

LIST OF ORAL AND POSTER PRESENTATIONS BY NC PFAST NETWORK RESEARCHERS

2018:

Dr. DeWitt spoke at the Cape Fear Public Utility Authority August 2018 Board Workshop about the health implications of PFAS exposure.

Duke University and NC PFAST Network Fall 2018 Symposium: “Emerging Contaminants in the Ambient Environment: Perspectives to Guide North Carolina’s PFAS Monitoring Network”, September 28, 2018, Washington Duke Inn, Durham, NC. Oral presentations:

- “PFAS in North Carolina” by Detlef R. Knappe
- “PFAS Testing: Water” by Lee Ferguson and Detlef Knappe
- “PFAS: Air and Atmospheric Deposition” by Barbara Turpin and Ralph Mead
- “PFAS Removal Performance Testing” by Mei Sun and Orlando Coronell
- “PFAS Private Well Risk Assessment” by Jackie MacDonald Gibson and David Genereux
- “New PFAS Research Opportunities” by Jamie DeWitt and Jackie Bangma

Dr. Barlaz spoke at a meeting of the NC Chapter of the Solid Waste Association of North America (NC-SWANA) on Nov. 14, 2018.

American Geophysical Union annual conference, December 10-14, 2018, Washington DC. Presentation by Lydia Koropecjy-Cox: “Field Determination of the PFAS Flux from Groundwater to Streams in a Contaminated Area of the North Carolina Coastal Plain”. Authors: L. Koropecjy-Cox, D.P. Genereux, D.R.U. Knappe.

Dr. Belcher delivered a public presentation to 50-60 attendees at the Cape Fear River Watchers First Saturday Seminar Series on December 12th. The title of his talk was: “Studies of Fish and Alligator Exposures to PFAS in North Carolina: The SAFEwater-NC Study.”

2019:

Jan. 23, 2019 Jamie DeWitt gave a short interview for an NPR affiliate in Michigan briefly describing the NC PFAS Testing Network and what is being done to learn more about PFAS emissions in the air

Jan. 28, 2019 Jason Surratt and Detlef Knappe presented an overview of PFAST Network research activities during a half-day meeting with NC legislators focused on state- funded research projects at the UNC Gillings School of Global Public Health, Chapel Hill, NC

Feb. 8, 2019 Jamie DeWitt presented preliminary results from PFAS immunotoxicity experiments to the Chemistry Department at UNC Wilmington

Feb. 14, 2019 Several PFAST Network investigators participated in a symposium in Raleigh hosted by the NC State University Center for Human Health and the Environment focused on GenX and PFAS emerging contaminants

Feb. 14, 2019 Wanda Bodnar and Abigail Joyce presented an overview of the PFAST Network and shared results from water sampling and analysis following hurricanes Florence and Michael at the 15th Annual North Carolina Water Quality Workshop co-sponsored by the North Carolina Manufacturers Alliance (NCMA) and the North Carolina Division of Water Resources (DWR), McKimmon Conference and Training Center, Raleigh, NC, Feb. 14, 2019.

UNCW Department Seminar, February 2019, Wilmington, NC. Presentation by Dr. Barbara J. Turpin, “Water-Soluble Organic Gases and Their Influence on Chemistry in Diverse Environments”.

Feb. 26, 2019 Jason Surratt and Kathleen Gray attended a public screening of the documentary “The Devil We Know” organized by Toxic Free NC at the NC Botanical Gardens in Chapel Hill. Following the film they answered general questions about the PFAST Network

Feb. 28, 2019 Wanda Bodnar and Detlef Knappe presented an overview the PFAST Network and shared results from water sampling and analysis during the NC Water Quality Association’s Drinking Water Committee meeting, Neuse River Training Facility, Raleigh, NC, Feb. 28, 2019.

Barlaz, M. A., 2019, “The presence of poly- and perfluoroalkyl substances (PFAS) in landfill leachate,” NC SWANA, Spring Conference, Wrightsville Beach, NC, March 5-7.

Mar. 10, 2019 Network researchers presented posters at the annual conference of the Society of Toxicology held in Baltimore, MD during the week of March 10th

Mar. 21, 2019 Scott Belcher spoke about PFAS sampling in striped bass and alligators in a Science Café presentation at the NC Museum of Natural Sciences

Water Resources Research Institute of UNC annual conference, March 2019, Raleigh, NC.

- Presentation by D.P. Genereux: “Quantifying coupled water and contaminant fluxes from groundwater systems to streams: field methods and examples from North Carolina.” Author: D.P. Genereux.
- Poster presented by Lydia Koropecj-Cox: “Field determination of PFAS flux from groundwater to streams in a contaminated area of the NC coastal plain.” Authors: L. Koropecj-Cox, D.P. Genereux, D.R.U. Knappe, Z. Hopkins, L. Cheng.

Clean Air Carolina annual NC BREATHE Conference, April 11, 2019, Wilmington, NC

- Poster: “Targeted and Non-Targeted Analysis of Per- and Polyfluoroalkyl substances in Rainwater” Authors: Rachael Mott*, Megumi Shimizu, Brooks Avery, Robert Kieber, Ralph Mead, and Stephen Skrabal.
- Poster: “Air Concentrations of Per- and Polyfluoroalkyl Substances (PFAS) in North Carolina” at the NC Breathe Meeting, Wilmington, NC, April 2019. Authors: Jiaqi Zhou, Jason D. Surratt, Jamie C. DeWitt, Mei Sun, Ralph Mead, Steve Skrabal, Robert J. Kieber, G. Brooks Avery, Joan D. Willey, Megumi Shimizu, Karsten Baumann, Wanda Bodnar, Zhenfa Zhang, Leonard B. Collins, Barbara J. Turpin.

American Council of Engineering Companies (ACEC) Emerging Contaminants Conference, April 23-24, 2019, Raleigh NC.

- Poster presented by Lydia Koropecykj-Cox: “Field determination of PFAS flux from groundwater to streams in a contaminated area of the NC coastal plain.” Authors: L. Koropecykj-Cox, D.P. Genereux, D.R.U. Knappe, Z. Hopkins, L. Cheng. Lydia Koropecykj-Cox took 3rd place in the best student poster competition.
- Talk given by Jamie DeWitt on “An overview of what we know about PFAS toxicology.”

North Carolina Waterworks Operators Association Lab Technology Day 2019. Talk given by Jamie DeWitt on “PFAS toxicity” on May 2, 2019.

Association of Environmental Engineering and Science Professors (AEESP) May 15, 2019, Arizona State University, Tempe, Arizona, presentation by Javad Roostaei and Jackie MacDonald Gibson: “Risks of Per- and Polyfluoroalkyl Substance in Private Well Water: A Bayesian Network Model”.

Dr. Jamie DeWitt provided expert testimony regarding PFAS health effects on May 15, 2019 to the Subcommittee on Environment and Climate Change, a Subcommittee of the US House of Representatives Committee on Energy and Commerce.

Oregon State University Environmental and Molecular Toxicology Seminar Series. Talk given by Jamie DeWitt on “Per- and polyfluoroalkyl substances are immunotoxic: What does this mean for public health protection?” May 28, 2019.

NC PFAST Network and NC Coastal Federation Public Forum: “Emerging PFAS Contaminants in the Cape Fear Region: University Collaborations on Environmental, Drinking Water and Health Effects”, May 2019, University of North Carolina Wilmington, NC.

- Presentation by Ralph Mead: “PFAS: Air and Atmospheric Deposition”
- Presentation by Jamie DeWitt: “Team #5: Other applied R&D.”
- Poster: “Air Emissions and Atmospheric Deposition of Per- and Polyfluoroalkyl Substances (PFAS) in North Carolina” Authors: Rachael K. Mott, Jiaqi Zhou, Megumi Shimizu, Jason D. Surratt, Ralph Mead, Steve Skrabal, Robert J. Kieber, G. Brooks Avery, Joan D. Willey, Jamie C. DeWitt, Mei Sun, Karsten Baumann, Wanda Bodnar, Zhenfa Zhang, Leonard B. Collins, Barbara J. Turpin.
- Poster: “Atmospheric Concentrations and Deposition of PFAS” Authors Rachael Mott*, Megumi Shimizu, Brooks Avery, Robert Kieber, Ralph Mead, and Stephen Skrabal.

2019 Per- and Polyfluoroalkyl Substances: Second National Conference, Northeastern University. Jamie DeWitt gave a talk on “Immunotoxicological findings of PFAS: Consistency of effects between rodent models and humans,” June 11, 2019.

“NC PFAST Network: Teams, Objectives and Status Updates,” presentations at the North Carolina regional PFAS information exchange meeting with NC DEQ, NC DHHS, and US EPA stakeholders, held at NC State University, Raleigh, NC, Jun. 17, 2019.

North Carolina Museum of Natural Sciences Science Café. Lee Ferguson and Jamie DeWitt gave a joint talk on PFAS in North Carolina, June 20, 2019.

45th Annual Summer Meeting of the Toxicology Forum, July 8–10, 2019, Alexandria, VA. Presentation by Dr. Jamie DeWitt: “Per- and Poly-fluoroalkyl Substances (PFAS): A Lifecycle Perspective”

Dr. Jamie DeWitt provided expert testimony regarding PFAS health effects on July 24, 2019 to the Subcommittee on Environment, a Subcommittee of the US House of Representatives Committee on Oversight and Reform.

EREF Summit on MSW Organics, July 17-18, 2019, Burlingame, CA, presentation by Morton A. Barlaz, Francis L. de los Reyes III, Wang, L. and E. Lee “Linking Anaerobic Microbial Population Dynamics to Waste Type and Decomposition Stage”

The North Carolina Section of the American Water Works Association (NC AWWA) & The North Carolina Member Association of the Water Environment Federation (NC WEA) Drinking Water Rules & Regulations Seminar, July 25 at NC State University, Raleigh, NC. Presentation by Dr. Noelle DeStefano: “NC Policy Collaboratory Statewide PFAS Study: Preliminary Findings”

Second Conference on Risk Analysis, Decision Analysis, and Security, Tuesday, 30 July 2019 to Friday, 2 August 2019, Buffalo/Niagara Falls, NY, Poster presented by Javad Roostaei: “Machine Learning and Spatial Data Analysis Applications in Modeling Risks of PFAS Substances in Private Well Water.” Authors: Javad Roostaei and Jackie MacDonald Gibson

The Coming Storm: Using Science to Build Community Resilience, A daylong workshop for journalists, policymakers and community leaders from North Carolina communities in the paths of past and future hurricanes, August 14, 2019 at Duke University, Durham, NC. Presentation by Lee Ferguson: “Water quality impacts from extreme storm events” Authors: P. Lee Ferguson, Abigail Joyce, and Gordon Getzinger.

Environmental Research and Education Foundation (EREF) PFAS Summit, August 14-15, 2019, Ypsilanti, MI. Presentation by Morton A. Barlaz and Jean-Rene Thelusmond, “PFAS in Landfill Leachate and Municipal Wastewater”

American Chemical Society National Meeting in August 27, 2019, San Diego, CA. Lecture by Frank Leibfarth in the Eco-Friendly Polymers Symposium entitled: “Ionic Fluorogels for PFAS Remediation from Water”.

National Environmental Monitoring Conference (NEMC), August 6, 2019, Jacksonville, FL. Presentation by Lee Ferguson: “Per- and Polyfluoroalkyl Substances (PFAS) in North Carolina Drinking Water Sources: Analytical Techniques and Challenges” Authors: Noelle DeStefano, Zachary Hopkins, Abigail Joyce, Lee Ferguson, Detlef Knappe

Gordon Research Conference Molecular and Cellular Mechanisms of Toxicity: Integration of Emerging Technologies in Mechanistic and Translational Toxicology, August 11 - 16, 2019 at the Proctor Academy, Andover, NH. Presentation by Rebecca Fry summarizing findings from in vitro studies investigating the effects of PFAS on trophoblast migration in placental cells.

SETAC (Society of Environmental Toxicology and Chemistry) North America Focused Topic Meeting- Environmental Risk Assessment of PFAS, August 12-15, Durham, NC.

- Presentation by Dr. Mei Sun: “Methods for assessing total exposure to per- and polyfluoroalkyl substances” Authors: Mei Sun, Detlef Knappe, Chuhui Zhang, Yuling Han, Vivek Pulikkal
- Presentation by Dr. Jamie DeWitt: “Immunotoxicological Findings of PFAS: Consistency of Effects Between Human and Rodent Models” Authors: Jamie DeWitt, Sam Vance, Tracey Woodlief, Qing Hu
- Poster: “Targeted and non-targeted analysis of per- and polyfluoroalkyl substances in North Carolina drinking water sources” Authors: Noelle DeStefano, Zachary Hopkins, Abigail Joyce, Gordon Getzinger, Yuling Han, Mei Sun, Lee Ferguson, Detlef Knappe.
- Poster: “Assessing the Effect of PFAS on Placental Epigenetic Machinery” Authors: Jackie Bangma, John Szilagyi, Cassandra Meakin, Rebecca Fry
- Poster: “Assessing the Effectiveness of Point-of-Use Residential Drinking Water Filters for Perfluoroalkyl Substances (PFAS) Authors: Nick Herkert, C. Peters, David Bollinger, Sharon Zhang, Detlef Knappe, Kate Hoffman, Lee Ferguson, Heather Stapleton
- Poster: “Occurrence and Treatment of Per- and Polyfluoroalkyl Ether Acids in North Carolina Surface Water” Authors: Zack Hopkins, Detlef Knappe
- Poster: “Rapid Small-Scale Column Tests to Predict Per- and Polyfluoroalkyl Substances (PFAS) Removal by Anion Exchange Resins” Authors: Lan Cheng, Detlef Knappe
- Poster: “Fate of Per- and Polyfluoroalkyl Ether Acids in the Total Oxidizable Precursor Assay” Authors: Chuhui Zhang, Zack Hopkins, Detlef Knappe
- Poster: “Effect of Soil Compost-Amendment on Mitigation of PFAS Uptake into Lettuce” Authors Yuanbo Li, Detlef Knappe, Steve Broome, Owen Duckworth
- Poster: “Targeted and Non-Targeted Analysis of Per- and Polyfluoroalkyl Substances in Wet Deposition Events” Authors: Rachael Mott*, Megumi Shimizu, Brooks Avery, Robert Kieber, Ralph Mead, and Stephen Skrabal
- Poster: “Screening of Novel Per- and Polyfluorinated Alkyl Substances (PFAS) in Surface Sediments of Southeastern North Carolina” Authors: Rosa Sanchez, Megumi Shimizu, G. Brooks Avery, Ralph Mead, Robert Kieber, and Stephen Skrabal
- Poster: “Biodegradation Rates of Perfluoro-2-propoxypropanoic Acid in Sediments of the Cape Fear River Estuary” Authors: Kate Tito*, M. Shimizu, G.B. Avery, R. Mead, R.J. Kieber, S. Skrabal.

2019 PFAS in Leachate Summit, August 14-15, 2019, Ypsilanti, MI. Presentation by Morton Barlaz and Jean-Rene Thelusmond: “The presence of poly- and perfluoroalkyl substances (PFAS) in landfill leachate and domestic wastewater”

Mead, R.N. Platform presentation at UNCW Planet Ocean Seminar speaker series, Sep. 10, 2019, Wilmington, NC. “Man-Made Chemicals in the Environment: Living in the

Anthropocene,” A presentation to local citizens held at UNCW Center for Marine Science on atmospheric deposition of PFAS.

Jamie DeWitt gave a seminar at Purdue University on September 10, 2019 entitled “Addressing public health concerns about PFAS: Focus on immunotoxicology” and on September 11, 2019 she was part of a Q&A panel (with two Purdue faculty) following a showing of the film “The Devil we Know.”

Triangle Machine Learning Day held September 20, 2019 at Duke University, Durham, NC. Poster presented by Javad Roostaei explaining the application of Machine Learning in Risk Analysis.

North Carolina Public Health Association 2019 Fall Educational Conference, Sep. 25-27, 2019, Greensboro, NC. Poster presented by Manal Khan: “A Multisectoral Approach to Researching Emerging Contaminants in North Carolina: The North Carolina Per and Polyfluoroalkyl Substances Testing (PFAST) Network Experience”

Endocrine Society State of the Science: PFAS Chemicals Webinar on Oct. 2, 2019. “Bioaccumulation and Adverse Impacts of PFAS: Insights from Aquatic Vertebrates Living in Contaminated Water. Presented by Scott Belcher. Link to access recorded presentation: <https://www.endocrine.org/topics/edc/what-edcs-are/common-edcs/pfas>

NC School of Science and Math’s Science Day, Durham, NC, Oct. 5, 2019
Ariana Eily presented information about the PFAST Network to students and teachers

Society of Toxicology (SOT) Annual Meeting, EPA RTP, NC, Oct. 7, 2019
Best Poster Award (3rd Place): “Ecological Impacts of Per- and Polyfluoroalkyl Substances (PFAS) in Aquatic Predators of Cape Fear River, North Carolina”, Authors: Theresa C. Guillette, Madison Polera, Matthew Guillette, Gabe Bendfeldt, Helen Nyugen, and Scott M. Belcher

BayesiaLab 2019 Conference, October 10–11, 2019, North Carolina Biotechnology Center, RTP, NC presentation by Javad Roostaei and Jackie MacDonald Gibson “Risk Analysis of PFAS Contamination in Private Water Wells: a Bayesian Network Model”

“Introduction to the NC PFAST Network,” presentation and Q&A with faculty and campus leaders participating in the UNC Tarheel Bus Tour 2019, Hotel Ballast, Wilmington, NC, Oct. 17, 2019. Panelists: Wanda Bodnar, Detlef Knappe, and Ralph Mead.

Michigan Regional Chapter of the Society of Toxicology Fall Meeting, PFAS Exposure and Toxicology in Michigan and Beyond, Ann Arbor, MI, Oct. 18, 2019. Presentation by Jamie DeWitt on PFAS mode of action

NC PFAST Network and Research Triangle Environmental Health Collaborative 2019 Summit: PFAS: Integrating Science and Solutions in North Carolina, October 23-24, 2019, RTP, NC. Oral presentations:

- “Overview of the NC PFAS Testing Network Study” by Jason D. Surratt

- “Water Sampling and Analysis” by Lee Ferguson
- “Air Emissions and Atmospheric Deposition” by Barbara J. Turpin

Working group presentations and panel discussions: Scott Belcher, Dave Genereux, Orlando Coronell, Mei Sun, Jamie DeWitt, Rebecca Fry, Kathleen Gray, Katy May, and Ariana Eily.

2nd Africa Conference on Health Effects of Endocrine Disruptors. Sustainable Approaches towards Healthy African Communities, Pretoria, South Africa. Nov. 3-7, 2019. Presentation by Scott M. Belcher, “Impacts of Per- and Polyfluoroalkyl Substances on Alligators and Fish”.

2019 AWWA Water Quality Technology Conference, Dallas, TX, Nov. 3-7, 2019

Poster: “Removing Legacy and Emerging Per- and Polyfluoroalkyl Substances by Anion Exchange Resins,” Yen-Ling Liu and Mei Sun

SETAC (Society of Environmental Toxicology and Chemistry) North America 40th Annual Meeting, Toronto, ON, Canada, November 3-7, 2019. Oral presentations:

- “Per- and Polyfluoroalkyl Substances (PFAS) in Landfill Leachate and Municipal Wastewater and Occurrence in Drinking Water Sources,” by Jean Rene Thelusmond and Morton A. Barlaz
- “Mapping the Extent of PFAS Contamination in North Carolina’s Drinking Water Sources: The NC PFAST monitoring Network” by Abigail S. Joyce*, N.J. DeStefano, G.J. Getzinger, Y. Han, M. Sun, K. Knappe, and P.L. Ferguson.
- “Ecological Impacts of PFAS in Coastal North Carolina” by Theresa C. Gillette
- Poster: “Air Concentrations of Per- and Polyfluoroalkyl Substances (PFAS) in North Carolina,” Authors: Jiaqi Zhou*, Karsten Baumann, Jason D. Surratt, Ralph Mead, Steve Skrabal, Robert J. Kieber, G. Brooks Avery, Joan D. Willey, Megumi Shimizu, Jamie C. DeWitt, Mei Sun, Wanda Bodnar, Zhenfa Zhang, Leonard B. Collins, Barbara J. Turpin
- Poster: “Analytical Challenges in Quantifying PFAS in North Carolina Drinking Water Sources,” Authors: Noelle J. DeStefano*, Zachary R. Hopkins, Abigail S. Joyce, Gordon J. Getzinger, P. Lee Ferguson and Detlef R.U. Knappe

Soil Science Society of America meeting, San Antonio, TX, Nov. 10-13, 2019. Presentation: “Effect of soil compost-amendment on mitigation of PFAS uptake into lettuce” by Yuanbo Li. Li also co-organized a symposium session titled “Emerging Contaminants in Soil, Water and Plant Systems”

2019 North Carolina Water Quality Association Meeting, Greensboro, NC, Nov. 12, 2019.

Presentation: “PFAS Contamination in North Carolina’s Drinking Water Sources: The NC PFAST monitoring Network” by Abigail S. Joyce and Noelle DeStefano

Mead, R.N. Poster presented at UNCW College Day describing PFAS research. This event was open to the residents of New Hanover County. Nov. 16, 2019, Wilmington, NC

North Carolina Coastal Conference, NC Sea Grant, Wilmington, NC, Nov. 19, 2019.

Presentation: “Impacts of Per- and Polyfluoroalkyl Substances on Alligators and Fish from Coastal North Carolina” by Scott M. Belcher

Poster: “Ecological Impacts of Per- and Polyfluoroalkyl Substances (PFAS) in Aquatic Predators of the Cape Fear River, North Carolina,” Authors: Madison Polara*, Theresa C. Guillette, Cara Kowalchuk, Matthew Guillette, Gabe Bendfeldt, Helen Nyugen, and Scott M. Belcher

Separation Science Featured Webinar sponsored by Thermo Scientific on Nov. 13, 2019: “Latest mass spectrometry-based trends for identifying and quantifying unknown PFAS compounds. Presentation by P. Lee Ferguson, Abigail S. Joyce, and Gordon Getzinger
Link to access recording: <https://www.sepscience.com/webinars-and-eseminars/>

2020:

Science Communication Monthly Lunch-and-Learn Series organized by Jory Weintraub and Arian Eily, Jan. 22, 2020, Duke University. Presentation: “Water, Water, Everywhere” Testing North Carolina’s Drinking Water and Communicating Risk” by Kathleen Gray and Lee Ferguson (<https://scienceandsociety.duke.edu/engage/events/scicomm-lunch-and-learn/>). Contributing authors: P.L. Ferguson, A. Joyce, G.J. Getzinger, D. Knappe, N.J. DeStefano, Z. Hopkins, M. Sun, and Y. Han.

NIEHS Partners in Environmental Health (PEPH) Annual meeting in Durham, NC Feb. 12-13, 2020 Research poster about PFAS risk communication (https://www.niehs.nih.gov/news/events/pastmtg/2020/peph_2020/index.cfm)

2020 American Association for the Advancement of Science Annual Meeting: Envisioning Tomorrow’s Earth, Feb. 13-16, 2020, Seattle, WA
Session: Bringing Scientific Evidence to Meet Local Policy Challenges
Jamie DeWitt was on a panel focused on community engagement and talked about being a PFAST Network member. Senator Michael Lee of New Hanover County was also on the panel and talked about his efforts to fund the PFAST Network.

Global Waste Management Symposium, Feb. 24 – 26, 2020, Indian Wells, CA. Track A: PFAS Characterization: “Per- and Polyfluoroalkyl Substances (PFAS) in Landfill Leachate and Municipal Wastewater,” by Morton A. Barlaz, Jean Rene Thelusmond, James R. Levis, and Noelle DeStefano

Barlaz, M. A., DeSilva, V. and B. Staley, “PFAS 101: Impacts on Solid Waste Management, Solid Waste Association of North America” Webinar, Apr. 29, 2020.

Wet and dry deposition results were presented by Dr. Ralph mead at the Carolinas Society of Toxicology and Chemistry (CSETAC) 29th Annual Meeting (virtual) on May 22, 2020. The title of the presentation was: “Per- and Polyfluoroalkyl Substances in Wet and Dry Deposition in North Carolina”

A virtual presentation “Effects of Compost on PFAS Uptake by Lettuce” was given by Owen Duckworth at the Goldschmidt 2020 international geochemistry meeting, June 21-26, 2020

Solid Waste Association of North America, Swanapalooza Virtual Conference, June 24, 2020.

“PFAS Research and Solid Waste Management,” by Morton A. Barlaz, V. DeSilva, and B. Staley

Climate Action NC Virtual Public Meeting. Jamie DeWitt gave a talk on “What are PFAS and why should you care about them?”, August 13, 2020.

American Chemical Society Fall 2020 Virtual Meeting & Expo. Jamie DeWitt gave a talk on “Mechanisms of toxicity for per- and polyfluoroalkyl substances: Are we there yet?”, August 19, 2020.

Air and Waste Management Association meeting on The Science of PFAS. Jamie DeWitt gave a talk on “The immunotoxicity of PFAS: Functional toxicological outcomes to support decision-making,” September 15, 2020.

Air & Waste Management Association Science of PFAS Conference, September 17, 2020. P.L. Ferguson, G.J. Getzinger, A. Joyce, and P. Faught, “Automating the analysis process for PFAS in water”.

North Carolina Society of Toxicology Regional Chapter Annual Meeting (virtual), Sep. 17, 21, 23, 2020.

Poster: “Per- and Polyfluoroalkyl Substances in Wet and Dry Deposition in North Carolina”. Authors: Megumi S. Shimizu, Rachel K. Mott, A. Potter, J. Harfmann, Gene B. Avery, Robert J. Kieber, Ralph N. Mead, Stephen Skrabal, Joan D. Willey, Jiaqi Zhou, Karsten Baumann, Barbara Turpin, Jason D. Surratt, Wanda Bodnar, Jamie DeWitt, Mei Sun, B. Swarthout, B. Darrow, and C. Shank.

Dr. Woodlief and Master’s student Emma Tobin presented “poster pitches” at the North Carolina Society of Toxicology regional chapter meeting in September 2020

PFAS Testing Network virtual seminar series, Sep. 18, 2020. Topic: “PFAS in Drinking Water Sources,” featuring Detlef Knappe and Helena Mitasova.

International Society of Exposure Science 30th Annual Virtual Meeting, Sept. 20-24, 2020, posters:

- “Per- and polyfluoroalkyl substances (PFASs) in fine particulate matter (PM_{2.0}) during floor waxing”. Authors: J. Zhou, K. Baumann, N. Chang, G. Morrison, W. Bodnar, Z. Zhang, J. M. Atkin, J. D. Surratt, and B. J. Turpin
- “Per- and Polyfluoroalkyl Substances (PFASs) in fine particulate matter (PM_{2.5}) in North Carolina”. Authors: J. Zhou, K. Baumann, R. Mead, S. Skrabal, R. J. Kieber, G.B. Avery, M Shimizu, J. C. DeWitt, M. Sun, W. Bodnar, Z. Zhang, L. B. Collins, J. D. Surratt, and B. J. Turpin.

University of Florida Gainesville. Jamie DeWitt gave a guest lecture to the VME 4906 Intro to Water Analysis course on “From inert to adverse: What we’ve learned about PFAS toxicity in the past two decades,” September 24, 2020.

American Association for Aerosol Research 38th Annual Conference, Raleigh, NC, October 5-9, 2020. Poster: “Per- and Polyfluoroalkyl Substances (PFASs) in Ambient Fine Aerosol (PM_{2.5}) in North Carolina”, Jiaqi Zhou, Karsten Baumann, Jason Surratt, Ralph Mead, Stephen Skrabal, Robert Kieber, Gene Avery, Megumi Shimizu, Wanda Bodnar, Zhenfa Zhang, Jamie DeWitt, Mei Sun, Leonard Collins, and Barbara J. Turpin.

University of Rochester NIEHS Environmental Health Sciences Center Seminar Series. Jamie DeWitt gave a talk on “Why uncovering immunotoxic outcomes of PFAS can be a health protective strategy,” October 1, 2020.

M-LEEd Virtual Mini-Symposium on Per- and Polyfluoroalkyl Substances (PFAS): Exposure, Toxicity, and Policy. Jamie DeWitt gave a talk on “PFAS: Why immune effects are relevant points of departure for these multisystem toxicants,” October 8, 2020.

PFAS Testing Network virtual seminar series, Oct. 9, 2020. Topic: “PFAS and Contamination Reduction”, featuring Morton Barlaz and Mei Sun.

West Virginia University Microbiology & Women in Biomedical Science Seminar. Jamie DeWitt gave a talk on “Immunotoxicological evaluation of understudied per- and polyfluoroalkyl substances found in North Carolina,” October 15, 2020.

NC Coastal Federation Emerging Contaminants in North Carolina Waters Virtual Seminar. Jamie DeWitt gave a talk on “Immune Investigations of some of the Understudied PFAS found in the Cape Fear River: What we’ve learned and where we go from here,” October 22, 2020.

PFAS Testing Network virtual seminar series, Oct. 23, 2020. Topic: “PFAS in Plants and Fish,” featuring Owen Duckworth and Scott Belcher.
Presentation: “GenX and PFAS uptake by food plants”, O.W. Duckworth*, Y. Li, Y. Xhu, Broome, and D. Knappe.

Geological Society of America Annual Meeting, 25-28 October 2020. Presentation: “Per- and polyfluoroalkyl substance (PFAS) transport from groundwater to streams near a PFAS manufacturing facility in North Carolina”, by M.A. Pétré*, L. Koropecj-Cox, S. Duboscq, D.P. Genereux, D.R.U. Knappe, T.E. Gilmore, and Z.R. Hopkins.

Blue Ridge Environmental Defense League’s In Our Backyard Podcast Interview #37 with Wanda Bodnar, “PFAS in Our World: How Much and What We Can Do,” Oct. 30, 2020, <https://anchor.fm/bredl>.

PFAS Testing Network virtual seminar series, Nov. 6, 2020. Topic: “How Toxic are PFAS?” featuring Jamie DeWitt and Rebecca Fry.
Presentation: “What can Science tell us about Potential Health Effects of PFAS found in NC: Why Understanding Effects of PFAS on the Immune System is Important,” Jamie DeWitt.

American Society of Agronomy (ASA), Crop Science Society of America (CSSA) & Soil Science Society of America (SSSA) International Annual Meeting, November 9-13, 2020.

Presentation: “Per- and Polyfluoroalkyl Substance Uptake by Lettuce from Contaminated Soil”, by O.W. Duckworth*, Y. Li, Y. Xhu, W.W. Broome, and D. Knappe.

Environmental Health Science, College of Public Health, University of Georgia Virtual Seminar. Jamie DeWitt gave a talk on “Let’s not forget about the T in the PBMT of PFAS: An overview of what we know about PFAS toxicity,” November 13, 2020.

Society of Environmental Toxicology and Chemistry (SETAC) North America 41st Annual Meeting (SciCon2), on-line November 15-19, 2020: Presentations:

- “Analytical and Site Assessment Tools to Understand the Fate and Transport of PFAS at Contaminated Sites” by Noelle DeStefano*, Abigail Joyce, Yuling Han, Mei Sun, Nancy Lee Alexander, Lee Ferguson and Detlef Knappe.
- Distribution and sources of PFAS compounds in raw drinking waters of North Carolina. A.S. Joyce*, N.J. DeStefano, P.W. Faught, D. Knappe, and P.L. Ferguson.
- “High-throughput suspect screening for PFAS in environmental waters by online solid phase extraction and high-resolution mass spectrometry. P.L. Ferguson* and G.J. Getzinger.
- “³H/³He groundwater ages and discharge of PFAS from groundwater to a coastal plain stream in North Carolina” by S. Duboscq*, D.P. Genereux, T.E. Gilmore, M.A. Pétré, D.K. Solomon, D.R.U. Knappe, Z.R. Hopkins and N.J. DeStefano.
- Poster: “Analytical Strategies to Close the Fluorine Mass Balance for PFAS in North Carolina Drinking Water Sources”. Authors: Abigail Joyce*, Noelle DeStefano, Detlef Knappe and Lee Ferguson.
- Poster: “Does exposure to per- and polyfluoroalkyl substances found in the Cape Fear River of North Carolina induce Immunotoxicity?” Authors: Emma Tobin*, Jeffery Ayala, Mark Ibrahim, Tracey Woodlief, and Jamie DeWitt.
- Poster: “Descriptive toxicological and immunotoxicological findings of PFAS of concern in North Carolina Waters”. Authors: Tracey Woodlief*, Qing Hu, Jeffery Ayala, Mark Ibrahim, and Jamie DeWitt.

PharTox Seminar, Michigan State University Virtual Seminar. Jamie DeWitt gave a talk on “Why uncovering immunotoxicological approaches for understudied PFAS are public health protective,” November 25, 2020.

American Geophysical Union (AGU) Fall Virtual Meeting held December 1-17, 2020.

Poster: “Atmospheric Flux of Legacy and Emerging Per- and Polyfluoroalkyl Substances (PFAS) through Wet and Dry Deposition at Wilmington North Carolina”. Authors: Megumi S. Shimizu*, Rachael Mott, Ariel Potter, Jennifer Harfmann, Brooks Avery, Robert J. Kieber, Ralph N. Mead, Stephen Andrew Skrabal, Joan D. Willey, Barbara J. Turpin, Jiaqi Zhou, and Karsten Baumann.

“Forever Chemicals.” Tell me about it Tuesdays, Sound Rivers Science Series. Virtual Talk, December 8, 2020.

Environmental Working Group Press Briefing on PFAS. Jamie DeWitt gave a talk on “PFAS Immunotoxicity,” December 16, 2020.

2021:

Barlaz, M. A., “Poly- and perfluoroalkyl substances (PFAS): Background and Ongoing Studies”, presentation to Coastal Environmental Partnership Commission Board, Feb. 2021.

Turpin, B.J. and Zhou, J. Surface Chemistry of the Indoor Environment Seminar Series, “Sources and Partitioning of Forever Chemicals: Insights from PFAS Measurements,” University of San Diego, San Diego, CA (virtual), March 2021.

Turpin, B.J. Rice University Seminar, "Water-Soluble Gases, Chemistry and Exposure: Insights from Diverse Environments," Houston, TX (virtual), March 2021.

“PFAS Exposure and COVID-19.” *The PA Multi-site Health Study Information Session*. Virtual Talk. March 25, 2021. Jamie DeWitt.

“From Pollutants to People: How Studying PFAS has given my Laboratory Research Deeper Meaning.” *NC Water Resources Research Institute Annual Conference*. Virtual Talk. March 25, 2021. Jamie DeWitt.

“An Overview of the Health Effects of PFAS.” *Toxic Free NC and Climate Action NC Educational Event*. Virtual Talk. February 16, 2021. Jamie DeWitt.

“Unregulated and Emerging Contaminants in North Carolina Waters: Focus on PPCPs and PFAS.” *Sierra Club Cypress Group*. Virtual Talk (with Dr. Sid Mitra). January 11, 2021. Jamie DeWitt.