

.] , (2), 42-46. doi: 10.1021/acs.estlett.5b00308. [
; Sobyra, T. B.; Nathanson, G. M. Gas-

Abbatt, J.

Oct 2017, Raleigh NC. ;

S.; Lee, A. K. Y.; Abbatt, J. P. D. Influence of Liquid Water Content and Surfactant Coverage on the Oxidation of Atmospheric Organic Aerosol.

, Aug 2017, Newry ME. ; Wong, J. P. S.; Lee, A. K. Y.; Abbatt, J. P. D. Influence of Aerosol Liquid Water and Surfactant Coverage on the Oxidation of Organic Aerosol.

, May 2017, Toronto ON, Canada. ; D'eon, J. C. Environmental Chemistry Beyond the Classroom: A Semester-Long Industrial Consulting Project.

, Mar 2016, San Diego CA. ; Wong, J. P. S.; Lee, A. K. Y.; Abbatt, J. P. D. The Role of Aerosol Water in Secondary Organic Aerosol Formation from Volatile Organic Compounds. Featured at Sci-Mix.

, Aug 2013, Newport RI. ; Dempsey, L. P.; Nathanson, G. M. Surfactant-Promoted Reactions at Gas-Liquid Interfaces: Startling Implications for Tropospheric Aerosol Chemistry.

, Nov 2012, Leiden, the Netherlands. ; Dempsey, L. P.; Nathanson, G. M. Interfacial Halogen Atom Exchange following Collisions of Cl₂ with Surfactant-Coated Glycerol.

, Sept 2012 Hyytiälä, Finland. ; Dempsey, L. P.; Nathanson, G. M. Interfacial Halogen Atom Exchange following Collisions of Cl₂ with Surfactant-Coated Glycerol.

College of Wooster, Chemistry Mini Seminar Series, Wooster OH, 15 Feb 2022.

Henry Luce III Fund for Distinguished Scholarship (2020-2022), High-Resolution Analysis of Organic Contaminants and Aerosol Components in Local Precipitation: Faust, J. \$11,275.

Sherman Fairchild Program (Summer 2018, Summer 2020) – competitive funding for 6 undergraduate students to conduct mentored summer research with J. Faust and P. Edmiston

Sophomore & Summer Research Program (2018-2023) – competitive funding for

Liquid Chromatography-Mass Spectrometry Data Processing and Statistics Course, West Coast Metabolomics Center, UC Davis, Jan 25-29, 2021

Physics and Chemistry of Air Pollution and Their Effects, Hyytiälä Autumn School, U. Helsinki, Finland, Oct 22 - Nov 2, 2012

Member of American Chemical Society (ACS), American Society for Mass Spectrometry (ASMS), American Geophysical Union (AGU)

Reviewer for

Ad hoc reviewer for grants from the National Oceanic and Atmospheric Administration (NOAA), National Science Foundation (NSF), American Chemical Society Petroleum Research Fund (ACS PRF)

Panel reviewer for NSF Environmental Chemical Sciences (ECS)

Co-chaired sessions at national meetings of the American Geophysical Union (AGU 2023), Society of Environmental Toxicology and Chemistry (SETAC 2018), Canadian Society of Chemistry (CSC 2017), American Association for Aerosol Research (AAAR 2017)

Chair, Department of Chemistry (2023-2025)

Global Engagement Office Advisory Committee (2021-2023)

Co-leader of STEM Faculty Learning Community (2019-2020) and Building Inclusive Classrooms Workshops (Aug 2019, Aug 2020)

Classroom Stewards Committee (Member 2018-2019; Chair 2019-2020, 2022-2023)

STEM Success Initiative Advisory Board (2018-2020)

ARCH advisor for incoming first-year students (2019-2022)

Goldwater Scholarship Campus Representative

Judged projects at science fairs (Milwaukee, WI; Toronto, ON); National Science Olympiad (USA).

Co-chaired McElvain Lecture in Physical Chemistry, 2011-2012 at UW-Madison.

Mentored physical chemistry and general chemistry students for the Center for Educational Opportunity, serving first generation and low-income college students at UW-Madison.

'24, co-advised with Dr. Rebekah Gray

'24

'24

'24

'23 (Measurement & Analysis of Pesticide Biotransformation Products in Ohio Precipitation Samples)

'23 (Heterogeneous Ozonolysis of a Novel Fungicide)

'22 (Multiphase Oxidation of Squalene and Diphenylamine in the Presence of Ozone Gas by Using ATR-FTIR Spectroscopy)

'22, co-advised with Dr. Rebekah Gray (What's in the Air: Characterization of Particulate Matter in Wooster Ohio)

'22, co-advised with Dr. Rebekah Gray (Methods of Characterization and Quantification of Pesticides in Precipitation in Wooster, Ohio)

'21, co-advised with Dr. Karl Feierabend (Self-Assembled Monolayers as a Model for Photooxidation of Plastic Waste Using ATR-FTIR and Kinetic Modeling)

'21, co-advised with Dr. Paul Edmiston (Analysis of Vitamin C Products for Potency and Associated Contaminants by HPLC-UV and GC-MS)

'20 (The Radical World of Aerosols: Heterogeneous Oxidation of Hydrocarbons by Hydroxyl Radicals Using Infrared Spectroscopy)

'20 (Multiphase Reactions of Methylglyoxal and Gas-Phase Methylamine)

'20, double major in Mathematics, co-advised with Dr. Jillian Morrison (What's in the Water? Examining Contamination by Poly- and Perfluoroalkyl Substances in Rainwater)

'20 (Kinetics and Products of Hydroxyl Radical Initiated Reactions with Long-Chain Alkanes in the Atmosphere)

'19 (Analysis of Brominated Flame Retardants (BFRs) by Chromatography in Precipitation Samples Collected in Northeast Ohio)

'19 (The Method Development and Qualitative Characterization of Organosulfates in Rainwater by LC-MS)

'19 (Degrading Diesel Fuel and WD-40: Method Development for Characterizing Oxidation of Thin Layer Alkanes)

'19 (Production and Quantification of Brown Carbon from Multiphase Reactions of Methylglyoxal with Gas-Phase Methylamine)

'19, co-advised with Dr. Paul Edmiston (Elucidating the Impact of Contaminants of Emerging Concern in Hawaii: An Interdisciplinary Study Involving Chemical Detection and Aquatic Toxicology)

'18 (Raindrops, Benchtops: Method Development for the Detection of Metolachlor in Precipitation)

'18 (Methods Development for the Characterization of Carbonyl Compounds in Rainwater and the Evaluation of Their Multiphase Reactions to Form Brown Carbon)

'17, co-advised with Dr. Jonathan P. D. Abbatt at the University of Toronto

Dr. Rebekah Gray, 2021-2023 (now at Goucher College)

A complete list of research mentees