Curriculum Vitae

LEE BLANEY

EDUCATION

Ph.D.	2011	The University of Texas at Austin, Civil Engineering
M.S.	2007	Lehigh University, Environmental Engineering
B.S.	2005	Lehigh University, Environmental Engineering

Professional Experience

2022 – present	University of Maryland Baltimore County, Full Professor (with tenure), Chemical, Biochemical, and Environmental Engineering
2019 – present	University of Maryland Baltimore County, Associate Director of Sustainability Engineering and Liaison to the University System of Maryland Vice Chancellor for Environmental Sustainability
2012 – present	University System of Maryland, Marine-Estuarine-Environmental Sciences, Faculty, Environmental Chemistry
2017 – 2022	University of Maryland Baltimore County, Associate Professor (with tenure), Chemical, Biochemical, and Environmental Engineering
2018 – 2019	Tsinghua University (Beijing, China), Visiting Professor, School of Environment
2011 – 2017	University of Maryland Baltimore County, Assistant Professor (tenure track), Chemical, Biochemical, and Environmental Engineering
2007 – 2011	University of Texas at Austin, Graduate Research Assistant, Environmental Engineering
2010	University of Texas at Austin, Instructor, Introduction to Chemistry for Engineering Students
2007	Research Centre for Eco-Environmental Sciences (Beijing, China), Visiting Research Scientist, Environmental Engineering
2006	Bengal Engineering and Science University (Howrah, India), Visiting Research Scientist, Environmental Engineering
2005 – 2007	Lehigh University, Graduate Research Assistant, Environmental Engineering
2003 – 2005	Lehigh University, Undergraduate Research Assistant, Environmental Engineering
2004	Kenai Watershed Forum (Soldotna, AK), Intern, Environmental Engineering

Honors Received

2022	40 under 40 Recognition Program, The American Academy of Environmental Engineers and Scientists
2022	University of Texas at Austin, Department of Civil, Architectural, and Environmental Engineering, Outstanding Young Alumnus Award
2022	University System of Maryland, Regents Faculty Award for Excellence in Teaching
2021	UMBC Center for Women in Technology (CWIT) Outstanding Research Partner Award

2021	UMBC College of Engineering and Information Technology Mid-Career Faculty Excellence Award
2020	James J. Morgan Early Career Award, *Environmental Science & Technology*
2020	UMBC Presidential Teaching Award
2020	George L. Braude Award, Maryland Section of the American Chemical Society
2018	American Chemical Society, Leadership Development Award
2017	Maryland Academy of Science, Maryland Outstanding Young Engineer Award
2017	NSF CAREER Award
2017	Association of Environmental Engineering and Science Professors (AEESP) Award for Outstanding Teaching in Environmental Engineering and Science
2017	Selected as Young Observer to the IUPAC General Assembly (declined)
2017	Finalist in Stage 1 of the George Barley Water Prize
2016	AEESP Distinguished Service Award
2015	Donald Creighton Memorial Faculty Award
2015	Outstanding Reviewer, Science of the Total Environment
2015	UMBC Inventor's Recognition
2007 – 2012	The University of Texas at Austin THRUST Fellowship
2006 – 2011	National Science Foundation Graduate Research Fellowship
2007 – 2008	The University of Texas at Austin University Fellowship
2007	National Science Foundation East Asia and Pacific Summer Institute Fellow
2007	US Environmental Protection Agency Phase II P3 Award
2007	National Academy of Engineering Grainger Challenge Silver Award
2006	Lehigh University Forum Research Grant
2006	The Windstar Foundation Environmental Studies Scholarship
2006	US Environmental Protection Agency Phase I P3 Award
2006	Pennsylvania Water and Environment Association Student Poster Award
2006	H&R Block Foundation Grant
2006	American Water Works Association Fresh Ideas Contest, First Place
2006	Pennsylvania American Water Works Association Fresh Ideas Contest, First Place
2005	Lehigh University Leadership Lehigh Award
2005	Lehigh University William's Prize for Writing
2005	Lehigh University President's Scholarship
2005 – 2007	Joseph Petraglia Community Spirit Award
2005	Mondialogo Engineering Award
2005	SustainUS Citizen Science Award
2004	US Environmental Protection Agency Phase I P3 Award

Research Support and/or Fellowships

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
53	2023	$750,000	SERDP Environmental Remediation Statement of Need *Novel functionalization of conventional sorbents for enhanced selectivity and improved concentration of ultrashort- and short-chain PFAS* PI: Lee Blaney; co-PI: Ke He (UMBC), Wenqing Xu (Villanova University), Jessica Ray (University of Washington) Start: recommended End:	PI
52	2023	$106,400	USGS Chesapeake Ecosystem Study Unit *Chemical analysis of per- and polyfluoroalkyl substances (PFAS) in experimental and environmental samples* (addition to #46) PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 06/01/2023 End: 07/31/2026	PI
51	2022	$250,000	SERDP Environmental Remediation Statement of Need *Tailored carbonaceous materials as biofilter amendments for per- and polyfluoroalkyl substances (PFAS) removal in stormwater runoff* PI: Wenqing Xu (Villanova University); co-PI: Lee Blaney (UMBC), Bridget Wadzuk (Villanova University) Start: processing End: processing	co-PI
50	2022	$80,000	USGS Chesapeake Ecosystem Study Unit *Chemical analysis of per- and polyfluoroalkyl substances (PFAS) in groundwater samples* PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 06/01/2022 End: 05/31/2023	PI
49	2022	$738,422	SERDP Environmental Remediation Statement of Need *Ion-exchange membranes as passive samplers for diverse PFAS* PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 05/01/2023 End: 04/30/2026	PI
48	2021	$788,625	NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) *Implementing and Examining the Impact of an Enhanced Transfer Scholars Program for Inclusive Computing and Engineering Education* PI: Carolyn Seaman (UMBC); co-PI: Lee Blaney (UMBC); E.F. Charles LaBerge (UMBC); Marc Olano (UMBC); L.D. Timmie Topoleski (UMBC) Start: 02/01/2022 End: 01/31/2027	co-PI
47	2021	$389,826	NSF Research Experience for Undergraduates (REU) *REU Site: Biochemical, Environmental, and MOlecular Research in Engineering (BEMORE)* PI: Lee Blaney; co-PI: Mark Marten (UMBC) Start: 09/01/2021 End: 08/31/2024	PI

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
46	2021	$188,250	USGS Chesapeake Ecosystem Study Unit *Chemical analysis of per- and polyfluoroalkyl substances (PFAS) in experimental and environmental samples* PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 08/01/2021 End: 07/31/2026	PI
45	2021	$500,000	NSF ERASE-PFAS and Environmental Engineering *ERASE-PFAS: A "concentrate-and-destroy" technology for treating per- and polyfluoroalkyl substances using a new class of adsorptive photocatalysts* Lead PI: Dongye Zhao (Auburn University); Secondary PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 07/15/2021 End: 07/14/2024	co-PI
44	2021	$750,000	SERDP Environmental Remediation Statement of Need *A 'trap-and-zap' technology for cost-effective removal and destruction of aqueous-phase per- and polyfluoroalkyl substances at DoD sites* Lead PI: Dongye Zhao (Auburn University); Secondary PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 09/01/2021 End: 08/31/2025	co-PI
43	2021	$25,000	UMBC, Technology Catalyst Fund *Hollow-fiber ion-exchange membrane process for high-rate nutrient recovery* PI: Lee Blaney Start: 02/01/2021 End: 01/31/2022	PI
42	2021	$500,000	USDA, Agriculture and Food Research Initiative *Assessing the Suitability of Recycled Wastewater with Variable Stormwater Influence for Use in Crop Irrigation* PI: Sara Nason (Connecticut Agricultural Experiment Station); co-PIs: Lee Blaney, Nubia Zuverza-Mena (Connecticut Agricultural Experiment Station) Start: 04/01/2021 End: 03/21/2025	co-PI
41	2020	$16,000	USGS, Cooperative Ecosystem Studies Units *PFAS analysis of sediment samples* PI: Lee Blaney Start: 10/01/2020 End: 01/31/2021	PI
40	2020	$500,000	USDA, Agriculture and Food Research Initiative *Simultaneous recovery of nutrients from hog manure and treatment of brackish groundwater for irrigation purposes through sustainable Donnan dialysis processes* PI: Lee Blaney Start: 07/15/2020 End: 07/14/2024	PI

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
39	2019	$2,999,864	NSF, National Science Foundation Research Traineeship *NRT: Interdisciplinary Consortium for Applied Research in Ecology and Evolution (ICARE): Broadening Participation Across the Environmental Sciences in Baltimore Harbor* PI: Tamra Mendelson (UMBC); co-PIs: Lee Blaney, Christopher Swan (UMBC), Kevin Omland (UMBC), Margaret Holland (UMBC) Start: 09/01/2019 End: 08/31/2024	co-PI
38	2019	$200,000	SERDP Environmental Remediation Statement of Need *Ion exchange membranes and fibers as passive samplers for chemically-diverse PFAS* PI: Lee Blaney; co-PI: Ke He (UMBC) Start: 05/22/2020 End: 05/26/2022	PI
37	2019	$12,000	NSF, Environmental Engineering program *CAREER: Forensic analysis of dissolved organic matter, emerging contaminants, and toxicity to detect leaking sewers in urban streams (REU supplement)* PI: Lee Blaney Start: 05/01/2019 End: 08/31/2019	PI
36	2019	$12,000	NSF, Environmental Engineering program *Class-specific transformations of antibiotics in UV-based water/wastewater treatment processes (REU supplement)* PI: Lee Blaney Start: 05/01/2019 End: 08/31/2019	PI
35	2019	$16,000	NSF, Environmental Sustainability program *GOALI: Sustainable phosphorus recovery from agricultural waste (REU supplement)* PI: Lee Blaney Start: 04/01/2019 End: 06/31/2019	PI
34	2019	$92,348	US Army Corps of Engineers, US Geological Survey, Cooperative Ecosystem Studies Units *Evaluation of PFAS fate and transport processes related to remedy effectiveness assessment* PI: Brian Shedd (US Army Corps of Engineers); co-PIs: Lee Blaney, Ethan Weikel (USGS) Start: 02/01/2019 End: 09/30/2019	co-PI
33	2019	$60,000	UMBC College of Engineering and Information Technology *Research Associate position for Dr. Ke He* PI: Lee Blaney Start: 02/01/2019 End: 01/31/2020	PI

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
32	2018	$70,000	Maryland Sea Grant, Competitive Graduate Research Fellowship program *Development and validation of novel, fluorescence-based tools to screen for and identify urban and agricultural sources of contaminants of emerging concern in the Chesapeake Bay* PI: Lee Blaney; Fellow: Ethan Hain Start: 09/01/2018 End: 08/31/2020	PI
31	2018	$15,000	US Environmental Protection Agency (EPA) P3 program *Using Nutrient Extraction and Recovery Devices (NERDs) to generate a sustainable supply of phosphorus- and nitrogen-laden fertilizer from urine* PI: Lee Blaney Start: 01/01/2018 End: 12/31/2018	PI
30	2017	$150,000	Air Force, Small Business Technology Transfer (STTR) program *Disposal of aqueous film-forming foam using hydrodynamic cavitation* PI: Greg Lorraine (Dynaflow, Inc.); co-PI: Lee Blaney Start: 10/21/2017 End: 07/21/2018	co-PI
29	2017	$10,000	Maryland Sea Grant, Program Development Fund *Assessment of contaminants of emerging concern in Chesapeake Bay water, sediment, and oysters* PI: Lee Blaney Start: 10/01/2017 End: 09/30/2018	PI
28	2017	$171,189	Personal Care Products Council (solicited) *Determining Concentrations of Oxybenzone (BP-3) in Coastal Waters, Sediment and Coral Tissue in Hawaii* PI: Carys Mitchelmore (University of Maryland Center for Environmental Science); co-PIs: Lee Blaney, Andrew Heyes (University of Maryland Center for Environmental Science), Michael Gonsior (University of Maryland Center for Environmental Science) Start: 08/01/2017 End: 12/31/2017	co-PI
27	2017	$8,000	NSF, Environmental Sustainability program *GOALI: Sustainable phosphorus recovery from agricultural waste (REU supplement)* PI: Lee Blaney Start: 05/16/2017 End: 06/30/2018	PI
26	2017	$311,347	NSF, INFEWS N/P/H2O and Environmental Engineering programs *INFEWS N/P/H2O: Development of sustainable Nutrient Extraction and Recovery Devices (NERDs) for municipal and agricultural wastewater* PI: Lee Blaney Start: 07/01/2017 End: 06/30/2020	PI

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
25	2017	$500,000	NSF, CAREER Award *CAREER: Forensic analysis of dissolved organic matter, emerging contaminants, and toxicity to detect leaking sewers in urban streams* PI: Lee Blaney Start: 06/01/2017 End: 05/31/2022	PI
24	2016	$1,117,096	NSF, Improving Undergraduate STEM Education program *Developing, implementing and evaluating a post-transfer pathways program for computing and engineering majors* PI: Danyelle Ireland (UMBC); co-PIs: Lee Blaney, Carolyn Seaman (UMBC), Marc Olano (UMBC), Maria Sanchez (UMBC) Start: 09/01/2016 End: 08/31/2020	co-PI
23	2016	$3,000	European Union, Erasmus Mobile+ program *Developing an educational and research partnership between UMBC and Faculdade de Engenharia da Universidade do Porto* PI: Lee Blaney Start: 09/30/2016 End: 10/09/2016	PI
22	2016	$100,000	Maryland Industrial Partnerships with Maryland Department of Natural Resources, Manure-to-Energy program (declined) *Modified Phosphorus Extraction and Recovery System (PEARS) technology for rapid implementation on Maryland poultry farms* PI: Lee Blaney Start: 09/01/2016 End: 08/31/2018	PI
21	2016	$599,977	NSF, Scholarships in Science, Technology, Engineering, and Mathematics program (added as co-PI in 2016) *A community of Transfer Scholars in Information Technology and Engineering (T-SITE)* PI: Penny Rheingans (UMBC); co-PIs: Lee Blaney, Carolyn Seaman (UMBC), Marie desJardins (UMBC), Anne Spence (UMBC) Start: 03/01/2012 End: 02/28/2018	co-PI
20	2016	$300,000	US-Israel Binational Agricultural Research and Development Fund *Closing the nutrient cycle through sustainable agricultural waste management* Lead PI: Sukalyan Sengupta (University of Massachusetts Dartmouth); Secondary PIs: Lee Blaney, Beni Lew (Institute of Agricultural Engineering, ARO Volcani Center, Israel) Start: 09/01/2016 End: 08/31/2018	co-PI
19	2016	$40,000	UMBC, COEIT Strategic Plan Implementation Grant Program *Preliminary study of contaminants of emerging concern in Chesapeake Bay water, sediment, and oysters* PI: Lee Blaney Start: 01/01/2016 End: 05/31/2017	PI
18	2016	$20,000	UMBC, Technology Catalyst Fund *Nutrient Extraction and Recovery Devices (NERDs)* PI: Lee Blaney Start: 01/01/2016 End: 12/31/2017	PI

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
17	2015	$406,318	NSF, Environmental Chemical Sciences program *Photolysis of environmentally-relevant organometallic compounds in aqueous matrices* Lead PI: Lee Blaney; Secondary PI: Katherine Squibb (University of Maryland Baltimore) Start: 09/01/2015 End: 08/31/2018	PI
16	2015	$13,512	USDA Forest Service Modification (extension) *Bioaccumulation of pharmaceutical and personal care products in crayfish of the Gwynns Falls watershed, Baltimore, Maryland* PI: Claire Welty (UMBC); co-PI: Lee Blaney Start: 07/01/2014 End: 06/30/2019	co-PI
15	2015	$330,000	NSF, Environmental Engineering program *Class-specific transformations of antibiotics in UV-based water/wastewater treatment processes* PI: Lee Blaney Start: 09/01/2015 End: 08/31/2018	PI
14	2015	$351,594	NSF Environmental Sustainability Program *GOALI: Sustainable phosphorus recovery from agricultural waste* Lead PI: Lee Blaney; Secondary PI: Sukalyan Sengupta (University of Massachusetts Dartmouth) Start: 07/01/2015 End: 06/30/2018	PI
13	2015	$48,060	NSF, Environmental Engineering program *Workshop: Natural organic matter and its impact on drinking water* PI: Michael Gonsior (University of Maryland Center for Environmental Sciences); Participants: Lee Blaney, Alex Chow (Clemson University), Julie Korak (University of Colorado, Boulder), Amisha Shah (Purdue University), Haizhou Liu (University of California, Riverside) Start: 02/15/2015 End: 01/31/2016	Participant
12	2014	$2,826	Triea Technologies, LLC *Phosphorus recovery from swine manure* PI: Lee Blaney Start: 12/01/2014 End: 12/31/2014	PI
11	2014	$1,500	UMBC, Undergraduate Research Assistantship Support Program *Phosphorus recovery from poultry litter* PI: Lee Blaney Start: 09/15/2014 End: 05/31/2015	PI
10	2014	$1,500	Cary Institute (service agreement) *Water quality analysis for Lake Sunapee samples* PI: Lee Blaney Start: 08/22/2014 End: 08/21/2015	PI

#	YEAR	TOTAL *	FUNDING AGENCY AND PROJECT TITLE	ROLE
9	2014	$43,000	USDA Forest Service Modification *Bioaccumulation of pharmaceutical and personal care products in crayfish of the Gwynns Falls watershed, Baltimore, Maryland* PI: Claire Welty (UMBC); co-PI: Lee Blaney Start: 07/01/2014 End: 06/30/2019	co-PI
8	2014	$250,000	Maryland Industrial Partnerships with Maryland Department of Natural Resources, Manure-to-Energy Program *Development of a Phosphorus Extraction and Recovery System (PEARS)* PI: Lee Blaney Start: 09/01/2014 End: 12/31/2016	PI
7	2013	$1,500	UMBC, Undergraduate Research Assistantship Support Program *Adsorption of moxifloxacin onto activated carbon* PI: Lee Blaney Start: 09/15/2013 End: 05/31/2014	PI
6	2013	$2,300	UMBC, BreakingGround Initiative *Engineers Without Borders as a tool for motivating students and increasing civic engagement at home and abroad* PI: Lee Blaney Start: 09/01/2013 End: 05/31/2014	PI
5	2013	$20,000	UMBC, Special Research Assistantship/ Initiative Support Program *Adsorption and degradation of fluoroquinolone antibiotics in bioreactors* PI: Lee Blaney Start: 06/01/2013 End: 05/31/2014	PI
4	2012	$1,500	UMBC, Undergraduate Research Assistantship Support Program *Development of an HPLC method for detection of fluoroquinolones and UV-H_2O_2 treatment* PI: Lee Blaney Start: 09/15/2012 End: 05/31/2013	PI
3	2012	$12,000	Waters Academic Grant program *Sampling of fluoroquinolone antibiotics in wastewater and identification of transformation products* PI: Lee Blaney Start: 11/01/2012 End: 05/31/2013	PI
2	2012	$6,000	UMBC, Summer Faculty Fellowship *Environmental detection and water treatment of fluoroquinolones* PI: Lee Blaney Start: 06/01/2012 End: 08/31/2012	PI
1	2012	$750	UMBC, Undergraduate Research Assistantship Support program *Treatment of tetracycline antibiotics by UV_{254nm}* PI: Lee Blaney Start: 01/01/2012 End: 05/31/2012	PI
	TOTAL	**$13,132,704**	*grant totals are reported for the full collaborative project in most cases	

Student Awards

2023 Sahar Souizi, Certificate of Merit, ACS Division of Environmental Chemistry
2023 Honour Booth, NOAA CESSRST-II fellowship
2023 Margaret Siao, ACS Division of Environmental Chemistry, Undergraduate Award
2023 Marriah Ellington, 2nd place post presentation, Hudson-Delaware and Chesapeake-Potomac Joint SETAC Joint Spring Meeting
2023 Jahir Antonio Batista Andrade, Graduate Student Award in Environmental Chemistry, ACS Division of Environmental Chemistry
2023 Anna McClain, ACS-Maryland Travel Award
2023 Marriah Ellington, ACS Bridge Travel and Professional Development Award
2023 Kaylyn Stewart, ACS Bridge Travel and Professional Development Award
2023 Michael Fleming, ACS Bridge Travel and Professional Development Award
2022 Michael Fleming, Southern Regional Education Board Dissertation Fellowship
2022 Michael Fleming, ACS Bridge Travel and Professional Development Award
2022 Michael Fleming, Travel Grant to the GEM National Conference
2022 Michael Rose, ACS-Maryland Travel Award
2022 Jahir Antonio Batista Andrade, ACS-Maryland Travel Award
2021 Fabian Amurrio, 2021 CBEE Undergraduate Research Award
2021 Michael Fleming, Excite the Dream, Old Dominion University Future Faculty Program
2021 Michael Fleming, 2021 Student Travel Grant for GEM National Conference
2021 Michael Fleming, 2021 Arcadis Scholarship, American Water Works Association
2021 Utsav Shashvatt, 1st place, American Water Works Association Fresh Ideas Contest
2021 Jahir Antonio Batista Andrade, 1st place UMBC Three Minute Thesis Competition, Graduate Research Conference
2021 Bridget Anger, American Chemical Society Environmental Chemistry Division, Undergraduate Award
2020 Jahir Antonio Batista Andrade, Certificate of Merit, ACS Division of Environmental Chemistry
2021 Michael Fleming, ACS Bridge Career & Professional Development Award
2020 Utsav Shashvatt, 1st place, Chesapeake Section of the American Water Works Association student poster competition
2020 Anna Feerick, Outstanding Graduating Senior in Chemistry
2020 Fabian Amurrio, Undergraduate Junior award in Chemistry at ABRCMS 2020
2020 Anna Feerick, American Chemical Society Environmental Chemistry Division, Undergraduate Award
2020 Michael Fleming, GEM University Fellowship
2020 Ouriel Ndalamba, UMBC Undergraduate Research Award
2020 Jahir Antonio Batista Andrade, ACS-Maryland Travel Award
2019 Michael Fleming, 1st place Mid-Atlantic Prep & IMSD Research Symposium student poster competition
2019 Utsav Shashvatt, 1st place UMBC Three Minute Thesis Competition, Graduate Research Conference
2019 Ethan Hain, SETAC Travel Award

2019 Michael Fleming, Meyerhoff Graduate Program Fellowship
2019 Utsav Shashvatt, 1st place Chesapeake Section of the American Water Works Association student poster competition
2019 Charles Portner, 3rd place Chesapeake Section of the American Water Works Association student poster competition
2019 Utsav Shashvatt, International Conference on Resource Sustainability Travel Award
2019 Temitope Ibitoye, NSF Graduate Research Fellowship, Honorable Mention
2019 Charles Portner, ACS-Maryland Travel Award
2019 Utsav Shashvatt, ACS-Maryland Travel Award
2019 Ouriel Ndalamba, Center for Women in Technology Scholarship
2019 Chelsea Mikal, Center for Women in Technology Scholarship
2019 Aiswarya Boby, Center for Women in Technology Scholarship
2018 Ethan Hain, Maryland Sea Grant Fellowship
2018 Temitope Ibitoye, 3rd place Chesapeake Section of the American Water Works Association student poster competition
2018 Ethan Hain, 1st place Chesapeake Section of the American Water Works Association student poster competition
2018 Ethan Hain, ACS-Maryland Travel Award
2018 Mamatha Hopanna, ACS-Maryland Travel Award
2018 Anna Feerick, UMBC Undergraduate Research Award
2018 Chelsea Mikal, Maryland Women of Tomorrow Award
2017 Daniel Ocasio, UMBC Valedictorian
2017 Daniel Ocasio, NSF Graduate Research Fellowship
2017 Hollie Adejumo, NSF Graduate Research Fellowship
2017 Ethan Hain, NSF Graduate Research Fellowship, Honorable Mention
2017 Kiranmayi Mangalgiri, ACS-Maryland Travel Award
2017 Daniel Ocasio, Ford Foundation Fellowship
2017 Hollie Adejumo, ACS-Maryland Travel Award
2017 Daniel Ocasio, National GEM Consortium Fellowship
2017 Savannah Steinly, UMBC Undergraduate Research Award
2017 Hannah Aris, UMBC Undergraduate Research Award
2017 Temitope Ibitoye, UMBC Undergraduate Research Award
2016 Hollie Adejumo, Pfizer Society of Toxicology Undergraduate Student Travel Award (declined)
2016 Daniel Ocasio, Barry M. Goldwater Scholarship
2016 Nicholas Rogers, NSF Graduate Research Fellowship
2016 Hollie Adejumo, Certificate of Merit, ACS Division of Environmental Chemistry
2016 Savannah Steinly, UMBC Undergraduate Research Award
2016 Hannah Aris, UMBC Undergraduate Research Award
2016 Daniel Ocasio, UMBC Undergraduate Research Award
2016 Kiranmayi Mangalgiri, Helena Gaifem, Utsav Shashvatt, Nicholas Rogers, Hollie Adejumo, Savannah Steinly, Hannah Aris – 1st place AEESP student video competition,

"What do Environmental Engineers do?". Video available at https://www.youtube.com/watch?v=MUT8zya53Vg

2016 Kiranmayi Mangalgiri, 1st place UMBC Three Minute Thesis Competition, Graduate Research Conference

2016 Kiranmayi Mangalgiri, Graduate Student Award in Environmental Chemistry, ACS Division of Environmental Chemistry

2016 Hollie Adejumo, American Chemical Society Environmental Chemistry Division, Undergraduate Award

2015 Hollie Adejumo, 1st place (poster), 18th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, UMBC

2015 Hollie Adejumo, United Negro College Fund (UNCF)-Merck Undergraduate Science Research Scholarship Award

2015 John Kemper, Utsav Shashvatt, Erin Stapleton, Mamatha Hopanna, Nicholas Rogers, Robert Burton. First place Chesapeake Water Environment Association Student Design Competition ($1000 prize with $4000 travel award to WEFTEC)

2015 Nicholas Rogers, UMBC Undergraduate Research Award

2015 Apurva Shah, UMBC Undergraduate Research Award (declined)

2015 Hollie Adejumo, UMBC Undergraduate Research Award

2015 Hollie Adejumo, Honorable mention, Navy Science and Engineering Conference (Annapolis, MD)

2015 Nicholas Rogers, American Chemical Society Environmental Chemistry Division, Undergraduate Award

2014 Nicholas Rogers, 1st place (poster), 17th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, UMBC

2014 Ke He, 1st place in ACS poster competition for "Analytical Methods for Detecting and Prioritizing Contaminants of Concern" symposium at the Fall 2014 American Chemical Society meeting

2014 Elvis Andino, Trevor Needham, Eli Patmont, and James Sanders. First place Chesapeake Water Environment Association Student Design Competition ($1000 prize with $2000 travel award to WEFTEC)

2014 Jessica Lee, American Chemical Society Environmental Chemistry Division, Undergraduate Award

2014 Jessica Lee, UMBC Undergraduate Research Award

2014 Hollie Adejumo, UMBC Undergraduate Research Award

2013 Sebastian Snowberger, UMBC Undergraduate Research Award

2013 Dalton Hughes, Hollie Adejumo, Madison Bondoc, Christopher Mullen, UMBC Undergraduate Research Award

2013 Robert Burton, Montgomery County Agricultural Center, Inc. Scholarship

2013 Sebastian Snowberger, Washington Suburban Sanitary Commission Joyce Starks Engineering Scholarship

2012 Dr. Asok Adak, University Grants Commission, Raman Post-doctoral Fellow program

2012 Robert Burton, UMBC Undergraduate Research Award

2012 Sebastian Snowberger, Washington Suburban Sanitary Commission Joyce Starks Engineering Scholarship

Ph.D. Students

Advisor

Donya Hamidi, Environmental Engineering, (in progress)
Dissertation: *to be determined*

Honour Booth, Environmental Engineering, (in progress)
Dissertation: *to be determined*

Marylia Duarte Batista, Environmental Engineering, (in progress)
Dissertation: *to be determined*

Sahar Souizi, Environmental Engineering, (in progress)
Dissertation: *Simultaneous recovery of nutrients from hog manure and treatment of brackish groundwater for irrigation purposes through sustainable Donnan dialysis processes*

Jahir Antonio Batista Andrade, Environmental Engineering, 2023
Dissertation: *Identifying wastewater inputs to urban streams by monitoring dissolved organic matter fluorescence and contaminants of emerging concerns*

Michael Fleming, Environmental Engineering, 2023
Dissertation: *Sustainable recovery of ammonium from agricultural and municipal waste by Donnan dialysis*

Ethan Hain, Chemical and Biochemical Engineering, 2022
Dissertation: *Occurrence, source, and toxicity of contaminants of emerging concern in the diverse subwatersheds of the Chesapeake Bay*

Utsav Shashvatt, Environmental Engineering, 2021
Dissertation: *Phosphorus recovery from wastewater and solid waste by Donnan dialysis*

Mamatha Hopanna, Environmental Engineering, 2021
Dissertation: *Photolytic fate of organo-selenium and-tin compounds in natural and engineered water systems*

Ke He, Chemical and Biochemical Engineering, 2017
Dissertation: *Occurrence and fate of antibiotics, estrogens, and UV-filters: Implication for ecotoxicological impacts*

Kiranmayi Mangalgiri, Environmental Engineering, 2017
Dissertation: *Photolytic fate of antibiotics in UV-based engineered and natural systems*

Committee Member

Matthew Stromberg, Environmental Engineering, (in progress)

Pedro Martin, Environmental Engineering (University of California, Irvine), (in progress)

Peng Yan, Chemistry, (in progress)

Jayashree Yalamanchili, Environmental Engineering, 2023

Astha Upadhyay, Civil & Environmental Engineering (Temple University), 2023

Yang Liu, Chemical and Biochemical Engineering, 2020

Payam Rezaei, Chemical and Biochemical Engineering, 2020

Sheniqua Brown, Chemical and Biochemical Engineering, 2019

Michael Battaglia, Chemical and Biochemical Engineering, 2019

James Sanders, Environmental Engineering, 2018
Marwa El-Sayed, Environmental Engineering, 2017
Jenna Luek, MEES Program (University of Maryland Center for Environmental Science), 2017
Hilda Fadeai, Environmental Engineering, 2017
Mehregan Jalalizadeh, Environmental Engineering, 2017
Huan Xia, Environmental Engineering, 2017
Claudio Müller, Toxicology Program (University of Maryland Baltimore), 2015
Angele Kwimi, Civil and Environmental Engineering, 2013

Master's Students

Advisor

Margaret Siao, Chemical Engineering (thesis), 2023 – present
Marriah Ellington, Environmental Engineering (project), 2023
Anna McClain, Environmental Engineering (thesis), 2023
Caitlyn Dugan, Environmental Engineering (project), 2022
Haley Hartney, Environmental Engineering (project), 2020
Charles Portner, Environmental Engineering (project), 2019
Zachary Hopkins, Civil and Environmental Engineering (thesis), 2014
Shreemal Perera, Civil and Environmental Engineering (project), 2013

Committee Member

Rose Taylor, Environmental Engineering, (in progress)
Rob D'Amato, Geography and Environmental Systems, (in progress)
Michael McKee, Environmental Engineering, 2023
Rikke Jepsen, Geography and Environmental Systems, 2018
Eli Patmont, Environmental Engineering, 2016
Bo Wang, Civil and Environmental Engineering, 2012

Undergraduate Students

Alvin Bett, Chemical Engineering, 2023 – present
An Dang, Chemical Engineering, 2023 – present
Kaylyn Stewart, Chemistry, Meyerhoff Scholar, 2021 – present
Jiabao Liang, Chemistry, 2022 – 2023
Nicholas Berry, Chemical Engineering, 2023
Zaira Castillo Diaz, Chemical Engineering, 2022 – 2023
Margaret Siao, Chemical Engineering, 2022 – 2023
Mary Nolan, Chemical Engineering, 2022 – 2023
Diego Iglesias Vega, Chemical Engineering, 2021 – 2023
Ouriel Ndalamba, Chemical Engineering, CWIT Scholar, 2019 – 2023
Fabian Amurrio, Chemical Engineering, Meyerhoff Scholar, 2019 – 2022
Chelsea Mikal, Chemical Engineering, CWIT Scholar, 2019 – 2022
Aiswarya Boby, Chemical Engineering, CWIT Scholar, 2019 – 2022

Bridget Anger, Chemical Engineering, Meyerhoff Scholar, 2018 – 2021
Erick Diaz, Chemical Engineering, 2019 – 2020
Zaria Oliver, Chemical Engineering, Meyerhoff Scholar, 2019 – 2020
Maila Raphael, Chemical Engineering, 2019 – 2020
Lauren Harris, Chemistry, Meyerhoff Scholar, 2018 – 2020
Anna Feerick, Chemistry, 2018 – 2020
Justin Damon, Chemical Engineering, Meyerhoff Scholar, 2019
Sumana Peddibhotla, Chemical Engineering, 2019
Cameron Sloan, Chemical Engineering, 2019
Temitope Ibitoye, Chemical Engineering, Meyerhoff Scholar, 2016 – 2019
Charles Portner, Chemical Engineering, 2017 – 2018
Samina Musa, Chemical Engineering, 2017 – 2018
Bethany Wolinski, Chemical Engineering, 2017
Josh Benoit, Chemical Engineering, 2016 – 2018
Savannah Steinly, Chemical Engineering, CWIT Scholar, 2015 – 2017
Hannah Aris, Chemical Engineering, CWIT Scholar, 2015 – 2018
Daniel Ocasio, Chemical Engineering, Meyerhoff Scholar, 2015 – 2017
Jason Hughes, Chemical Engineering, Meyerhoff Scholar, 2016
Nicholas Rogers, Chemical Engineering, MARC U*STAR Scholar, 2014 – 2015
Hollie Adejumo, Chemical Engineering, Meyerhoff Scholar, 2013 – 2016
Jessica Lee, Chemical Engineering, 2013 – 2015
Kendall Dawkins, Chemical Engineering, Meyerhoff Scholar, 2013 – 2015
Apurva Shah, Chemical Engineering, Meyerhoff Scholar, 2013 – 2015
Madison Bondoc, Chemical and Mechanical Engineering, 2013 – 2014
Dalton Hughes, Chemical and Mechanical Engineering, 2013 – 2014
Suraj Vyas, Interdisciplinary Studies, 2013 – 2014
Sebastian Snowberger, Chemical Engineering, 2012 – 2014
Robert Burton, Chemical Engineering, 2012 – 2013
Zachary Hopkins, Chemical Engineering, 2012

Postdoctoral Research Associates

Dr. Hui Chen, Postdoctoral Research Associate, 2021 – present
Dr. Ke He, Postdoctoral Research Associate, 2018 – present
Dr. Michael Rose, Postdoctoral Research Associate, 2019 – 2022
Dr. Asok Adak, Postdoctoral Research Associate, 2013 – 2014

Other Personnel

Sydney Braithwaite, Towson University, BEMORE REU trainee, Summer 2023
Nicholas Berry, University of Maryland Baltimore County, BEMORE REU trainee, Summer 2023
Paul Trong Dinh, University of Florida, BEMORE REU trainee, Summer 2022
Jessica Dong, University of Maryland College Park, BEMORE REU trainee, Summer 2022

Victoria Lee, Howard High School, Laboratory Intern, Fall 2021 – Summer 2022

Seanasia Baronette, Morgan State University, STEM BUILD Intern, Summer 2020

Zobaida Ataie, Prince George's Community College, STEM BUILD Intern, Summer 2020

Chelsea Mikal, Mt. Hebron High School, Laboratory Intern, Summer 2018 – Spring 2019

Aiswarya Boby, Mt. Hebron High School, Laboratory Intern, Summer 2018 – Spring 2019

Ouriel Ndalamba, High School Laboratory Intern, Summer 2018 – Spring 2019

Joseph Orenstein, High School Laboratory Intern, Summer 2018, 2019

Hongyue Jin, Pope John XXIII Regional High School, Laboratory Intern, Summer 2018

Israel Hollander, Community College of Baltimore County, STEM BUILD Intern, Summer 2018

Elder-Jerycho Herrera, Prince George's Community College, STEM BUILD Intern, Summer 2018

Catarina Santos, Visiting BS/MS student, Spring/Summer 2018

Chelsea Mikal, Mt. Hebron High School, Laboratory Intern, Summer 2017

Alina Boyko, Anne Arundel Community College, STEM BUILD Intern, Summer 2016

Mamadou Diallo, Community College of Baltimore County, STEM BUILD Intern, Summer 2016

Alonso Navarro-Henry, Prince George's Community College, STEM BUILD Intern, Summer 2016

Graham Rubin, The Park School, Laboratory Intern, Summer 2015

Rita Costa, Visiting BS/MS student, Spring/Summer 2015

Ana Dulce Soares, Visiting BS/MS student, Spring/Summer 2014

Eric Lumsden, University of Maryland Baltimore, Department of Medicine, Toxicology Rotation Program, Summer 2013

Adam Antoszewski, Catonsville High School, Laboratory Intern, Summer 2013

Claudio Müller, University of Maryland Baltimore, Department of Medicine, Toxicology Rotation Program, Spring 2012

PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS

Publications

Peer-Reviewed Works

Books

1. Hernandez-Maldonado, A.J.; Blaney, L. Contaminants of Emerging Concern (CECs) in Water and Wastewater: Advanced Treatment Processes. Butterworth-Heinemann (Oxford, UK), 2019. https://doi.org/10.1016/C2016-0-05074-X

Articles

1. Chen, H.; Souizi, S.; Stewart, K.; Blaney, L. Application of the $R_{d/w}$ framework to assess Donnan dialysis performance. *Current Opinion in Chemical Engineering (accepted with revisions)*
2. Batista-Andrade, J.A,; Iglesias Vega, D.; McClain, A.; Blaney, L. Using multilinear regressions developed from excitation-emission matrices to estimate the wastewater content in urban streams impacted by sanitary sewer leaks and overflows. *Science of the Total Environment (accepted with revisions)*

3. Hain, E.; He, K.; Feerick, A.; Batista-Andrade, J.A.; Tarnowski, M.; Timm, A.; Blaney, L. Antibiotics, hormones, and UV filters in the Chesapeake Bay (USA): geospatial and co-occurrence analyses confirm wastewater treatment plants, septic systems, and animal feeding operations as sources. *Journal of Hazardous Materials (in press)*
4. Martin, P.; He, K.; Blaney, L.; Hobbs, S. (2023). Advanced liquid chromatography with tandem mass spectrometry method for quantifying glyphosate, glufosinate, and aminomethylphosphonic acid using pre-column derivatization. *ACS ES&T Water*. https://doi.org/10.1021/acsestwater.3c00094
5. Chen, H.; Amurrio, F.; Stewart, K.; Shashvatt,U.; Blaney, L. (2023). Sustainable nutrient recovery from synthetic urine by Donnan dialysis with tubular ion-exchange membranes. *Chemical Engineering Journal* 460, 141625. https://doi.org/10.1016/j.cej.2023.141625
6. Wang, T.; He, K.; Blaney, L.; Chung, S. (2023). Testosterone and steroidogenic genes in the male blue crab Callinectes sapidus and their relationship with insulin-like androgenic gland factor (IAG) and crustacean female sex hormone (CFSH). *Aquaculture* 568, 739297. https://doi.org/10.1016/j.aquaculture.2023.739297
7. Batista-Andrade, J.A.; Diaz, E.; Iglesias, D.; Hain, E.; Rose, M.R.; Blaney, L. (2023). Spatiotemporal analysis of fluorescent dissolved organic matter to identify the impacts of sewer exfiltration, sanitary sewer overflows, and septic systems on water quality in urban streams. *Water Research* 229, 119521. https://doi.org/10.1016/j.watres.2022.119521
8. Chen, H.; Rose, M.; Fleming, M.; Souizi, S.; Shashvatt, U.; Blaney, L. (2023). Recent advances in Donnan dialysis technologies for contaminant treatment and resource recovery: a critical review. *Chemical Engineering Journal* 455, 140522. https://doi.org/10.1016/j.cej.2022.140522
9. Chen, J.; Wang, B.; Huang, J.; Deng, S.; Wang, Y.; Blaney, L.; Brennan, G.L.; Cagnetta, G.; Jia, Q.; Yu, G. (2022). A machine-learning approach clarifies interactions between contaminants of emerging concern. *One Earth* 5, 11, 1239-1249. https://doi.org/10.1016/j.oneear.2022.10.006
10. Shashvatt, U.; Amurrio, F.; Blaney, L. (2022). Ligand-enabled Donnan dialysis for phosphorus recovery from alum-laden waste activated sludge. *Environmental Science and Technology*, 56, 19, 13945-13953. https://doi.org/10.1021/acs.est.2c02153
11. Wang, T.; He, K.; Blaney, L.; Chung, S. (2022). 17β-estradiol (E2) may be involved in the action mode of crustacean female sex hormone (CFSH) in the blue crab, *Callinectes sapidus*. *Frontiers in Endocrinology*, *in press*. https://doi.org/10.3389/fendo.2022.962576
12. Zhu, Y.; Ji, H.; He, K.; Blaney, L.; Xu, T.; Zhao, D. (2022). Photocatalytic degradation of GenX in water using a new adsorptive photocatalyst. *Water Research*, 220, 118650. https://doi.org/10.1016/j.watres.2022.118650
13. Priyadarshini, M.; Das, I.; Ghangrekar, M.M.; Blaney, L. (2022). Advanced oxidation processes: performance, advantages, and scale-up of emerging technologies. *Journal of Environmental Management*, 316, 115295. https://doi.org/10.1016/j.jenvman.2022.115295
14. Mangalgiri, K.P.; Ibitoye, T.; Blaney, L. (2022). Molar absorption coefficients and acid dissociation constants for fluoroquinolone, sulfonamide, and tetracycline antibiotics of environmental concern. *Science of the Total Environment* 835, 155508. https://doi.org/10.1016/j.scitotenv.2022.155508
15. Zhong, M.; Wang, T.; Zhao, W.; Huang, J.; Wang, B.; Hao, O.; Blaney, L.; Bu, Q.; Yu, G. (2021). Emerging organic contaminants in Chinese surface water: Identification of priority pollutants. *Engineering*, 11, 111-125. https://doi.org/10.1016/j.eng.2020.12.023

16. Wang, T., Zhong, M., Lu, M., Huang, J., Blaney, L., Yu, G. (2021). Development of a high throughput multi-residue method for analysis of common pesticides in aquatic environment by automated online solid phase extraction coupled to LC-MS/MS. *Analytical Methods* 13, 3160-3171. https://doi.org/10.1039/D1AY00157D
17. Wang, T., Zhong, M., Lu, M., Xu, D., Xue, Y., Huang, J., Blaney, L., Yu, G. (2021). Occurrence, spatiotemporal distribution, and risk assessment of current-use pesticides in surface water: A case study near Taihu Lake, China. *Science of the Total Environment* 782, 146826. https://doi.org/10.1016/j.scitotenv.2021.146826
18. Shashvatt, U.; Amurrio, F.; Portner, C.; Blaney, L. (2021). Phosphorus recovery by Donnan dialysis: membrane selectivity, diffusion coefficients, and speciation effects. *Chemical Engineering Journal* 419, 129626. https://doi.org/10.1016/j.cej.2021.129626
19. Hain, E.; Adejumo, H.; Anger, B.; Orenstein, J.; Blaney, L. (2021). Advances in antimicrobial activity analysis of fluoroquinolone, macrolide, sulfonamide, and tetracycline antibiotics for environmental applications through improved bacteria selection. *Journal of Hazardous Materials* 415, 125686. https://doi.org/10.1016/j.jhazmat.2021.125686
20. Zhao, W.; Yu, G.; Blaney, L.; Wang, B. (2021). Development of emission factors to estimate discharge of typical pharmaceuticals and personal care products from wastewater treatment plants. *Science of the Total Environment* 769, 144556. https://doi.org/10.1016/j.scitotenv.2020.144556
21. He, K.; Hain, E.; Timm, A.; Blaney, L. (2021). Bioaccumulation of estrogenic hormones and UV-filters in red swamp crayfish (*Procambarus clarkii*). *Science of the Total Environment* 764, 142871. https://doi.org/10.1016/j.scitotenv.2020.142871
22. Hopanna, M.; Kelly, L.; Blaney, L. (2020). Photochemistry of the organoselenium compound ebselen: direct photolysis and reaction with active intermediates of conventional reactive species sensitizers and quenchers. *Environmental Science & Technology* 54(18), 11271-11281. https://doi.org/10.1021/acs.est.0c03093
23. Modiri Gharehveran, M.; Hain, E.; Blaney, L.; Shah, A.D. (2020). Influence of dissolved organic matter on carbonyl sulfide and carbon disulfide formation from cysteine during sunlight photolysis. *Environmental Science: Processes & Impacts* 22, 1852-1864. https://doi.org/10.1039/D0EM00219D
24. Li, F.; Wei, Z.; He, K.; Blaney, L.; Cheng, X.; Xu, T.; Liu, W.; Zhao, D. (2020). A concentrate-&-destroy technique for degradation of perfluorooctanoic acid in water using a new adsorptive photocatalyst. *Water Research* 185, 116219. https://doi.org/10.1016/j.watres.2020.116219
25. Zhang, Y.; Duan, L.; Wang, B.; Liu, C.S.; Jia, Y.; Zhai, N.; Blaney, L.; Yu, G. (2020). Efficient multiresidue determination method for 168 pharmaceuticals and metabolites: Optimization and application to raw wastewater, wastewater effluent, and surface water in Beijing, China. *Environmental Pollution* 261, 114113. https://doi.org/10.1016/j.envpol.2020.114113
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27. Chen, S.; Blaney, L.; Chen, P.; Deng, S.; Hopanna, M.; Bao, Y.; Yu, G. (2019). Ozonation of the 5-fluorouracil anticancer drug and its prodrug capecitabine: Reaction kinetics, oxidation mechanisms, and residual toxicity. *Frontiers of Environmental Science and Engineering* 13(4), 59. https://doi.org/10.1007/s11783-019-1143-2

28. Mitchelmore, C.*; He, K.*; Gonsior, M.; Hain, E.; Heyes, A.; Clark, C.; Younger, R.; Schmitt-Kopplin, P.; Feerick, A.; Blaney, L. (2019). Occurrence and distribution of organic UV-filters in coastal surface waters, sediments, and coral tissue in Hawaii. *Science of the Total Environment* 670, 398-410. (* co-first authors). https://doi.org/10.1016/j.scitotenv.2019.03.034
29. Jepsen, R.; He, K.; Blaney, L.; Swan, C. (2019). Effects of antimicrobial exposure on detrital biofilm metabolism in urban and rural stream environments. *Science of the Total Environment* 666, 1151-1160. https://doi.org/10.1016/j.scitotenv.2019.02.254
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32. Zhang, Y.; Duan, L.; Wang, B.; Du, Y.; Cagnetta, G.; Huang, J.; Blaney, L.; Yu, G. (2019). Wastewater-based epidemiology of pharmaceutically active compounds in Beijing, China: prevalence of antibiotic use in flu season and association with socioeconomic characteristics. *Environment International*, 125, 152-160. https://doi.org/10.1016/j.envint.2019.01.061
33. Chen, P.*; Blaney, L.*; Cagnetta, G.; Huang, J.; Wang, B.; Wang, Y.; Deng, S.; Yu, G. (2019). Degradation of ofloxacin by perylene diimide supramolecular nanofiber sunlight-driven photocatalysis. *Environmental Science & Technology* 53(3), 1564-1575. (* co-first authors). https://doi.org/10.1021/acs.est.8b05827
34. Wu, J.; Wang, B.; Blaney, L.; Peng, G.; Chen, P.; Cui, Y.; Deng, S.; Wang, Y.; Huang, J.; Yu, G. (2019). Degradation of sulfamethazine by persulfate activated with organo-montmorillonite supported nano-zero valent iron. *Chemical Engineering Journal* 361, 99-108. https://doi.org/10.1016/j.cej.2018.12.024
35. Blaney, L.; Katz, L.E.; Lawler, D.F. (2019). Transformation kinetics of cyclophosphamide and ifosfamide by ozone and hydroxyl radicals using continuous oxidant addition reactors. *Journal of Hazardous Materials* 364, 752-761. https://doi.org/10.1016/j.jhazmat.2018.09.075
36. He, K.; Hain, E.; Timm, A.; Tarnowski, M.; Blaney, L. (2019). Occurrence of antibiotics, estrogenic hormones, and UV-filters in water, sediment, and oyster tissue from the Chesapeake Bay. *Science of the Total Environment* 650(2), 3101-3109. https://doi.org/10.1016/j.scitotenv.2018.10.021
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38. Shashvatt, U.; Benoit, J.; Aris, H.; Blaney, L. (2018). CO_2-assisted phosphorus extraction from poultry litter and selective recovery of struvite and potassium struvite. *Water Research* 143, 19-27. https://doi.org/10.1016/j.watres.2018.06.035
39. Hain, E.; Wammer, K.H.; Blaney, L. (2018). Comment on "Photodegradation of sulfathiazole under simulated sunlight: Kinetics, photo-induced structural rearrangement, and antimicrobial activities of photoproducts". *Water Research* 131, 205-207. https://doi.org/10.1016/j.watres.2017.12.041
40. Fu, Q.-L.; Blaney, L.; Zhou, D.-Z. (2018). Identifying plant stress responses to roxarsone in soybean root exudates: New insights from two-dimensional correlation spectroscopy. *Journal of Agricultural and Food Chemistry* 66(1), 53-62. https://doi.org/10.1021/acs.jafc.7b04706

41. Blaney, L.; Perlinger, J.A.; Bartelt-Hunt, S.L.; Kandiah, R.; Ducoste, J.J. (2018). Another Grand Challenge – Diversity in Environmental Engineering. *Environmental Engineering Science* 35(6), 568-572. https://doi.org/10.1089/ees.2017.0337
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45. Mangalgiri, K.P.; Timko, S.A.; Gonsior, M.; Blaney, L. (2017). PARAFAC modeling of irradiation- and oxidation-induced changes in fluorescent dissolved organic matter extracted from poultry litter. *Environmental Science & Technology* 51(14), 8036-8047. https://doi.org/10.1021/acs.est.6b06589
46. Hopkins, Z.; Snowberger, S.; Blaney, L. (2017). Ozonation of the oxybenzone, octinoxate, and octocrylene UV-filters: Reaction kinetics, absorbance characteristics, and transformation products. *Journal of Hazardous Materials* 338(15), 23-32. https://doi.org/10.1016/j.jhazmat.2017.05.016
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Chapters in Books

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2. Shashvatt, U.; Aris, H.; Blaney, L. Evaluation of animal manure composition for protection of sensitive water supplies through nutrient recovery processes. Book chapter, in "Chemistry and Water: The Science Behind Sustaining the World's Most Crucial Resource" edited by Satinder Ahuja (Elsevier), 2016. https://doi.org/10.1016/B978-0-12-809330-6.00013-1
3. Van Epps, A.; Blaney, L. "Pharmaceuticals and personal care products in wastewater: Implications for urban water reuse" in *Handbook of Urban Water Reuse* edited by Saeid Eslamian. Francis and Taylor (CRC Group), 2015. https://doi.org/10.1201/b19646-12
4. Blaney, L. "Ozone treatment of antibiotics in water" in *Water Reclamation and Sustainability*, edited by Satinder Ahuja. John Wiley & Sons, Inc., 2014. https://doi.org/10.1016/B978-0-12-411645-0.00012-2
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Conference Proceedings

1. Smalling, K.L.; Lorah, M.; Allen, G.; Blaney, L.; Cantwell, M.; Fowler, L.; Ihde, T.; Mank, M.; Majcher, E.; Onyullo, G.; Phillips, S. 2023. Improving understanding and coordination of science activities for per- and polyfluoroalkyl substances (PFAS) in the Chesapeake Bay Watershed. STAC Publication Number 23-002, Edgewater, MD. 58 pp.
2. Majcher, E.; Smalling, K.; Blaney, L.; Harvey, A.; Phillips, S.L.; Blazer, V.; Pickney, A.; Brosch, C.; Allen, G. 2020. Integrating science and developing approaches to inform management for contaminants of concern in agricultural and urban settings. Chesapeake Bay Program, Scientific and Technical Advisory Committee Publication Number 20-001, Edgewater, MD. 51 pp.
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Editorials and Letters to the Editor

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Non-Peer-Reviewed Works

Dissertation/Thesis

1. Blaney L.M. (2011). Oxidation of pharmaceuticals: Impact of natural organic matter on elimination of pharmacological activity. Ph.D. Dissertation, The University of Texas at Austin, Austin, TX.
2. Blaney, L.M. (2007). Removal of natural organic matter through employment of anion exchange fibers impregnated with hydrous ferric and zirconium oxide nanoparticles towards reduction of disinfection by-product formation potential in water treatment. M.S. Thesis, Lehigh University, Bethlehem, PA.

Popular Media Articles

1. Blaney, L. (2017). There's a new generation of water pollutants in your medicine cabinet. *The Conversation*, April 20, 2017. Available at: https://theconversation.com/theres-a-new-generation-of-water-pollutants-in-your-medicine-cabinet-71260

Works Submitted or In Preparation

1. Fahrenfeld, N.L.; Blaney, L.; Good,K.D.; Liu, L.; Tehrani, R.; Selvaratnam, T. Lessons learned from a cross-institutional environmental engineering and science faculty-to-faculty mentoring program. *Submitted*
2. Chen, J.; Wang, B.; Huang, J.; Blaney, L.; Zhao, L.; He, X.; Li, J.; Yu, G. Pesticide mixtures still threaten global freshwater biodiversity after 60 years of Silent Spring. *Submitted*
3. Farghal, H.; Nebsen, M.; Blaney, L.; El-Sayed, M. Treatment of carbamazepine and other structurally-related pharmaceuticals in water and wastewater by nanoporous adsorbents and photocatalysts: a critical review. *Submitted*
4. He, K.; Feerick, A.; Jin, H.; Batista-Andrade, J.A.; Duarte Batista, M.; Dugan, C.; Blaney, L. Retention of per- and polyfluoroalkyl substances (PFAS) by syringe filters. *In preparation*

5. Fleming, M.; Ndalamba, O.; Oliver, Z.; Portner, C.; Blaney, L. Improving struvite collection efficiency with natural coagulants following phosphorus recovery from poultry litter. *In preparation*
6. Batista-Andrade, J.A.; Welty, C.; Iglesias Vega, D.; McClain, A.; Blaney, L. Geospatial variability of fluorescent dissolved organic matter in urban watersheds: relationships with land cover and wastewater infrastructure. *In preparation*
7. Zhu, Y.; Leary, R.N.; He, K.; Blaney, L.; Xu, T.; Zhao, D. Photocatalytic degradation of PFAS in surface water using a "concentrate-&-destroy" technology. *In preparation*
8. Hopanna, M.; He, K.; Blaney, L. Photochemical fate of triphenyltin pesticides in engineered treatment systems: Reaction kinetics, transformation products, and residual toxicity. *In preparation*
9. Rose, M.; Hain, E.; Blaney, L. Cumulative effects of Ca^{2+}, Mg^{2+}, and dissolved organic matter on the photochemical transformation and residual antimicrobial activity of tetracycline antibiotics during UV photolysis. *In preparation*
10. Shashvatt, U.; Raphael, M.; Boby, A.; Walker, S.; Blaney, L. Alternative Donnan dialysis draw solutions for phosphorus recovery from wastewater: sustainable use of reverse osmosis concentrates. *In preparation*
11. Hopanna, M.; Kelly, L.; Blaney, L. Photolysis of triphenyltin chemicals: determination of rate constants and prediction of photodegradation in different source waters. *In preparation*

Patents

1. Blaney, L. Nutrient extraction and recovery device for isolation and separation of target products from animal produced waste streams. US patent, US20170174577A1 (expiration, March 7, 2037).
2. Blaney, L.; Shashvatt, U. Phosphorus extraction and recovery system (PEARS). US patent, US20170327427A1 (expiration, November 29, 2037).

Presentations

Conference/Poster Presentations (Juried/Refereed) (presenting author is underlined)

1. Blaney, L.; Mangalgiri, K. Photodegradation of antibiotics in the presence of agriculturally-derived organic matter. Fall 2023 ACS National Meeting (San Francisco, CA), August 13-17, 2023.
2. Souizi, S.; Chen, H.; Stewart, K.; Blaney, L. Sustainable nutrient recovery with novel tube-in-tube Donnan dialysis reactors. Fall 2023 ACS National Meeting (San Francisco, CA), August 13-17, 2023.
3. He, K.; Liang, J.; Siao, M.; Ellington, M.; Chen, H.; Stewart, K.; Blaney, L. Development of anion-exchange membranes as passive samplers for diverse per- and polyfluoroalkyl substances. Fall 2023 ACS National Meeting (San Francisco, CA), August 13-17, 2023.
4. Lorah, M.; Linhoff, B.; Akob, D.M.; Harris, C.; Mumford, A.; Foeppel, J.; He, K.; Blaney, L. Microbial communities and natural and enhanced biodegradation of per- and polyfluoroalkyl substances in arid region soils contaminated with aqueous film-forming foams. Goldschmidt Conference (Lyon, France), July 13, 2023.
5. Linhoff B.; Lorah, M.; He, K.; Blaney, L.; Foeppel, J.; Akob, D.M.; Harris, C. PFAS fate and transport in arid region soils. Goldschmidt Conference (Lyon, France), July 13, 2023.

6. Blaney, L.; Arnold, W.; Aziz, T.; Beckingham, L.; Cusick, R.; Fahrenfeld, N.; Fennell, D.; Gunsch, C.; Kandiah, R.; MacKay, A.; Montoya, L.; Olson, M.; Rodrigues, D.; Tehrani, R.; Verbyla, M. Who we are: motivation and results from the new AEESP demographics survey. AEESP Research and Education Conference (Boston, MA), June 20-23, 2023.
7. Batista-Andrade, J.A.; Iglesias Vega, D.; McClain, A.; Blaney, L. Fluorescent dissolved organic matter as a forensic tool to investigate the influences of land use and failing sewer infrastructure on water quality in urban streams. AEESP Research and Education Conference (Boston, MA), June 20-23, 2023.
8. Chen, H.; Souizi, S.; Stewart, K.; Amurrio, F.; Blaney, L. Development of novel tube-in-tube Donnan dialysis reactors for sustainable and efficient nutrient recovery. AEESP Research and Education Conference (Boston, MA), June 20-23, 2023.
9. Linhoff B.; Lorah, M.; Dugan, C.; He, K.; Blaney, L. PFAS fate and transport in arid region soils. 13th National Monitoring Conference, National Water Quality Monitoring Council (Virginia Beach, VA), April 24-28, 2023.
10. Nolan, M.; Batista-Andrade, J.A.; McClain, A.; Blaney, L. Solar photolysis of fluorescent dissolved organic matter and contaminants of emerging concern in wastewater-impacted streams. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 12, 2023.
11. Iglesias Vega, D.; Batista-Andrade, J.A.; McClain, A.; Blaney, L. Utilizing multilinear regression models and *Enterococci* spp. content to assess water quality in Baltimore streams. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 12, 2023.
12. Martin, P.J.; He, K.; Blaney, L.; Hobbs, S.R. HPLC-UV determination of glyphosate, aminomethylphosphonic acid, and glufosinate using pre-column derivatization. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
13. Batista-Andrade, J.A.; Iglesias Vega, D.; McClain, A.; Blaney, L. Predicting wastewater loads in urban streams using fluorescence spectroscopy and multiple linear regression. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
14. Ellington, M.; He, K.; Siao, M.; Blaney, L. Improving transformation efficiency, recovery efficiency, and throughput for total oxidizable precursor analysis of biosolids and sediment. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
15. Fleming, M.; Ndalamba, O.; Blaney, L. Improved ammonium recovery from poultry litter by Donnan dialysis with clinoptilolite. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
16. McClain, A.; Batista-Andrade, J.A.; Blaney, L. Investigating septic system impacts in a rural subwatershed using dissolved organic matter fluorescence and contaminant concentrations. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
17. Ndalamba, O.; Fleming, M.; Blaney, L. Evaluation of competing ion effects and EDTA on ammonium recovery by Donnan dialysis. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
18. Siao, M.; Ellington, M.; He, K.; Blaney, L. Reducing organic interferences for PFAS analysis in biosolids. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.
19. Stewart, K.; Chen, H.; Amurrio, F.; Castillo Diaz, Z.; He, K.; Blaney, L. Separation of per- and polyfluoroalkyl substances from contaminated water by Donnan dialysis. Spring 2023 ACS National Meeting (Indianapolis, IN), March 26-30, 2023.

20. Iglesias Vega, D.; Batista-Andrade, J.A.; McClain, A.; Blaney, L. Multilinear regression models of fluorescent dissolved organic matter to monitor wastewater in Baltimore streams. Fall 2022 LSAMP Research Symposium (College Park, MD), December 3, 2022.
21. Stewart, K.; Chen, H.; Amurrio, F.; Blaney, L. Advances in Donnan dialysis reactor configuration for efficient nutrient recovery. Fall 2022 LSAMP Research Symposium (College Park, MD), December 3, 2022.
22. He, K.; Amurrio, F.; Chen, H.; Dugan, C.; Ellington, M.; Feerick, A.; Siao, M.; Stewart, K.; Blaney, L. PFAS interactions with ion-exchange membranes: towards development of passive samplers. SERDP & ESTCP Symposium (Arlington, VA), December 1, 2022.
23. Fleming, M.; Ndalamba, O.; Blaney, L. Ammonium and potassium recovery by Donnan dialysis: Role of ion-exchange capacity, membrane thickness, separation factors, and diffusion coefficients on the rate of recovery. Fall 2022 ACS National Meeting (Chicago, IL), August 21-25, 2022.
24. Lee, V.; Rose, M.; Batista-Andrade, J.A.; McClain, A.; Dinh, P.; Dong, J.; Blaney, L. Photodegradation of fluorescent dissolved organic matter from wastewater. BEMORE REU program Summer 2022 Showcase (Baltimore, MD), August 8, 2022.
25. Dinh, P.T.*; Dong, J.*; McClain, A.; Batista Andrade, J.A.; He, K.; Blaney, L. Impact of dissolved copper on the photodegradation of enrofloxacin and ciprofloxacin and removal of residual antimicrobial activity. BEMORE REU program Summer 2022 Showcase (Baltimore, MD), August 8, 2022.
26. Blaney, L.; He, K. Ion-exchange membranes as passive samplers for chemically-diverse PFAS (ER20-1073). SERDP & ESTCP PFAS Project Meeting (Long Beach, CA), July 18-21, 2022.
27. He, K.; Dugan, C.; Feerick, A.; Ellington, M.; Blaney, L. Anion-exchange membranes for passive sampling of diverse per- and polyfluoroalkyl substances. AEESP Research and Education Conference (St. Louis, MO), June 30, 2022.
28. Chen, H.; Stewart, K.; Amurrio, F.; Shashvatt, U.; Blaney, L. Advances in Donnan dialysis reactor configuration for efficient nutrient recovery. AEESP Research and Education Conference (St. Louis, MO), June 30, 2022.
29. Batista-Andrade, J.A.; Vega, D.I.; McClain, A.; Rose, M.; Blaney, L. Contaminants of emerging concern and fluorescent dissolved organic matter as wastewater indicators in urban watersheds that do not receive wastewater effluent. AEESP Research and Education Conference (St. Louis, MO), June 30, 2022.
30. Bartelt-Hunt, S.; Blaney, L.; Fahrenfeld, N.; Tehrani, R.. Global faculty mentorship initiative: lessons learned, trends, and continuous improvements. AEESP Research and Education Conference (St. Louis, MO), June 29, 2022.
31. Lorah, M.M.; Akob, D.M.; Harris, C.; He, K.; Blaney, L.; Schultes, L.; Sunderland, E.; Vecitis, C. Biogeochemical conditions and microbial populations linked to biodegradation of per- and polyfluoroalkyl substances in soil and sediment. Goldschmidt Conference (Honolulu, HI), July 10-15, 2022.
32. Hain, E.; He, K.; Feerick, A.; Batista Andrade, J.A.; Tarnowski, M.; Timm, A.; Blaney, L. Use of geospatial and co-occurrence analyses to identify sources of antibiotics, hormones, and UV filters in the Chesapeake Bay. 2022 Chesapeake Community Research Symposium (Annapolis, MD), June 7, 2022.
33. Ihde, T.; Blaney, L. An integrative modeling approach to support consumption advisories. 2022 Chesapeake Community Research Symposium (Annapolis, MD), June 7, 2022.

34. Mangalgiri, K.P.; Blaney, L. Photodegradation of antibiotics in the presence of dissolved organic matter from poultry litter. 2022 Chesapeake Community Research Symposium (Annapolis, MD), June 7, 2022.
35. He, K.; Dugan, C.; Feerick, A.; Ellington, M.; Blaney, L. Anion-exchange membranes for passive sampling of per- and polyfluoroalkyl substances. 2022 Chesapeake Community Research Symposium (Annapolis, MD), June 7, 2022.
36. Lorah, M.M.; Akob, D.M.; Harris, C.; He, K.; Blaney, L.; Schultes, L.; Sunderland, E.; Vecitis, C. Biogeochemical conditions and microbial populations linked to biodegradation of per- and polyfluoroalkyl substances in soil and sediment. 2022 Chesapeake Community Research Symposium (Annapolis, MD), June 7, 2022.
37. Lorah, M.M.; He, K.; Blaney L.; Akob, D.M.; Shedd, B.P. Biodegradation of PFOS with a dehalogenating culture in site soil, with and without chlorinated solvent co-contaminants. Battelle 2022 Chlorinated Conference (Palm Springs, CA), May 22-26, 2022.
38. Ihde, T.; Blaney, L. An integrative modeling approach to support consumption advisories. Chesapeake Bay Program, Scientific and Technical Advisory Committee workshop to "Improve the Understanding & Coordination of Science Activities for PFAS in the Chesapeake Watershed" (Annapolis, MD), May 17, 2022.
39. Iglesias Vega, D.; Batista-Andrade, J.A.; Blaney, L. Spatiotemporal analysis of fluorescent dissolved organic matter in two urban watersheds in Baltimore. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 18-24, 2022.
40. Mikal, C.; Rose, M.; Blaney, L. Spectroscopic investigation of metal-ligand complexation of tetracyclines with magnesium and calcium. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 18-24, 2022.
41. Stewart, K.; Chen, H.; Amurrio, F.; Blaney, L. Development of novel tube-in-tube Donnan dialysis reactors for simultaneous recovery of anionic and cationic nutrients from synthetic urine. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 18-24, 2022.
42. Ndalamba, O.; Fleming, M.; Blaney, L. Membrane selection to optimize ammonium recovery by Donnan dialysis. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 18-24, 2022.
43. Dai, N.; Su, L.; Blaney, L.; Mangalgiri, K. Generation of reactive species by dissolved organic matter of different origins: a combined review and experimental study. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.
44. Shashvatt, U.; Chen, H.; Amurrio, F.; Stewart, K.; Portner, C.; Blaney, L. Phosphorus recovery by Donnan dialysis: Membrane selectivity, diffusion coefficients, and speciation effects. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.
45. Shashvatt, U.; Amurrio, F.; Blaney, L. Use of ligands for cost-effective recovery of phosphorus from alum-laden waste activated sludge via Donnan dialysis. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.
46. He, K.; Dugan, C.; Feerick, A.; Ellington, M.; Blaney, L. Anion-exchange membranes for passive sampling of per- and polyfluoroalkyl substances. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.
47. Chen, H.; Stewart, K.; Amurrio, F.; Shashvatt, U.; Blaney, L. Advances in Donnan dialysis reactor configuration for efficient nutrient recovery. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.

48. Rose, M.; Hain, E.; Harris, L.; Mikal, C.; Hopanna, M.; Blaney, L. The effects of calcium, magnesium, and DOM on the photoproduct distribution and residual antimicrobial activity of tetracycline antibiotics irradiated by 254-nm light. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.
49. Batista-Andrade, J.A.; Diaz, E.; Rose, M.; Blaney, L. Fluorescent dissolved organic matter as a tool to monitor the impacts of sewer leaks on water quality in urban streams. Spring 2022 ACS National Meeting (San Diego, CA), March 20-24, 2022.
50. Shashvatt, U.; Chen, H.; Amurrio, F.; Stewart, K.; Raphael, M.; Boby, A.; Portner, C.; Blaney, L. Development of sustainable Nutrient Extraction and Recovery Devices (NERDs) for municipal and agricultural wastewater. 2022 INFEWS PI Workshop (Princeton, NJ), February 9-11, 2022.
51. Nason, S.L.; Blaney, L.; Zuverza-Mena, N. Effects of stormwater infiltration on composition of treated wastewater. Fall 2021 SETAC North America meeting (virtual), November 14-18, 2021.
52. Fleming, M.; Ndalamba, O.; Blaney, L. Optimization of natural coagulant dosing strategies for struvite recovery from poultry litter. Fall 2021 ACS National Meeting (Atlanta, GA), August 22-26, 2021.
53. He, K.; Blaney, L. Ion-exchange membranes and fibers as passive samplers for chemically-diverse PFAS (ER20-1073). SERDP & ESTCP Project Meeting on PFAS Ecotoxicity, Analyses, Fate, Transport, Treatment (San Pedro, CA), July 19-22, 2021.
54. Fleming, M.; Ndalamba, O.; Shashvatt, U.; Blaney, L. Sustainable ammonium recovery from municipal wastewater by Donnan dialysis. 2021 CSAWWA Second Annual Virtual Poster Competition (virtual), June 26, 2021.
55. Ndalama, O.; Fleming, M.; Shashvatt, U.; Blaney, L. Determination of Separation Factors and Diffusion Coefficients for Ammonium Recovery by Donnan Dialysis. UMBC Undergraduate Research and Creative Achievement Day (virtual), April 19-25, 2021.
56. Hain, E.; Rose, M.; Harris, L.; Mikal, C.; Hopanna, M.; Blaney, L. Complex environmental matrices affect the residual antimicrobial activity of tetracycline antibiotics during photolysis at 254 nm. Spring 2021 ACS National Meeting (virtual), April 5-16, 2021.
57. Hopanna, M.; Blaney, L. Assessing the photochemical fate of triphenyltin hydroxide in natural and engineered systems using a combination of laboratory experiments and model predictions. Spring 2021 ACS National Meeting (virtual), April 15, 2021.
58. Rose, M.; Hain, E.; Harris, L.; Mikal, C.; Hopanna, M.; Blaney, L. Multi-variate, kinetic analysis of tetracycline photolysis at 254 nm in the presence of calcium, magnesium, and dissolved organic matter. Spring 2021 ACS National Meeting (virtual), April 5-16, 2021.
59. Blaney, L.; He, K. Ion-exchange membranes and fibers as passive samplers for chemically-diverse PFAS. SERDP and ESTCP Symposium 2020 (virtual), December 1, 2020.
60. Amurrio, F.; Shashvatt, U.; Blaney, L. Phosphorus recovery from municipal and agricultural waste by Donnan dialysis: Impacts of acidification and chelating agent. Annual Biomedical Research Conference for Minority Students (virtual), November 13, 2020.
61. Shashvatt, U.; Raphael, M.; Walker, S.; Blaney, L. Donnan dialysis for phosphorus recovery from wastewater using brackish water reverse osmosis concentrate. Fall 2020 ACS National Meeting (San Francisco, CA / virtual), August 17-21, 2020.
62. Batista Andrade, J.A.; Diaz, E.; Hain, E.; He, K.; Blaney, L. Analysis of dissolved organic matter and contaminants of emerging concern to detect leaking sewers in urban streams. Fall 2020 ACS National Meeting (San Francisco, CA / virtual), August 17-21, 2020.

63. Fleming, M.; Ndalamba, O.; Oliver, Z.; Blaney, L. Improving particle collection in nutrient recovery systems by chitosan and sodium alginate addition. Fall 2020 ACS National Meeting (San Francisco, CA / virtual), August 17-21, 2020.
64. Blaney, L. Initiating successful international collaborations during sabbatical. Fall 2020 ACS National Meeting (San Francisco, CA / virtual), August 17, 2020.
65. Diaz, E.; Batista-Andrade, J.A.; Hain, E.; Rose, M.; He, K.; Blaney, L. Analysis of dissolved organic matter in urban streams by fluorescence excitation-emission matrices. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2020.
66. Amurrio, F.; Shashvatt, U.; Blaney, L. Phosphorus recovery from poultry litter slurries using Donnan dialysis. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2020.
67. Feerick, A.; He K.; Blaney, L. Removal of per- and polyfluoroalkyl substances by anion-exchange fibers. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2020.
68. Harris, L.; Rose, M.; Mikal, C.; Hopanna, M.; Blaney, L. Impact of DOM, pH, and divalent cations on the absorbance and phototransformation of tetracycline antibiotics. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2020.
69. Harris, L.; Hopanna, M.; Blaney, L. Photodegradation of tetracycline antibiotics at UV-254: Influence of pH and divalent cations. Annual Biomedical Research Conference for Minority Students (Anaheim, CA), November 13, 2019.
70. Oliver, Z.; Fleming, M.; Portner, C.; Blaney, L. Using chitosan and potato starch to improve separation of nutrient-deficient poultry litter solids from nutrient-enriched water in the Phosphorus Extraction and Recovery System (PEARS). Annual Biomedical Research Conference for Minority Students (Anaheim, CA), November 13, 2019.
71. He, K.; Feerick, A.; Blaney, L. Sorption of per- and polyfluoroalkyl substances onto anion exchange passive samplers. Society of Environmental Toxicology and Chemistry (Toronto, Canada), November 3-7, 2019.
72. Hain, E.; He, K.; Batista Andrade, J.A.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney, L. Occurrence and distribution of UV-filters in water, sediment, and oysters from Chesapeake Bay rivers fed by urban and agricultural areas. Society of Environmental Toxicology and Chemistry (Toronto, Canada), November 3-7, 2019.
73. Mitchelmore, C.L.; Heyes, A.; Gonsior, M.; He, K.; Blaney, L.; Conway, A. Evaluating the toxicological risk of UV filters to coral species. Society of Environmental Toxicology and Chemistry (Toronto, Canada), November 3-7, 2019.
74. Harris, L.; Hopanna, M.; Blaney, L. Photodegradation of tetracycline antibiotics at UV-254: Species-specific reaction kinetics. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 7, 2019.
75. Raphael, M.; Shashvatt, U.; Amurrio, F.; Blaney, L. Phosphorus recovery from wastewater by Donnan dialysis with reverse osmosis concentrate draw solutions. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 7, 2019.
76. Amurrio, F.; Shashvatt, U.; Raphael, M.; Blaney, L. Phosphorus recovery from poultry litter and wastewater sludge using Donnan dialysis. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 7, 2019.
77. Sloan, C.; Oliver, Z.; Portner, C.; Shashvatt, U.; Fleming, M.; Blaney, L. Pressurized carbon dioxide reactor for nutrient extraction from poultry litter. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 7, 2019.

78. Oliver, Z.; Fleming, M.; Portner, C.; Blaney, L. Using chitosan to improve separation of nutrient-deficient poultry litter solids and nutrient-enriched water in the phosphorus extraction and recovery system. 2019 SURF Conference (Baltimore, MD), August 7, 2019.
79. Diaz, E.; Batista-Andrade, J.A.; Hain, E.; He, K.; Blaney, L. Optimization of excitation-emission fluorescence spectroscopy for characterization of dissolved organic matter in Baltimore streams. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 7, 2019.
80. Shashvatt, U.; Portner, C.; Benoit, J.; Fleming, M.; Aris, H.; Musa, S.; Boby, A.; Blaney, L. Novel processes to recover nutrients from human urine and poultry litter and ensure resource sustainability in urban systems. International Conference on Resource Sustainability (Adelaide, Australia), July 1, 2019.
81. Harris, L.; Hopanna, M.; Ibitoye, T.; Blaney, L. Photodegradation of sulfonamide antibiotics: Apparent reaction kinetics and identification of transformation products. Spring ACS Middle Atlantic Region Meeting (Baltimore, MD), May 30, 2019.
82. Feerick, A.; Hain, E.; He, K.; Blaney, L. Spatiotemporal analysis of contaminants of emerging concern in the Choptank River. Spring ACS Mid-Atlantic Regional Meeting (Baltimore, MD), May 30, 2019.
83. Batista-Andrade, J.A.; Hain, E.; He, K.; Blaney, L. Determination of eight UV-filters in surface water samples using dispersive liquid-liquid microextraction with high performance liquid chromatography and UV detection. Spring ACS Mid-Atlantic Regional Meeting (Baltimore, MD), May 30, 2019.
84. Fleming, M.; Ndalamba, O.; Portner, C.; Blaney, L. Improving phosphate recovery from poultry litter extracts through chitosan and bentonite addition during struvite precipitation. 2019 Mid-Atlantic Prep & IMSD Research Symposium Annual Meeting (Wake Forest University, NC), May 22-23, 2019.
85. Blaney, L.; Bartelt-Hunt, S.; Ducoste, J.; Trotz, M. Contextualizing diversity in environmental engineering: Impact of local demographics, institution types, and program ranks. 2019 Association of Environmental Engineering and Science Professors Meeting (Tempe, AZ), May 16, 2019
86. Hopanna, M.; He, K.; Mikal, C.; Blaney, L. Phototransformation of organometallics, an understudied class of increasingly important biologically-active molecules. 2019 Association of Environmental Engineering and Science Professors Meeting (Tempe, AZ), May 14-16, 2019
87. Shashvatt, U.; Boby, A.; Blaney, L. Potential of Donnan dialysis for the recovery of ammonium, potassium and phosphorus from source-separated urine. 2019 Association of Environmental Engineering and Science Professors Meeting (Tempe, AZ), May 14-16, 2019
88. Portner, C.; Fleming, M.; Shashvatt, U.; Musa, S.; Blaney, L. Optimization of an automated, pilot-scale reactor for struvite recovery from poultry litter. 2019 CWEA/CSAWWA Joint Spring Meeting (Crofton, MD), May 9, 2019.
89. Fleming, M.; Ndalamba, O.; Portner, C.; Blaney, L. Improving phosphate recovery from poultry litter extracts through chitosan and bentonite addition during struvite precipitation. 2019 CWEA/CSAWWA Joint Spring Meeting (Crofton, MD), May 9, 2019.
90. Shashvatt, U.; Boby, A.; Blaney, L. Nutrient recovery from anthropogenic waste streams using Donnan dialysis. Chesapeake Section of the American Water Works Association spring meeting (Crofton, MD), May 9, 2019.
91. Hopanna, M.; He, K.; Jones, L.; Blaney, L. Residual toxicity of triphenyltin hydroxide and its transformation products in UV-254 and UV-H_2O_2 processes. Chesapeake Section of the American Water Works Association spring meeting (Crofton, MD), May 9, 2019.

92. Mikal, C.; Hopanna, M.; Blaney, L. Sorption of organometallic compounds to dissolved organic matter. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2019.
93. Boby, A.; Shashvatt, U.; Blaney, L. Recovery of nutrients from human urine using Donnan dialysis. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2019.
94. Ndalamba, O.; Fleming, M.; Blaney, L. The effects of ferric chloride, chitosan, and aluminum sulfate coagulants on struvite particle size. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2019.
95. Feerick, A.; Hain, E.; He, K.; Blaney, L. Spatiotemporal analysis of contaminants of emerging concern in the Choptank River. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2019.
96. Harris, L.; Hopanna, M.; Ibitoye, T.; Blaney, L. Photodegradation of sulfonamide antibiotics: Apparent reaction kinetics and identification of transformation products. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2019.
97. Ibitoye, T.; Anger, B.; Hain, E.; Hopanna, M.; Blaney, L. Phototransformation of macrolide antibiotics in UV-254 systems and characterization of residual antimicrobial activity. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2019.
98. Shashvatt, U.; Boby, A.; Blaney, L. Modeling transport of P(V) ions across anion exchange membranes for nutrient recovery via electrochemical potential gradients in Donnan dialysis. Spring 2019 ACS National Meeting (Orlando, FL), April 4, 2019.
99. Hopanna, M.; He, K.; Jones, L.; Blaney, L. Residual toxicity of triphenyltin hydroxide and its transformation products in UV-254 and UV-H_2O_2 processes. Spring 2019 ACS National Meeting (Orlando, FL), April 2, 2019.
100. Hain, E.; He, K.; Batista Andrade, J.A.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney, L. Contaminants of emerging concern in Chesapeake Bay rivers fed by urban and agricultural areas. Spring 2019 ACS National Meeting (Orlando, FL), April 2, 2019.
101. Fleming, M.; Ndalamda, O.; Portner, C.; Blaney, L. Improving phosphate recovery from poultry litter extracts through chitosan and bentonite addition during struvite precipitation. Spring 2019 ACS National Meeting (Orlando, FL), April 2, 2019.
102. Ibitoye, T.; Anger, B.; Hopanna, M.; Hain, E.; Harris, L.; He, K.; Blaney, L. Phototransformation and residual antimicrobial activity of five macrolide antibiotics in UV-254 engineered systems. Spring 2019 ACS National Meeting (Orlando, FL), April 2, 2019.
103. Chen, P.; Blaney, L.; Cagnetta, G.; Huang, J.; Wang, B.; Wang, Y.; Deng, S.; Yu, G. Degradation of ofloxacin by perylene diimide supramolecular nanofiber sunlight-driven photocatalysis. Spring 2019 ACS National Meeting (Orlando, FL), April 2, 2019.
104. Hopanna, M.; Blaney, L. Assessing the suitability of traditionally employed reactive species sensitizers and probes to study photochemical reaction kinetics of ebselen, an organoselenium compound. Spring 2019 ACS National Meeting (Orlando, FL), April 1, 2019.
105. He, K.; Feerick, A.; Jin, H.; Blaney, L. Retention of per- and polyfluoroalkyl substances during filtration: Implications for proper sample pretreatment. Spring 2019 ACS National Meeting (Orlando, FL), April 1, 2019.
106. Portner, C.; Fleming, M.; Shashvatt, U.; Musa, S.; Blaney, L. Optimization of an automated, pilot-scale reactor for struvite recovery from poultry litter. Spring 2019 ACS National Meeting (Orlando, FL), April 1, 2019.

107. Batista-Andrade, J.A.; He, K.; Hain, E.; Feerick, A; Blaney, L. Determination of eight UV-filters in surface waters using dispersive liquid-liquid microextraction with high-performance liquid chromatography and UV detection. UMBC Graduate Experience, Achievements, and Research Symposium (Baltimore, MD), March 27, 2019.
108. Hain, E.; He, K.; Batista-Andrade, J. A.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney L. Contaminants of emerging concern and source-tracking in Chesapeake Bay rivers. UMBC Graduate Experiences, Achievements, and Research Symposium (Baltimore, MD), March 27, 2019.
109. Fleming, M.; Ndalamba, O.; Portner, C.; Blaney, L. Improving phosphate recovery from poultry litter extracts through chitosan and bentonite addition during struvite precipitation. UMBC Graduate Experiences, Achievements, and Research Symposium (Baltimore, MD), March 27, 2019.
110. Hopanna, M.; He, K; Jones, L; Blaney, L. Triphenyltin hydroxide degradation in the UV-254 and UV-H_2O_2 processes produce toxic transformation products. UMBC Graduate Experience, Achievements & Research Symposium, (Baltimore, MD), March 27, 2019.
111. Feerick, A.; Hain, E.; He, K.; Blaney, L. Detection of Contaminants of Emerging Concern in Water and Oysters from the Potomac River. 2019 AAAS Annual Meeting (Washington, DC), February 14-17, 2019.
112. Adams, D.H.*; He, K.*; Hain, E.; Batista Andrade, J.A.; Feerick, A.; Blaney, L. Accumulation of organic sunscreen chemicals in sharks and teleost fishes. 2019 Indian River Lagoon Symposium (Fort Pierce, Florida), February 7-8, 2019. (* co-first authors)
113. He, K.; Hain, E.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney, L. Spatially-resolved occurrence of contaminants of emerging concern in Chesapeake Bay (USA) water, sediment, and oysters. Croucher Advanced Study Institute on Global Water Security: Integrated Modeling and Adaptive Management, Hong Kong University of Science and Technology (Hong Kong), January 8-11, 2019.
114. He, K.; Hain, E.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney, L. Occurrence and spatial distribution of contaminants of emerging concern in Chesapeake Bay water, sediment, and oysters. 2018 Society of Environmental Toxicology and Chemistry North America Annual Meeting (Davis, CA), November 8, 2018.
115. Mitchelmore, C.; He, K.; Hain, E.; Feerick, A.; Clark, C.; Younger, R.; Gonsior, M.; Blaney, L. Concentration of UV-filters in surface water, sediment, and coral tissue (*Porites* spp.) from Oahu, Hawaii. 2018 Society of Environmental Toxicology and Chemistry North America Annual Meeting (Davis, CA), November 8, 2018.
116. Feerick, A.; Hain, E.; He, K.; Blaney, L. Detection of Contaminants of Emerging Concern in Water and Oysters from the Potomac River. 21st Undergraduate Research Symposium in the Chemical and Biological Sciences (Baltimore, MD), October 20, 2018.
117. Musa, S.; Portner, C.; Shahsvatt, U.; Benoit, J.; Blaney, L. Optimizing and automating the phosphorus extraction and recovery system (PEARS). 26th Annual UMBC McNair Scholars Conference (Baltimore, MD), September 22, 2018.
118. Mitchelmore, C.; He, K.; Hain, E.; Feerick, A.; Clark, C.; Younger, R.; Gonsior, M.; Blaney, L. Concentration of UV-filters in surface water, sediment, and coral tissue (*Porites* spp.) from Oahu, Hawaii. The 11th Society of Environmental Toxicology and Chemistry – Asia Pacific 2018 (Daegu, Korea), September 16-19, 2018.
119. He, K.; Hain, E.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney, L. Spatially-resolved occurrence of contaminants of emerging concern in Chesapeake Bay water, sediment, and oysters. Environmental Sciences: Water, Gordon Research Conference (Holderness, NH), June 24-29, 2018.

120. Barbosa, M.O.; Ribeiro, A.R.; Ratola, N.; Hain, E.; Homem, V.; Pereira, M.F.R.; Blaney, L.; Silva, A.M.T. Emerging and priority micropollutants: Seasonal occurrence in Portuguese rivers. 40th International Conference on Environmental & Food Monitoring (Santiago de Compostela, Spain), June 19-22, 2018.
121. Shashvatt, U.; Blaney, L. INFEWS N/P/H2O: Development of Sustainable Nutrient Extraction and Recovery Devices (NERDs) for Municipal and Agricultural Wastewater. Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS) 2018 Principal Investigators Workshop (Alexandria, VA), May 16-18, 2018.
122. Hain, E.R.; Ibitoye, T.; Hopanna, M.; Anger, B.; He, K.; Blaney, L. Characterization of the residual antimicrobial activity of antibiotics and their transformation products in UV-254 and UV-H_2O_2 processes. Chesapeake Section of the American Water Works Association spring meeting (Chevy Chase, MD), May 10, 2018.
123. Hopanna, M.; Blaney, L. Photochemistry of organo-selenium and -tin compounds in engineered and natural systems. Chesapeake Section of the American Water Works Association spring meeting (Chevy Chase, MD), May 10, 2018.
124. Aris, H.; Shashvatt, U.; Blaney, L. Characterization of cation exchange membrane for implementation in resource recovery systems. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 25, 2018.
125. Ibitoye, T.; Hopanna, M.; Blaney, L. Phototransformation of five macrolide antibiotics in the UV-254 engineered system. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 25, 2018.
126. Hain, E.; Adejumo, H.; Blaney, L. Antimicrobial susceptibility and stress responses in *Pseudomonas fluorescens* as metrics for assessing impacts of antibiotics in the environment. Spring 2018 Maryland Section ACS Student Awards Meeting (Baltimore, MD), April 8, 2018.
127. Hopanna, M.; Steinly, S.; Blaney, L. Comparative study of the photochemical fate of ebselen and its carbon analog during direct and indirect photolysis. Spring 2018 Maryland Section ACS Student Awards Meeting (Baltimore, MD), April 8, 2018.
128. Portner, C.; Shashvatt, U.; Lopresti, S.; Benoit, J.; Blaney, L. Sustainable nutrient recovery from urine. USA Science & Engineering Festival (Washington, DC), April 7-8, 2018.
129. Hain, E.; Adejumo, H.; Blaney, L. Antimicrobial susceptibility and stress responses in *Pseudomonas fluorescens* as metrics for assessing impacts of antibiotics in the environment. 40th Annual UMBC Graduate Research Conference (Baltimore, MD), March 28, 2018.
130. Shashvatt, U.; Portner C.; Benoit, J.; Blaney, L. Recovery of phosphorus from synthetic wastewater using the Donnan Membrane Principle. 40th Graduate Research Conference (Baltimore, MD), March 28, 2018.
131. Hopanna, M.; Steinly, S.; Blaney, L. Assessing the photochemical transformation kinetics of ebselen and its carbon analog during direct and indirect photolysis. 40th UMBC Graduate Research Conference (Baltimore, MD), March 28, 2018.
132. Hain, E.R.; Adejumo, H.A.; Blaney, L. Antimicrobial susceptibility, stress responses, and hormesis in Pseudomonas fluorescens as metrics for assessing impacts of antibiotics in the environment. Spring 2018 ACS National Meeting (New Orleans), March 21, 2018.
133. Hopanna, M.; Steinly, S.; Blaney, L. Comparative study of the photochemical fate of ebselen and its carbon analog during direct and indirect photolysis. Spring 2018 ACS National Meeting (New Orleans), March 21, 2018.
134. Shashvatt, U.; Aris, H.; Musa, S.; Portner, C.; Blaney, L. Using ion exchange membranes to recover phosphorus from wastewater. Spring 2018 ACS National Meeting (New Orleans), March 19, 2018.

135. He, K.; Hain, E.R.; Timm, A.; Woytowitz, E.; Tarnowski, M.; Blaney, L. Spatial analysis of contaminants of emerging concern in Chesapeake Bay water, sediment, and oysters. Spring 2018 ACS National Meeting (New Orleans), March 19, 2018.
136. Shashvatt, U.; Portner, C.; Musa, S.; Aris, H.; Blaney, L. Application of physical/chemical treatment processes to agricultural waste: Recovering nutrient-laden particles from poultry litter. Spring 2018 ACS National Meeting (New Orleans), March 18, 2018.
137. Ireland, D.T.; Rheingans, P.; Bielawski, C.; Blaney, L.; Luster, A.; Seaman, C.; Shishineh, L.; Stokeling, S. Forging Pathways: Reflections on Year One of a Post-Transfer Pathways Program for Computing and Engineering Majors. 2018 SIGCSE NSF Project Showcase (Baltimore, MD).
138. He, K.; Hain, E.; Blaney, L. Seasonal analysis of contaminants of emerging concern in the Gwynns Falls watershed. Baltimore Ecosystem Study Annual Meeting (Baltimore, MD), October 26, 2017.
139. Mikal, C.; Hain, E.; Hopanna, M.; Blaney, L. The absorbance characteristics of five UV-filters used in common sunscreen products. UMBC 20th Summer Undergraduate Research Fest (Baltimore, MD), August 9, 2017.
140. Steinly, S.; Hopanna, M.; Blaney, L. Direct and indirect photolysis of organoselenium compounds at 310-410 nm. UMBC 20th Summer Undergraduate Research Fest (Baltimore, MD), August 9, 2017.
141. Musa, S.; Portner, C.; Shahsvatt, U.; Benoit, J.; Blaney, L. Optimizing and automating the phosphorus extraction and recovery system (PEARS). UMBC 20th Summer Undergraduate Research Fest (Baltimore, MD), August 9, 2017.
142. Blaney, L.; He, K. Expanding environmental monitoring campaigns: Contaminants of emerging concern are also present in "unimpacted" watersheds. National Environmental Monitoring Conference (Washington, DC), August 7, 2017.
143. He, K.; Timm, A.; Blaney, L. Simultaneous determination of UV-filters and estrogens in aquatic invertebrates by modified QuEChERS extraction and liquid chromatography tandem mass spectrometry. National Environmental Monitoring Conference (Washington, DC), August 7, 2017.
144. Ireland, D.; Rheingans, P.; Blaney, L.; Laberge, E.F.C.; Slaughter, G.; Spence, A. T-SITE: A UMBC Community of Transfer Scholars in Computing, Information Technology, and Engineering. 2017 ASEE Annual Conference & Exposition (Columbus, Ohio), June 26, 2017.
145. Mangalgiri, K.P.; Blaney, L. Poultry litter dissolved organic matter: PARAFAC analysis and role in photolysis of antibiotics. Association of Environmental Engineering and Science Professors Research and Education Conference (Ann Arbor, MI), June 22, 2017.
146. Blaney, L.; Kandiah, R.; Ducoste, J.J.; Perlinger, J.A.; Bartelt-Hunt, S.L. (2016). Association of Environmental Engineering and Science Professors Research and Education Conference (Ann Arbor, MI), June 22, 2017.
147. Mangalgiri, K.P.; Timko, S.A.; Gonsior, M.; Blaney, L. (2017). PARAFAC modeling of irradiation- and oxidation-induced changes in fluorescent dissolved organic matter extracted from poultry litter. Association of Environmental Engineering and Science Professors Research and Education Conference (Ann Arbor, MI), June 21, 2017.
148. He, K.; Timm, A.; Blaney, L. Simultaneous determination of UV-filters and estrogens in aquatic invertebrates by modified QuEChERS extraction and liquid chromatography tandem mass spectrometry. The 13th Annual LC-MS/MS Workshop on Environmental and Food Safety (Buffalo, NY), June 12, 2017.

149. Aris, H.; Shashvatt, U.; Benoit, J.; Blaney, L. Maximizing phosphorus recovery from chicken litter in a continuous process. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 26, 2017.
150. Ocasio, D.; Mangalgiri, K.; Ibitoye, T.; Blaney, L. UV-driven antibiotic-to-antibiotic transformation pathways and kinetics of sulfonamides. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 26, 2017.
151. Steinly, S.; Hopanna, M.; Mangalgiri, K.; Blaney, L. Direct and indirect photolysis of organometallic compounds. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 26, 2017.
152. Shashvatt, U.; Blaney, L. Application of the Donnan membrane principle for sustainable nutrient recovery. Spring 2017 ACS National Meeting (San Francisco, CA), April 6, 2017.
153. Sengupta, S.; Beaudry, J.; Shashvatt, U.; Blaney, L. Two-stage process for phosphorus extraction and recovery from agricultural waste. Spring 2017 ACS National Meeting (San Francisco, CA), April 6, 2017.
154. Shashvatt, U.; Benoit, J.; Aris, H.; Blaney, L. Recovering high-quality phosphorus- and nitrogen-laden fertilizers from poultry litter. Spring 2017 ACS National Meeting (San Francisco, CA), April 6, 2017.
155. Mangalgiri, K.P.; Blaney, L. Effect of agricultural dissolved organic matter on the photolytic fate of poultry antibiotics. Spring 2017 ACS National Meeting (San Francisco, CA), April 5, 2017.
156. Hopanna, M.; Steinly, S.; Blaney, L. Photolytic fate of organo-selenium and -tin chemicals and their carbon analogs in the natural environment. Spring 2017 ACS National Meeting (San Francisco, CA), April 5, 2017.
157. Ocasio, D.; Adejumo, H.; Mangalgiri, K.P.; He, K.; Blaney, L. UV-driven antibiotic-to-antibiotic transformation pathways and kinetics of sulfonamides. Spring 2017 ACS National Meeting (San Francisco, CA), April 5, 2017.
158. Mangalgiri, K.P.; Timko, S.; Gonsior, M.; Blaney, L. PARAFAC analysis of irradiation- and oxidation-induced changes in fluorescent dissolved organic matter extracted from poultry litter. Spring 2017 ACS National Meeting (San Francisco, CA), April 2, 2017.
159. He, K.; Timm, A.; Blaney, L. Bioaccumulation and estrogenicity of hormones and UV-filters in *Procambarus clarkii*. Spring 2017 ACS National Meeting (San Francisco, CA), April 2, 2017.
160. He, K.; Rogers, N.; Blaney, L. Using fluorescent dissolved organic matter and contaminants of emerging concern to identify leaking wastewater collection systems. Spring 2017 ACS National Meeting (San Francisco, CA), April 2, 2017.
161. Hopanna, M.; Steinly, S.; Blaney, L. Photochemical behavior of organo-selenium and -tin compounds and their carbon analogs under simulated solar irradiance. 39th UMBC Graduate Research Conference (Baltimore, MD), March 29, 2017.
162. Shashvatt, U.; Benoit, J.; Aris, H.; Blaney, L. Development of a phosphorus extraction and recovery system to recover phosphorus from poultry litter. 39th Graduate Research Conference (Baltimore, MD), March 29, 2017.
163. Adejumo, H.A., He, K., Blaney, L. Impact of antibiotic contaminants on environmental microorganisms: antimicrobial activity and antimicrobial resistance in natural and engineered environments. Society of Toxicology 56th Annual Meeting and ToxExpo (Baltimore, MD), March 15, 2017.
164. Aris, H.; Shashvatt, U.; Benoit, J.; Blaney, L. Recovery of nutrients from chicken litter to create a slow release fertilizer. 19th College of Natural and Mathematical Sciences Undergraduate Research Symposium, (Baltimore, MD), October 21, 2016.

165. Adejumo, H.; He, K.; Mangalgiri, K.; Blaney, L. Identifying implications of antibiotics during ultraviolet disinfection: antimicrobial activity and antimicrobial resistance in wastewater treatment. Tri-Association Conference (Ocean City, MD), August 31, 2016.
166. Mangalgiri, K.; Blaney, L. Photolytic fate of poultry antibiotics in agricultural wastewater. 252nd American Chemical Society Annual Meeting (Philadelphia, PA), August 24, 2016.
167. Hopkins, Z.R.; Snowberger, S.; Blaney, L. Ozonation of the oxybenzone, octinoxate, and octocrylene UV-filters: Reaction kinetics, absorbance characteristics, and transformation products. 252nd American Chemical Society Annual Meeting (Philadelphia, PA), August 21, 2016.
168. Ibitoye, T.; Mangalgiri, K.P.; Blaney, L. Spectrophotometric determination of acid dissociation constants of antibiotics. UMBC 19th Summer Undergraduate Research Fest (Baltimore, MD), August 10, 2016.
169. Blaney, L.; Mangalgiri, K.P.; Adejumo, H.A.; Ocasio, D.; He, K. Transformation of fluoroquinolone, tetracycline, and sulfonamide antibiotics at 253.7 nm: Generation of antimicrobially active transformation products. Gordon Research Conference (Holderness, NH), June 26, 2016.
170. Benoit, J.; Shashvatt, U.; Aris, H.; Blaney, L. Preferential formation of struvite from poultry litter. 19th Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 27, 2016.
171. Aris, H.; Shashvatt, U.; Benoit, J.; Blaney, L. Recovery of Nutrients from Chicken Litter to Create a Slow-release Fertilizer. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 27, 2016.
172. Ocasio, D.; Mangalgiri, K.; Blaney, L. Photokinetic Determination of Environmentally Relevant Pharmaceuticals for UV-Based Applications in Treatment Facilities. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 27, 2016.
173. Steinly, S.; Hopanna, M.; Mangalgiri, K.; Blaney, L. Mapping the Specific Molar Extinction Coefficients of Organometallic Compounds. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 27, 2016.
174. He, K.; Timm, A.; Welty, C.; Blaney, L. Analysis of multiple estrogens and UV filters in biota tissue samples by a simple liquid extraction followed by SPE-LC-MS/MS. 38th UMBC Graduate Research Conference (Baltimore, MD), March 23, 2016.
175. Mangalgiri, K.; Ocasio, D.; Adak, A.; Blaney, L. Role of dissolved organic matter on UV transformation of antibiotics in agriculture-impacted water. 38th UMBC Graduate Research Conference (Baltimore, MD), March 23, 2016.
176. Shashvatt, U., Roger, N., Aris, H., Benoit, J., Blaney, L., Development of an automated nutrient recovery process for recovering phosphorus from poultry litter. 38th Annual Graduate Research Conference (Baltimore, MD), March 23, 2016.
177. Hopanna, M.; Blaney, L. Development of novel LC-DAD-MS/MS analytical methods for organometallic chemicals. 38th UMBC Graduate Research Conference (Baltimore, MD), March 23, 2016.
178. Mangalgiri, K.P.; Adejumo, H.A.; Ocasio, D.; He, K.; Blaney, L. Transformation of fluoroquinolone, tetracycline, and sulfonamide antibiotics at 253.7 nm: Generation of antimicrobially active transformation products. 251st American Chemical Society Annual Meeting (San Diego, CA), March 14, 2016.
179. Shashvatt, U.; Rogers, N.; Aris, H.; Blaney, L. Recovering phosphorus from poultry litter: A step towards improving food security and protecting ecologically sensitive water bodies. 251st American Chemical Society Annual Meeting (San Diego, CA), March 14, 2016.

180. Adejumo, H.A.; He, K.; Blaney, L. Antimicrobial activity of fluoroquinolone, sulfonamide, and tetracycline antibiotics: Implications for environmental relevance. 251st American Chemical Society Annual Meeting (San Diego, CA), March 16, 2016.
181. He, K.; Timm, A.; Welty, C.; Blaney, L. Multi-residue analysis of contaminants of emerging concern (CECs) in water and tissue samples from a freshwater environment by modified QuEChERS extraction followed by SPE-LC-MS/MS. 251st American Chemical Society Annual Meeting (San Diego, CA), March 16, 2016.
182. He, K.; Timm, A.; Welty, C.; Blaney, L. Occurrence of estrogenic hormones and UV filters in an urban watershed in Baltimore, MD. 2015 Baltimore Ecosystem Study Annual Meeting (Baltimore, MD), October 20, 2015.
183. Adejumo, H.A.; He, K.; Blaney, L. Fluoroquinolone-resistant bacteria and gene distribution in a Maryland wastewater treatment plant and receiving water. Naval Academy Science and Engineering Conference (Annapolis, MD), November 8-10, 2015.
184. Shashvatt, U.; Blaney, L. Preventing nutrient influx into coastal watersheds by recovering nutrients from poultry litter. 2015 Geological Society of America Meeting (Baltimore, MD), November 4, 2015.
185. Mangalgiri K.P.; Rogers, N; Dawkins, K.; Ocasio, D.; Blaney, L. Characterizing effects of advanced oxidation on dissolved organic matter in agriculturally-impacted surface water using PARAFAC. UMBC Research Forum (Baltimore, MD), October 30, 2015.
186. Adejumo, H.A.; He, K.; Blaney, L. Fluoroquinolone-resistant bacteria and gene distribution in a Maryland wastewater treatment plant and receiving water. 18th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences (Baltimore, MD), October 3, 2015.
187. Mangalgiri K.P.; Ocasio, D.; Adak, A.; Blaney, L. Role of dissolved organic matter on UV transformation of antibiotics in agriculture-impacted water supplies. International Water Association Natural Organic Matter 6 Conference (Malmo Sweden), September 10, 2015
188. Mangalgiri K.P.; Rogers, N; Dawkins, K.; Ocasio, D.; Blaney, L. Characterizing effects of advanced oxidation on dissolved organic matter in agriculturally-impacted surface water using PARAFAC. International Water Association Natural Organic Matter 6 Conference (Malmo Sweden), September 8, 2015
189. Rogers, N.; He, K.; Welty, C.; Blaney, L. Using EEM analysis to identify and characterize the impacts of leaking wastewater infrastructure on urban water resources. International Water Association Natural Organic Matter 6 Conference (Malmo Sweden), September 8, 2015
190. Shashvatt, U.; Mangalgiri, K.P.; Blaney, L. Recovering phosphorus from poultry litter: Impact of organic matter on recovery. 250th American Chemical Society Annual Meeting (Boston, MA), August 20, 2015.
191. He, K.; Timm, A.; Welty, C.; Blaney, L. Determination of antibiotics, estrogenic hormones, and UV filters in water, sediment, and crayfish from an urban watershed. 250th American Chemical Society Annual Meeting (Boston, MA), August 18, 2015.
192. Adak, A.; Mangalgiri, K.P.; Lee, J.; Blaney, L. Transformation of organoarsenicals in water using the UV and UV-H_2O_2 systems. 250th American Chemical Society Annual Meeting (Boston, MA), August 18, 2015.
193. Adejumo, H.A.; He, K.; Blaney, L. Fluoroquinolone-resistant bacteria and gene distribution in a Maryland wastewater treatment plant and receiving water. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 5, 2015.

194. Rubin, G.; Mangalgiri, K.P.; Blaney, L. pH-Dependent Absorbance Behavior of Antibiotic Pharmaceuticals. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 5, 2015.
195. Mangalgiri, K.P.; Shashvatt, U.; Blaney, L. Phosphorus recovery from poultry litter using a two-stage treatment process. Association of Environmental Engineering and Science Professors Research and Education Conference (New Haven, CT), June 15, 2015.
196. Adejumo, H.A.; He, K.; Blaney, L. Occurrence and distribution of quinolone resistance in Baltimore wastewater. BEACON Center for the Study of Evolution in Action seminar, July 10, 2015.
197. Blaney, L.; Bartelt-Hunt, S.; Kandiah, R.; Niemeier, D. Assessing the growth and demographics of environmental engineering from 2005 to 2013. Association of Environmental Engineering and Science Professors Research and Education Conference (New Haven, CT), June 15, 2015.
198. Adejumo, H.A.; He, K.; Blaney, L. Occurrence and distribution of quinolone resistance in Baltimore wastewater. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2015.
199. Lee, J.; Blaney, L. Absorbance of pharmaceuticals exposed to ultraviolet (UV) light as a function of pH, treatment level, and wavelength. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2015.
200. Rogers, N.; Blaney, L. Using excitation-emission matrix analysis to characterize the impact of leaking wastewater on urban water resources. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 22, 2015.
201. He, K.; Blaney, L. Simultaneous determination of antibiotics, estrogens, and UV filters in two subwatersheds near Baltimore. 37th UMBC Graduate Research Conference (Baltimore, MD), March 25, 2015.
202. Mangalgiri, K.P.; Blaney, L. Fate of Antibiotics used in Poultry Industry in Phosphate Recovery Processes. 37th UMBC Graduate Research Conference (Baltimore, MD), March 25, 2015.
203. Kelly, J.; Rosi-Marshall, E.; Blaney, L. Effects of pharmaceuticals on benthic microbial communities within the Baltimore Ecosystem Study. Baltimore Ecosystem Study Long-Term Ecological Research Program Annual Meeting (Baltimore, MD), October 22-23, 2014.
204. Dawkins, K.; Hopkins, Z.; Blaney, L. Ozonation of oxybenzone in alkaline water. Annual Biomedical Research Conference for Minority Students (San Antonio, TX), November 15, 2014.
205. Rogers, N.; Blaney, L. FEEM characterization of surface waters along a rural-to-urban gradient in Baltimore. 17th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences (Baltimore, MD), October 25, 2014.
206. Blaney, L.; Mangalgiri, K.; Adak, A. Treatment of agricultural wastewater containing organoarsenicals using UV-based processes. 2014 Tri-Association Conference (Ocean City, MD), August 28, 2014.
207. Adak, A.; Mangalgiri, K.; He, K.; Blaney, L. Photochemical UV-H_2O_2 system for oxidation of organoarsenicals in agricultural wastewater. 248th American Chemical Society Annual Meeting (San Francisco, CA), August 13, 2014.
208. He, K.; Blaney, L. Determination of fluoroquinolone antibiotics in wastewater by solid-phase extraction high performance liquid chromatography with fluorescence detection. 248th American Chemical Society Annual Meeting (San Francisco, CA), August 13, 2014.

209. He, K.; Snowberger, S.; Blaney, L. Occurrence and elimination of fluoroquinolone antibiotics in an advanced water reclamation plant. 248th American Chemical Society Annual Meeting (San Francisco, CA), August 12, 2014.
210. Dawkins, K.; Hopkins, Z.; Blaney, L. Ozonation of oxybenzone in alkaline water. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 6, 2014.
211. Rogers, N.; Blaney, L. FEEM characterization of surface waters along a rural-to-urban gradient in Baltimore. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 6, 2014.
212. Snowberger, S.; He, K.; Soares, A.D.; Blaney, L. Identification of potent transformation products of fluoroquinolone antibiotics formed during water treatment. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 23, 2014.
213. Shah, A.; Blaney, L. Removal of moxifloxacin from wastewater by adsorption onto activated carbon. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 23, 2014.
214. Adejumo, H.; Bondoc, M.; Hughes, D.; Blaney, L. Evaluating the efficiency of low-tech processes in removing bacterial contaminants from drinking water supplies. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 23, 2014.
215. Adejumo, H., Blaney, L. Antimicrobial activity of fluoroquinolone antibiotics for UV-based wastewater treatment. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD). April 23, 2014.
216. Mangalgiri, K.; Lee, J.; Blaney, L. Development of a novel SPE-LC-ESI-MS/MS method for analysis of organoarsenicals in water. 247th American Chemical Society Annual Meeting (Dallas, TX), March 19, 2014.
217. Mangalgiri, K.; Lee, J.; Blaney, L. Photodegradation of organoarsenicals in agricultural waste. 247th American Chemical Society Annual Meeting (Dallas, TX), March 17, 2014.
218. He, K.; Blaney, L. Adsorption and biodegradation of fluoroquinolone antibiotics in the activated sludge treatment. 36th UMBC Graduate Research Conference (Baltimore, MD), March 16, 2014.
219. Mangalgiri, K.P.; Lee, J.; Blaney, L. Photodegradation of organoarsenicals in agricultural waste. 36th UMBC Graduate Research Conference (Baltimore, MD), March 16, 2014.
220. Hopkins, Z.R.; Blaney, L. Ozone treatment of oxybenzone: Transformation kinetics and removal of UV absorbance. 36th UMBC Graduate Research Conference (Baltimore, MD), March 16, 2014.
221. Shah, A.; He, K.; Blaney, L. Moxifloxacin in wastewater: Detection and treatment using powdered activated carbon. Annual Biomedical Research Conference for Minority Students (Nashville, TN), November 16, 2013.
222. Snowberger, S.; He, K.; Blaney, L. UV-based treatment of fluoroquinolone antibiotics in wastewater. American Institute of Chemical Engineers Annual Meeting (San Diego, CA), November 11, 2013.
223. He, K.; Blaney, L. Detection of fluoroquinolone antibiotics in Maryland wastewater and surface water. Baltimore Ecosystem Study Long-Term Ecological Research Program Annual Meeting (Baltimore, MD), October 22, 2013.
224. Rosi-Marshall, E.J.; Bechtold, H.A.; Shogren, A.; Kelly, J.J.; Rojas, M.; Snow, D.; Blaney, L.; He, K. Occurrence and ecological effects of pharmaceuticals in BES streams. Baltimore Ecosystem Study Long-Term Ecological Research Program Annual Meeting (Baltimore, MD), October 22, 2013.

225. He, K.; Snowberger, S.; Blaney, L. Determination of fluoroquinolone antibiotics in wastewater and transformation by UV and UV-H_2O_2 processes. 87th Annual Water Environment Federation Technical Exhibition and Conference (Chicago, IL), Special AEESP Session, October 9, 2013.
226. He, K.; Perera, S.; Blaney, L. Adsorption of antibiotics onto activated sludge solids and powdered activated carbon. 2013 Tri-Association Conference (Ocean City, MD), August 30, 2013.
227. Shah, A., He, K.; Blaney, L. Moxifloxacin in wastewater: Detection and treatment using powdered activated carbon. UMBC Summer Undergraduate Research Fest (Baltimore, MD), August 7, 2013.
228. Burton, R.; Blaney, L. Removal of tetracycline antibiotics from water using the UV-H_2O_2 process. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2013.
229. Hopkins, Z.; Blaney, L. Ozone treatment of tetracycline antibiotics: Transformation and removal in water/wastewater matrices. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2013.
230. Snowberger, S.; Blaney, L. Wastewater treatment of fluoroquinolone antibiotics using UV-based processes. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2013.
231. Mullen, C.; Hughes, D.; Blaney, L. Development of a low-tech process for treating bacterial contaminants in an unprotected spring in Isongo, Kenya. UMBC Undergraduate Research and Creative Achievement Day (Baltimore, MD), April 24, 2013.
232. Snowberger, S.; Burton, R.; Blaney, L. UV and UV-H_2O_2 treatment of fluoroquinolone and tetracycline antibiotics. 245th American Chemical Society Annual Meeting (New Orleans, LA), April 11, 2013.
233. Hopkins, Z.; Blaney, L. Ozonation of tetracycline antibiotics: reaction kinetics. 245th American Chemical Society Annual Meeting (New Orleans, LA), April 8, 2013.
234. He, K.; Perera, S.; Blaney, L. Adsorption of fluoroquinolone antibiotics onto powdered activated carbon and activated sludge. 35th UMBC Graduate Research Conference (Baltimore, MD), February 20, 2013.
235. He, K.; Blaney, L. Adsorption of fluoroquinolone antibiotics onto activated sludge: Implications for biological wastewater treatment. American Institute of Chemical Engineers (Pittsburgh, PA), October 31, 2012.
236. Hopkins, Z.; Blaney, L. Ozone treatment of tetracycline antibiotics: Transformation and removal in water/wastewater matrices. American Institute of Chemical Engineers (Pittsburgh, PA), October 31, 2012.
237. Snowberger, S.; Blaney, L. Wastewater treatment of fluoroquinolone antibiotics using the UV-H_2O_2 advanced oxidation process. American Institute of Chemical Engineers (Pittsburgh, PA), October 31, 2012.
238. Blaney, L.M. Integrating environmental engineering concepts into chemical engineering curricula. American Society for Engineering Education Chemical Engineering Summer School (Orono, ME), July 22, 2012.
239. Byrnes, J.R.; Blaney, L.; Katz, L.E.; Wammer, K.H. Effects of ozonation on the antibacterial activity of the macrolide roxithromycin. American Chemical Society National Meeting (San Diego, CA), March 26, 2012.
240. Tenorio, R.; Lawler, D.F.; Blaney, L. Water treatment of pharmaceuticals: Reaction kinetics of ifosfamide and cyclophosphamide with ozone and hydroxyl radicals. Society of Hispanic Professional Engineers National Conference (Anaheim, CA), October 27, 2011.

241. Blaney, L.M.; Lawler, D.F.; Katz, L.E. Oxidation of erythromycin with aqueous ozone: Impact of organic matter on percent transformation and elimination of antimicrobial activity. American Chemical Society National Meeting (Anaheim, CA), March 29, 2011.
242. Blaney, L.M. Oxidation of pharmacologically active compounds: Impacts of organic matter and elimination of residual pharmacological activity. The University of Texas Environmental and Water Resources Engineering Seminar, January 27, 2011.
243. Blaney, L.M.; Marron, C.A.; Katz, L.E.; Lawler, D. F. Eliminating antimicrobial activity: Impact of indirect/ direct water reuse organic matter matrices. International Water Association Leading Edge Technology Conference (Phoenix, AZ), June 3, 2010.
244. Marron, C.A.; Blaney, L.M.; Lawler, D.F.; Katz, L.E. Kinetics of ciprofloxacin degradation by ozonation: Effects of natural organic matter, carbonate, and pH. International Water Association Leading Edge Technology Conference (Phoenix, AZ), June 2, 2010.
245. Blaney, L.M. Water For People: Inspiring sustainable development. The University of Texas Environmental and Water Resources Engineering Seminar, March 25, 2010.
246. Blaney, L.M.; Katz, L.E.; Lawler, D. F. Ozonation of two pharmacologically active compounds. American Chemical Society National Meeting (San Francisco, CA), March 23, 2010.
247. Blaney, L.M.; Katz, L.E.; Lawler, D. F. Advanced oxidation of pharmaceuticals: Treatment requirement as a function of residual pharmacological activity. Capital Area Chapter Texas American Water Works Association Annual Fall Seminar (Austin, TX), October 1, 2009.
248. Blaney, L.M.; Marron, C.A.; Katz, L.E.; Lawler, D. F. The impact of organic matter on advanced oxidation of pharmaceuticals and removal of residual pharmaceutical activity. American Chemical Society National Meeting (Washington, DC), August 19, 2009.
249. Blaney, L.M.; Lawler, D. F.; Katz, L.E. Ozonation of ciprofloxacin: Effect of organic matter on treatment efficiency, intermediate formation, and antibiotic activity. American Water Works Association Annual Convention and Exposition (San Diego CA), June 16, 2009.
250. Blaney, L.M.; Katz, L.E.; Lawler, D. F. Advanced oxidation of pharmaceuticals: Focusing on activity removal. American Water Works Association Research Symposium (Austin, TX), February 13, 2009.
251. Blaney, L.M.; Katz, L.E.; Lawler, D. F. Advanced oxidation of ciprofloxacin: Impact of organic matter and characterization of antibiotic activity. American Institute of Chemical Engineers Annual Meeting (Philadelphia, PA), November 18, 2008.
252. Blaney, L.M.; Katz, L.E.; Lawler, D.F. Advanced oxidation of ciprofloxacin: impact of organic matter and characterization of antibiotic activity. The University of Texas Environmental and Water Resources Engineering Seminar, November 13, 2008.
253. Blaney, L.M. Removal of surrogate NOM compounds towards reduction of disinfection by-product formation potential in water treatment plants. M.S. Thesis Presentation (Lehigh University), May 7, 2007.
254. Blaney, L.M.; Sarkar, S.; Greenleaf, J.; Chatterjee, P.; Ghosh, D.; Alam, M.; Gupta, A.; SenGupta, A.K. Containment of highly concentrated arsenic-laden spent regenerant on the Indian subcontinent. US Environmental Protection Agency P3 Award (Washington, DC), (Awarded Phase II funding), April 24-25, 2007.
255. Blaney, L.M.; Greenleaf, J.E.; Sarkar, S.; Chatterjee, P.; SenGupta, A.K. Arsenic crisis in Indian subcontinent: A *local* solution to a *global* problem. Lehigh University Engineering Research Poster Competition (Bethlehem, PA), February 12, 2007.

256. Blaney, L.M.; SenGupta, A.K. Effective disposal of arsenic-laden wastes in developed and developing world settings. Pennsylvania Water and Environment Association Annual Conference (State College, PA), July 17, 2006.
257. Blaney, L.M.; Greenleaf, J.E.; SenGupta, A.K.; Sarkar, S.; Gupta, A.; Biswas, R.K. Arsenic crisis in Indian subcontinent: A *local* solution to a *global* problem. American Water Works Association Annual Convention and Exposition (San Antonio, TX) Fresh Ideas Poster Contest (1st place), June 14, 2006.
258. Blaney, L.M.; Greenleaf, J.E.; SenGupta, A.K.; Sarkar, S.; Gupta, A.; Biswas, R.K. Arsenic crisis in Indian subcontinent: A *local* solution to a *global* problem. Pennsylvania Section American Water Works Association 2006 Conference (Hershey, PA), 1st place, April 26, 2006.
259. Blaney, L.M.; Greenleaf, J.; SenGupta, A.K. Synthesis of a polymeric hybrid ion exchanger with recovered iron(III) towards the removal of arsenic. US Environmental Protection Agency P3 Award (Washington, DC), May 16-17, 2005.
260. Blaney, L.M.; SenGupta, A.K. Reducing, reusing, and recycling on the *nano*-scale. The 13th Session of the United Nations Commission on Sustainable Development (New York, NY), April 20, 2005.

Other Professional Presentations

Invited and Keynote Lectures

1. NCSU seminar
2. Blaney, L. Innovative applications of ion-exchange membranes to address grand challenges in environmental engineering. New York University (Brooklyn, NY), May 16, 2023.
3. Blaney, L. Emerging contaminants *and* resources: Global challenges with environmental solutions. University of Illinois Chicago (Chicago, IL), March 1, 2023.
4. Blaney, L. Recovering nutrients from poultry litter with the Phosphorus Extraction and Recovery System (PEARS). Andrews University (Berrien Springs, MI), February 16, 2023.
5. Blaney, L. Per- and polyfluoroalkyl substances (PFAS): Passive samplers & nontargeted/bulk analysis. Chesapeake Bay Program, Toxic Contaminants Workgroup (virtual), February 8, 2023.
6. Blaney, L. Donnan dialysis: a sustainable approach to resource recovery. 3rd International Conference on Advanced Technologies for Industrial Pollution Control (Kolkata, India), December 21-23, 2022.
7. Blaney, L. Emerging contaminants *and* resources: Global challenges with environmental solutions. University of Hawai‘i at Mānoa (Mānoa, HI), May 20, 2022.
8. Blaney, L. Contaminants of emerging concern in “unimpacted” urban environments and their degradation by light-driven engineered processes. University of Michigan (virtual), February 15, 2022.
9. Chen, P.; Blaney, L.; Cagnetta, G.; Huang, J.; Wang, B.; Wang, Y.; Deng, S.; Yu, G. Degradation of ofloxacin by perylene diimide supramolecular nanofiber sunlight-driven photocatalysis. Symposium: Nanotechnology and its Applications, organized by Universidad de las Fuerzas Armadas and Centro de Nanociencia y Nanotecnología (virtual / Quito, Ecuador), October 13, 2021.
10. Blaney, L.; Hain, E.; Feerick, A.; He, K. UV filter occurrence in Chesapeake Bay water, sediment, and aquatic organisms. The National Academies of Sciences, Engineering, and Medicine, Meeting on Environmental Impact of Currently Marketed Sunscreens and Potential Human Impacts of Changes in Sunscreen Usage (virtual), May 27, 2021.

11. Blaney, L. Recovering nutrients from poultry litter with the Phosphorus Extraction and Recovery System (PEARS). Student Awards Ceremony Lecture, Maryland Section of the American Chemical Society (virtual), April 11, 2021.
12. Blaney, L.; Hain, E.; Feerick, A.; He, K. No shade: UV filters are widely present in water, sediment, and invertebrates. Spring 2021 ACS National Meeting, Great Achievements in ES&T: James J. Morgan Environmental Science & Technology Early Career Award Symposium (2021) James J. Morgan Environmental Science & Technology Early Career Award 2021 (virtual), April 5-16, 2021.
13. Blaney, L. Contaminants of emerging concern in the environment and their degradation by light-driven engineered processes. The University of Texas at Austin (Austin, TX), March 4, 2021.
14. Blaney, L. Occurrence of contaminants of emerging concern in the Chesapeake Bay watershed. Braude Award Lecture, Maryland Section of the American Chemical Society (virtual), October 22, 2020.
15. Blaney, L. The occurrence and fate of contaminants of emerging concern in urban water resources. Bangladesh University of Engineering and Technology (Dhaka, Bangladesh), March 5, 2020.
16. Blaney, L. The occurrence and fate of contaminants of emerging concern in urban water resources. Second ASCE Conference in India on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (Kolkata, India), March 4, 2020.
17. He, K.; Hain, E.; Feerick, A.; Timm, A.; Tarnowski, M.; Blaney, L. Occurrence of antibiotics, estrogenic hormones, and UV-filters in water, sediment, and oyster tissue from the Chesapeake Bay. National Oceanic and Atmospheric Administration (NOAA) Science Seminars (Silver Spring, MD), November 20, 2019.
18. Blaney, L. Development and application of LC-MS/MS methods for measurement of UV-filters (sunscreen agents) in water, sediment, and tissue samples. XIV Latin American Symposium on Environmental Analytical Chemistry (Bento Gonçalves-RS, Brazil), November 7, 2019.
19. Blaney, L. Contaminants of emerging concern in the environment and their degradation by light-driven engineered processes. University of the Philippines Diliman (Quezon City, Philippines), June 10, 2019.
20. Blaney, L. Contaminants of emerging concern in the environment and their degradation by light-driven engineered processes. Ho Chi Minh City University of Technology (Ho Chi Minh City, Vietnam), June 7, 2019.
21. Blaney, L. Contaminants of emerging concern in the environment and their degradation by light-driven engineered processes. Southern University of Science and Technology (Shenzhen, China), June 5, 2019.
22. Blaney, L. Contaminants of emerging concern in the environment and their degradation by light-driven engineered processes. South China University of Technology (Guangzhou, China), June 4, 2019.
23. Blaney, L. Contaminants of emerging concern in the environment and their degradation by light-driven engineered processes. Chinese Academy of Sciences, Institute of Soil Science (Nanjing, China), June 3, 2019.
24. Blaney, L. Urban sources of contaminants of emerging concern: what is getting into the Chesapeake Bay and how can we reduce that load. Chesapeake Bay Program, Integrating Science and Developing Approaches to Inform Management for Contaminants of Concern in Agricultural and Urban Settings Meeting (Annapolis, MD), May 22-23, 2019.

25. Blaney, L. Emerging contaminants *and* resources: Global challenges with environmental solutions. New York University (Brooklyn, NY), March 13, 2019.
26. Blaney, L. Antibiotics in the aquatic environment: Sources, photodegradation, and photochemical treatment solutions. Indian Institute of Technology – Delhi (Delhi, India), March 8, 2019.
27. Blaney, L. Contaminants of emerging concern (CECs) in the environment: accumulation and toxicity in aquatic organisms. University of Colombo (Colombo, Sri Lanka), March 5, 2019.
28. Blaney, L. Unexpected sources and concentrations of contaminants of emerging concern in the aquatic environment. Tsinghua University, School of Environment, Division of Environmental Chemistry (Beijing, China), January 18, 2019.
29. Blaney, L. Unexpected sources and concentrations of contaminants of emerging concern in the aquatic environment. Tsinghua University, Department of Hydraulic Engineering (Beijing, China), January 14, 2019.
30. Blaney, L. Contaminants of emerging concern in the aquatic environment: "Unexpected" sources and generation of biologically-active transformation products during wastewater treatment. Hong Kong Polytechnic University (Hong Kong), January 7, 2019.
31. Blaney, L. Recovering nutrients from poultry litter with the Phosphorus Extraction and Recovery System (PEARS). Keynote presentation at the International Conference on Advanced Technologies for Industrial Pollution Control. Indian Institute of Engineering Science and Technology (Shibpur, India), December 17, 2018.
32. Blaney, L. Contaminants of emerging concern in the aquatic environment: "Unexpected" sources and generation of biologically-active transformation products during wastewater treatment. Tokyo Institute of Technology (Tokyo, Japan), December 13, 2018.
33. Blaney, L. Contaminants of emerging concern in the aquatic environment: "Unexpected" sources and generation of biologically-active transformation products during wastewater treatment. Department of Environmental Health Engineering, Johns Hopkins University (Baltimore, MD), October 16, 2018.
34. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Tsinghua University, School of Environment, Division of Environmental Chemistry (Beijing, China), September 17, 2018.
35. Blaney, L. Widespread occurrence of contaminants of emerging concern in Chesapeake Bay water, sediment, and oysters. Chesapeake Research & Modeling Symposium (Annapolis, MD), June 13, 2018.
36. Blaney, L. Contaminants of emerging concern in urban settings. Chesapeake Bay Program, Toxic Contaminants Workgroup (webinar), March 14, 2018.
37. Blaney, L. Contaminants of emerging concern in the aquatic environment: "Unexpected" sources and generation of biologically-active transformation products during wastewater treatment. Carnegie Mellon University, Department of Civil and Environmental Engineering (Pittsburgh, PA), February 23, 2018.
38. Blaney, L. Contaminants of emerging concern in the Chesapeake Bay watershed. Morgan State University, Patuxent Environmental & Aquatic Research Laboratory (Saint Leonard, MD), January 24, 2018.
39. Blaney, L. Sources and occurrence of contaminants of emerging concern and the risk they pose to the Chesapeake Bay. Chesapeake Bay Program, Scientific and Technical Advisory Committee (Annapolis, MD), December 5, 2017.

40. Blaney, L. Antibiotic fate in photolytic processes: solar irradiation of agriculturally-impacted waters and UV-254 treatment of wastewater. George Washington University (Washington, DC), December 4, 2017.
41. Blaney, L. Photolytic, photochemical, and photocatalytic oxidation of pharmaceuticals and personal care products in water and wastewater. Pontificia Universidad Católica del Ecuador PUCE (Quito, Ecuador), August 31, 2017.
42. Blaney, L. Antibiotic fate in photolytic processes: UV-254 treatment of wastewater and natural photolysis of agriculturally-impacted waters. University of Iowa (Iowa City, Iowa), March 3, 2017.
43. Blaney, L. Occurrence and fate of antibiotics in environmental and engineered water systems. Institute of Marine and Environmental Technology (Baltimore, MD), December 2, 2016.
44. Blaney, L. Occurrence and fate of antibiotics in environmental and engineered water systems. Department of Civil and Environmental Engineering Seminar, Villanova University (Villanova, PA), October 21, 2016.
45. Blaney, L. Antibiotics in the environment: Occurrence and fate in UV-based processes. Faculdade de Engenharia da Universidade do Porto (Porto, Portugal), October 6, 2016.
46. Blaney, L. Our environment is on drugs. UMBC GRIT-X 2016 (Baltimore, MD), September 17, 2016.
47. Blaney, L. Environmental engineering and water. UMBC Sustainability across disciplines workshop (Baltimore, MD), May 26, 2016.
48. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Department of Civil and Environmental Engineering, Lehigh University (Bethlehem, Pennsylvania), December 3, 2015.
49. Blaney, L. Antibiotics and hormones in the environment: The need for advanced wastewater treatment. UMBC MARC U*STAR/HHMI seminar (Baltimore, MD), October 27, 2015.
50. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Plenary speaker at the 18th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences (Baltimore, MD), October 3, 2015.
51. Blaney, L. Environmental engineering and water. UMBC Sustainability across disciplines workshop (Baltimore, MD), June 1, 2015.
52. Blaney, L. Emerging contaminants and resources: Environmental-based solutions to new problems. Toxicology program, University of Maryland Eastern Shore (Princess Anne, MD), October 9, 2014.
53. Blaney, L. Removal and transformation of antibiotics in wastewater treatment plants: Lessons for environmental fate and transport of emerging contaminants. Department of Geography and Environmental Systems, UMBC (Baltimore, MD), September 24, 2014.
54. Blaney, L. The power of students to improve water, sanitation, and hygiene in the developing world. TEDxUMBC (Baltimore, MD), September 13, 2014.
55. Blaney, L. Environmental engineering and water. UMBC Sustainability across disciplines workshop (Baltimore, MD), June 5, 2014.
56. Blaney, L. Pharmaceuticals in water and wastewater: Analysis of trace concentrations and treatment with UV-based processes. Department of Civil Engineering, Indian Institute of Technology - Roorkee (Roorkee, India), January 19-20, 2014.
57. Blaney, L. UV-based processes for treatment of organoarsenicals in agricultural wastewater/ runoff. American Chemical Society and Society of Chemical Industry sponsored Workshop on Sustainability and Water Quality: Remediation of Pesticides and Metal Contamination, University of Delhi (Delhi, India), January 15-18, 2014.

58. Blaney, L. Fluoroquinolone antibiotics in Maryland wastewater and surface water: Concerns and treatment options. Department of Geography and Environmental Engineering, Johns Hopkins University (Baltimore, MD), September 24, 2013.
59. Blaney, L. Wastewater treatment of pharmaceuticals. Chesapeake Biological Laboratory (Solomons, MD), July 8, 2013.
60. Blaney, L. Environmental engineering and sustainability. UMBC Sustainability Across the Disciplines Workshop (Baltimore, MD), June 6, 2013.
61. Blaney, L. Water is life: The UMBC Engineers Without Borders chapter conducts an assessment trip in Kenya. Center for Urban Environmental Research and Education (Baltimore, MD), April 5, 2013.
62. Blaney, L. Water treatment around the world. Masinde Muliro University of Science and Technology, Department of Chemistry (Kakamega, Kenya), January 22, 2013.
63. Blaney, L. Pharmaceuticals and personal care products in water: Analytical techniques and treatment options. Indo-US Workshop on Water Quality and Sustainability (Chennai, India), January 10, 2013.
64. Blaney, L.M. Pharmaceuticals in water: Innovative analytical techniques and advanced treatment processes. Symposium on the Chesapeake Bay, Human Health, and Eco-Toxicology (Baltimore, MD), May 15, 2012.
65. Blaney, L.M. Water treatment of pharmaceuticals: What are the major concerns? Lehigh University (Bethlehem, Pennsylvania), November 14, 2011.
66. Blaney, L.M. Pharmaceuticals in the environment: Sources, concerns, and treatment options. Center for Urban Environmental Research and Education, University of Maryland Baltimore County (Baltimore, Maryland), October 14, 2011.
67. Blaney, L.M. Oxidation of pharmacologically active compounds: Impacts of organic matter and elimination of residual pharmacological activity. Syracuse University (Syracuse, New York), March 3, 2011.
68. Blaney, L.M. Oxidation of pharmacologically active compounds: Impacts of organic matter and elimination of residual pharmacological activity. University of Notre Dame (South Bend, Indiana), February 23, 2011.
69. Blaney, L.M. Oxidation of pharmacologically active compounds: Impacts of organic matter and elimination of residual pharmacological activity. Texas Tech University (Lubbock, Texas), February 15, 2011.
70. Blaney, L.M. Oxidation of pharmacologically active compounds: Impacts of organic matter and elimination of residual pharmacological activity. University of Maryland, Baltimore County (Baltimore, Maryland), February 11, 2011.
71. Blaney, L.M. Oxidation of pharmacologically active compounds: Impacts of organic matter and elimination of residual pharmacological activity. McMaster University (Hamilton, Ontario, Canada), February 3, 2011.
72. Blaney, L.M.; SenGupta, A.K. A sustainable solution to the arsenic crisis in the Indian subcontinent. Chinese Academy of Science, Research Centre for Eco-Environmental Science (Beijing, China), July 3, 2007.

Conference Panels

1. Blaney, L. PFAS Removal Techniques and Assessment. UMCES PFAS Scientific Roundtable (virtual), October 5, 2020.

2. Blaney, L.; Brown, M.; Trotz, M. Chats in 4D on Diversity in Environmental Engineering and Science. Association of Environmental Engineering and Science Professors Meeting (Tempe, AZ), May 16, 2019.
3. Blaney, L. NSF CAREER workshop panel. Association of Environmental Engineering and Science Professors Meeting (Tempe, AZ), May 14, 2019.
4. Blaney, L. Rising Tensions + Teachable Moments: A Panel for Faculty and Staff. Organized by Jess Myers, Director of the UMBC Women's Center, October 25, 2017.
5. Blaney, L. Graduate Student Association, Writing Seminar. Organized by Renetta Tull (Associate Vice Provost for Graduate Student Professional Development & Postdoctoral Affairs) and PROMISE, April 27, 2016.
6. Blaney, L. Keynote panel on interdisciplinary collaboration in research and work. UMBC Graduate Research Conference (Baltimore, MD), March 25, 2015.
7. Blaney, L. Water and human health – what scientists and advocates need to know. Choose Clean Water Conference (Baltimore, MD), June 5, 2013.

Student Groups

1. Blaney, L. Recovering nutrients from poultry litter with the Phosphorus Extraction and Recovery System (PEARS). Meyerhoff Scholars Summer Bridge program (Baltimore, MD), July 6, 2023.
2. Blaney, L. Research panel for incoming COEIT transfer students. UMBC College of Engineering and Information Technology (virtual), August 18, 2022.
3. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Meyerhoff Scholars Summer Bridge program (Baltimore, MD), July 5, 2022.
4. Blaney, L.; Sarmiento Mellinger, M.; Tran, S.; Wager, C. Returning Women Scholars Event: Building Relationships with Your Professors (virtual), October 6, 2021.
5. Blaney, L. The Transfer Advantage: Leveraging Your Transfer Experience (Applied Learning Panel; virtual), August 12, 2021.
6. Blaney, L. Contaminants of emerging concern in "unimpacted" urban environments and their degradation by light-driven engineered processes. Meyerhoff Scholars Summer Bridge program (virtual), June 17, 2021.
7. Blaney, L. Professor panel on undergraduate research. UMBC chapter of Society of Women Engineers (virtual), February 24, 2021.
8. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. CBEE Summer Lecture Series - Environmental Engineering Research Event (Baltimore, MD), August 4, 2020.
9. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Summer Environmental Science Collaboration (Baltimore, MD), July 22, 2020.
10. Blaney, L. The occurrence of contaminants of emerging concern in urban water resources. UMBC American Chemical Society student chapter (Baltimore, MD), April 20, 2020.
11. Blaney, L. Preparing for Graduate School: Making a Game Plan. UMBC Center for Women in Technology (Baltimore, MD), October 25, 2019.
12. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Meyerhoff Scholars Summer Bridge program (Baltimore, MD), June 22, 2018.
13. Blaney, L. Provide access* to clean water: Defining appropriate problems and technologies. UMBC Grand Challenges symposium (Baltimore, MD), February 17, 2017.

14. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. BUILD a Bridge to STEM seminar (Baltimore, MD), June 15, 2016.
15. Blaney, L. Meet the faculty: Lee Blaney. UMBC Chapter of the American Institute for Chemical Engineers (Baltimore, MD), November 23, 2015.
16. Blaney, L. UMBC Engineers Without Borders. Hilltop Society Meeting, November 7, 2014.
17. Blaney, L. UMBC Engineers Without Borders. UMBC President's Board of Visitors Meeting, November 7, 2013.
18. Hughes, D.; Blaney, L. Updates on the UMBC Engineers Without Borders water project in Isongo, Kenya. College of Engineering and Information Technology (COEIT) Advisory Board Meeting, April 26, 2013.
19. Blaney, L. Faculty profile: Lee Blaney. UMBC Chapter of the American Institute for Chemical Engineers (Baltimore, MD), March 11, 2013.
20. Blaney, L.; Wilding, D.; Hughes, D.; Mullen, C. Recap of Isongo Assessment Trip. President's Council, February 6, 2013.
21. Blaney, L. Faculty profile: Lee Blaney. UMBC Chapter of the American Institute for Chemical Engineers (Baltimore, MD), March 26, 2012.

Guest Lectures

1. Honors Forum 2023
2. Blaney, L. Forever chemical: per- and polyfluoroalkyl substances (PFAS) in the natural and built environment. Presented to Honors College (Instructor: Jodi Kelber-Kaye), November 21, 2022.
3. Blaney, L. Contaminants of emerging concern in "unimpacted" urban environments and their degradation by light-driven engineered processes. Presented to MEES 698, Marine and Environmental Biotechnology (Instructor: J. Sook Chung, Institute of Marine and Environmental Technology), April 20, 2022
4. Blaney, L. Recovering nutrients from poultry litter with the Phosphorus Extraction and Recovery System (PEARS). Presented to Honors College (Instructor: Jodi Kelber-Kaye), November 15, 2021.
5. Blaney, L. Nutrient recovery: An environmental engineering solution to a global issue. Presented to ENME 489, Global Engineering (Instructor: Marc Zupan, Mechanical Engineering) and Universidad de los Andes, Bogota, Colombia (classroom of Colombian students and simultaneously video-conferenced to UMBC students), October 22, 2019.
6. Blaney, L. Contaminants of emerging concern in the Chesapeake Bay watershed. Presented to Honors College (Instructor: Jodi Kelber-Kaye), October 7, 2019.
7. Blaney, L. Application of environmental chemistry principles for nutrient recovery from agricultural waste. Guest lecture in "Advanced Environmental Chemistry", Tsinghua University (Beijing, China), April 29, 2019.
8. Blaney, L. Providing access to clean water: The need for integrated solutions. Presented to Honors College (Instructor: Jodi Kelber-Kaye), October 9, 2017.
9. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Guest lecture in CHEM 101H (Instructor: Dr. Tara Carpenter, UMBC), October 5, 2017.
10. Blaney, L. Grand Challenges: Educating Globally-Competent Engineers. Guest lecture in GCSP 302 (Instructor: Dr. Marie desJardins, Computer Science and Electrical Engineering), April 21, 2017.

11. Blaney, L. Emerging contaminants and resources: Environmental solutions to global problems. Guest lecture in CHEM 101H (Instructor: Dr. Ian Thorpe, UMBC), November 3, 2016.
12. Blaney, L. Providing access to clean water: The need for integrated solutions. Presented to ENME 489, Global Engineering (Instructor: Marc Zupan, Mechanical Engineering) from Porto, Portugal (classroom of Portuguese students and simultaneously video-conferenced to UMBC students), October 3, 2016.
13. Blaney, L. Providing access to clean water: The need for integrated solutions. Presented to Honors College (Instructor: Jodi Kelber-Kaye), September 26, 2016.
14. Blaney, L. Clean water and waste water treatment – Disinfection processes. Presented to MEES 698, Marine and Environmental Biotechnology (Instructor: J. Sook Chung, Institute of Marine and Environmental Technology), May 4, 2016.
15. Blaney, L. Providing access to clean water: The need for integrated solutions. Presented to ENME 489, Global Engineering (Instructor: Marc Zupan, Mechanical Engineering), December 7, 2015.
16. Blaney, L. Providing access to clean water: The need for integrated solutions. Presented to Honors College (Instructor: Jodi Kelber-Kaye), September 28, 2015.
17. Blaney, L. Global Engineering – Appropriate technologies for the developing world. Presented to ENME 489, Global Engineering (Instructor: Marc Zupan, Mechanical Engineering), November 17, 2014.
18. Blaney, L. PPCPs in wastewater – detection and treatment. Presented to ES 204 (Instructor: Birthe Kjellerup), Goucher College, March 6, 2014.
19. Blaney, L. The 'pharmacokinetics' of wastewater treatment. Presented to ENCH 484 (Instructor: Mariajose Castellanos), April 15, 2013.
20. Blaney, L. Appropriate technologies for the developing world – Water. Presented to Global Studies 101 (Instructor: Brigid Starkey, Political Science), November 21, 2013.
21. Blaney, L. Global Engineering – Appropriate technologies for the developing world. Presented to ENME 489, Global Engineering (Instructor: Marc Zupan, Mechanical Engineering), November 27, 2013.

Media Activities

1. University of Texas at Austin, "Lee Blaney named CAEE Outstanding Young Alumnus for 2022" by CAEE staff, October 24, 2022. Available at: https://www.caee.utexas.edu/news/1084-lee-blaney-named-caee-outstanding-young-alumnus-for-2022
2. University System of Maryland Newsroom, "USM Board of Regents Announces Winners of Annual Faculty Awards" by Mike Lurie, March 8, 2022. Available at: https://www.usmd.edu/newsroom/news/2232
3. UMBC News article, "UMBC ranks in the top 100 public universities to receive federal research funding" by UMBC News staff, March 29, 2021. Available at: https://news.umbc.edu/umbc-ranks-in-the-top-100-public-universities-to-receive-federal-research-funding/
4. Environmental Science & Technology, "The 2021 James J. Morgan Early Career Award Winners: The Americas Region" by Julie Zimmerman and Bryan Brooks, December 15, 2020. Available at: https://pubs.acs.org/https://doi/10.1021/acs.est.0c07867
5. UMBC News article, "American Chemical Society honors UMBC's Lee Blaney for commitment to mentoring student researchers" by Megan Hanks, August 28, 2020. Available at: https://news.umbc.edu/american-chemical-society-honors-umbcs-lee-blaney-for-commitment-to-mentoring-student-researchers/

6. UMBC News article, “Princeton Review highlights UMBC’s dedicated students, engaging faculty” by Randianne Leyshon, August 20, 2020. Available at: https://news.umbc.edu/princeton-review-highlights-umbcs-dedicated-students-engaging-faculty/
7. Bay Journal article, “Researchers find sunscreen chemicals in Chesapeake oysters” by Timothy Wheeler, September 11, 2019. Available at: https://www.bayjournal.com/article/researchers_find_sunscreen_chemicals_in_chesapeake_oysters
8. UMBC News article, “UMBC’s Lee Blaney and federal, state partners publish landmark study on contaminants in the Chesapeake Bay” by Megan Hanks, August 26, 2019. Available at: https://news.umbc.edu/umbcs-lee-blaney-and-federal-state-partners-publish-landmark-study-on-contaminants-in-the-chesapeake-bay/
9. Defense Visual Information Distribution Service article, “Army Corps Baltimore District conducts research on emerging contaminants” by Christopher Gardner, June 24, 2019. Available at: https://www.dvidshub.net/news/328893/army-corps-baltimore-district-conducts-research-emerging-contaminants
10. UMBC News article, ““Researching” to “researcher”: UMBC students share why mentoring is the key” by Megan Hanks, April 18, 2019. Available at: https://news.umbc.edu/researching-to-researcher-umbc-students-share-why-mentoring-is-the-key/
11. Science Daily article, “New study measures UV-filter chemicals in seawater and corals from Hawaii” by University of Maryland Center for Environmental Science, April 1, 2019. Available at: https://www.sciencedaily.com/releases/2019/04/190401121805.htm
12. NSF, Science Nation. Sustainable Agriculture: Engineering a win-win solution for poultry litter. Available at: https://www.nsf.gov/news/special_reports/science_nation/poultrylitter.jsp. Accessed on October 1, 2018.
13. United States Department of Agriculture. Featured Research Program in Provide Abundant Clean Water. “Contaminants in Water.” Available at: https://www.nrs.fs.fed.us/featured/2018/06/. Accessed on July 17, 2018.
14. UMBC News article, “Ke He extends water safety research through UM School of Medicine postdoc fellowship” by Megan Hanks, February 15, 2018. Available at: https://news.umbc.edu/ke-he-extends-water-safety-research-through-um-school-of-medicine-postdoc-fellowship/
15. Lehigh University, “Cleaning up: Accolades abound for researcher and Lehigh environmental engineering alum,” by Danielle Bettermann, January 22, 2018. Available at: http://www.lehigh.edu/engineering/news/alumni/2018/20180122-blaney-environmental-engineering.html
16. The Washington Post, “UMBC gets its first Rhodes scholar”, by Sarah Larimer, November 24, 2017. Available at: https://www.fredericknewspost.com/news/education/umbc-gets-its-rst-rhodes-scholar/article_66ebe373-8564-52f1-9fe5-86ddfacdc61d.html
17. Baltimore Patch article, “Maryland Science Center Announces 4 Outstanding Young Scientists”, November 7, 2017. Available at: https://patch.com/maryland/baltimore/maryland-science-center-announces-4-outstanding-young-scientists
18. UMBC News article, “UMBC’s 20th Summer Undergraduate Research Fest spotlights emerging science talent from across the nation” by Sarah Hansen, September 7, 2017. Available at: http://news.umbc.edu/umbcs-20th-summer-undergraduate-research-fest-spotlights-emerging-science-talent-from-across-the-nation/

19. UMBC News article, “UMBC engineering and IT faculty honored for excellence in teaching” by Megan Hanks, July 31, 2017. Available at: http://news.umbc.edu/umbcs-engineering-and-it-faculty-honored-for-excellence-in-teaching/
20. WYPR interview, “Downstream from your sunscreen” with Sheilah Kast and Andrea Appleton, July 27, 2017. Available at: http://wypr.org/post/downstream-your-sunscreen
21. The Michigan Daily, “Speaker at environmental conference stresses need for better communication outside of research lab” by Shikha Patel, June 23, 2017. Available at: https://www.michigandaily.com/section/news/aeesp-conference
22. UMBC News article, “UMBC faculty research works to reduce pollution in waterways” by Megan Hanks, May 15, 2017. Available at: http://news.umbc.edu/umbc-faculty-research-works-to-reduce-pollution-in-waterways/
23. UMBC News article, “UMBC’s 2017 NSF Graduate Research Fellows prepare for groundbreaking careers, from environmental engineering to computer science” by Megan Hanks, May 12, 2017. Available at: http://news.umbc.edu/umbcs-2017-nsf-graduate-research-fellows-prepare-for-groundbreaking-careers-from-environmental-engineering-to-computer-science/ (mention, cover photo)
24. UMBC News article, “Lee Blaney receives NSF CAREER Award to address contaminants of emerging concern in urban streams” by Megan Hanks, March 28, 2017. Available at: http://news.umbc.edu/lee-blaney-receives-nsf-career-award-to-address-contaminants-of-emerging-concern-in-urban-streams/
25. UMBC News article, “UMBC expands partnership with Portugal’s University of Porto” by Sara Hansen, November 11, 2016. Available at: http://news.umbc.edu/umbc-expands-partnership-with-portugals-university-of-porto/
26. Mentioned in “Thousands gather at UMBC for historic 50th anniversary celebration” by Dinah Winnick. Available at: http://news.umbc.edu/thousands-gather-at-umbc-for-historic-50th-anniversary-celebration/. Accessed on September 21, 2016.
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28. European Commission, Science for Environment Policy. “Aquatic life needs further protection from effects of personal care products.” Story about our article [Hopkins and Blaney, 2016]. Available at: http://ec.europa.eu/environment/integration/research/newsalert/pdf/aquatic_life_protection_effects_personal_care_products_470na5_en.pdf. Accessed on September 21, 2016.
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36. UMBC News article, "Lee Blaney's sustainability-focused engineering research examines the potential impact and value of waste streams" by Megan Hanks, January 13, 2016. Available at: http://news.umbc.edu/lee-blaneys-sustainability-focused-engineering-research-assesses-the-potential-impact-and-value-of-waste-streams/
37. UMBC News article, "UMBC students explain what environmental engineers do in video for international competition" by Megan Hanks, December 23, 2015. Available at: http://news.umbc.edu/umbc-students-explain-what-environmental-engineers-do-in-video-for-international-competition/
38. UMBC News article, "Lee Blaney explains how technology can transform pollutants in chicken manure into a valuable product" by Megan Hanks, November 10, 2015. Available at: http://news.umbc.edu/lee-blaney-explains-how-technology-can-transform-pollutants-in-chicken-manure-into-a-valuable-product/
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40. Students improving water, sanitation, and hygiene in the developing world. TEDxUMBC, September 13, 2014. Available at: https://www.youtube.com/watch?v=f9hmIRdnTTg
41. Video interview, "UMBC in the Loop" program, June 12, 2014. Available at: http://www.youtube.com/watch?v=WQeotEGp5K8&list=PLnj_pHJHgqkUzC6AnxIvitzDxsclVk32_&index=2
42. Video interview, Choose Clean Water Conference (Baltimore, MD), June 5, 2013. Available at: https://www.youtube.com/watch?v=oBtIH8L_phA&feature=youtu.be
43. UMBC BreakingGround article, "UMBC Engineering Students Foster Development of Clean Water in Kenya" by Lee Blaney, March 26, 2013. Available at: https://umbcbreakingground.wordpress.com/2013/03/26/umbc-engineering-students-foster-development-of-clean-water-in-kenya/

SERVICE TO THE DEPARTMENT, UNIVERSITY, PROFESSION, AND COMMUNITY

Service to the Department

Teaching (note, research-oriented courses are not shown)

Fall 2023	ENCH 410, Environmental Chemistry [6 students]
	ENEN 610, Environmental Chemistry [6 students]
Spring 2023	Teaching release [due to service commitments]

Fall 2022	ENCH 410, Environmental Chemistry [11 students]
	ENEN 610, Environmental Chemistry [6 students]
Spring 2022	ENEN 613, Environmental Organic Chemistry [3 students]
Fall 2021	ENCH 410, Environmental Chemistry [18 students]
	ENEN 610, Environmental Chemistry [5 students]
Spring 2021	ENEN 613, Environmental Organic Chemistry [2 students]
Fall 2020	ENCH 410, Environmental Chemistry [8 students]
	ENEN 610, Environmental Chemistry [3 students]
Spring 2020	ENEN 613, Environmental Organic Chemistry [5 students]
Fall 2019	ENCH 445, Separation Processes [44 students]
Spring 2019	Sabbatical
Fall 2018	Sabbatical
Spring 2018	ENEN 613, Environmental Organic Chemistry [5 students]
Fall 2017	ENCH 445, Separation Processes [72 students]
Summer 2017	GES 400/600, Climate Change Impacts at Forest-Water Nexus (Costa Rica field course) [12 students]
Spring 2017	ENCH 640, Advanced Chemical Reaction Kinetics [17 students]
Fall 2016	ENCH 310, Environmental Chemistry [12 students]
Spring 2016	ENCH 640, Advanced Chemical Reaction Kinetics [6 students]
	ENCH 446, Process Engineering Economics and Design II (co-taught with other CBEE faculty) [45 students]
Fall 2015	ENCH 310, Environmental Chemistry [10 students]
	ENCE 610, Environmental Chemistry [3 students]
Spring 2015	ENCH 446, Process Engineering Economics and Design II (co-taught with other CBEE faculty) [43 students]
Fall 2014	ENCE 610, Environmental Chemistry [7 students]
Spring 2014	ENCH 412/ENCE 612, Environmental Physicochemical Processes [8/4 students]
	ENCH 446, Process Engineering Economics and Design II (co-taught with other CBEE faculty) [28 students]
Fall 2013	ENCE 610, Environmental Chemistry [9 students]
Spring 2013	ENCH 412/ENCE 612, Environmental Physicochemical Processes [5/2 students]
Fall 2012	ENCE 610, Environmental Chemistry [7 students]
Spring 2012	ENCH 412/ENCE 612, Environmental Physicochemical Processes [18/7 students]

Graduate Program Committee

2012 – 2015	Member, Written Qualifying Exam Committee
2012 – 2015	Member, Graduate Admissions Sub-committee
2012 – 2013	Co-organizer, Graduate Student Orientation
2011 – 2015	Member, Oral Qualifying Exam Committee
2011 – 2015	Member, Graduate Program Committee

Undergraduate Program Committee

2016 – present	Academic Advisor, Chemical Engineering
2015 – present	Member, Undergraduate Program Committee

Other Committees

2023 – present	Member, ABET Committee
2020 – present	Chair (2020-2022), Member (2020-present), Justice, Equity, Diversity, and Inclusion Committee
2020	Chair, Mariajosé Castellanos Promotion and Contract Renewal Committee
2019 – 2020	Member, Assistant Professor Search Committee
2016 – 2017	Member, Workload Policy Committee
2016 – 2017	Co-organizer, Seminar series
2015 – 2016	Member, Assistant Professor Search Committee
2014 – 2015	Member, Assistant Professor Search Committee (two positions)
2013 – 2014	Member, Assistant Professor Search Committee
2013	Member, Chairperson Search Committee

Service to the University

Mentoring

2020 – 2021	Mentor, Center for Women in Technology Scholars program Mentee: Patricia Ras (Chemical Engineering)
2020	Mentor, BUILD a Bridge to STEM Summer Program Mentees: Seanasia Baronette (Morgan State University), Zobaida Ataei (Prince George's Community College)
2019 – 2020	Mentor, Center for Women in Technology Scholars program Mentee: Lorelle Tribble (Chemical Engineering)
2019 – 2020	Mentor, Center for Women in Technology Scholars program Mentee: Ouriel Ndalamba (Chemical Engineering)
2019 – 2020	Mentor, Center for Women in Technology Scholars program Mentee: Samantha Thorwart (Chemical Engineering)
2018	Mentor, BUILD a Bridge to STEM Summer Program Mentees: Israel Hollander (Community College of Baltimore County), Elder-Jerycho Herrera (Prince George's Community College)
2016 – 2017	Mentor, Center for Women in Technology Scholars program Mentee: Megan Allison (Chemical Engineering)
2016	Mentor, BUILD a Bridge to STEM Summer Program Mentees: Alina Boyko (Anne Arundel Community College), Mamadou Diallo (Community College of Baltimore County), Alonso Navarro-Henry (Prince George's Community College)
2015 – 2016	Mentor, Center for Women in Technology Scholars program Mentee: Tyler Boyle (Chemical Engineering)
2014 – 2015	Mentor, Center for Women in Technology Scholars program Mentee: Becca Glatt (Chemical Engineering)

2013 – 2014	Mentor, Center for Women in Technology Scholars program Mentee: Kourtney Rutkowski (Chemical Engineering)
2012 – 2014	Advisor, Interdisciplinary Studies (INDS) program Co-advisor for INDS student Suraj Vyas for a thesis titled, "Water Resource Management and Policy"
2012 – 2013	Mentor, Center for Women in Technology Scholars program Mentee: Holly Johnson (Mechanical Engineering)
2010 – 2011	Mentor, TREX program, The University of Texas at Austin
2010	Mentor, REU program, The University of Texas at Austin
2010	Mentor, GLUE program, The University of Texas at Austin
2004 – 2007	Mentor, STAR Academies, Lehigh University

Leadership

2020 – present	Member, Presidential Professor Awards Committee
2022 – 2023	Chair, COEIT Cluster Hire Search Committee for "Renewable Energy and Sustainability" (three positions)
2019 – 2023	Member, UMBC STRIDE (Strategies and Tactics for Recruiting to Improve Diversity and Excellence) initiative
2015 – 2023	Member, Center for Women in Technology Advisory Board
2015 – 2023	Member, COEIT Grand Challenges Scholars Program Faculty Advisory Board
2021 – 2022	Member, UMBC President Search Committee
2020 – 2021	Member, Undergraduate Research Award Selection Committee
2019 – 2021	Member, UMBC Women's Center Advisory Board
2015 – 2020	Member, Goldwater scholarship selection committee
2014 – 2020	Member, Shriver Center Faculty Advisory Board
2020	Speaker, UMBC Convocation
2020	Member, University System of Maryland, Reopening Committee
2019	Member, College of Engineering and Information Technology (COEIT) Research Task Force
2017	Member, Search Committee, Dean of College of Engineering and Information Technology
2015 – 2017	Member, HHMI/MARC U*STAR Steering Committee
2015 – 2017	Member, Kuali Coeus Review Committee
2013 – 2017	Member, Undergraduate Research Award Selection Committee
2016	Member, Search Committee, UMBC Director of Undergraduate Research

Advisor

2011 – present	Advisor, UMBC Chapter of Engineers Without Borders
2014	Advisor, BioChEGs (CBEE graduate student association)
2012	Associate Member, UMBC Graduate Faculty

University Workshops

2019 – 2023	Organizer/Presenter, approximately six workshops per year on topics related to inclusive faculty search processes

2022	Panelist, Essentials of Effective Teaching for Busy Faculty
2021	Panelist, Incorporating Ethics/Social Responsibility into Engineering and Computing Education Research
2020	Panelist, Juggling Multiple Demands During COVID-19
2018	Panelist, Faculty ADVANCEment Workshop: The Tenure Process
2016	Panelist, Undergraduate Research Award Workshop
2015	Organizer/Presenter, How to Write an NSF Proposal workshop (invited by Dean Drake, Associate Vice President for Research, and Stan Jackson, Assistant Director of the Office for Sponsored Programs)
2015	Panelist, Undergraduate Research Award Workshop
2015	Panelist, Best of Center for Women in Technology Showcase
2014 – 2015	Moderator, Undergraduate Research and Creative Achievement Day
2012	Panelist, New Faculty Orientation Panel
2011	Judge, Undergraduate Research Poster Exhibition, The University of Texas at Austin

Recruitment

2014	Member, UMBC recruitment team at the Southern Regional Educational Board Institute on Teaching and Mentoring (Atlanta, GA)
2014	Panelist, UMBC recruitment event at Northeast High School (invitation from President Hrabowski)
2014	Interviewer, CWIT Scholar Selection Day
2014	Sciences and Mathematics Academic Research Team, Carroll Community College, Laboratory Tour
2012	Mathematics Engineering Science Achievement program, Johns Hopkins University Applied Physics Laboratory, Laboratory Tour

Professional Development

2020	Online Teaching Discussion on Designing a Coherent Course
2017	COEIT Teaching Circle program
2016	Teaching Undergraduate Science (Hodges, 2015), Book Discussion
2015	Advanced Media Training with Denise Graveline (invited by Dean Julia Ross)
2014	Writing a Compelling Proposal for the Hrabowski Innovation Fund
2013	Lunch with the Provost
2013	Problem-Based Learning
2012	Effective Instruction for STEM Disciplines (Mastascusa *et al.*, 2011)
2012	Teaching for Critical Thinking (Brookfield, 2012)
2012	Teaching Naked (Bowen, 2012), Book Discussion Session I
2012	Teaching Naked (Bowen, 2012), Book Discussion Session II
2011	Great Teachers Talking About Teaching
2011	New Faculty Members' Guide to Research and Funding
2011	Balancing Teaching and Research

Teaching Assistance

2008 – 2011	Teaching Assistant, The University of Texas at Austin Environmental Sampling and Analysis (CE 370K; Spring semesters) Physical / Chemical Treatment Processes (CE 385L; Fall semesters)
2005 – 2007	Teaching Assistant, Lehigh University Professional Development (CEE 203) Groundwater Hydrology and Contaminant Transport (CEE 323) Transportation Engineering (CEE 207) Engineering/Architectural Graphics and Design (CEE 10) Introduction to Engineering Practice (ENGR 5)

Service to the Profession

Editorship

2020 – present	Associate Editor (2020-2021), Editor (2021-2023), and Executive Editor (2023-present), *Journal of Hazardous Materials*
2020 – present	Editorial Board, *Journal of Hazardous Materials Letters*
2018 – present	Editorial Board, *Emerging Contaminants*
2014 – present	Editorial Board, *Current Pollution Reports*
2022 – present	Guest Editor, *Engineering*, Special Issue on "Emerging Contaminants Control: Science and Technology"
2019 – 2021	Guest Editor, *Environment International*, Special Issue on "Emerging Contaminants in the Environment: Occurrence, Sources and Risk"
2019 – 2020	Guest Editor, *Nanoscience and Nanotechnology-Asia*, Special Issue on "Importance of Nano- and Micro-materials for Environment and Human Health"
2019	Guest Editor, *Journal of Nanotechnology*, Special Issue on "Recent Advances in Nanoscience and Nanotechnology"
2015	Guest Associate Editor, *Journal of Hazardous Materials*, Special Issue on "Advances in Analysis, Treatment Technologies, and Environmental Fate of Emerging Contaminants"

Leadership

2021 – present	President-Elect (2023-2024), Vice President (2022-2023), Member (2021-2022), AEESP Board of Directors
2021 – present	Member at Large, Executive Committee of the ACS Division of Environmental Chemistry
2018 – present	Chesapeake Bay Program, Toxic Contaminants Workgroup
2020 – 2021	Middle Branch Waterfront Project Technical Advisory Committee
2018 – 2022	Chesapeake Bay Program, Scientific and Technical Advisory Committee
2021	Faculty Interviewer, AEESP Student Services Committee Navigating the Academic Job Search program (two interviewees)
2021	Faculty Reviewer, AEESP Student Services Committee Navigating the Academic Job Search program (two applicants)
2020 – 2021	Member, AEESP Strategic Planning Steering Committee
2020	Faculty Reviewer, AEESP Student Services Committee Navigating the Academic Job Search program (two applicants)

2019 – 2020	Mentor, AEESP Mentoring Program (two mentees)
2019	Faculty Reviewer, AEESP Student Services Committee Navigating the Academic Job Search workshop. Association of Environmental Engineering and Science Professors Meeting (Tempe, AZ), May 14, 2019
2018	Mentor, Preparing Future Faculty Program, University of Nebraska-Lincoln
2016 – 2017	Co-chair, AEESP Membership and Demographics Committee
2014 – 2016	Chair, AEESP Membership and Demographics Committee
2013 – 2015	Member, Engineers Without Borders Faculty Leadership Council
2013 – 2014	Co-chair, AEESP Membership and Demographics Committee
2012 – 2013	Maryland State Representative, Engineers Without Borders USA
2009 – 2011	Board of Directors, Wheatsville Food Coop ($14m/year), Austin, TX Secretary (2010 – 2011)
2010	Passed Fundamentals of Engineering Exam
2010	Volunteer, Water For People, World Water Corps, Blantyre, Malawi
2008 – 2009	Volunteer, Engineers Without Borders, The University of Texas at Austin, Limbe, Cameroon

Conferences and Workshops

2023	Judge for Environmental Chemistry Division Certificate of Merit competition, Fall ACS Meeting
2023	Organizer and Judge for Environmental Chemistry Division Certificate of Merit competition, Spring ACS Meeting
2023	Member, Organising and Scientific Committee of the Symposium on Removal of Emerging Contaminants, 11th World Congress of Chemical Engineering, Buenos Aires, Argentina
2022	Member, International Advisory Committee, Advanced Technologies for Industrial Pollution Control" (ATIPC - 2022), Kolkata, India
2022	Co-chair and Presider, 2022 AEESP Research and Education Conference (St. Louis, MO) session on “Resource Recovery from Wastes”, June 29, 2022.
2022	Co-chair and Presider, 2022 Chesapeake Community Research Symposium (Annapolis, MD) session on “New Advances in Toxic Contaminant Science for the Chesapeake Bay”, June 7, 2022.
2022	Member, Steering Committee, Chesapeake Bay Program, Scientific and Technical Advisory Committee Workshop on Improving the Understanding and Coordination of Science Activities for PFAS in the Chesapeake Watershed (Annapolis, MD), May 17-18, 2022.
2022	Co-chair and Presider, Spring ACS Symposium entitled, “Ion Exchange, Sustainable Separations, & Humanitarian Engineering: A Symposium in Honor of Professor Arup K. SenGupta”
2022	Organizer and Judge for Environmental Chemistry Division Certificate of Merit competition, Spring ACS Meeting
2021	Judge for Environmental Chemistry Division Certificate of Merit competition, Spring ACS Meeting
2020	Judge for Environmental Chemistry Division Certificate of Merit competition, Fall ACS Meeting

2020	Member, International Advisory Committee, Advanced Technologies for Industrial Pollution Control (ATIPC – 2020), Kolkata, India
2020	Member, Organizing Committee, American Institute of Chemical Engineers 3rd Sustainable Waste Management Conference (Glasgow, Scotland), September 2020
2020	Member, Technical Committee, Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020)", Kolkata, India
2019	Member, Scientific Committee, The Green Technologies for Sustainable Water Conference 2019 (Ho Chi Minh City, Vietnam), December 1-5, 2019
2019	Member, Steering Committee, Chesapeake Bay Program, Scientific and Technical Advisory Committee Workshop on Contaminants of Concern in Agricultural and Urban Settings (Baltimore, MD), May 22-23, 2019
2018	Member, International Advisory Committee, Advanced Technologies for Industrial Pollution Control" (ATIPC - 2018), Kolkata, India
2018	Co-chair and Presider, Spring ACS Symposium entitled, "Ongoing Challenges in the Treatment of Contaminants of Emerging Concern"
2018	Organizer and Judge for Environmental Chemistry Division Certificate of Merit competition, Spring ACS Meeting
2017	Co-chair and Presider, Spring ACS Symposium entitled, "Contaminants of Emerging Concern in Natural and Engineered Systems"
2017	Co-chair and Presider, Spring ACS Symposium entitled, "Advances in Resource Recovery and Conservation in Water Systems"
2017	Organizer and Judge for Environmental Chemistry Division Certificate of Merit competition, Spring ACS Meeting
2016	Co-chair and Presider, Fall ACS Symposium entitled, "Disinfection By-Products: What Have We Learned About Dissolved Organic Matter Precursors?"
2016	Co-chair and Presider, Spring ACS Symposium entitled, "Treatment of Contaminants of Emerging Concern and their Transformation Products"
2016	Judge for Environmental Chemistry Division Certificate of Merit competition, Spring and Fall ACS Meetings
2015	Organizer and Judge for Environmental Chemistry Division Certificate of Merit competition, Fall ACS Meeting
2014	Co-chair and Presider, Fall ACS Symposium entitled, "Occurrence, Detection, Fate and Removal of Pharmaceutical and Personal Care Products and Endocrine Disrupting Chemicals"
2014	Judge for Environmental Chemistry Division Certificate of Merit competition, Fall ACS Meeting
2014	Member, US Delegation to Joint Workshop on Remediation of Pesticides and Metal Contamination (Delhi, India), January 15-18, 2014
2013	Co-chair and Presider of Spring ACS Symposium entitled, "Occurrence, Detection, Fate and Removal of Pharmaceutical and Personal Care Products in Potable Water Sources"
2013	Judge for Environmental Chemistry Division Certificate of Merit competition, Spring ACS Meeting

2013	Member, US Delegation to NSF-sponsored Indo-US Workshop on Water Quality and Sustainability (Chennai, India), January 7-11, 2013
2010	Session Chair, Spring ACS Meeting for 'General Geochemistry Papers'

Reviewer

Panels

Army Research Office
Environmental Protection Agency
Environmental Research & Education Foundation
Legislative-Citizen Commission on Minnesota Resources
Maryland Industrial Partnerships
National Alliance for Water Innovation
National Center of Science and Technology Evaluation (Kazakhstan)
National Foundation for Science and Technology Development of Vietnam
National Science Foundation
North Carolina Water Resources Research Institute
US-Israel Agricultural Research and Development Fund

Journal articles

ACS Sustainable Chemistry & Engineering
Biotechnology and Bioengineering
Chemical Engineering Journal
Chemosphere
Compost Science & Utilization
Current Opinion in Chemical Engineering
Current Pollution Reports
Ecotoxicology and Environmental Safety
Emerging Contaminants
Environmental Engineering Science
Environment International
Environmental Pollution
Environmental Science & Technology
Environmental Science & Technology Letters
Environmental Science & Technology Water
Environmental Science and Pollution Research
Environmental Science: Processes & Impacts
Environmental Science: Water Research & Technology
Geochimica et Cosmochimica Acta
Groundwater for Sustainable Development
Industrial & Engineering Chemistry Research
Journal of Environmental Analytical Chemistry
Journal of Environmental Management
Journal of Environmental Quality
Journal of Environmental Science and Engineering
Journal of Hazardous Materials
Journal of Hazardous Materials Letters

npj Clean Water
PDA Journal of Pharmaceutical Science and Technology
Science of the Total Environment
Separation and Purification Technology
Trends in Environmental Analytical Chemistry
Water Research

Book chapters

Elsevier

Conference abstracts/papers

American Chemical Society
International Water Association

Organizations

American Chemical Society (ACS)
American Institute of Chemical Engineers (AIChE)
American Water Works Association (AWWA)
Association of Environmental Engineering and Science Professors (AEESP)
American Academy of Environmental Engineers and Scientists (AAEES)
Chesapeake Water Environment Association (CWEA)
Engineers Without Borders (EWB)
International Association for Hydro-Environment Engineering and Research (IAHR)
International Water Association (IWA)
Water Environment Federation (WEF)