






2018 Regional/ORD Community of Science Networking (ROCS-Net) Program Participant / Host Bio Guide

Regional and State Participants:

Region 1	 <p>Courtney Carroll is a human health risk assessor in the R1 Superfund Program and started at the EPA in 2015. She has a B.A. in Environmental Analysis and Policy from Boston University and an MPH in Environmental Health from Columbia University. Courtney provides technical support to Regional Project Managers and has assisted on a number of PFAS consults in the region. Courtney is an active member of many groups within EPA R1, including the Regional Science Council, the Federal Women's Program, and the Sustainability/Resiliency Peer Network group. In her spare time, Courtney volunteers with a group called One Brick and plays in social sports leagues.</p> <p><i>EPA Region 1 / Office of Site Remediation and Restoration</i></p>
Region 1	 <p>Amy Parmenter is the enforcement manager and hydrogeologist for Rhode Island Department of Health's Center for Drinking Water Quality (RIDOH-DWQ). Amy supervises the Compliance, Capacity Development, and Operator Certification team and is the rule manager for the Groundwater Rule, Groundwater Under the Direct Influence of Surface Water, and the Unregulated Contaminant Monitoring Rule. She formerly managed the Radionuclides Rule, Surface Water Treatment Rule, Disinfection Byproducts Rule, and SOC Waivers, and at the beginning of her career worked on Source Water Protection and Sanitary Surveys. Amy has worked for RIDOH-DWQ for five years and previously worked for Oregon Health Authority's Drinking Water Program for nine years. Amy has a Bachelor of Science in Geology from James Madison University, a Master of Science in Hydrogeology from the University of Rhode Island, and is working on a Master of Public Administration.</p> <p><i>Rhode Island Department of Health</i></p>
Region 2	 <p>Nick Mazziotta is a risk assessor within the EPA Region 2 Superfund Technical Support Section responsible for evaluating the effects of toxic substances on human health and the environment at hazardous waste sites. Nick has been with EPA for two years and has provided technical support to various Superfund sites for three years as a Federal contractor prior to joining the Agency. During this time, his experience has included issues related to contaminants in soil, groundwater, fish, sediment and air as well as cleanup goal development and the selection of remedial alternatives. Nick has a Master's of Public Health from Columbia University and a Bachelor's degree in Biology from SUNY Oneonta.</p> <p><i>EPA Region 2 / Emergency Remedial Response Division</i></p>

Region 2	 <p>Brian Pachkowski is a member of the Division of Science, Research and Environmental Health at the New Jersey Department of Environmental Protection (NJDEP) where he is a research scientist who assesses the potential human health effects of chemicals in the environment. Additionally, he serves as a departmental liaison to the Public Health Standing Committee of the NJDEP Science Advisory Board. In this capacity he has worked on projects involving the potential human health effects of microplastics, the review of NJDEP's human health risk assessment practices, and the use of -omic technologies in environmental health research. Brian received his doctorate in environmental sciences and engineering from the University of North Carolina at Chapel Hill. Prior to joining the NJDEP in 2013, he was an Oak Ridge Institute for Science and Education (ORISE) postdoctoral fellow at the US Environmental Protection Agency's National Center for Environmental Assessment (Washington Division) where he participated in the development of human health assessments of environmental contaminants and conducted research on topics related to human health risk assessment.</p> <p><i>New Jersey Department of Environmental Protection</i></p>
Region 3	 <p>Kimberly Plank is a Biologist in the Technical Support Group in the Hazardous Sites Cleanup Division, serving in an advisory role for EPA site and project managers to develop and implement remedies and mitigation strategies to reduce risk to environmental receptors at Superfund sites. She ensures that CERCLA and NCP mandates as well as selected remedies are protective of the environment through involvement in all stages of the cleanup process. Risk assessments require knowledge of not just biology, ecology, organic/inorganic chemistry, statistics, but also of hazardous materials and how they affect natural systems, including fate and transport of contaminants in the environment as they manifest through water quality, toxicology, and food chain dynamics. Identification of ecological resources combined with an understanding of related regulations is essential for protection of aquatic and terrestrial species. Kimberly completed her Ph.D. in Biology at Rutgers University where she managed experiments in the laboratory, field, and greenhouse to investigate the ecological utility and evolutionary history of polyphenol oxidase in roots of invasive <i>Bromus</i> species. Prior to graduate school, she worked as a Research Technician at the Monell Chemical Senses Center after a B.S. in Biology at Temple University.</p> <p><i>EPA Region 3 / Hazardous Sites Cleanup Division</i></p>
	 <p>Brie Sterling is an environmental chemist with the Pennsylvania Department of Environmental Protection's (DEP) Bureau of Environmental Cleanup and Brownfields, Cleanup Standards Division. In this position for almost 5 years, she reviews human health and environmental risk assessments and works on revising technical guidance and regulations for the Act 2 program. Brie has been involved with the Interstate Technology and Regulatory Council's (ITRC) PFAS team as a writing subgroup co-lead since the inception of the team. Prior to her position in the Act 2 program, Brie worked as an analytical chemist at the DEP Bureau of Laboratories for 5 years. Brie has also worked as an analytical chemist at Osram Sylvania, McCreath Laboratories, and the Anniston Army Depot Chemical Weapons Destruction Facility. Brie has her B.S. in Chemistry from Millersville University of Pennsylvania.</p> <p><i>Pennsylvania Department of Environmental Protection</i></p>

Region 4	<div data-bbox="183 268 414 499" data-label="Image"> </div> <div data-bbox="430 268 1497 642" data-label="Text"> <p>Matthew J. Huyser has been an On-Scene Coordinator (OSC) with the U.S. EPA Region 4 since 2005 where he has served as the lead OSC on more than forty-two emergency responses and thirty-five removal actions, as well as a supporting role to many responses, assessments, removals and disaster response work. Matthew serves as the chair of the Science & Technology committee to the Region 4 Regional Response Team; and belongs to the Incremental Sampling Subcommittee, the Data Management Team, and the Engineering Forum. Matthew is the regional point-of-contact for the VIPER communications system and provides training to response partners on its use and implementation. His focus in the EPA Region 4 Emergency Response, Removal and Prevention Branch has been on information and data organization to support field response and removal work. Matthew earned a Bachelor's of Science in Biosystems Engineering from Clemson University in 2005 and has been licensed as Professional Engineer in the State of Georgia since 2011.</p> </div> <div data-bbox="1218 644 1513 667" data-label="Text"> <p><i>EPA Region 4 / Superfund Division</i></p> </div>
	<div data-bbox="183 703 414 934" data-label="Image"> </div> <div data-bbox="430 703 1490 1008" data-label="Text"> <p>Thomas Wallace has over 11 years of experience as a regulator and project manager in the Uncontrolled Sites Section and CERCLA branches in the Groundwater Assessment and Remediation Division for the Mississippi Department of Environmental Quality (MDEQ). Thomas' experience ranges from state voluntary programs, brownfields, CERCLA, and other programs dedicated to assessment and remediation of contaminated sites within the state of Mississippi. In addition, Thomas has spent the last 4 years as the Mississippi point of contact for the Interstate Technology and Regulatory Council. Thomas graduated from Mississippi State University with a B.S. in Chemical Engineering and is registered as a Professional Engineer with an emphasis in Environmental Engineering.</p> </div> <div data-bbox="1088 1010 1513 1033" data-label="Text"> <p><i>Mississippi Department of Environmental Quality</i></p> </div>
Region 5	<div data-bbox="183 1068 414 1299" data-label="Image"> </div> <div data-bbox="430 1068 1497 1339" data-label="Text"> <p>Camille Lukey is an Environmental Scientist in the Land and Chemicals Division at U.S. EPA Region 5 in Chicago, IL. She works in the Materials Management Branch, specifically dealing with non-hazardous waste regulations and sustainable materials management. Her work entails the oversight of coal combustion residue, non-hazardous secondary materials, disaster debris management planning, trash-free waters. She also serves as the technical contact for Ohio, Minnesota, and Michigan on site-specific and programmatic matters. Camille received her MPH in environmental and occupational health from Drexel University. When she is not celebrating everyday as Earth Day, Camille enjoys traveling, live music, and hanging with her dog, Dust Ball Jr.</p> </div> <div data-bbox="1136 1375 1513 1398" data-label="Text"> <p><i>EPA Region 5 / Land and Chemicals Division</i></p> </div>

Region 5



Holly Hillyer is an environmental supervisor in the Land Management Unit for the Division of Materials and Waste Management at Ohio EPA in Columbus, Ohio. She received her B.S. from Ohio State University before eventually joining Ohio EPA. She has spent the majority of her employment with Ohio EPA as a field inspector evaluating compliance at landfills, transfer facilities, scrap tire sites, infectious waste facilities, composting sites and open dumping locations throughout a 16-county territory in the Cincinnati area. After her fifteen-year career as an inspector there, Ms. Hillyer returned to Columbus, where she accepted a supervisor position in the Land Management Unit. In addition to her environmental career, Ms. Hillyer received her law degree from Chase College of Law at Northern Kentucky University in 2012. She was the only law student ever invited to speak at the nationally recognized environmental law colloquium at Vermont Law school, where her paper on the international environmental impacts of ship demolition was published. When she is not sharing her time between friends in Cincinnati and her family in Warren, Ohio, she travels – recently returning from a week-long trip across Cuba. She currently resides in Dublin, Ohio, a suburb of Columbus.

Ohio Environmental Protection Agency

Region 6



Andrea Abshire is an Environmental Scientist at US EPA Region 6 Office, Division of Water Quality, Drinking Water Section. She is currently the Louisiana Drinking Water State Program Manager. In addition, she also leads work associated with the Radionuclides Rule and Tribal data in SDWIS. Andrea joined EPA in 2006, where she has had the pleasure of serving in numerous capacities. She has reviewed and implemented environmental technical standards, guidelines, policies, and formal regulations, especially those relating to the SDWA for Region 6 Tribal Governments and Regional State partners. She has served as a technical authority providing expert advice and assistance to state, local and tribal governments. Working collaboratively on matters relating to the development, execution and monitoring of the most complex and politically sensitive SDWA drinking water system activities, protection policies, regulations and guidance as well as responding to citizen inquiries regarding drinking water quality. Currently, she is the EPA Region 6 state program manager for Louisiana, as well as, managing and determining tribal drinking water compliance in SDWIS for 83 tribal drinking water systems in 66 tribal nations.

EPA Region 6 / Water Division



John Williams is currently the Deputy Chief of Field Operations for the Louisiana Department of Health, and has been with the agency since 2001. As Deputy Chief his primary responsibility involves providing programmatic oversight to Louisiana's Safe Drinking Water Program, which includes technical assistance, training, and guidance to a staff of 10 engineers and 12 sanitarians. Mr. Williams geographic area of responsibility consists of about half of the state, including the city of New Orleans and Baton Rouge. Mr. Williams works closely with the regulated community, businesses, municipalities, parish governments, home owner associations, and residents. On occasion he also acts as spokesman, representing the agency to the public and news media. Prior to working for LDH, Mr. Williams worked for 10 years as a consultant with a small, professional environmental engineering company located in Greater New Orleans area. Mr. Williams received his B.S. in Civil Engineering in 1989 from the University of New Orleans. He is also a registered Professional Engineer in Environmental Engineering.

Louisiana Department of Health

Region 7	<div data-bbox="181 268 410 499" data-label="Image"> </div> <div data-bbox="430 268 1521 640" data-label="Text"> <p>Kimberly Burr recently joined the Superfund Division of Region 7 in the Lead Mining and Special Emphasis Group. Her 10-year career with Region 7 EPA has previously been focused on working with the nine federally-recognized Tribes in Region 7 in maintaining compliance with the Clean Water Act and the Safe Drinking Water Act. She spent a detail in Superfund in the last quarter of 2017 focusing on the development of a Region 7 Superfund Roadmap to implement in the event of PFAS detection at a National Priorities List site. The Roadmap included tiering criteria to rank the risk for PFAS contamination at NPL sites in Region 7, a PFAS Communication Plan and a PFAS Health Advisory template. Before joining Region 7 EPA in 2008, Kimberly was the Environmental Services Manager for the City of St. Joseph, Missouri and worked at Quintiles in the Toxicology and Pharmaceutical Research Division in Kansas City, Missouri. She received her B.S. in Biochemistry from Missouri Western University in St. Joseph, Missouri in 2002.</p> </div> <div data-bbox="1219 644 1521 667" data-label="Text"> <p><i>EPA Region 7 / Superfund Division</i></p> </div>
	<div data-bbox="181 701 410 932" data-label="Image"> </div> <div data-bbox="430 701 1521 871" data-label="Text"> <p>Scott Nightingale is an Environmental Specialist with the Kansas Department of Health and Environment. He has been with the department for 28 years, with experience in RCRA, CERCLA, CAA, and a variety of other environmental programs. Scott's current responsibilities include reviewing human health risk assessments and calculating risk-based cleanup values for contaminants in soil and groundwater.</p> </div> <div data-bbox="1104 907 1521 930" data-label="Text"> <p><i>Kansas Department of Health and Environment</i></p> </div>
Region 8	<div data-bbox="181 968 410 1199" data-label="Image"> </div> <div data-bbox="430 968 1521 1203" data-label="Text"> <p>Seth Tourney is an Environmental Engineer serving as the Disinfection Byproduct Rule Manager in the drinking water program for EPA Region 8. Seth has 16 years of professional experience serving in private consulting, local, state, and federal government sectors. Seth is a professional engineer and a certified drinking water operator. Seth holds a B.S. in Civil Engineering from Colorado State University and a M.E. in Environmental Engineering from the University of Florida. He currently lives in Fort Collins, Colorado with his wife Angela and three kids, Juliette, Liam, and Annalise.</p> </div> <div data-bbox="964 1205 1521 1228" data-label="Text"> <p><i>EPA Region 8 / Office of Partnerships and Regulatory Assistance</i></p> </div> <div data-bbox="181 1264 410 1495" data-label="Image"> </div> <div data-bbox="430 1264 1521 1604" data-label="Text"> <p>Kristy Richardson is an environmental toxicologist at the Colorado Department of Public Health and Environment, where she provides subject matter expertise on environmental chemistry, risk assessment and toxicology. Kristy's work includes leading the fish consumption advisory program, developing and revising human health-based water quality standards, assessing environmental contamination to determine appropriate means to protect public health and the environment, communicating exposure risks to the public, and providing technical expertise to other state agencies. Recently, Kristy has served as the state surface and groundwater lead for the multi-agency team formed in response to the discovery of perfluorinated chemicals south of Colorado Springs. Kristy has a doctorate in Environmental Toxicology from the University of California, Riverside and a bachelor's degree from St. Mary's College of Maryland.</p> </div> <div data-bbox="1032 1606 1521 1629" data-label="Text"> <p><i>Colorado Department of Public Health and Environment</i></p> </div>

Region 9	<div data-bbox="180 268 407 499" data-label="Image"> </div> <div data-bbox="423 268 1521 640" data-label="Text"> <p>Mark Duffy is a geologist (B.S. degree) with over 13 years of experience working as an environmental consultant and civil servant. He has been at USEPA Region 9 since 2016. Throughout his career he has focused on the investigation and remediation of petroleum hydrocarbons, chlorinated solvents, PCBs, hexavalent chromium, and perchlorate subsurface contamination; as well as hydrogeology, high resolution site characterization, strategic planning, and project management. At USEPA Region 9 he provides regulatory oversight for Resource Conservation and Recovery Act (RCRA) Corrective Action and Toxic Substances Control Act (TSCA) cleanup sites, and applies his experience by implementing policy, regulations, and scientific guidelines. He is involved with several large and complex projects with multiple stakeholders, including the Nevada Environmental Response Trust perchlorate cleanup in Henderson, NV. Mark is a licensed Professional Geologist in the State of California.</p> </div> <div data-bbox="1255 640 1521 667" data-label="Text"> <p><i>EPA Region 9 / Land Division</i></p> </div>
Region 9	<div data-bbox="180 699 407 930" data-label="Image"> </div> <div data-bbox="423 699 1521 1108" data-label="Text"> <p>Alan Pineda obtained his Bachelor of Science in Civil Engineering degree from the University of Nevada, Las Vegas. During his time in college, Alan worked as a water quality intern for the Las Vegas Valley Water District. Following graduation, Alan moved to Carson City, Nevada to work as a Staff Engineer for the Nevada Division of Environmental Protection (NDEP) Bureau of Water Pollution Control, where he was responsible for the issuance of permits for discharges to Waters of the State. After two years in that position, Alan returned to Las Vegas to work as a Staff Engineer for the NDEP Bureau of Industrial Site Cleanup, which oversees environmental remediation activities for sites located within the Black Mountain Industrial Center near Henderson, Nevada. Alan is currently the case officer for Endeavour, LLC (formerly known as AMPAC/PEPCON), and is also involved with oversight activities for the Nevada Environmental Response Trust, both of which are responsible for the remediation of perchlorate-contaminated groundwater. Alan recently passed the PE exam and looks forward to becoming a licensed Professional Engineer later this year.</p> </div> <div data-bbox="1115 1108 1521 1136" data-label="Text"> <p><i>Nevada Division of Environmental Protection</i></p> </div>
Region 10	<div data-bbox="180 1167 407 1398" data-label="Image"> </div> <div data-bbox="423 1167 1521 1476" data-label="Text"> <p>Ted Repasky is a hydrogeologist for EPA Region 10 Risk Evaluation Unit. Ted comes to EPA with over thirty years of professional experience in the fields of hydrogeology, geophysics, and geology. His previous job was with EnergySolutions working on the Department of Energy Hanford site overseeing field sampling teams, geophysical log interpretation and mapping, and proposal development. Before that, he worked with the Confederated Tribes of the Umatilla Indian Reservation and the Yakama Nation as a project manager and as a hydrogeologist, geophysicist, and geologist. He holds two master's degrees; one in hydrogeology and one in geophysics. Ted has been working on high-profile Superfund and drinking water projects with EPA including sites with PFAS contamination, mines and mine waste contamination, and sites contaminated within the hyporheic zone.</p> </div> <div data-bbox="946 1507 1521 1535" data-label="Text"> <p><i>EPA Region 10 / Office of Environmental Review and Assessment</i></p> </div> <div data-bbox="180 1566 407 1797" data-label="Image"> </div> <div data-bbox="423 1566 1521 1808" data-label="Text"> <p>Henning Larsen is a senior hydrogeologist for the Oregon Department of Environmental Quality. After starting his career in the mining industry, he's been with ODEQ for 25 years spending the majority of his time investigating and remediating groundwater contamination and developing related Department policy and guidance. Mr. Larsen has a bachelor's degree in Geology from Humboldt State University, and a master's degree in Civil Engineering from Oregon State University with an emphasis on groundwater modeling. He is an Oregon registered geologist and has been a State participant in EPA's Groundwater Forum since 2007.</p> </div> <div data-bbox="1105 1839 1521 1866" data-label="Text"> <p><i>Oregon Department of Environmental Quality</i></p> </div>

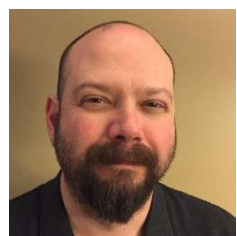
EPA Office of Research and Development (ORD) Hosts:

National Center for Environmental Assessment (NCEA):



Belinda Hawkins began her career at EPA as a Toxicologist within the Office of Research and Development's National Center for Environmental Assessment (NCEA) and has now been serving as the Branch Chief for the Chemical Risk Assessment Branch within NCEA for the past 12 years. In addition to her time at EPA, she also served two tours of duty as a Commissioned Officer with the US Public Health Service - the first with the Indian Health Service and the second with EPA Region IX. Her work at EPA has focused on the development of human health assessments within EPA's Integrated Risk Information System (IRIS) and Provisional Peer-Reviewed Toxicity Value (PPRTV) programs and on developing methods and guidance to expand and advance the field of risk assessment. She has a Bachelor's Degree in Environmental Health and Industrial Hygiene from Indiana State University and a dual PhD in Pharmacology and Toxicology and Environmental Toxicology from Michigan State University where her research focused on elucidating the biochemical mechanisms involved in xenobiotic-induced diabetes.

Cincinnati Division / Chemical Risk Assessment Branch



Scott Wesselkamper is a Biologist at the U.S. EPA's National Center for Environmental Assessment (NCEA) in Cincinnati, OH. His specific area of expertise is the qualitative and quantitative assessment of human health risks posed by environmental contaminants. He received his PhD degree in Environmental Health Sciences from New York University's Department of Environmental Medicine in 2002 with a research concentration in inhalation toxicology. He then completed postdoctoral training at the Department of Environmental Health in the University of Cincinnati's College of Medicine where he focused on toxicogenomics. Since joining NCEA in 2009, he has shifted the focus of his work from bench research to human health risk assessment, and his main contributions include providing scientific leadership and program management as the Director/Task Lead of the Superfund Health Risk Technical Support Center (STSC), facilitating the generation of key EPA hazard and dose-response risk assessments on several contaminants, and supplying expert scientific/technical consultations in support of EPA Regional and Program partners. Dr. Wesselkamper has also made innovative contributions toward the development and application of alternative methodologies and scientific data streams to advance human health risk assessment, and has co-authored several peer-reviewed journal articles and an EPA report on this topic.

Cincinnati Division / Biological Risk Assessment Branch



Jay Zhao is a board-certified toxicologist with U.S. EPA, National Center for Environmental Assessment (NCEA) and is responsible for developing chemical risk assessment documents such as Provisional Peer Reviewed Toxicity Values (PPRTV). Dr. Zhao obtained a medical degree and M.P.H. from Shanghai Medical University, and a Ph.D. in Toxicology from University of Cincinnati. Before he joined U.S. EPA in 2007, he worked in Toxicology Excellence for Risk Assessment (TERA) for 10 years. He specializes in dose-response analysis and human health risk assessment, and has extensive experience in using and teaching the use of Benchmark Dose (BMD) modeling, dosimetric adjustment, and Chemical Specific Adjustment Factor (CSAF) methods in risk assessment. He has developed and provided training on these topics at national Society for Risk Analysis and Society of Toxicology conferences, local and regional toxicology and risk assessment conferences, as well as invited workshops to various government agencies for more than fifteen years.

Cincinnati Division / Chemical Risk Assessment Branch

NCEA

National Exposure Research Laboratory (NERL)

NERL



Susan T. Glassmeyer is a research chemist in the US Environmental Protection Agency's Office of Research and Development, National Exposure Research Laboratory. Dr. Glassmeyer earned a Bachelor of Science in chemistry from Xavier University, and a Master of Science in Environmental Science and Doctor of Philosophy degrees from Indiana University. Dr. Glassmeyer's research is focused on contaminants of emerging concern (CECs) in the water cycle, both chemicals (such as pharmaceuticals) and microorganisms. She has coordinated several projects examining the occurrence, fate and transport of CECs in wastewater, surface water, ground water and drinking water.

Systems Exposure Division / Environmental Futures Analysis Branch

National Homeland Security Research Center (NHSRC):

NHSRC



Tim Boe is a Geographer with the U.S. EPA's National Homeland Security Research Center. Timothy's work primarily focuses on response and waste management issues following chemical, biological, radiological and nuclear (CBRN) incidents. He has also been developing computer-based decision support tools to aid decision makers in responding to wide-area contamination incidents. Before joining the EPA, Timothy worked as an Oak Ridge Institute for Science and Education (ORISE) Fellow where he conducted research on wide area CBRN remediation. Timothy has a M.S. and a B.S. in Applied Science from Arkansas Tech University.

Decontamination and Consequence Management Division



Sandip Chattopadhyay is a chemical engineer with U.S. EPA's Threat and Consequence Assessment Division. During the past 20 years, Sandip has provided technical support to various federal agencies, state, and local governments. His experiences include program/project management, application of innovative technologies under a broad range of environmental areas with emphasis on sampling, handling, identification and decontamination of biological and chemical agents/simulants in water, air, soil, solid surfaces, and other matrices; laboratory-, bench-, pilot-, and full-scale treatability and field studies; development and evaluation of computer models and decision support tools; quality assurance; and technology transfer. Sandip received his Ph.D. from The Ohio State University.

Threat and Consequence Assessment Division



John Lipscomb is a board-certified toxicologist with 20-plus years' experience in human health risk assessment at the federal level. He has served as Chemical Manager for IRIS and PPRTV risk assessments, as co-lead for EPA guidance on quantitative risk assessment, and he has edited texts and presented training on toxicology, toxicokinetics and risk assessment focused on single chemicals and chemical mixtures. He is responsible for leading and guiding the development of risk values used for compliance monitoring and managing responses to unanticipated exposures. He is a member of AIHA's Emergency Response Planning Guideline committee, NSF International's Health Advisory Board, and an adjunct associate professor of Toxicology at the University of Louisville. His primary responsibility in the National Homeland Security Research Center is assessing the risks from acute and short duration exposures to toxic industrial chemicals and chemical threat agents that might occur from accidents, terrorist activities or natural disasters. These [Provisional Advisory Levels](#) are developed per peer reviewed methods and quantify risk at exposures otherwise characterized as "exceedances". This critical information supports emergency planning scenarios and guides response and remediation operations.

Threat and Consequence Assessment Division



Stuart Willison received his Ph.D. in chemistry from the University of Cincinnati. He joined EPA's National Homeland Security Research Center in Cincinnati, OH in 2008 as a chemist and has been involved in the Center's chemical research. His work primarily focuses on chemical method development and supporting NHSRC's Selected Analytical Methods Program for environmental remediation following a contamination incident. Since joining EPA, Dr. Willison has published numerous chemical methods and reports for the Agency and in peer-reviewed scientific journals related to sampling and characterization of hazardous chemicals. His research areas include sampling and analysis in a variety of environmental matrix types, such as soil, water, and surfaces most commonly found in urban settings.

Threat and Consequence Assessment Division

National Risk Management Research Laboratory (NRMRL)



Carolyn Acheson is a chemical engineer at the U.S. Environmental Protection Agency's Office of Research and Development, National Risk Management Research Laboratory. She earned a Bachelor of Chemical Engineering from the University of Delaware and a Doctor of Philosophy from Cornell University. Dr. Acheson's research has considered a variety of risk management technologies and chemicals including: polycyclic aromatic hydrocarbons; chlorinated solvents; alkyl phenol ethoxylates and their degradation products; and per- and poly-fluorinated alkyl substances (PFAS). Current research efforts include evaluating attenuation of chemicals when biosolids are land applied, evaluating PFAS transformation and partitioning in model wastewater reactors, and characterizing contaminated sites where PFAS products were used.

Land and Materials Management Division / Remediation and Technology Evaluation Branch



Nick Dugan is an environmental engineer in the National Risk Management Laboratory's Water Systems Division. He has assisted in, performed or supervised bench- and pilot-scale drinking water treatment studies in the following areas: inactivation of cryptosporidium oocysts through ozonation; removal of cryptosporidium oocysts through coagulation, sedimentation and filtration; removal of disinfection by-product precursors through coagulation and biological filtration; removal of pesticides through coagulation; removal of nitrate, perchlorate, and bromate through anaerobic fixed-bed biological treatment; removal of cyanobacteria through filtration; adsorption of cyanobacterial toxins by powdered activated carbon; and the impact of water treatment oxidants on the release of toxins from cyanobacterial cells. He is currently serving as a co-project lead in ORD's Safe and Sustainable Water Resources research program, and as a member of the technical advisory committee for the Water Research Foundation's harmful algal bloom research focus area. Nick is licensed as a Professional Engineer in Ohio and holds a BA in Economics from Carleton College, a BS in Civil and Environmental Engineering from the University of Cincinnati, and an MS in Environmental Engineering from the University of Cincinnati.

Water Systems Division / Drinking Water Systems Branch



Robert Ford provides leadership and technical expertise to support the restoration and redevelopment of industrial and urban brownfield properties. Robert's focus and expertise is in development of technical knowledge and tools/processes that can be employed to facilitate cleanup of inorganic contaminants in groundwater and surface water systems. An example of past work includes collaboration with external technical experts and Agency Programs to develop technical guidance to support evaluation and selection of Monitored Natural Attenuation as a remedy component for cleanup of groundwater contaminated with arsenic and uranium. More recent work includes implementation of field research to support Regional Offices tackling cleanup at large, complex Superfund sites. This work incorporates development of new methods and analysis procedures that are cost-effective and easily implemented. This research provides direct benefit to Federal, State and Municipal agencies tasked with the development of technical guidance/policy under CERCLA/RCRA statutes and the enforcement of environmental regulations.

Land and Materials Management Division / Remediation and Technology Evaluation Branch



Bob Lien is a research scientist at EPA ORD NRMRL-Cincinnati. Bob's primary areas of research focus on groundwater and surface water interaction, site characterization, and contaminated sediment assessment and management. Bob is the Principal Investigator on the development of spreadsheet tools for analysis of groundwater seepage flux using sediment temperatures, as well as spreadsheet tools for visualization of temporal-spatial seepage flux distribution map of field sites. Bob received his B.Sc. in Soil and Water Conservation from the National Chung Shing University in Taiwan, and M.Sc. in Soil and Water Science from the University of Arizona.

Land and Materials Management Division / Remediation and Technology Evaluation Branch



Heath Mash is a Chemist with EPA's Office of Research and Development, National Risk Management Research Laboratory in Cincinnati, Ohio, where he specializes in analytical chemistry with regards to drinking water treatment. In addition to working with cyanobacterial toxins, Dr. Mash has worked with estrogenic and androgenic compounds and performed disinfection by-product studies. He has a Ph.D. in Environmental Science from The Ohio State University and a B.S. in Chemistry and Physics from Old Dominion University.

Water Systems Division / Drinking Water Systems Branch



Marc A. Mills is an Environmental Engineer at the U.S. EPA's Office of Research and Development and is a principal investigator for projects characterizing the occurrence, transport, and fate of contaminants of emerging concern (CECs) and legacy contaminants in the environment and the management of contaminated sediments. Dr. Mills leads research to identify sources of contaminants to aquatic systems and tracing their movement through the environment and the food web. He also leads the development of analytical methods for CECs (e.g. PFAS, EDCs, PPCPs) and stable isotope chemistry for environmental samples in water, wastewater, solids, and tissues at the National Risk Management Research Laboratory for U.S. EPA. These methods are used to characterize potential sources of CECs and legacy contaminants, their management in water, wastewater treatment, and new technology development. Dr. Mills has a B.S. in Civil/Environmental Engineering from Texas A&M University and a M.S. and Ph.D. from the Texas A&M University.

Land and Materials Management Division / Remediation and Technology Evaluation Branch



Hodon Ryu received his doctoral degree from the Department of Civil and Environmental Engineering at Arizona State University in 2003. Dr. Ryu is currently an Environmental Engineer/Microbiologist at U.S. EPA. His main research interests lie in health-related environmental microbiology and biotechnology. Briefly, these include the following: 1) water treatment processes for the removal of microbial contaminants, 2) pathogen detection and quantitative microbial risk assessment, 3) microbial community characterization and bioinformatics, and 4) sustainable energy saving wastewater treatment systems. He particularly focuses on interdisciplinary research (i.e., hybrid engineering and microbiology studies) based on his current and past research endeavors and their close alignment with EPA's existing strengths and expertise in environmental research and technology. More recently, he has conducted a proof-of-concept study using integrated biophotovoltaics (BPVs) and microbial electrochemical (MEC) technologies to remove three major wastewater contaminants and to recover value-added products during treatment processes. He is currently collaborating with Dr. Woohyoung Lee at University of Central Florida regarding a novel symbiotic microalgae integrated fixed film activated sludge (MAIFAS) process for photo-oxygenation and nutrient removal. He has published more than 70 papers in peer-reviewed journals and presented over 100 abstracts in international and domestic conferences.

Water Systems Division / Drinking Water Systems Branch



Thabet Tolaymat is a solid waste engineer at the U.S. EPA's Office of Research and Development in Cincinnati. He leads research in materials and waste management as a project lead and as a researcher with emphasis on performance issues associated with RCRA waste disposal facilities including elevated temperatures in landfills including Countywide LF (Ohio), and Bridgeton LF (MO). He also leads research on materials management focus in construction and demolition debris recycling and management options. Dr. Tolaymat is often sought out to provide technical assistance to transfer what is learned in research to U.S. EPA regions and states. A recognized international researcher, Dr. Tolaymat has aided international organizations via the US Embassy Fellowship program in Jordan and has been an invited workshop participant in Taiwan, Russia and Hong Kong. He has published more than 50 journal articles and technical reports and he has recently co-authored a book on sustainable landfilling.

Land and Materials Management Division / Materials Management Branch



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Water Systems Division / Drinking Water Treatment and Distribution Branch