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Syracuse, NY 13210

## EDUCATION

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- 05/1982 – 08/1983      **Master of Science**, Science Education (Grades 7-12)  
Syracuse University, School of Education • Syracuse, New York
- 08/1978 – 05/1982      **Bachelor of Science**, Chemistry and Biology (dual major)  
Syracuse University, College of Arts and Sciences • Syracuse, New York

## TEACHING CERTIFICATIONS

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- **New York State Grades 7-12:** Chemistry, Physics, Biology, General Science & Mathematics
- **Syracuse University Project Advance (SUPA):** College-level Chemistry & Forensic Science

## PROFESSIONAL EXPERIENCE

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- 08/2016 - present      **Teacher: Mathematics**  
Pine Grove Middle School • East Syracuse, New York
- 09/2015 – 07/2016      **Fellow: Albert Einstein Fellowship**  
Department of Energy, Office of Science • Washington, DC
- 07/1999 – 09/2015      **Teacher: Chemistry, Physics, Research & Forensic Science**  
East Syracuse Minoa Central High School • East Syracuse, New York
- 09/1997 – 06/1999      **Teacher: Chemistry & Anatomy and Physiology**  
Cicero – North Syracuse High School • Cicero, New York
- 08/1996 – 01/1997      **Chemistry Laboratory Manager**  
Elon College, Department of Chemistry • Elon, North Carolina
- 12/1990 – 10/1996      **Customer Service Representative**  
American Airlines / Midway Airlines • Raleigh, North Carolina
- 08/1988 – 06/1989      **Teacher: Chemistry**  
North Carolina School of Science and Mathematics • Durham, North Carolina

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|-------------------|---|
| 08/1987 – 06/1988 | <b>Teacher: Chemistry &amp; Physics</b><br>J.F. Webb High School • Oxford, North Carolina                               |
| 08/1985 – 01/1987 | <b>Synthetic Organic Chemist</b><br>University of North Carolina, Department of Pathology • Chapel Hill, North Carolina |
| 09/1983 – 06/1985 | <b>Teacher: Biology, Mathematics &amp; Physics</b><br>Westhill High School • Syracuse, New York                         |

## PROFESSIONAL PRESENTATIONS

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|---|---------------|
| <i>Connecting Chemistry to Earth Science Webinar</i> , American Association of Chemistry Teachers   | November 2016 |
| <i>Teaching the International System of Units</i> , STANYS Annual Meeting, Rochester, NY  | November 2016 |
| <i>STEM Leader's Panel</i> , NSTA STEM Forum and Expo, Denver, CO   | July 2016     |
| <i>Sticks and Stones Materials Science Workshops</i> , iSTEM, Idaho State University, Pocatello & College of Southern Idaho, Twin Falls, ID   | June 2016     |
| <i>Natural Dyeing Workshop Beyond Benign</i> , US Science & Engineering Festival, Washington, DC  | April 2016    |
| <i>Hacking your Taste Buds</i> , Mitchell, S. & Hastings, M., American Chemical Society Webinar   | November 2015 |
| <i>Teaching the Metric System for Meaning and Understanding</i> , Chem Ed, Kennesaw State University, GA  | August 2015   |
| <i>Case-based Studies on Steelcase Green Chemistry Technologies</i> , Mitchell, S. & Anderson, K., NERM 2015, Ithaca College, Ithaca, NY  | June 2015     |
| <i>Developing Inquiry Lesson Plans Using Content Reading Materials Aligned with Standards</i> , Gmurczyk, M. & Mitchell, S., <i>Writing Across the Curriculum: Concept Journals as Means to Teach the Metric System</i> , ACS, Denver, CO | March 2015    |
| <i>Dinner and Demos</i> , Abrams, N. & Mitchell, S., Auburn High School, Auburn, NY   | March 2015    |
| <i>Writing Across the Curriculum</i> , HS-College Teacher Meeting, Boulder, CO  | November 2014 |
| <i>Logarithms: A Natural Bridge between Mathematics and Science</i> , STANYS, Rochester, NY   | November 2014 |
| <i>Teaching the Metric System for Meaning and Understanding</i> , ACS, San Francisco, CA  | August 2014   |
| <i>My New Voice</i> , Biennial Conference on Chemical Education, Grand Valley State University, MI  | August 2014   |

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| <i>Cooking with Chemistry: A Great Way for the Public to Love Science, Food Chemistry is Green Chemistry; Incorporating Food Science into the Chemistry Classroom.</i> International Conference on Chemical Education, Toronto, Ontario, Canada                                  | July 2014     |
| <i>Separation Science, UV-Vis Spectroscopy, and Teaching the Metric System for Meaning and Understanding.</i> American Chemical Society STEM Expert talk for ACS Local Section Teachers, Berkeley Heights, NJ  | December 2013 |
| <i>Conversions Within The Metric System: A Meaningful Approach,</i> Mitchell, S.& Hallagan, J. 35 <sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Chicago, IL                                 | November 2013 |
| <i>Simple Visible Spectroscopy for Introductory Chemistry, Visible Spectroscopy for Advanced Placement or Second Course Chemistry Lab,</i> Mitchell, S. , Bain, G. ChemEd 2013, University of Waterloo, Ontario, Canada  | July 2013     |
| <i>Chemistry of Cooking: A Look at Solution Chemistry,</i> McGee, H., Corriher, S., Corriher, A., Chang, K., Mitchell, S., Reich, S., <i>Baking Powder and Baking Soda: An Introduction to Food Chemistry.</i> American Chemical Society (ACS) National Meeting, New Orleans, LA | March 2013    |
| <i>Teaching the Metric System for Meaning.</i> East Syracuse Minoa High School Professional Development Workshop, East Syracuse, NY  | March 2013    |
| <i>A Date with Science: Dinner and Dessert Chemistry.</i> American Chemical Society Webinar  | February 2013 |
| <i>The Sweetest Day and the Chemistry of Sweetness.</i> American Chemical Society Webinar  | October 2012  |
| <i>Unwrapping the Mysteries and Controversies of Food, Molecular Spectroscopy in the General Chemistry Classroom.</i> 22 <sup>nd</sup> Biennial Conference on Chemical Education (BCCE). Penn State University, College Station, PA  | August 2012   |
| <i>Flexible Ways of Thinking Metric in Math that Helps Students in Chemistry,</i> Mitchell, S. & Hallagan, J. , STEM – The Future is Now! Summer Institute. Syracuse University, NY  | July 2012     |
| <i>Molecular Spectroscopy for the High School Chemistry Classroom Webinar.</i> Thermo Scientific, Madison, WI  | April 2012    |
| <i>Earth Day Demonstrations,</i> Bristol-Myers Squibb, East Syracuse, NY   | April 2012    |
| <i>Hassium and the Periodic Table Project.</i> Keynote speaker for Ceremony, University of Waterloo, Canada  | April 2012    |
| <i>Molecular Spectroscopy for the High School Chemistry Classroom.</i> ACS High School Chemistry Teacher Day, San Diego, CA  | March 2012    |
| <i>Molecular Spectroscopy,</i> ACS High School Chemistry Teacher Day, Denver, CO   | August 2011   |

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| <i>UV-Vis Spectroscopy and Labs for the High School Classroom, and Teaching the Metric System for Meaning.</i> Chem Ed ' 11, Kalamazoo, MI   | July 2011     |
| <i>RxeSearch Teacher Coordinator.</i> Princeton University, Princeton, NJ  | July 2011     |
| <i>National Chemistry Week Demonstrations.</i> East Syracuse Minoa High School, East Syracuse, NY  | October 2010  |
| <i>Chair of High School Chemistry Teacher Day.</i> American Chemical Society National Meeting, Boston, MA  | August 2010   |
| <i>James Bryant Conant Symposium Speaker.</i> Biennial Conference on Chemical Education: Denton, TX  | August 2010   |
| <i>Cornell University Food Science Teacher's Workshop.</i> Ithaca, NY  | July 2010     |
| <i>The Science Behind Confectionary Chemistry.</i> Cornell Food Science Club, Cornell University, Ithaca, NY   | February 2010 |
| <i>Chef's Chemistry, Confectionary Chemistry.</i> Cornell University, Ithaca, NY   | February 2010 |
| <i>Messy Science Experiments.</i> Girl Scouts of America, Cicero, NY   | November 2009 |
| <i>National Chemistry Week Demonstrations.</i> Museum of Science and Technology, Syracuse, NY  | October 2009  |
| <i>Inertia: Resistance to Change. Why Johnny Can't Measure.</i> Museum of Science and Technology, Syracuse, NY   | October 2009  |
| <i>The Science Behind Bread-making.</i> Cornell Food Science Club, Cornell University, Ithaca, NY  | April 2009    |
| <i>Food Science and Chemistry.</i> American Chemical Society National Meeting, Salt Lake City, UT  | March 2009    |
| <i>Chef's Chemistry, Confectionary Chemistry.</i> Cornell University, Ithaca, NY   | February 2009 |
| <i>Effective Teaching,</i> State University of New York (SUNY) Morrisville pre-service teacher talk, Morrisville, NY   | November 2008 |
| <i>Environmental Science, Chem Lab Science Olympiad, How to review for Chemistry Regents: Living Metrically.</i> STANYS, Rochester, NY   | November 2008 |
| <i>National Chemistry Week Demonstrations.</i> Museum of Science and Technology, Syracuse, NY  | October 2008  |
| <i>Environmental Chemistry: Soils.</i> Science Olympiad Coaches' Workshop, Poughkeepsie, NY  | October 2008  |
| <i>Teaching Chemistry Through Food Science.</i> 20th Biennial Conference on Chemical Education, Indiana University, Bloomington, IN  | August 2008   |
| <i>Connecting Math and Chemistry: When Are We Ever Going to Use Logs?</i> Mitchell, S. & Hallagan, J., 2008 AMTNYS Summer Math Institute, Onondaga Community College, Syracuse, NY | August 2008   |

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| <i>The Science of Foods: Summer Workshop for High School Teachers.</i> Orta-Ramirez, A. & Mitchell, S., Cornell University, Ithaca, NY                                   | July 2008     |
| <i>Cornell Food Science Fall Sampler Series; A Workshop for Middle and High School Science Teachers, "Food Chemistry".</i> Ithaca, NY                                    | December 2007 |
| <i>The Use of Food Science Experiments in the High School Science Classroom.</i> Orta-Ramirez, A. & Mitchell, S. State Teacher's Association of New York, Ellenville, NY | November 2007 |
| <i>Food Science, Science Olympiad Coaches Clinic.</i> Hammond, IN  | October 2006  |
| <i>Cooking with Chemistry Workshop.</i> 19th Biennial Conference on Chemical Education, Purdue University, West Lafayette, IN  | August 2006   |
| <i>Food Chemistry: Incorporating it into the High School Chemistry Classroom.</i> Science Educators Association Annual Conference, Rochester, NY                         | November 2005 |
| <i>Food Science, Science Olympiad Coaches Clinic.</i> Hammond, IN  | October 2005  |
| <i>Incorporating Science Olympiad Chemistry Events into the High School Classroom.</i> American Chemical Society Northeast Regional Meeting Workshop, Rochester, NY      | November 2004 |
| <i>Science and our Food Supply.</i> NSTA/FDA Food Science Workshop. East Syracuse, NY  | November 2003 |
| <i>Polymer Detective Competition Help Ideas, Can't Judge a Powder Help Ideas.</i> Science Teachers of New York State Meeting, Ellenville, NY                             | November 2003 |
| <i>Connections to Chemistry.</i> Keynote Speaker for Northeast Regional American Chemical Society Meeting, Burlington, MA  | October 2003  |
| <i>Science Olympiad – Chemistry Events, Mole Day Celebration Ideas, Science and our Food Supply.</i> Chem Ed 2003, Auburn, AL  | July 2003     |
| <i>Frontiers of Science – Investigating Food Science,</i> Syracuse University, Syracuse, NY  | 1999-2015     |
| <i>Chemistry and Cooking, Incorporating Food Science into the Chemistry Curriculum.</i> Miami University, Center for Chemical Education, Middletown, OH                  | July 2002     |
| <i>The Science of Foods: Summer Workshop for High School Teachers.</i> Miller, D., Brown, J., & Mitchell, S., Cornell University, Ithaca, NY                             | August 2002   |
| <i>Spectrum of Demos.</i> National Chemistry Week 2001, Museum of Science and Technology, Syracuse, NY   | October 2001  |
| <i>Incorporating Food Science into the Chemistry Curriculum.</i> PITSCO National Conference, New Orleans, LA   | August 2000   |
| <i>Simulator, Development of the Mendeleev Periodic Table.</i> Mitchell, S., Wright, D., Cucinotta, J. ACS National Meeting, New Orleans, LA                             | August 1999   |
| <i>Chemistry and Cooking: A Look at Solution Chemistry.</i> Chem Ed '99, Sacred Heart University, Fairfield, CT  | July 1999     |
| <i>Simulator, Development of the Mendeleev Periodic Table.</i> Mitchell, S., Wright, D., Cucinotta, J. Chem Ed '99, Sacred Heart University, Fairfield, CT               | July 1999     |
| <i>A Spectrum of Old Demonstrations for the New Chemistry Teacher.</i> Mitchell, S., Cucinotta, J., Boda, V. Chem Ed '99, Sacred Heart University, Fairfield, CT         | July 1999     |
| <i>The History of Chemistry: From Alchemy to Glenn. T. Seaborg.</i> Chem Ed '99, Sacred Heart University, Fairfield, CT  | July 1999     |

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| <i>Simulator, Development of the Mendeleev Periodic Table.</i> Mitchell, S., Wright, D., Cucinotta, J.<br>NSTA National Meeting, Boston, MA                    | October 1998 |
| <i>Simulator, Development of the Mendeleev Periodic Table.</i> Science Teachers of New York State<br>Conference, Fayetteville-Manlius High School, Manlius, NY | October 1998 |
| <i>Halloween Demo Ideas.</i> Science Teachers of New York State Conference, Fayetteville-Manlius<br>High School, Manlius, NY                                   | October 1998 |
| <i>Science Olympiad Chemistry Event Help.</i> Science Teachers of New York State Conference,<br>Fayetteville-Manlius High School, Manlius, NY                  | October 1998 |
| <i>Simulator, Development of the Mendeleev Periodic Table.</i> Mitchell, S., Wright, D., Cucinotta, J.<br>Chem Ed '97, Minneapolis, MN                         | July 1997    |

## PUBLICATIONS

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- Mitchell, S.B. (2014). *Experimenting with the sweet side of chemistry: connecting students and science through food chemistry.* Journal of Chemical Education, 91(10), 1509-1510.
- Cacciatore, K., Holme, T., Spencer, J., & Mitchell, S. (2013). *AP chemistry guided-inquiry experiments: applying the science practices.* New York, NY: College Board.
- Hallagan, J.E., Rule, A. C., and Mitchell, S. B. (2011). *Reading and interpreting scientific graphs- an essential skill for the 21st Century.* Impact on Instructional Improvement, 36(1), 51-58.
- Mitchell, S. (2009). *Triple point: chemist, teacher, student.* Journal of Chemical Education, 86(9) 1013-1018.
- Mitchell, S. (2004). Review of the book *Encyclopedia of forensic science.* Journal of Chemical Education, 81(8), 1122.
- Mitchell, S. & Wright, D. (2000). *Simulator, Development of the Mendeleev periodic table.* Carolina Biological Supply Company, Burlington, NC.

## VOLUNTEER WORK

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|----------------|---|
| 2015 – 2016    | <b>American Association of Chemistry Teachers</b> , Washington, DC<br>Special Consultant - Governance   |
| 2009 – 2015    | <b>Girl Scouts of NYPenn Pathways</b> - Gold Award Committee  |
| 2010 – present | <b>American Chemical Society National Level</b> – Awards committee 2010-2013, 2015-2018,<br>Councilor – Division of Chemical Education 2015-2018, Alternate Councilor – Division of<br>Chemical Education 2012-2015, ACS Expert on STEM Education 2013-present, Program Chair<br>High School Chemistry Teacher Day, Boston 2010, Denver 2015, Boston 2015, San Diego<br>2016, Philadelphia 2016, San Francisco 2017, Washington, DC 2017. |

- 2003 - 2015 **American Chemical Society Central New York (formerly Syracuse) Section** – District Delegate (2013 – 2015), Past Chair (2012), Chair (2011), Chair-Elect (2010), Secretary (2008 – 2009), Education Committee (2003 – present), Chemists Celebrate Earth Day coordinator (2007-2015, 2016- present), Public Relations (2008-2010.)
- 2009 – 2015 **American Chemical Society ChemClub Advisor**, East Syracuse-Minoa High School
- 2008 - present **CNY Science and Engineering Fair Judge**, Museum of Science and Technology, Syracuse, NY
- 2008 - 2015 **SPCA** volunteer and recruiter for students – Syracuse, NY
- 2007 - present **Earth Day ACS CCED Coordinator**, American Chemical Society, CNY Section
- 2005 - present **Adopt-a-metric-highway Advisor**, East Syracuse Minoa High School, East Syracuse, NY
- 2003 – 2005 **Chemagination Coordinator**, American Chemical Society, Syracuse Section
- Science Olympiad** (*National Headquarters: Rochester Hills, MI*)
- 1999 - 2015 Head Coach: East Syracuse Minoa High School, East Syracuse, NY
- 2015
- Regional Event Coordinator – Chem Lab, Le Moyne College, Syracuse, NY
- 2014
- Regional Event Coordinator – Forensics, Le Moyne College, Syracuse, NY
- 2013
- Regional Event Coordinator – Crime Busters, Syracuse University, NY
- 2011
- New York State Midstate Regional Coordinator, East Syracuse, NY
- 2010
- New York State Midstate Regional Coordinator
  - State Event Supervisor – Can’t Judge a Powder, SUNY New Paltz, NY
- 2009
- New York State Midstate Regional Coordinator, East Syracuse, NY
  - State Event Supervisor High School – Environmental Chemistry, West Point, NY
  - State Event Supervisor Middle School – Environmental Chemistry, New Paltz, NY
- 2008
- New York State Midstate Regional Coordinator, East Syracuse, NY
  - State Event Supervisor High School – Food Science, West Point, NY
  - State Event Supervisor Middle School – Metric Mastery, SUNY New Paltz, NY
- 2007
- NY Midstate Regional Coordinator, Onondaga Community College, Syracuse, NY
  - State Event Supervisor High School – Food Science, West Point, NY
  - State Event Supervisor Middle School – Metric Mastery, SUNY New Paltz, NY

- 2006
  - New York State Midstate Regional Coordinator, LeMoyne College, Syracuse, NY
  - State Event Supervisor High School – Food Science, West Point, NY
  - State Event Supervisor Middle School – Food Science, St. John Fisher College, Rochester, NY
  - National Event Supervisor – Food Science, University of Indiana, Bloomington, IN
- 2005
  - National Co-Chair of the Chemistry Committee
  - New York State Midstate Regional Coordinator, LeMoyne College, Syracuse, NY
  - State Event Supervisor High School – Forensics, West Point, NY
  - State Event Supervisor Middle School – Can’t Judge a Powder, St. John Fisher College, Rochester, NY
  - National Event Supervisor – Forensics, University of Illinois, Champaign, IL
- 2004
  - New York Midstate Regional Coordinator, LeMoyne College, Syracuse, NY
  - State Event Supervisor High School – Polymer Detective, West Point, NY
  - State Event Supervisor Middle School – Can’t Judge a Powder, St. John Fisher College, Rochester, NY
  - National Event Supervisor – Polymer Detective, Juniata College, Huntingdon, PA
- 2003
  - New York Midstate Regional Coordinator, LeMoyne College, Syracuse, NY
  - State Event High School Supervisor – Polymer Detective, West Point, NY
  - State Event Supervisor Middle School – Can’t Judge a Powder, Poughkeepsie, NY
  - National Event Supervisor – Polymer Detective, The Ohio State University, Columbus, OH
- 2002
  - State Event High School Supervisor – Polymer Detective, West Point, NY
  - State Event Middle School Supervisor – Can’t Judge a Powder, Poughkeepsie, NY
- 2001
  - State Event Middle School Supervisor – Can’t Judge a Powder, Poughkeepsie, NY
- 1998 - 2000
  - State Event High School Supervisor – Can’t Judge a Powder, West Point, NY
  - Attended National Camp for Science Olympiad Coaches, Michigan Summer 2000
- 1999
  - National Event Assistant, Water Quality and Chemistry Lab, Chicago, IL
- 1997 – 2015
  - **Boy Scouts of America**, Troop 152, Fayetteville, New York
  - Merit Badge Counselor- Chemistry, Atomic Energy, Environmental Science, Safety, and Textiles (1997 – present)
  - Cub Scout Den Mother (1997 – 2003)

## RECOGNITIONS & AWARDS

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Outstanding Polymer Educator of the Year 2015-2016, POLYED and PMSE Divisions of the ACS

2014 Outreach Volunteer of the Year, Central New York Section, American Chemical Society



Master Teacher for STEM, State of New York, September 2013 - 2017

American Chemical Society “*Everyday Chemistry*” video contest, Indianapolis, IN, September 2013

“*So you think you can demo contest winner*”, ChemEd 2013, University of Waterloo, Ontario, Canada  
July 2013

“*Best High School Event*” - *American Chemical Society Chemluminary Awards*, Committee on Local Section Activities, “*Local Section Partnership Award*”, Committee on Community Activities, 2011

*TACNY (Technology Alliance of Central NY) Outstanding Teacher Award*, 2011

*Barnes and Noble Favorite Teacher Award*, 2011

*James Bryant Conant Award*, American Chemical Society, 2009

*New York State Science Olympiad Service Award*, West Point, NY, March 2008

*National Honor Society Service Award*, East Syracuse-Minoa High School, 2007

*DECA Outstanding Service Award*, East Syracuse-Minoa High School, 2005

*American Chemical Society Annual Review Profile*, 2003

*American Chemical Society Chemistry Teacher Award*, Northeast Region of the American Chemical Society, 2003

“*Mole of the Year*” 2001 Award, National Mole Day Foundation, 2001

*Golden Key National Honor Society*, Syracuse University, 2000

*Radioshack National Teacher Award: Outstanding Teacher*, 1999-2000

*Explorer’s Post Leader of the Year*, Boy Scouts of America, Chapel Hill NC, 1986

## GRANTS

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**Teacher Participant** “Scientific Exploration through Simulations (SETS), NSF Grant, Syracuse University, Summer 2012 - 2015 (Sureshkumar, Chapin, Chakraborty)

**Co-Principal Investigator**, “Chemistry Workshops for High School Teachers”, American Chemical Society, Washington, DC, 2008.

**Dissemination Coordinator**, “Students Using the National Science Digital Library”, National Science Foundation Grant, Syracuse University, June 2004 – 2006.

**Co-Principal Investigator:** “Using Chemistry to Enhance the Technical Workforce in the Innovation Age.”, National Science Foundation Grant, Center for Chemical Education, Miami University, Middletown, OH. 2002 – 2004.

**Co-Principal Investigator:** “The Science of Foods: Summer Workshop for High School Teachers”, International Food Technologists Grant, Cornell University, Ithaca, NY, August 4-9, 2002.

## WORKSHOPS & CONFERENCES ATTENDED

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| <i>Science Teachers Association of NYS Annual Conference</i> , Rochester, NY                                       | November 2016 |
| <i>Mathematics Saturdays</i> , Cornell University, Ithaca, NY  | October 2016  |
| <i>Content Coaching Workshop</i> , Master Teacher Program, NY  | October 2016  |
| <i>American Chemical Society National Meeting</i> , Philadelphia, PA   | August 2016   |
| <i>NSTA STEM Forum &amp; Expo</i> , Denver, CO   | July 2016     |
| <i>Moon Rock &amp; Meteorite Certification</i> , NASA Goddard Space Station, Greenbelt, MD                         | July 2016     |
| <i>Energy Education Summit</i> , American University, Washington, DC   | June 2016     |
| <i>US Science &amp; Engineering Festival</i> , Washington, DC  | April 2016    |
| <i>American Chemical Society National Meeting</i> , San Diego, CA  | March 2015    |
| <i>American Nuclear Society: Detecting Radiation in our Radioactive World</i> , Washington, DC                     | November 2015 |
| <i>American Chemical Society National Meeting</i> , Boston, MS   | August 2015   |
| <i>ChemEd 2015</i> , Kennesaw State University, GA   | July 2015     |
| <i>Northeast Regional Meeting</i> , American Chemical Society, Ithaca, NY  | June 2015     |
| <i>American Chemical Society National Meeting</i> , Denver, CO   | March 2015    |
| <i>33<sup>rd</sup> HS-College Teachers Conference</i> , U of Colorado, Boulder, CO                                 | November 2014 |
| <i>American Chemical Society National Meeting</i> , San Francisco, CA  | August 2014   |
| <i>23<sup>rd</sup> Biennial Conference on Chemical Education</i> , Grand Valley State University, Grand Rapids, MI | August 2014   |

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| <i>International Conference on Chemical Education, Toronto, Ontario, Canada</i>  | July 2014      |
| <i>Spectroscopic Solutions Workshop, ThermoScientific, Brampton, Ontario, Canada</i>   | May 2014       |
| <i>STANYS Spring 2014 Conference: Illuminating Physics, Cornell University, Ithaca, NY</i>   | April 2014     |
| <i>American Chemical Society National Meeting, Dallas, TX</i>  | March 2014     |
| <i>Disaster: New York, Master Teacher Program, SUNY Cortland, Cortland, NY</i>   | March 2014     |
| <i>PMENA, 35<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Chicago, IL</i>     | November 2013  |
| <i>American Chemical Society National Meeting, Indianapolis, IN</i>  | September 2013 |
| <i>ChemEd 2013, University of Waterloo, Waterloo, ON, Canada</i>   | July 2013      |
| <i>CIPT Summer 2013 Workshop, Shapes from Ripples: How the wave nature of light lets us peek into the molecular world, Cornell University, Ithaca, NY</i>          | July 2013      |
| <i>American Chemical Society Webinar, The Disappearing Spoon: Strange Tales from the Periodic Table of the Elements</i>  | June 2013      |
| <i>American Chemical Society National Meeting, New Orleans, LA</i>   | April 2013     |
| <i>Stockholm International Water Institute International Conference, Stockholm, Sweden</i>   | August 2012    |
| <i>American Chemical Society National Meeting, Philadelphia, PA</i>  | August 2012    |
| <i>22<sup>nd</sup> Biennial Conference on Chemical Education, Penn State, University Park, PA</i>  | July 2012      |
| <i>ThermoScientific Spectroscopy Solutions, Phoenix, AR</i>  | May 2012       |
| <i>American Chemical Society National Meeting, San Diego, CA</i>   | March 2012     |
| <i>American Chemical Society National Meeting, Denver, CO</i>  | August 2011    |
| <i>Chem Ed 2011, Kalamazoo, MI</i>   | July 2011      |
| <i>American Chemical Society Leadership Conference, Dallas, TX</i>   | January 2011   |
| <i>ECLLOUD Conference 2010, The Future of High Energy Physics: The Large Hadron Collider and the International Linear Collider, Cornell University, Ithaca, NY</i> | October 2010   |
| <i>ECLLOUD Conference 2010, Mysteries of the Universe: Quarks to the Cosmos Cornell University, Ithaca, NY</i>   | October 2010   |
| <i>American Chemical Society National Meeting, Boston, MA</i>  | August 2010    |
| <i>21<sup>st</sup> Biennial Conference on Chemical Education, Denton, TX</i>   | August 2010    |
| <i>Materials Science Workshop, Cornell University, Ithaca, NY</i>  | July 2010      |

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| <i>Food Science Teacher Workshop</i> , Cornell University, Ithaca, NY   | July 2010      |
| <i>ACS Chemistry in the Community Workshop</i> , Ramapo College of NJ, Mahwah, NJ   | June 2010      |
| <i>American Chemical Society National Meeting</i> , San Francisco, CA   | March 2010     |
| <i>American Chemical Society National Meeting</i> , Washington, DC  | August 2009    |
| <i>American Chemical Society National Meeting</i> , Salt Lake City, UT  | March 2009     |
| <i>STANYS Conference</i> , (Science Teachers Association of NYS) Rochester, NY  | October 2008   |
| <i>20<sup>th</sup> Biennial Conference on Chemical Education</i> , Indiana University, Bloomington, IN                            | August 2008    |
| <i>RxeSEARCH: An Educational Journey</i> , Princeton University, Princeton, NJ  | July 2008      |
| <i>AP Chemistry Workshop</i> , Wilkes University, Wilkes Barre, PA  | July 2008      |
| <i>CNS Institute for Physics Teachers</i> , “Making Waves with Music” workshop, Cornell University, Ithaca, NY                    | April 2008     |
| <i>Cornell Center for Materials Research</i> , Materials Science Workshop, Cornell University, Ithaca, NY                         | October 2007   |
| <i>Center for Nanoscale Systems (CNS) Institute for Physics Teachers</i> , Cornell University, Ithaca, NY                         | March 2007     |
| <i>19<sup>th</sup> Biennial Conference on Chemical Education</i> , Purdue University, West Lafayette, IN                          | August 2006    |
| <i>T<sup>3</sup> – Teachers Teaching with Technology</i> , International Meeting, Denver, CO                                      | February 2006  |
| <i>NYSCATE: New York State Computer and Technology</i> , Albany, NY   | November 2005  |
| <i>STANYS: Science Teachers Association of New York State</i> , Ellenville, NY  | November 2005  |
| <i>NYSMSA: New York State Middle School Association</i> , Rochester, NY   | October 2005   |
| <i>Science Educator’s Conference</i> , Rochester Museum of Science, Rochester, NY   | September 2005 |
| <i>American Chemical Society: North East Regional Meeting</i> , Burlington, MA  | October 2003   |
| <i>ChemED 2003</i> , Auburn University, Auburn, AL  | July 2003      |
| <i>Food and Drug Administration/National Science Teachers Association Science and our Food Supply Workshop</i> , Washington, D.C. | July 2002      |
| <i>PITSCO National Conference</i> , New Orleans, LA   | August 2000    |
| <i>Kids and Chemistry</i> , American Chemical Society, Oswego, NY   | October 1999   |
| <i>American Chemical Society National Meeting</i> , New Orleans, LA   | August 1999    |
| <i>Foods and Flavors</i> , Miami University, Oxford, OH   | July 1999      |
| <i>ChemEd '99</i> , Sacred Heart University, Fairfield, CT  | July 1999      |
| <i>Chemistry and Crime: Forensic Science</i> , Adirondack Community College, Saratoga Springs, NY                                 | August 1999    |
| <i>15<sup>th</sup> BCCE: Biennial Conference on Chemical Education</i> , Waterloo, Canada   | July 1998      |
| <i>History of Chemistry</i> , Woodrow Wilson Institute, College of New Rochelle, New Rochelle, NY                                 | July 1998      |
| <i>NSTA: National Science Teacher’s Association</i> , National Meeting, Boston, MA  | October 1997   |
| <i>Industrial Organic Chemistry</i> , Miami University, Oxford, OH  | August 1997    |

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| <i>Separation Science</i> , Miami University, Oxford, OH   | July 1997      |
| <i>ChemEd '97</i> , University of Minnesota, Minneapolis, MN   | July 1997      |
| <i>14<sup>th</sup> BCCE: Biennial Conference on Chemical Education</i> , Clemson, GA   | July 1996      |
| <i>ChemEd '87</i> , Kingston, Ontario, Canada  | July 1987      |
| <b><u>American Chemical Society Syracuse Local Section Talks</u></b>   |                |
| <i>Chemistry on the Silver Screen Webinar</i>  | February 2015  |
| <i>UV Curing Technology: A Route to Solvent Free Adhesives</i> , Dr. Stephen Cantor  | April 2014     |
| <i>Coral Reefs, Can they Survive in these Times of Global Climate Change?</i> , Dr. Mark Teece                               | July 2013      |
| <i>Nanoscience for Trapping Solar Energy</i> , Dr. Ari Chakraborty   | June 2013      |
| <i>Hearts, Airways and Bridges: A Story of Cell Communication</i> , Dr. Brett Zani   | November 2012  |
| <i>One Last Water Lecture</i> , Dr. Michael Sponsler   | June 2012      |
| <i>Iron Chemistry: From Food Fortificants to Metabolic Regulation</i> , Dr. Dennis Miller                                    | March 2012     |
| <i>Drug Screening of the Blood</i> , Dr. Joseph Vinson   | November 2011  |
| <i>Nanoscale Polymeric Biomaterials</i> , Dr. Patrick Mather and Dr. Rebecca Baden   | July 2011      |
| <i>Photochemistries are the Bridge</i> , Dr. Roald Hoffmann  | June 2011      |
| <i>The Periodic Table Highlights of the History of an Icon</i> , Dr. Carmen Giunta   | April 2011     |
| <i>Using Cool Toy: Incorporating Instrumentation into the General Chemistry Program</i> , Dr. Curtis Pulliam                 | November 2010  |
| <i>Forensic Science: The Chemistry Connection</i> , Dr. Samuel VanDee  | July 2010      |
| <i>A Celebration of Physical Organic Chemistry in Recognition of the Contributions of John E. Baldwin</i> , Dr. John Baldwin | April 2010     |
| <i>Archeological Puzzles and Miniature Treasures</i> , Dr. Richard Hark  | July 2009      |
| <i>Creatures and Pheromones</i> , Dr. Melissa Fierke   | June 2009      |
| <i>Smells and Flavors of Wine</i> , Dr. Gavin Sacks  | December 2008  |
| <i>Protein Folding</i> , Dr. Ehrich Blossey  | September 2008 |
| <i>Mercury in the Onondaga Lake Remedy</i> , Dr. Betsy Henry   | May 2008       |

### **Syracuse University Lecture Series**

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| <i>The Innocence Project: DNA and the Wrongly Convicted</i> , Barry Scheck | November 2015 |
| <i>Food Politics From Farm to Table</i> , Marion Nestle                    | November 2013 |
| <i>350: The Most Important Number in the World</i> , Bill McKibbin         | October 2012  |

### **TACNY Sweet Lecture Series**

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| <i>Current Threats in Bioterrorism and Recent Advances in Detecting Them</i> , Huda Suliman | March 2015    |
| <i>Technology for the Onondaga Lake Cleanup</i> , John McAuliffe                            | February 2013 |
| <i>Technology Developments in Solving Modern Crime</i> , Anita Zannin                       | February 2012 |
| <i>Alternative Energy: Biofuels, the Next Generation</i> , Chris Campbell                   | January 2012  |

### **Stevenson Biomaterials Lecture Series, Syracuse University**

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| <i>Stressing Lipid Membranes: Effects of Polymers on Membrane Structural Integrity</i> , Dr. Ka Yee C Lee   | October 2013  |
| <i>Applications of Multifunctional Polymer Networks to Medicine</i> , Dr. Andreas Lendlein                  | November 2012 |
| <i>Fluctuations and Dynamic Arrest in Cells</i> , Dr. David A. Weitz  | November 2011 |
| <i>Dendritic Polymers for Biomedical Applications: From Concept to Clinical Use</i> , Dr. Mark W. Grinstaff | February 2011 |

## **PROFESSIONAL ORGANIZATIONS**

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- American Chemical Society
- American Association of Chemistry Teachers
- American Association for the Advancement of Science
- Alpha Chi Sigma Professional Chemistry Fraternity, Pi Chapter, Syracuse, NY
- National Science Teachers Association
- National Mole Day Foundation
- Science Teachers Association of New York State
- United States Metric Association
- Alpha Gamma Delta

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*End of CV. Last updated on: December 28, 2016*