CURRICULUM VITAE

GENEVIEVE SAUVE

Nov. 24, 2015

Business Address: Case Western Reserve University
Department of Chemistry
10900 Euclid Avenue
Cleveland, Ohio 44106-7078

Phone: 216-368-3665

E-mail: genevieve.sauve@case.edu

Web page: http://www.case.edu/artsci/chem/faculty/sauve/

Education

1990-1994 Concordia University, Montreal, Canada
B.S. Chemistry (Honors)

1994-1999 California Institute of Technology, Pasadena, CA
Ph.D. Chemistry
Thesis: "Dye Sensitization of Nanocrystalline Titanium Dioxide"
Advisor: Professor Nathan S. Lewis

2002-2008 Carnegie Mellon University
Postdoctoral Fellow and Research Associate, Conducting Polymers
Advisor: Professor Richard D. McCullough

Professional Appointments

7/15-present Associate Professor of Chemistry
Department of Chemistry, Case Western Reserve University, Cleveland, OH

7/14-6/15 Frank Hovorka Assistant Professor of Chemistry
Department of Chemistry, Case Western Reserve University, Cleveland, OH

7/09-6/14 Assistant Professor of Chemistry
Department of Chemistry, Case Western Reserve University, Cleveland, OH

2008-2009 Visiting Scientist
Helmholtz-Centre Berlin for Materials and Energy, Berlin, Germany

2008-2009 Visiting Assistant Professor
Department of Chemistry, Case Western Reserve University, Cleveland, OH

2005-2008 Research Associate with Professor Richard D. McCullough
Department of Chemistry, Carnegie Mellon University, Pittsburgh, PA

2002-2005 Postdoctoral Fellow with Professor Richard D. McCullough
Department of Chemistry, Carnegie Mellon University, Pittsburgh, PA

1999-2000 Senior Development Chemist
PPG Industries, Pittsburgh, PA

Membership in Professional Societies

American Chemical Society since 1994

Professional Honors and Awards

1. Active Learning Mentor, Spring of 2016, Information Technology Services, Case Western Reserve University.
   Awarded to mentor new Active Learning Fellows
2. Active Learning Fellowship, Class of 2014-2015, Information Technology Services, Case Western Reserve University.
   Awarded for dedication to education and to redesign a course using active learning methodologies.
3. Professional Mentor of the Year 2014, Women in Science and Engineering Roundtable (WISER), Case Western Reserve University.
4. Glennan Fellowship, UCITE, Case Western Reserve University, 07/01/2011-06/30/2012.
   Awarded to develop inquiry-based laboratories for a new course entitled "Solar Energy Conversion", and to integrate solar energy conversion undergraduate laboratory courses.
4. Mentor Fellowship, UCITE, Case Western Reserve University, 07/01/2011-06/30/2012.

   Awarded for improving graduate student mentoring.
5. Max Planck Institute of Colloids and Interfaces Fellowship, 2008.
6. Masters and Doctoral Research Scholarships, FCAR (Le Fond Québécois de la Recherche sur la Nature et les Technologies), 1994-1999
   Scholarship with full tuition awarded to best candidates in continuing graduate work in natural science, mathematics or engineering research.
6. Chemistry Award, Celanese Canada LTD, 1994.
   Awarded to outstanding students in the chemistry department (one of two).
7. Merit Award, Society of Chemical Industry, Canadian section, 1994.
   Award in recognition of outstanding academic achievement
8. Canada Scholarship, 1990-1993.
   Awarded in recognition of sustained academic excellence in science, engineering and technology. Competed nationally.
9. Entrance Scholarship, Concordia University, 1990-1993.
   Awarded to the best incoming undergraduate student in chemistry

Professional Service

Grant Reviewing: National Science Foundation (NSF); Office of Basic Energy Sciences (DOE); ACS Petroleum Research Fund; Research Grants Council (RGC) of Hong Kong.

Journal Reviewing: ACS Applied Materials; ACS Macro Letters; Advanced Materials; Advances; Chemical Science; Chemistry of Materials; Dalton Transactions; Inorganic Chemistry; Journal of Materials Chemistry; Journal of Polymer Science Part B: Polymer Physics; Journal of the Electrochemical Society; JoVE; Langmuir; Macromolecules; Materials; Nanoscale; Optical Materials; Organic

Electronics; Organic Letters; Progress in Polymer Science; Polymer Chemistry; RSC Advances; The Chemical Record; The Journal of Materials Chemistry A.; The Journal of Organic Chemistry; The Journal of Physical Chemistry Letters.

Professional Societies:

- Director, Cleveland Section of the American Chemical Society, 2012-2017.
- Participated in the Cleveland ACS Strategic Plan Retreat, Oct. 2015.

Community Service:

- Coordinator for ACS Special Awards, 2015, and Judge for ACS Special Awards, 2013-2014, North East Ohio Science and Engineering Fair (NEOSEF), Cleveland, OH.
- Judge for Meeting in Miniature (MIM), Cleveland, OH, Judge, March 2014
- Guest speaker at Lota Sigma Pi initiation meeting, Cleveland, OH, April 24, 2014. Presentation: "My Career Path"
- Professional mentor, Woman in Science and Engineering Roundtable (WISER), Case Western Reserve University, Cleveland, OH, 2010-present
- Gave a seminar to third graders as part of their "Meet the expert", Fernway Elementary School, Shaker Heights, OH, May 2013 and May 2014

Symposium Session Chairs:

12^{th} International Symposium on Functional π-Electron Systems (Fpi12), Materials, Seattle, USA, June 23rd, 2015.

11th International Symposium of Functional π-Electron Systems (Fpi11), Materials, Arcachon, France, June 4th, 2013.

Service on Institutional Committees

Member, Graduate Affairs Committee, 2015-present.
Member, Graduate Admissions Committee, Chemistry, CWRU, 2009-present.
Member, Chairman Search Committee, Mechanical & Aerospace Eng., CWRU, 2013-2014.
Member, Faculty Search Committee, Chemistry, CWRU, 2012-2013.
Member, Resource Committee, Chemistry, CWRU, 2010-2015.
Member, Energy and Materials Faculty Search Committee, Chemistry, CWRU, 2009-2010.
Member, Chemistry Executive Committee, CWRU, 2009-2010; 2012-present.
Co-founder of the Materials for Opto/electronic Research and Education (MORE) center, CWRU, a multi-user facility, 2009-2011.

Teaching Activities

Fall 2009-15	CHEM 335: Physical Chemistry 1
Spring 2010	CHEM 504: Special topics in organic chemistry – Solar Energy Conversion
Spring 2012-14	CHEM 340/440: Solar Energy Conversion
Summer 2015	Invited lecture, "Organic Photovoltaics" in Organic Electronics summer school held at CWRU and Kent U., July 27-28, 2015.

Research Support

Present:
National Science Foundation CAREER Award, Chemistry Division, "Developing n-type Low Bandgap Conjugated Macromolecules Based on Aza-dipyrromethene" June 2012 – May 2017, $600,000, Role: PI - 100%

Pending:
National Science Foundation, DMR – Electronic/photonic materials, "Conjugated polymers with high dielectric constants for organic electronic applications" July 2016-June 2019, $500,488, Role: PI. Co-PI: Lei Zhu.

Past:
American Chemical Society Petroleum Research Fund (ACS-PRF), Doctoral New Investigator, "Synthesis and Structure-Property Relationship Studies of Polymers Containing Core Substituted Naphthalene Diimides", Sept. 2012 – Aug. 2014, $100,000, Role: PI - 100%

PPG Industries Inc., Research funds, "Chemistry-Optoelectronic Thin", June 2012 - October 2013, $10,990. Role: Co-PI

DAAD (German Academic Exchange Service) Faculty Research Visit grant to Germany, 2009

Current PhD. Graduate Students

1. Fernando, Juwanmandadige Roshan (12/2009-8/2014)
2. Mao, Zhenghao (12/2009-5/2014)
3. Senevirathna, Wasana (12/2010-8/2014)
4. Daddario, Cassie (12/2010-08/2015)
5. Forrest Etheridge (12/2011-present)
6. Sandra Pejic (12/2013-present)
7. Mya Porche (12/2015-present)
8. Chunlai Wang (12/2015-present)

Current and Past Master Students

Fei Ruan (5/2012-12/2012), Jie Li (7/2012-6/2013) Ohio Department of Health Laboratory, Qi Han (5/2013-5/2014), Jia-yu Liao (6/2013-present), Jun Gu (6/2013-present), Chunlai Wang (1/2014-12/2015)

Current and Past Undergraduate Students

Cassie Daddario (8/2009-5/2010), Quinn M. Gleisner (5/2010-8/2010), Joshua Young (9/2010-6/2011), Margeret Oti (9/2010-6/2011), Xin Hao (01/2011-05/2012), Grace Eder (09/2011-5/2013), Evan Muller (1/2012-5/2013), Matthew Porter (09/2013-05/2014), Brendan Graziano (REU student, summer 2015), Carson Britt (9/2014-present)

Postdoctoral Fellows: Dr. Juwanmandadige Roshan Fernando (9/2014-6/2015), Dr. Lei Gao (7/2010-6/2012)

High School Students : Hilary Vogelbaum (summer 2014 and 2015), Alison Kennedy (Mentor, summer 2015).

Peer Reviewed Publications - Independent contributions at CWRU:

1. **Sauve, G.***, Fernando, R. “Beyond Fullerenes: Designing alternative molecular electron acceptors for solution-processable bulk heterojunction organic photovoltaics”, *J. Phys, Chem. Lett.* **2015**, 6, 3770-3780.
2. Daddario, C. M.; Han, Q.; Zeller, M.; **Sauve, G.*** “Azadipyrromethene-based near-infrared dyes: Effect of thienylethynyl substitution at the distal and proximal phenyls”, *Eur. J. Inorg. Chem.* **2015**, 22, 3649-3657.
3. Etheridge, F. S.; Fernando, R.; Golen, J. A.; Rheingold, A. L.; **Sauve, G.*** “Tuning optoelectronic properties of core-substituted naphthalene diimides by the selective conversion of imides to monothioimides”, *RSC Adv*. **2015**, 5, 46534-46539.
4. Fernando, R.; Etheridge, F.; Muller, E.; **Sauve, G.*** “Tuning the optical and electrochemical properties of core-substituted naphthalenediimides with styryl imide substituent”, *New J. Chem.* **2015**, 39, 2506-2514.
5. Senevirathna, W.; Liao, J.-Y.; Gu, J.; Porter, M.; Wang, C.; Fernando, R.; **Sauve, G.*** “Synthesis, characterization and photovoltaic properties of electron accepting azadipyrromethene-based dyes: effect of pyrrolic substituents”, *J. Mater. Chem. A.,* **2015**, 3, 4203-4214.
6. Mao, Z.; Le, T.; Vakhshouri, K.; Fernando, R.; Ruan, F.; Muller, E.; Gomez, E. D.; **Sauve, G.*** “Processing additive suppresses phase separation in the active layer of organic photovoltaics based on naphthalene diimide”, *Org. Electron*, **2014**, 15, 3384-3391.
7. Mao Z.; Senevirathna, W.; Liao, J.-Y.; Gu, J.; Vajjala Kesava, S.; Guo, C.; Gomez, E. D.; **Sauve, G**.* “Three-dimensional non-fullerene acceptors for high performance organic photovoltaics”, *Adv. Mater.*, **2014**, 26, 6290-6294.
8. Senevirathna, W.; Daddario, C. M.; **Sauve, G.** “Density functional theory study predicts low reorganization energies for azadipyrromethene-based metal complexes”, *J. Phys. Chem. Lett.*, **2014**, 5, 935-941.
9. Fernando, R.; Mao, Z.; Muller, E.; Ruan, F.; **Sauvé, G.** “Tuning the organic solar cell performance of acceptor 2,6-dialkylaminonaphthalene diimides by varying a linker between the imide nitrogen and a thiophene group”, *J. Phys. Chem. C.*, **2014**, 118, 3433-3442.
10. Senevirathna, W.; **Sauvé, G.** "Introducing 3D conjugated acceptors with intense red absorption: homoleptic metal (II) complexes of di(phenylacetylene) azadipyrromethene", *J. Mater. Chem. C*, **2013**, 1, 6684-6694.
11. Fernando, R.; Mao, Z.; **Sauvé, G.** "Rod-like oligomers incorporating 2,6-dialkylamino core-substituted naphthalene diimide as acceptors for organic photovoltaic" *Org. Electron.*, **2013**, 14, 1683-1692.
12. Mao, Z.; Vakhshouri, K.; Jaye, C.; Fischer, D. A.; Fernando, R.; DeLongchamp, D. M.; Gomez, E. D.; **Sauvé, G.** “Synthesis of perfluoroalkyl end-functionalized poly(3-hexylthiophene) and the effect of fluorinated end-groups on solar cell performance” *Macromolecules*, **2013**, 46, 103-112.
13. Gao, L.; Tang, S.; Zhu, L.; **Sauvé, G.** “Synthesis and characterization of azadipyrromethene-*alt*- *p*-phenylene ethynylene conjugated polymers and their chelates” *Macromolecules* **2012**, 45, 7404-7412.

14. Gao, L.; Senevirathna, W.; **Sauvé, G.** "Azadipyrromethene-based conjugated oligomers with near-IR absorption and high electron affinity" *Org. Lett.* **2011**, 13, 5354-5357.

Peer Reviewed Publications prior to CWRU :

15. **Sauvé**, **G.;** Javier, A. E.; Zhang, R.; Liu, J.; Sydlik, S. A.; Kowalewski,T.; McCullough, R. D. "Well-defined, high molecular weight poly(3-alkylthiophene)s in thin-film transistors: side chain invariance in field-effect mobility" *J. Mater. Chem.*, **2010**, 20, 3195-3201.

16. Osaka, I.; Zhang, R.; **Sauvé, G.**; Smilgies, D.-M.; Kowalewski, T.; McCullough, R. D. "High-lamellar ordering and amorphous-like p-network in short-chain thiazolothiazole-thiophene copolymers lead to high mobilities', *J. Am. Chem. Soc.*, **2009**, 131(7), 2521-2529.

17. Liu, J.; Zhang, R.; **Sauvé, G.**; Kowalewski, T.; McCullough, R. D. "Highly disordered polymer field effect transistors: n-alkyl dithieno[3,2-*b*:2',3'-*d*]pyrroles-based copolymers with surprisingly high charge carrier mobilities", *J. Am. Chem. Soc.*, **2008**, 130(39), 13167-13176.

18. Singh, K. A.; **Sauvé, G.**; Zhang, R.; Kowalewski, T.; McCullough, R. D.; Porter, L. M. "Dependence of field-effect mobility and contact resistance on nanostructure in regioregular poly(3-hexylthiophene) thin film transistors", *Appl. Phys. Lett.*, **2008**, 92, 263303.

19. Osaka, I.; **Sauvé, G.**; Zhang, R.; Kowalewski, T.; McCullough, R. D. "Novel thiophene-thiazolothiazole copolymers for organic field-effect transistors", *Adv. Mater.*, **2007**,19(23) 4160-4165.

20. **Sauvé, G.**; McCullough, R. D. "High Field-Effect Mobilities for diblock copolymers of poly(3-hexylthiophene) and poly(methyl acrylate)", *Adv. Mater.*, **2007**, 19(14) 1822-1825.

21. Li, B.; Santhanmam, S.; Schultz, L.; Jeffries-EL, M.; Iovu, M. C.; **Sauvé, G.**; Cooper, J.; Zhang, R.; Revelli, J. C.; Kusne, A. G.; Snyder, J. L.; Kowalewski, T.; Weiss, L. E.; McCullough, R. D.; Fedder, G. K.; Lambeth, D. N.; "Inkjet printed chemical sensor array based on polythiophene conductive polymers", *Sensors and Actuators, B: Chemical*, **2007**, B123, 651-660.

22. Li, B.; **Sauvé, G.**; Iovu, M. C.; Zhang, R.; Cooper, J.; Santhanam, S.; Schultz, L.; Revelli, J. C.; Kusne, A. G.; Kowalewski, T.; Snyder, J. L.; Weiss, L. E.; Fedder, G. K.; McCullough, R. D.; Lambeth, D. N.; "Volatile organic compound detection using nanostructured copolymers", *Nano Lett.*, **2006**, 6 (8) 1598-1602.

23. Zhang, R.; Li, B.; Iovu, M.; Jeffries-EL, M.; **Sauvé, G.**; Cooper, J.; Jia, S.; Tristram-Nagle, S.; Smilgies, D. M.; Lambeth, D. N.; McCullough, R. D.; Kowalewski, T. "Nanostructure dependence of field-effect mobility in regioregular poly(3-hexylthiophene) thin film field effect transistors", *J. Am. Chem. Soc.*, **2006**, 128(11), 3480-3481.

24. Jeffries-EL, M.; **Sauvé, G.**; McCullough, R. D. "Facile Synthesis of end-functionalized regioregular poly(3-alkylthiophene)s via modified grignard metathesis reaction", *Macromolecules*, **2005**, 38(25), 10346-10352.

25. Ewbank, P. C.; Loewe, R. S.; Zhai, L.; Reddinger, J.; **Sauvé, G.**; McCullough, R. D. "Regioregular Poly(thiophene-3-alkanoic acid)s: Water soluble conducting polymers suitable for chromatic chemosensing in solution and solid State", *Tetrahedron*, **2004**, 60(49), 11269-11275.

26. Jeffries-EL, M.; **Sauvé, G.**; McCullough, R. D. "In-situ end-group functionalization of regioregular poly(3-alkylthiophene) using the Grignard Metathesis polymerization method", *Adv. Mater.*, **2004**, 16(12), 1017-1019.
27. **Sauvé, G.**; Cass, M. E.; Coia, G.; Doig, S. J.; Lauermann, I.; Pomykal, K. E.; Lewis, N. S. "Dye sensitization of nanocrystalline titanium dioxide with osmium and ruthenium polypyridyl complexes", *J. Phys. Chem. B*, **2000**, 104, 6821-6836.
28. **Sauvé, G.**; Cass, M. E.; Doig, S. J.; Lauermann, I.; Pomykal, K. E.; Lewis, N. S. "High quantum yield sensitization of nanocrystalline titanium dioxide photoelectrodes with cis-dicyanobis(4,4'-dicarboxy-2,2'-bipyridine)osmium(ii) or tris(4,4'-dicarboxy-2,2'-bipyridine)osmium(ii) complexes", *J. Phys. Chem. B*, **2000**, 104, 3488-3491.
29. Kamat, P. V.; **Sauvé, G.**; Guldi, D. M.; Asmus, K.-D. "Radical reactions of C_{84}", *Res. Chem. Intermed.*, **1997**, 23, 575-585.
30. **Sauvé G.**; Kamat, P. V.; Thomas, K. G.; Thomas, K. J.; Das, S.; George, M. V. "Photochemistry of Squaraine Dyes: Excited triplet state and redox properties of crown ether squaraines", *J. Phys. Chem.*, **1996**, 100(6), 2117-2123.
31. Serpone, N.; **Sauvé, G.**; Koch, R.; Tahiri, H.; Pichat, P.; Piccinini, P.; Pelizzetti, E.; Hidaka, H. "Standardization protocole of process efficiencies and activation parameters in heterogeneous photocatalysis: relative photonic efficiencies ξ_r", *J. Photochem. Photobiol. A: Chem.*, **1996**, 94(2,3), 191-203.
32. **Sauvé, G**.; Kamat, P. V.; Ruoff, R. S. "Excited triplet and reduced forms of C_{84}", *J. Phys. Chem*, **1995**, 99, 2162-2165.
33. **Sauvé, G.**; Dimitrijevic, N. M.; Kamat, P. V. "Singlet and triplet excited state behaviors of c_{60} in nonreactive and reactive polymer films", *J. Phys. Chem.*, **1995**, 99, 1199-1203.
34. Serpone, N.; Terzian, R.; Lawless, D.; Kennepohl, P.; **Sauvé, G.** "On the usage of turnover numbers and quantum yields in heterogeneous photocatalysis", *J. Photochem. Photobiol., A: Chem.*, **1993**, 73(1), 11-16.

Book chapter

Ewbank, P. C.; Stefan, Mihaela C.; **Sauve, G.**; McCullough R. D., "Synthesis, characterization and properties of regioregular polythiophene-based materials, in Handbook of Thiophene-based Materials:Applications in Organic Electronics and Photonics", Wiley, **2009**, 157-203.

Presentations

Sauve, G. "Alternative molecular electron acceptors for bulk heterojunction organic solar cells" Dept. of Chemistry and Biochemistry, Notre Dame University, Notre Dame IN, Nov. 19, 2015. Invited seminar.

Sauve, G. "Alternative Electron Accepting π-conjugated Molecules for Organic Photovoltaics" *12th International Symposium on Functional π-Electron Systems*, Materials, Seattle, USA, July 19-24, 2015. Invited talk.

Sauve, G. "Alternative Electron Accepting π-conjugated Molecules for Organic Photovoltaics", *New Advances in Energy Production and Storage Symposium*, University of Montreal, June 18-19, 2015. Invited lecture.

Sauve, G. "Alternative electron accepting pi-conjugated molecules for organic photovoltaics", *98th Canadian Chemistry Conference and Exhibition*, Pi-functional Materials: From Design to Applications Symposium, Ottawa, Canada, June 13-17, 2015. Invited talk.

Sauve, G. "Homoleptic zn(II) complexes of azadipyrromethene as alternative electron acceptors for organic photovoltaic applications" *98th Canadian Chemistry Conference and Exhibition*, Inorganic and Supramolecular Chemistry in Energy and Materials Applications Symposium, Ottawa, Canada, June 13-17, 2015. Invited talk.

Kenney, M. J. and Sauve, G. "Active Learning in Chemistry at CWRU: Flipping the Chemistry Classroom.", ACS Cleveland Local Section, Cleveland, OH, February 18, 2015. Invited talk.

Sauve, G. "Azadipyrromethene-based conjugated materials with near-IR absorption as acceptors for organic solar cell", Excitonic Photovoltaic (XPV) 2014, Telluride Science Research Center, CO, August 12-15, 2014. Invited talk.

Sauve, G. "My Career Path", Lota Sigma Pi initiation meeting, Cleveland, OH, April 24, 2014; Guest speaker.

Sauve, G. "Azadipyrromethene-based conjugated materials with near-IR absorption as acceptors for organic solar cell", 247th *ACS National Meeting*, Conjugated Polymers for Optoelectronics, Electronics and Biosensors, Dallas, TX, March 16-20, 2014. Invited talk.

Sauve, G. "Towards Novel Electron Acceptors for Organic Photovoltaics", *Department of Chemistry and Biochemistry*, Kent State University, Kent OH, January 23, 2014; Invited seminar.

Sauve, G. "Towards Novel Electron Acceptors for Organic Photovoltaics", *Chemistry Department*, University of Akron, Akron, OH, December 3, 2013; Invited seminar.

Sauve, G. "Towards Novel Electron Acceptors for Organic Photovoltaics", *Chemistry Department*, Indiana University of Pennsylvania, Indiana, PA, November 8, 2013; Invited recruiting seminar.

Sauve, G. "Towards Novel Electron Acceptors for Organic Photovoltaics", *Chemistry Department*, Otterbein University, Westerville, OH, September 25, 2013; Invited recruiting seminar.

Sauve, G. "Synthesis and Characterization of Azadipyrromethene-based Conjugated Compounds and their Chelates" *11th International Symposium on Functional π-Electron Systems*, Arcachon, France, June 2-7, 2013; Submitted talk.

Sauve, G. "Towards Novel Electron Acceptors For Organic Photovoltaics", *Workshop on Advanced Materials and Devices for Energy-Related Applications*, Institut national de la recherche scientifique, Varennes, Canada, May 31st, 2013; Invited talk.

Sauve, G. "Synthesis and Characterization of Azadipyrromethene-based Conjugated Compounds and their Chelates", *96th Canadian Chemistry Conference and Exhibition*, Division of Materials Chemistry, Québec, Canada, May 26 - 30, 2013; Invited talk.

Sauve, G. "Rod-Like Oligomers Incorporating 2,6-Dialkylamino Core-Substituted Naphthalene Diimide As Acceptors For Organic Photovoltaics" *96th Canadian Chemistry Conference and Exhibition*, Division of Materials Chemistry, Québec, Canada, May 26 - 30, 2013; Submitted talk.

Sauve, G. "Got energy? How about Solar? How the quest to use solar energy influences my work", Fernway Elementary School, Shaker Heights, OH, May 22, 2013; Invited talk to all third graders at Fernway.

Sauve, G. "Conjugated Materials for Organic Photovoltaics", *School of Science*, Penn State Behrend, Erie, PA, November 1st, 2012; Invited recruiting seminar.

Sauve, G. "Electron Accepting Conjugated Materials for Organic Photovoltaics Applications", *Department of Chemistry*, John Carroll University, University Heights, OH, October 10th, 2012; Invited Talk.

Sauve, G. "Electron Accepting Low Bandgap Conjugated Polymers Based on Aza-borondipyrromethene Dyes" *244th ACS National Meeting*, Main Group Chemistry Meets Polymer and Materials Science, Philadelphia, PA, August 19-23, 2012; Invited talk.

Sauve, G. "N-Type Low Bandgap Conjugated Polymer Based on Aza-Dipyromethene Dyes" *International Conference on Science and Technology of Synthetic Metals*, Atlanta, GA, July 8-13, 2012; Invited short talk.

Sauve, G. "Functional Conjugated Polymers for Organic Photovoltaics" *Workshop on Polymers for Optics and Electronics*, Case Western Reserve University, Cleveland, May 15-16, **2012**; Invited talk.

Sauve, G.; Gao, L.; Daddario, C.; Mao, Z.; Singer, K.; Zhu, L.; Tang, S**. "**Harvesting near-IR Irradiation Using Electron-Accepting Conjugated Polymers Based on Aza-Dipyrromethene Dyes" *Materials Research Society Fall Meeting*, Boston, MA, Nov. 28-Dec 2, 2011; Submitted talk.

Sauvé, G. "Electron Accepting Low Bandgap Conjugated Polymers Based On Azadipyrromethene" *42nd ACS Central Regional Meeting*, Division of the Colloid and Surface Chemistry, Indianapolis, June 10, 2011; Invited Talk.

Sauvé, G.; Gao, L.; Senerivathna W.; "Azadipyrromethene (Azadipy) As Building Blocks For Low Bandgap Conjugated Polymers" *94th Canadian Chemistry Conference and Exhibition*, Opto-electronic Materials, June 8, 2011; Submitted talk.

Sauvé, G. "Functional Polymers For Printable Electronic Applications", *Department of Chemistry and Biochemistry*, Denison University, Granville, OH, March 24, 2011; Invited Talk.

Sauvé, G. "Functional Polymers For Printable Electronic Applications", *Department of Chemistry and Biochemistry*, Miami University, Oxford, OH, March 3, 2011; Invited Talk.

Sauvé, G. "Polymeric Materials For Printable Eletronic Applications: From Synthesis To Device Characterization", *Physics Department*, Case Western Reserve University, Cleveland, OH, October 25, 2010; Invited Talk.

Sauvé, G. "Polymeric Materials For Printable Eletronic Applications: From Synthesis To Device Characterization", *Department of Macromolecular Science and Engineering*, Case Western Reserve University, Cleveland, OH, April 23, 2010; Invited Talk.

Sauvé, G. "Polymeric Materials For Printable Eletronic Applications: From Synthesis To Device Characterization", *Department of Materials Science and Engineering*, Case Western Reserve University, Cleveland, OH, March 2, 2010; Invited Talk.

Sauvé, G.**,** "Block Copolymers Of Poly(3-Hexylthiophene): Towards Better Control Of Nanostructures", *Workshop on Quantum Solar Energy Conversion*, Rauris, Austria, March 12, 2009; Submitted talk.

Sauvé, G., "Printable Electronics: From Synthesis of Conducting Polymers to High Mobility Transistors", *Nano-Science Center*, University of Copenhagen, Denmark, October 30, 2008; Invited Talk.

Sauvé, G., "Regioregular Poly(3-Alkylthiophene)s For Use In Printable Electronic Applications: Transistors And Sensors", *ACS local polymer section*, Pittsburgh, PA, April 22, 2008; Invited Talk.

Sauvé, G., "Regioregular Poly(3-Alkylthiophene)S For Use In Printable Electronic Applications: Transistors And Sensors", *PPG Coatings Innovation Center*, Allison Park, PA, Feb. 26, 2008; Invited Talk.

Sauvé, G.; McCullough, R. D. "High Mobilities for Block Copolymers of Regioregular Poly(3-hexytlthiophene)", *Materials Research Society Spring Meeting*, San Francisco, CA, April 9-13, 2007; Submitted talk.

Sauvé, G.; McCullough, R. D. "High Mobilities for Block Copolymers of Regioregular Poly(3-hexytlthiophene)", *233rd ACS National Meeting*, Chicago, IL, March 25-29, 2007; Submitted talk.

Sauvé, G.; Zhang, R,; Li, B.; Iovu, M. C.; Craley, C.; Jeffries-EL, M.; Cooper, J.; Jia, S.; Tristram-Nagle, S.; Smilgies, D. M.; Lambeth, D. N.; Kowalewski, T. A.; McCullough, R. D. "Synthesis, mobility, and Conductivity of Well-defined Regioregular Poly(3-hexylthiophene) and Diblock Copolymers of Regioregular Poly(3-hexylthiophene)", *SPIE-Optics and Photonics, Conference 6336 (Organic Field-Effect Transistors V)*, San Diego, CA, August 13-17, 2006. Submitted Talk.

McCullough, R. D.; Sauvé, G.; Li, B.; Jeffries-EL, M.; Santhanam, S.; Schultz, L.; Zhang, R.; Iovu, M. C.; Cooper, J.; Sreedharan, P.; Revelli, J. C.; Kusner, A. G.; Kowalewski, T.; Snyder, J. L.; Weiss, L. E.; Lambeth, D. N.; Fedder, G. K. "Regioregular Polythiophene Nanowires and Sensors", *SPIE-Optics and Photonics, Conference 5940 (Organic Field-Effect Transistors IV)*, San Diego, CA, July 31-August 4, 2005; Gave Rick McCullough's invited talk.

Sauvé, G.; Cass, M.; Coia, G.; Doig, S.; Lewis, N. S. "Studies of Ru and Os Bipyridine Complexes as Sensitizers for Polycrystalline TiO_2-Based Photoelectrochemical Cells", *216th ACS national Meeting*, August 23-27, 1998. Submitted Talk.