Multiple Attribute Analysis.
(https://doi.org/10.1021/acs.analchem.0c04652)
160. Morin, M. A.; Mallik, D.; Zhang, W.; Pietro, W.; Manthorpe, J. M.; Organ, M. G. *Chem. Methods.* **2021**, ASAP (Manuscript Number ID chem.202004960). Obtaining Kinetics From Continuous Chemical Processes: Converting Space Into Time With the Switch of a Valve.
(https://doi.org/10.1002/cmtd.202100003)

Spotlight Article

159. Nnamdi, F. U.; Diner, C.; Champagne, P. A.; Organ, M. G. *Chem. Eur. J.* **2021**, *26*, 3855- 3860. Experimental and Computational Study on the Anti-Markovnikov Hydrofunctionalization of Olefins Using Glycine-Extended AQ-Auxiliaries. (https://doi.org/10.1002/chem.202004881)
158. Eckert. P.; Sharif, S.; Organ, M. G. *Angew. Chem. Int. Ed.* **2021**, *60*, 12224-12241 (*Angew. Chem.* **2021**, *133*, 12332-12349). Salt to Taste: The Critical Roles Played by Inorganic Salts in Organozinc Formation and in the Negishi Reaction. (https://doi.org/10.1002/anie.202010917)
157. Kwak, J. S.; Bizarri, N.; Sharif, S.; Zhang, W.; Mallik, D.; Organ, M. G. *Chem. Eur. J.* **2020**, *26*, 15505-15508 The synthesis of warfarin using a reconfigurable-reactor platform integrated to a multiple variable optimization tool.(https://doi.org/10.1002/chem.202003700)
156. Eckert. P.; Organ, M. G. *Chem. Eur. J.* **2020**, *26*, 4861-4865. The critical role of LiBr in avoiding catalyst death of Pd-NHC complexes and its impact on cross-coupling.(https://doi.org/10.1002/chem.202000288)

Hot Paper

155. El-Halfawy, O. M.; Czarny, T. L.; Flannagan, R. L.; Day, J.; Salim, A.; Kuiack, R. C.; McGavin, J. M.; Organ, M. G.; Heinrichs, D. E.; Brown, E. D. *Nature Chemical Biology*. **2020**, *144*, 143–149. Antagonism screen uncovers anti-virulence agents that reverse β- lactam resistance in MRSA.
(https://doi.org/10.1038/s41589-019-0401-8)

Hot Paper

154. Eckert. P.; Organ, M. G. *Chem. Eur. J.* **2019**, *25*, 15751-15754. The Role of LiBr and $ZnBr_2$ on the Coupling of sp2-Hybridized Oxidative Addition Partners with sp3-Hybridized Organozincs.(https://doi.org/10.1002/chem.201903931)

Very Important Paper

153. Lombardi,C.; Champagne, P.; Rucker, R. P.; Froese, R. D. J.; Organ, M. G. *Chem. Eur. J.* **2019**, 25,14223 –14229. Rate and Computational Studies for Pd-NHC-Catalyzed Amination with Primary Alkylamines and Secondary Anilines. Rationalizing Selectivity for Mono-Arylation vs Di-Arylation With NHC Ligands.(https://doi.org/10.1002/chem.201903362)
152. Sharif, S.; Rodriguez, M. J.; Lu, Y.; Kopach, M. E.; Mitchell, D.; Hunter, H. N.; Organ, M. G. *Chem. Eur. J.* 2019, *25*, 13099-13103. Sodium Butylated Hydroxytoluene (NaBHT) as a new and Efficient Hydride Source for Pd-Catalysed Reduction Reaction.
(https://doi.org/10.1002/chem.201902876)
151. Sinha, N.; Heijnen, D.; Feringa, B. L.; Organ, M. G. *Chem. Eur. J.* **2019**, *25*, 9180 – 9184. Murahashi cross-coupling at -78 °C by rapid, single-shot organolithium addition; a one- pot procedure for sequential C-C/C-C, C-C/C-N, and C-C/C-S of bromo-chloro arenes.
(https://doi.org/10.1002/chem.201901678)
Highlighted SYNFACT 2019, 15(10), 1109.
150. Sinha, N.; Champagne, P. A.; Rodriguez, M. J.; Lu, Y.; Kopach, M. E.; Mitchell, D.; Organ, M. G. *Chem. Eur. J.* **2019**, *25*, 6508-6512. One-Pot

Sequential Kumada-Tamao- Corriu Couplings of (Hetero)Aryl Polyhalides in the Presence of Grignard-Sensitive Functional Groups Using *Pd-PEPPSI-IPent*^{Cl}.(https://doi.org/10.1002/chem.201901150)

149. Diner, C.; Organ, M. G. Organometallics, **2019**, *38*, 66-75. Invited Perspective. What Industrial Chemists Want - Are Academics Giving It To Them?(https://doi.org/10.1021/acs.organomet.8b00818)

148. Price, G.; Mallik, D.; Organ, M. G. *J. Flow Chem.* **2018**, *8*, 82-86. Process Analytical Tools for Flow Analysis.(https://d-nb.info/1160265615/34)

Spotlighted Paper

147. Sharif, S.; Day, J.; Hunter, H. N.; Lu, Y.; Mitchell, D.; Rodriguez, M. J.; Organ, M. G. *J. Am. Chem. Soc.* **2017**,*139*, 18436–18439. Cross-coupling of primary amides to aryl- and heteroaryl-partners using *(DiMeIHept*^{Cl}*)Pd* promoted by trialkylboranes or BCF. (http://doi.org/10.1021/Jacs.7B09488)

146. Price, G. A.; Hassan, A.; Chandrasoma, N.; Bogdan, A. R.; Djuric, S. W.; Organ, M. G. *Angew. Chem. Int. Ed.* **2017**, *56*. 13347-13350. *Pd-PEPPSI-IPent-SiO*$_2$, a Supported Catalyst for Challenging Negishi Coupling Reactions in Flow.(https://doi.org/10.1002/anie.201708598)

145. Khadra, A.; Mayer, S.; Mitchell, D.; Rodriguez, M. J.; Organ, M. G. *Organometallics* **2017**, *36*, 3573-3577. A General Protocol for the Broad-Spectrum Cross-Coupling of Non-Activated, Sterically Hindered 1° and 2° Amines.(https://doi.org/10.1021/acs.organomet.7b00490)

144. Froese, R. D. J; Lombardi, C.; Pompeo, M.; Rucker, R. P.; Organ, M. G. *Accounts of Chemical Research.* **2017**, 50, 2244–2253. Designing Pd-*N*-Heterocyclic Carbene (NHC) Complexes for High Reactivity *and* Selectivity for Cross-Coupling Applications. (https://doi.org/10.1021/acs.accounts.7b00249)

143. Kwak, J. S.; Zhang, W.; Tsoy, D.; Hunter, H. N.; Mallik, D.; Organ M. G. *Org. Proc. Res. Dev.* **2017**, *21*, 1051–1058. A Multi-Position Valve for Uninterrupted Sampling from Heterogeneous Slurries - An Application for Flow Chemistry.(https://doi.org/10.1021/acs.oprd.7b00166)

142. Chen, X.; Organ, M. G.; Pietro, W. *Nanoscience, Adv. Technol.* **2017**, *2*, 5. A Facile Controlled Preparation Method of Multifunctional Core-Shell Magnetic Nanoparticles by Thiol-ene Click Reactions, and Their Potential Use in Microfluidic Separations. (http://doi.org/10.24218/jnat.2017.21)

141. Khadra, A.; Mayer, S.; Organ, M. G. *Chem. Eur. J.* 2017*, 23,* 3206-3212. *Pd-PEPPSI- IPent*^{Cl}, A Useful Catalyst for the Coupling of 2-Aminopyridine Derivatives.(https://doi.org/10.1002/chem.201605490)

140. Lombardi, C.; Mitchell, D.; Rodriguez, M. J.; Organ, M. G. *Eur. J. Org. Chem* **2017***,* 2017*,* 1510-1513. *Pd-PEPPSI-IPent*^{Cl} Catalyzed Amination Using Aminotriphenylsilane as an Ammonia Surrogate.(https://doi.org/10.1002/ejoc.201601565)

139. Lombardi, C.; Day, J.; Chandrasoma, N.; Mitchell, D.; Rodriguez, M. J.; Farmer, J. L.; Organ, M. G. *Organometallics* **2017**, *36*, 251-254. The Selective Cross-coupling of (Hetero)aryl Halides with Ammonia to Produce Primary Arylamines using Pd-NHC Complexes. (https://doi.org/10.1021/acs.organomet.6b00830)

138. Khadra, A.; Organ, M. G. *J. Flow. Chem.* **2016**, *6,* 293-296. Generation and Use of Benzyne Intermediates for Diels-Alder Cycloaddition in Flow.

137. Teci, M.; Tilley, M.; McGuire, M. A.; Organ, M. G. *Org. Proc. Res. Dev.* **2016**, *20*, 1967- 1973. Handling hazards using continuous flow chemistry: synthesis of N^1-*aryl*-1,2,3- triazoles from anilines *via* telescoped three step diazotization / azidodediazotization / [3 + 2] dipolar cycloaddition processes.(https://doi.org/10.1021/acs.oprd.6b00292)

136. Teci, M.; Tilley, M.; McGuire, M. A.; Organ, M. G. *Chem. Eur. J.* **2016,** *22.* 17405-17407. Using anilines as masked cross-coupling partners: design of a telescoped three-step flow diazotization, iododediazotization, cross-coupling process.(https://doi.org/10.1002/chem.201603626)

135. Sharif, S.; Mitchell, D.; Rodriguez, M. J.; Farmer, J. L.; Organ, M. G. *Chem. Eur. J.* **2016,** *22.* 14860-14863. *N*-Heteroarylation of Optically Pure α-Amino Esters using the *Pd- PEPPSI-IPent*^{Cl}*-o-picoline* Pre-catalyst.(https://doi.org/10.1002/chem.201603933)

Encyclopedia of Reagents for Organic Synthesis 2017 Best Reagent Award

134. Lombardi, C.; Organ, M. G. *Encyclopedia of Reagents for Organic Synthesis (EROS)* **2016**. *trans*-[1,3-B(2,6-Di-3-pentylphenyl)imidazol-2-ylidene](3-chloropyridyl)palladium(II) Dichloride (*Pd-PEPPSI*^{TM}*-IPent*).(https://doi.org/10.1002/047084289X.rn02073)

133. Atwater, B.; Chandrasoma, N.; Mitchell, D.; Rodriguez, M. J.; Organ, M. G. *Chem. Eur. J.* **2016,** *22,* 14531-14534 *Pd-PEPPSI-IHept*^{Cl}: A General Purpose, Highly Reactive Catalyst for the Selective Coupling of Secondary Alkyl Organozincs.(https://doi.org/10.1002/chem.201603603)

132. Day, C.; Saledega, A.; Tilley, M.; Hunter, H. N.; Organ, M. G.; Wilson, D. J. *Org. Proc. Res. Dev.* **2016**, *20.* 1738-1743. A Continuous High Efficiency Extraction Device (HEED) for Flow Synthesis.(https://doi.org/10.1021/acs.oprd.6b00226)

131. Price, G. A.; Bogdan, A. R.; Aguirre, A. L.; Iwai, T.; Djuric, S. W.; Organ, M. G. *Catalysis Science & Technology* **2016**, *6*, 4733 – 4742. Continuous flow Negishi cross-couplings employing silica-supported *Pd-PEPPSI-IPr* Precatalyst.(https://doi.org/10.1039/C6CY00331A)

130. Chen, X.; Organ, M. G.; Pietro, W. J. *J. Nanosci, Adv. Technol.* **2016**, 1, 25-31. One-pot synthesis of size controllable amine-functionalized core-shell magnetic nanoparticles for use in microfluidic flow separators.(https://doi.org/10.24218/jnat.2016.14)

129. Schruder, C. W.; Organ, M. G.; Pietro, W. J. *Current Nanoscience* **2016**, 12, 448-454. Metal nanoparticle impregnated controlled-size silica macrospheres as a microwave- transparent catalyst system for MACOS.(http://doi.org/10.2174/1573413712666160115000726)

128. Tilley, M.; Li, G.; Savel, P.; Mallik, D.; Organ, M. G. *Org. Proc. Dev. Res.* **2016**, *20*, 517- 524. Intelligent Continuous Collection Device for High-Pressure Flow Synthesis: Design and Implementation.(https://doi.org/10.1021/acs.oprd.5b00363)

127. Sharif, S.; Rucker; R. P.; Chandrasoma, N.; Mitchell, D.; Rodriguez, M. J.; Pompeo, M.; Froese, R. D. J.; Organ, M. G. *Angew. Chem. Int. Ed.* **2015**, *54*, 9507-9511. (*Angew. Chem.* **2015**, *127*, 9643–9647). Selective Monoarylation of Primary Amines using the *Pd- PEPPSI-IPent*^{Cl}Precatalyst. (https://doi.org/10.1002/anie.201502822)

Article awarded frontispiece.

Highlighted in Chemical and Engineering News, July 6, **2015** issue, page 41.

126. Atwater, B.; Chandrasoma, N.; Mitchell, D.; Rodriguez, M. J.; Pompeo, M.; Froese, R. D. J.; Organ, M. G. *Angew. Chem. Int. Ed.* **2015**, *54*, 9502 –9506. (*Angew. Chem.* **2015**, *127*, 9638–9642). The Selective Cross-Coupling of Secondary Alkyl Zinc Reagents to Five-Membered-Ring Heterocycles Using *Pd-PEPPSI-IHept*^{Cl}.(https://doi.org/10.1002/anie.201503941)

125. Farmer, J. L.; Froese, R. D. J.; Lee-Ruff, E.; Organ, M. G. *Chem. Eur. J.* **2015**, *20,* 1888- 1893. Solvent Choice and Kinetic Isotope Effects (KIE) Dramatically Alter Regioselectivity in the Directed Ortho Metallation (DoM) of 1,5-Dichloro-2,4- dimethoxybenzene. (https://doi.org/10.1002/chem.201405981)

124. Somerville, K.; Tilly, M.; Li, G.; Mallik, D.; Organ, M. G. *Org. Proc. Dev. Res.* **2014**, *18*, 1315-1320. A Flow Reactor with Inline Analytics: Design and Implementation.(https://doi.org/10.1021/op5002512)

123. Sauks, J. M.; Mallik, D.; Lawryshyn, Y.; Bender, T.; Organ, M. G. *Org. Proc. Dev. Res.* **2014**, *18*, 1310–1314. A Continuous Flow Microwave Reactor for Conducting High Temperature and High Pressure Chemical Reactions.(https://doi.org/10.1021/op400026g)

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Industrial Interactions:

Established Research Collaborations

All of these relationships are funded by the companies listed to a total of $7,953,000.

- Corteva Agrisciences: M. G. Organ travelled to Corteva to discuss specific research projects on-going at Corteva and the role that small molecule synthesis and discovery plays in herbicide and pesticide development. Discussions are underway about new catalysts that the PI could develop to solve on-going problems at Corteva. (03/19 – present)
- CTC Robotics: M. G. Organ was asked to develop valve technology to install on liquid-handling robotic stations for the purpose of doing biosample processing. (01/18 – present)
- Phytronix Inc.: M. G. Organ was asked to develop a single platform for conducting chemical reactions in both flow and in batch that can utilize existing expertise developed at Phytronix. (01/18 – present)
- Thermo-Fisher Scientific: M. G. Organ was asked to develop in-line sampling and analysis hardware and software to extract samples from flow chemistry streams. This has reached the point of preparing alpha units for testing in industrial sites for evaluation to take to commercialization. (01/18 – present)
- Pfizer: M. G. Organ was asked to develop new catalysts and processes to couple highly valued and privilaged heterocyclic motifs for which no current methodlogy will work. (05/14 – present)
- GlaxoSmithKline: M. G. Organ was asked to develop ways flow chemistry technology to run high temperature/high pressure reactions on unstable intermediates in the Process Chemistry Group at GSK. (10/12 – present)
- Syngenta: M. G. Organ travelled to Syngenta Inc. in the UK to present catalysis results relating to commercially available PEPPSI catalysts. Company detailed problems with synthetic route being developed in their company and discussed establishing collaborations (10/15 – present)
- Eli Lilly and Company: M. G. Organ was asked to develop ways to selectively introduce sp3 hybridized centres into drug candidates as part of a collaborative program with both Discovery and Process Chemistry at Eli Lilly. (11/12 – present)
- Abbvie Pharmaceuticals Inc.: M. G. Organ has been invited to Abbott to consult on their flow program and to look for research of mutual interest. In particular, Abbott scientists have special interests in the supported version of the PI's Pd-PEPPSI series of supported cross coupling catalysts and applying them to flow. (05/10 – present)
- Agilent Inc. (formerly Varian Inc.): This collaboration involves the development of artificial intelligence software for iterative feedback reaction optimization using microwave assisted, continuous flow organic synthesis. (08/07 – present)
- Merck: Scientists at Merck have installed a beta microwave–assisted continuous flow organic synthesis (MACOS) station that has been designed and patented by M. G. Organ. New methods for the design and synthesis of molecular libraries are being developed jointly by scientists in the PI's group and at Merck. (01/10 – 12/12)
- Wavecraft Inc.: This is an engineering firm that is constructing the new microwave system that the PI has designed for flow applications. (09/09 – 08/14)
- Xerox Inc.: This collaboration involves the development of new catalysts for the formation of carbon-nitrogen bonds, especially for the production of triaryl amine type materials that have applications in the printing industry. (06/07 – 09/12).
- Dalton Pharma Inc.: This collaboration involves the development of new base polymers for supported reagents for use in microwave assisted, continuous flow organic synthesis. (11/06 – 04/12)
- Biotage inc.: This collaboration involves the development of incorporation of flow chemistry into a microwavable platform. (11/06 – 04/12)
- Syrris inc.: This collaboration involves the incorporation of pumping technology and back pressure regulation into a new cohesive design for microwave-assisted, continuous flow organic synthesis. (11/06 – 04/12)
- Bristol-Meyer Squibb: This collaboration involves the development of new protease inhibitors based on unique main-group element scaffolds. (08/00 – 02/02)
- Eli Lilly and Company: This collaboration was based on novel transition metal mediated transformations developed in the PI's laboratory that has led to the preparation of several molecular libraries (e.g., benzylaminobiaryls, allylic amines, ethanolamines, etc.) that are undergoing evaluation at Lilly in a variety of therapeutic areas including CNS. (09/97 – 04/03)
- Merck: Working jointly with researchers at Merck, the PI is developing a new high throughput screening methodology to screen molecular libraries mixtures. Merck is supplying expertise in the expression and handling of COX II enzyme while the York group is building the library and actually conducting the screening. (02/02 – 01/04)
- Glaxo-SmithKline: Working on the development of synthesis methodologies for the preparation of cyclic molecules for molecular library preparation. (09/97 – 01/03)
- MDS Laboratories Ltd.: MDS SCIEX is a world-leading manufacturer of mass spectrometers, especially in the area of protein mass spectroscopy (proteomics). MDS has funded the development of FAC/MS as a unique platform for the screening of mixtures of potential drug candidates. (04/01 – 03/04).

Spin-Off Companies:

- Total Synthesis Ltd. is a drug-discovery based company that does basic research in medicinal chemistry in collaboration with larger companies. Operating this company takes approximately 7.5 hours per week.

Invited Consulting Activities:

- Paid consultant for Abbott Laboratories, Chicago, Illinois.
- Paid consultant for GLYCODesign in Toronto, Ontario.
- Paid consultant for Active Pass Pharmaceuticals in Vancouver, British Columbia.

Invited Advisory Activities:

- Serve on the Editorial Board of ChemcatChem (2016 – present).
- Serve on the Editorial Board of Chemistry—A European Journal (2013 – present).
- Serve on the Advisory Board of the Journal of Flow Chemistry (2011 – present).
- Served on the Advisory Board of the Journal of Combinatorial Science, formerly the Jouranl of Combinatorial Chemistry (a journal of the American Chemical Society) (2001 – present).
- Served on the External Advisory Board of the University of Kansas Center for Chemical Methods and Library Development (KU-CMLD) (2002-2007).
- Served on the Advisory Board/Think Tank for Biotage Inc. which is located in Upsalla,Sweden (2006 - 2009).