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Rye, NY 10580

## 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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- 09/2017 - present      **Teacher: Chemistry & Physics**  
Rye High School • Rye, New York
- 08/2016 -08/2017      **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	<b>Teacher: Chemistry</b> North Carolina School of Science and Mathematics • Durham, North Carolina
08/1987 – 06/1988	<b>Teacher: Chemistry &amp; Physics</b> J.F. Webb High School • Oxford, North Carolina
08/1985 – 01/1987	<b>Synthetic Organic Chemist</b> University of North Carolina, Department of Pathology • Chapel Hill, North Carolina
09/1983 – 06/1985	<b>Teacher: Biology, Mathematics &amp; Physics</b> Westhill High School • Syracuse, New York

## PROFESSIONAL PRESENTATIONS

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<i>Paper Science and the Hydrogen Bond, American Chemical Society National Meeting, Washington, DC</i>	August 2017
<i>Connecting Chemistry to Earth Science Webinar, American Association of Chemistry Teachers</i>	November 2016
<i>Teaching the International System of Units, STANYS Annual Meeting, Rochester, NY</i>	November 2016
<i>STEM Leader's Panel, NSTA STEM Forum and Expo, Denver, CO</i>	July 2016
<i>Sticks and Stones Materials Science Workshops, iSTEM, Idaho State University, Pocatello &amp; College of Southern Idaho, Twin Falls, ID</i>	June 2016
<i>Natural Dyeing Workshop Beyond Benign, US Science &amp; Engineering Festival, Washington, DC</i>	April 2016
<i>Hacking your Taste Buds, Mitchell, S. &amp; Hastings, M., American Chemical Society Webinar</i>	November 2015
<i>Teaching the Metric System for Meaning and Understanding, Chem Ed, Kennesaw State University, GA</i>	August 2015
<i>Case-based Studies on Steelcase Green Chemistry Technologies, Mitchell, S. &amp; Anderson, K., NERM 2015, Ithaca College, Ithaca, NY</i>	June 2015
<i>Developing Inquiry Lesson Plans Using Content Reading Materials Aligned with Standards, Gmurczyk, M. &amp; Mitchell, S., Writing Across the Curriculum: Concept Journals as Means to Teach the Metric System, ACS, Denver, CO</i>	March 2015
<i>Dinner and Demos, Abrams, N. &amp; Mitchell, S., Auburn High School, Auburn, NY</i>	March 2015
<i>Writing Across the Curriculum, HS-College Teacher Meeting, Boulder, CO</i>	November 2014
<i>Logarithms: A Natural Bridge between Mathematics and Science, STANYS, Rochester, NY</i>	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
<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
<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
<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
<i>Simulator, Development of the Mendeleev Periodic Table.</i> Mitchell, S., Wright, D., Cucinotta, J. NSTA National Meeting, Boston, MA	October 1998
<i>Simulator, Development of the Mendeleev Periodic Table.</i> Science Teachers of New York State Conference, Fayetteville-Manlius High School, Manlius, NY	October 1998
<i>Halloween Demo Ideas.</i> Science Teachers of New York State Conference, Fayetteville-Manlius High School, Manlius, NY	October 1998
<i>Science Olympiad Chemistry Event Help.</i> Science Teachers of New York State Conference, Fayetteville-Manlius High School, Manlius, NY	October 1998
<i>Simulator, Development of the Mendeleev Periodic Table.</i> Mitchell, S., Wright, D., Cucinotta, J. 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 – present | <b>American Association of Chemistry Teachers</b> , Washington, DC<br>Special Consultant – Governance, Area Representative  |
| 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 |

High School Chemistry Teacher Day, Boston 2010, Denver 2015, Boston 2015, San Diego 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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*Blake Family Foundation Non-Student Metric Award*, United States Metric Association, 2017

*Society of Chemical Industry Teacher Award*, 2017

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

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

*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>American Chemical Society National Meeting, Washington, DC</i>	August 2017
<i>Honeywell Educators at Space Academy, Huntsville, AL</i>	June 2017
<i>American Chemical Society National Meeting, San Francisco, CA</i>	March 2017
<i>Science Teachers Association of NYS Annual Conference, Rochester, NY</i>	November 2016
<i>Mathematics Saturdays, Cornell University, Ithaca, NY</i>	October 2016
<i>Content Coaching Workshop, Master Teacher Program, NY</i>	October 2016
<i>American Chemical Society National Meeting, Philadelphia, PA</i>	August 2016
<i>NSTA STEM Forum &amp; Expo, Denver, CO</i>	July 2016
<i>Moon Rock &amp; Meteorite Certification, NASA Goddard Space Station, Greenbelt, MD</i>	July 2016
<i>Energy Education Summit, American University, Washington, DC</i>	June 2016
<i>US Science &amp; Engineering Festival, Washington, DC</i>	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
<i>International Conference on Chemical Education</i> , Toronto, Ontario, Canada	July 2014
<i>Spectroscopic Solutions Workshop</i> , ThermoScientific, Brampton, Ontario, Canada	May 2014
<i>STANYS Spring 2014 Conference: Illuminating Physics</i> , Cornell University, Ithaca, NY	April 2014
<i>American Chemical Society National Meeting</i> , Dallas, TX	March 2014
<i>Disaster: New York</i> , Master Teacher Program, SUNY Cortland, Cortland, NY	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</i> , Chicago, IL	November 2013
<i>American Chemical Society National Meeting</i> , Indianapolis, IN	September 2013
<i>ChemEd 2013</i> , University of Waterloo, Waterloo, ON, Canada	July 2013
<i>CIPT Summer 2013 Workshop, Shapes from Ripples: How the wave nature of light lets us peek into the molecular world</i> , Cornell University, Ithaca, NY	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</i> , New Orleans, LA	April 2013
<i>Stockholm International Water Institute International Conference</i> , Stockholm, Sweden	August 2012
<i>American Chemical Society National Meeting</i> , Philadelphia, PA	August 2012
<i>22<sup>nd</sup> Biennial Conference on Chemical Education</i> , Penn State, University Park, PA	July 2012

<i>ThermoScientific Spectroscopy Solutions</i> , Phoenix, AR	May 2012
<i>American Chemical Society National Meeting</i> , San Diego, CA	March 2012
<i>American Chemical Society National Meeting</i> , Denver, CO	August 2011
<i>Chem Ed 2011</i> , Kalamazoo, MI	July 2011
<i>American Chemical Society Leadership Conference</i> , Dallas, TX	January 2011
<i>ECLLOUD Conference 2010, The Future of High Energy Physics: The Large Hadron Collider and the International Linear Collider</i> , Cornell University, Ithaca, NY	October 2010
<i>ECLLOUD Conference 2010, Mysteries of the Universe: Quarks to the Cosmos</i> Cornell University, Ithaca, NY	October 2010
<i>American Chemical Society National Meeting</i> , Boston, MA	August 2010
<i>21<sup>st</sup> Biennial Conference on Chemical Education</i> , Denton, TX	August 2010
<i>Materials Science Workshop</i> , Cornell University, Ithaca, NY	July 2010
<i>Food Science Teacher Workshop</i> , Cornell University, Ithaca, NY	July 2010
<i>ACS Chemistry in the Community Workshop</i> , Ramano College of NJ, Mahaw, 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>NYSSTATE: 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, Washington, D.C.</i>	July 2002
<i>PITSCO National Conference, New Orleans, LA</i>	August 2000
<i>Kids and Chemistry, American Chemical Society, Oswego, NY</i>	October 1999
<i>American Chemical Society National Meeting, New Orleans, LA</i>	August 1999
<i>Foods and Flavors, Miami University, Oxford, OH</i>	July 1999
<i>ChemEd '99, Sacred Heart University, Fairfield, CT</i>	July 1999
<i>Chemistry and Crime: Forensic Science, Adirondack Community College, Saratoga Springs, NY</i>	August 1999
<i>15<sup>th</sup> BCCE: Biennial Conference on Chemical Education, Waterloo, Canada</i>	July 1998
<i>History of Chemistry, Woodrow Wilson Institute, College of New Rochelle, New Rochelle, NY</i>	July 1998
<i>NSTA: National Science Teacher's Association, National Meeting, Boston, MA</i>	October 1997
<i>Industrial Organic Chemistry, Miami University, Oxford, OH</i>	August 1997
<i>Separation Science, Miami University, Oxford, OH</i>	July 1997
<i>ChemEd '97, University of Minnesota, Minneapolis, MN</i>	July 1997
<i>14<sup>th</sup> BCCE: Biennial Conference on Chemical Education, Clemson, GA</i>	July 1996
<i>ChemEd '87, Kingston, Ontario, Canada</i>	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, Dr. Stephen Cantor</i>	April 2014
<i>Coral Reefs, Can they Survive in these Times of Global Climate Change?, Dr. Mark Teece</i>	July 2013
<i>Nanoscience for Trapping Solar Energy, Dr. Ari Chakraborty</i>	June 2013
<i>Hearts, Airways and Bridges: A Story of Cell Communication, Dr. Brett Zani</i>	November 2012
<i>One Last Water Lecture, Dr. Michael Sponsler</i>	June 2012
<i>Iron Chemistry: From Food Fortificants to Metabolic Regulation, Dr. Dennis Miller</i>	March 2012
<i>Drug Screening of the Blood, Dr. Joseph Vinson</i>	November 2011
<i>Nanoscale Polymeric Biomaterials, Dr. Patrick Mather and Dr. Rebecca Baden</i>	July 2011
<i>Photochemistries are the Bridge, Dr. Roald Hoffmann</i>	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
<b><u>Syracuse University Lecture Series</u></b>	
<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
<b><u>TACNY Sweet Lecture Series</u></b>	
<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
<b><u>Stevenson Biomaterials Lecture Series, Syracuse University</u></b>	
<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: September 14, 2017*