

Association of Clean Water Administrators **2020 National CAFO Roundtable**

**Virtual Meeting
September 22-24, 2020**

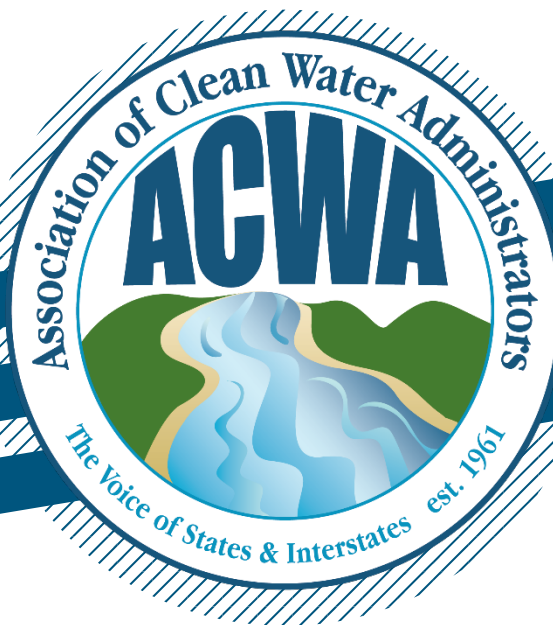
PURPOSE

The 2020 National CAFO Roundtable supports the implementation of animal agriculture programs nationwide by sharing new technologies/best management practices, showcasing innovative state programs and initiatives, highlighting modern technologies, facilitating discussion on national program enhancements and improvements, identifying state resource needs including tools, training and guidance, and proposing solutions to challenges and barriers faced by the regulators and other stakeholders.

ATTENDEES

The CAFO Roundtable is the biannual meeting of state AFO/CAFO regulators and EPA regional and headquarters representatives. Attendees include:

- State managers, permit writers, inspectors, and compliance staff involved in regulating AFOs/CAFOs
- EPA Headquarter and Regional staff involved in AFO/CAFO regulation
- Partnering state/federal agency staff that provide technical/regulatory assistance to AFOs/CAFOs
- Invited guests



SPECIAL THANKS TO THE PLANNING COMMITTEE

Marty Haroldson (ND), Wym Matthews (OR Ag), Jennifer Molloy (EPA HQ), Nick Peak (EPA R10), Rebecca Perrin (EPA R8), Chery Sullivan (WA Ag), Bruce Washburn (MI), Kent Woodmansey (SD), Neil Zahradka (VA), Qian Zhang (R8).

This meeting is only open to States, EPA co-regulators, presenters, and invited guests.

12:30 PM – 1:15 PM

Welcome & Opening Remarks

Sean Rolland, Deputy Director, Association of Clean Water Administrators

Kent Woodmansey, Engineering Manager Feedlot Program South Dakota

Department of Environment, and Natural Resources, Chair Rural Workgroup

Andrew Sanyers, Director, Office of Wastewater Management, Environmental Protection Agency

Carrie Vincenta Meadows, Agriculture Advisor, Environmental Protection Agency

1:15 PM – 2:00 PM

Overview of North Dakota Program

Marty Haroldson, North Dakota Department of Environmental Quality

Amber Boeshans, North Dakota Livestock Alliance

Scott Ressler, North Dakota Stockmen's Association

2:15 PM – 3:15 PM

Tile Drains – Minimizing Manure Nutrient Transport

Eric Cooley, Discovery Farms

William Matthews, Oregon Department of Agriculture

Michael Schmidt, Iowa Environmental Council

3:30 PM – 4:15 PM

Nutrient Management to Protect Water Quality

Andrew Sharpley, University of Arkansas

4:15 PM – 5:00 PM

Updating Permits - Expanding Manure Restrictions

Chris Clayton, Wisconsin Department of Natural Resources

Aaron O'Rourke, Wisconsin Department of Natural Resources

Bruce Washburn, Michigan Department of Environment, Great Lakes, and Energy

5:00 PM

Adjourn



This meeting is only open to States, EPA co-regulators, and invited guests.

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|--------------------|--|
| 12:30 PM – 1:30 PM | <p>Large Storm Impacts on Animal Feeding Operations
<i>Christine Lawson, North Carolina Department of Environmental Quality</i>
<i>Angie Maier, North Carolina Pork Council</i>
<i>Joseph Hudyncia, North Carolina Department of Agriculture</i></p> |
| 1:45 PM – 2:15 PM | <p>Types of Issues Inspectors are Finding at Animal Agriculture Facilities
<i>Cheryl Burdett, Environmental Protection Agency, Region 5</i></p> |
| 2:15 PM – 3:00 PM | <p>Region 6 Compliance Assistance Tools for CAFOs
<i>Abu Senkayi, Environmental Protection Agency, Region 6</i>
<i>Collin Martin, Environmental Protection Agency, Region 6</i></p> |
| 3:15 PM – 4:00 PM | <p>Environmental Justice
<i>Neil Zabradka, Virginia Department of Environmental Quality</i>
<i>Charles Lee, Environmental Protection Agency</i></p> |
| 4:15 PM – 5:00 PM | <p>COVID-19 – Lessons Learned
<i>Michael Formica, National Pork Producers Council</i>
<i>Clay Detlefsen, National Milk Producers Federation</i></p> |
| 5:00 PM | <p>Adjourn</p> |



THURSDAY, SEPTEMBER 24

This meeting is only open to States, EPA co-regulators, and invited guests.

12:30 PM – 1:30 PM

Technology & Innovation: Precision Agriculture

Dr. John Fulton, Ohio State University

Dr. Josh McGrath, University of Kentucky

1:45 PM – 2:45 PM

Technology & Innovation: Dairy Digesters & Nutrient Recapture

Jon Van Nieuwenhuizen, Werkhoven Dairy Inc

Carl Ramsey, Prairie's Edge Farm, Fair Oaks, Indiana

3:00 PM – 4:45 PM

Animal Agriculture Program Challenges: An Industry Perspective

Tom Hebert, Bayard Ridge Group

Michael Formica, National Pork Producers Council

Paul Bredwell, US Poultry and Egg Association

Scott Yager, National Cattlemen's Beef Association

4:45 PM – 5:00 PM

Wrap Up and Adjourn

Marcus Zobrist, Chief of the Industrial Branch, Environmental Protection Agency

Sean Rolland, Deputy Director, Association of Clean Water Administrators



SPEAKER BIOGRAPHIES

Amber Boeshans (Bay - saw - nce) has been the Executive Director of the North Dakota Livestock Alliance (NDLA) since its creation in 2017. As NDLA's Executive Director, she provides assistance to producers from all animal ag species to expand or build new operations. She also works with local zoning leaders to provide transparency regarding livestock development and environmental stewardship practices. Before joining NDLA, Amber was a Livestock Development Specialist for the North Dakota Department of Agriculture and an Assistant Dairy Herd Manager for herds in North and South Dakota.

Paul Bredwell - A bio was unavailable at the time of this printing.

Cheryl Burdett, prior to working for the EPA, worked for the U.S. Fish and Wildlife and Indiana Dunes National Park. She has been an employee of Region 5 Water Enforcement and Compliance Assurance Branch (WECAB) for 17 years where, as an inspector and enforcement officer, her primary focus has been on Animal Feeding Operations. Cheryl is currently the CAFO Program Manager for Region 5 WECAB and has worked on hundreds of Animal Feeding Operation cases of various animal types and sizes covering issues that include ground water, surface water, land application, and permit violations. Her aerial targeting program for the Region 5 CAFO program resulted in an 80% enforcement rate. Cheryl is married with three kids, two dogs and a cat. Her outside interests include her love for the outdoors which includes hiking, skiing, and kayaking. Cheryl also plays on a volleyball and soccer league.

Chris Clayton is Chief of the Agricultural Runoff Section, which includes the CAFO and Agricultural Nonpoint Source Programs at the Wisconsin Department of Natural Resources. Prior to joining the DNR in 2019, he worked for the WI Department of Agriculture, Trade and Consumer Protection on livestock facility siting, drainage district, and land and water conservation issues. Chris has also has experience working on watershed restoration projects and coordinating a volunteer stream monitoring program for the state of Wisconsin.

Eric Cooley is Co-Director of Discovery Farms who coordinates water quality research efforts, collects and disseminates data and develops educational materials based on Discovery Farms' research results. Eric received his B.S. in Soil and Water Conservation and M.S. in Soil Physics from UW-Madison. He specializes in surface water runoff and tile drainage.

Clay Detlefsen progressively represented the interests of the dairy industry for 25 years at the International Dairy Foods Association (IDFA) in Washington, D.C. using a unique blend of scientific, legal and business skills. In August 2014, he joined the National Milk Producers Federation (NMPF), where he is responsible for issues related to food safety and defense, dairy food labeling and environmental issues and is engaged in numerous homeland security activities and is chair of the Food and Agricultural Sector Coordinating Council (FASCC). Clay has a BS in Microbiology, an MBA and a law degree and has been a member of the MD Bar since 1997.

Michael Formica is a Washington, D.C. based lawyer with significant experience before all three branches of the federal government. With significant expertise in crisis management, Mr. Formica represents the nation's pork industry on a range of issues including environmental, occupational safety and health, transportation, and production issues impacting the nation's hog and livestock farmers. Prior to joining NPPC, Mr. Formica was previously with the U.S. Chamber of Commerce and also served as an attorney in private practice representing a diverse array of clients on federal matters.

John Fulton is a Professor in the Food, Agriculture and Biological Engineering Department at the Ohio State University. His research and extension focuses on precision agriculture, machinery automation and use of spatial data to improve crop production and the farm business. His recent research has been focused on development of sensors and new technology for placement of fertilizers and manure. He has helped build an internationally recognized precision ag program at Ohio State and serves in various leadership and advisory roles within professional societies and agencies including being the president-elect for the International Society of Precision Agriculture.

Marty Haroldson started his career in the Permits Program in 2001 and became Manager of the program in 2014. He attended North Dakota State University from 1995-1998, where he got his degree in Fisheries and Wildlife Management (with a minor in Biology). While looking to develop program efficiency and transparency he strives on situational awareness and “working as one” for team building. As a dad of three young ladies, situational awareness is a must for his survival. It is this awareness and team building that drives him to push the envelope in developing processes and relationships that will stand the test of time.

Tom Hebert provides federal government affairs services to clients on matters involving agricultural policy, the environment, federal budget and appropriations, research, and energy. He works with Congress and federal agencies on legislation, rulemakings, litigation, and programs, drawing on deep expertise in matters involving the U.S. Department of Agriculture and the U.S. EPA. Tom began his career at the Office of Management and Budget in 1987. He served for 5 years as the senior economist for the Senate Agriculture Committee as the Senate’s day-to-day professional on conservation policy at USDA and agricultural and the environment issues. In this position, he also dealt with dairy policy and budget matters. From 1993 to 1998, he served as the USDA Deputy Under Secretary for Natural Resources and the Environment in the Clinton Administration. He entered the private sector in 1998 and, ten years ago, formed his own firm, the Bayard Ridge Group. Tom grew up in Michigan and holds an undergraduate degree in horticulture and a Master's of Science degree in agricultural economics, both from Michigan State University. He lives with his wife Susan and their two children in Washington, D.C.

Joe Hudyncia has been an Environmental Programs Specialist for NCDA&CS since April 2015. In that role he addresses environmental and natural resource issues affecting NC agriculture and advises the Commissioner of Agriculture and other Department officials on environmental issues associated with agriculture and agribusiness. Joe also works collaboratively with experts in multiple NCDA&CS divisions, representatives from cooperating programs, and industry partners within the State and across the Country in developing and maintaining capabilities for protection of animal health, mitigation of

impacts from animal health emergencies, and response and recovery during agriculture emergencies. Joe serves as departmental lead in the role of subject matter expert for mass mortality composting. As a member of the NCDA&CS Hurricane Florence Mass Mortality Leadership Team, Joe and colleagues were awarded the Excellence in Team Accomplishment award from the Commissioner of Agriculture in 2019. Prior to serving in this position, Joe was a State-wide Nutrient Management planner and technical trainer with the Department's Division of Soil and Water Conservation for seven years. Joe is a fellow of the NCSU-CES Natural Resources Leadership Institute. He holds a M.S. degree in Plant Pathology from NC State University and a B.S. in Environmental and Forest Biology from SUNY College of Environmental Science and Forestry at Syracuse University.

Christine Lawson is the lead engineer for Animal Feeding Operations Program in the NC Department of Environmental Quality, Division of Water Resources. The program is responsible for permitting, compliance, and enforcement for more than 2,300 permitted facilities including swine, dairy, and poultry with liquid waste management systems. Christine serves as the program's technical expert and is the engineer tasked with permitting all innovative and waste to energy systems for animal operations in NC, including more than 20 digesters. She is responsible for developing regulatory language, drafting state and NPDES general permits, and serves on interagency committees to provide guidance the regulated community. She has worked for the state's animal program for more than 14 years - six years of which Christine served at the AFO Program Manager. Christine has a BS in Biological & Agricultural Engineering from the University of Georgia and a Masters in Biological & Agricultural Engineering from the University of Kentucky. Christine and her husband, David, are the proud parents of Sydney, 9, and Matthew, 4.

Charles Lee is widely recognized as a true pioneer in the arena of environmental justice. He was the principal author of the landmark report, Toxic Wastes and Race in the United States. He helped spearhead the emergence of a national environmental justice movement and federal action including the First National People of Color Environmental Leadership Summit, Executive Order 12898, EPA's Office of Environmental Justice,

National Environmental Justice Advisory Council (NEJAC), and the Federal Interagency Working Group on Environmental Justice. Mr. Lee is currently the Senior Policy Advisor for Environmental Justice at the U.S. EPA. He held the development and implementation of EPA's agency-wide environmental justice strategic plans. He has served in multiple capacities, ranging from creating the United Church of Christ's environmental justice program to directing EPA's environmental justice office. Mr. Lee has authored numerous papers, reports, journals, and articles on environmental justice, and is also the recipient of many awards for his work over the past three decades.

Angie Martin is the director of government affairs and sustainability for the NC Pork Council, an association that represents the 47,000 North Carolinians that depend both directly and indirectly on pork production for their livelihoods. Maier has worked in and around NC politics for more than 20 years. Prior to joining the Council in 2007, she served as a policy analyst in the Office of the NC Speaker of the House of Representatives. She holds both a bachelors and masters degree in political science from North Carolina State University. Angie and her husband, Neal, reside in Raleigh and have one daughter.

Collin Martin is an NPDES CAFO inspector and Enforcement Officer in EPA's Region 6 Enforcement and Compliance Assurance Division. He started his career at EPA Region 6 as an ORISE intern in EPA's 404 program. From there, he joined the CAFO team and has spent the last five years inspecting AFOs and CAFOs across region 6's five-state area. Recently, he has spearheaded the CAFO team's Livestock Auction Initiative. This effort has sought to increase industry compliance with EPA CAFO regulations through innovative compliance assistance tools. He is a graduate of Texas A&M University and enjoys cooking, travelling, and a good cup of coffee.

William (Wym) Matthews has worked in the CAFO Program at the Oregon Department of Agriculture since 2002 and has managed the CAFO program since 2004. In 2012, Wym assumed the management of the department's Fertilizer Program and with those additional duties, now manages the spectrum of organic and synthetic nutrients and biological soil and plant amendments in Oregon. Wym is a Certified Crop Advisor (CCA #29830) and

and has been a member of the American Society of Agronomy since 1987. Wym is also a small grain, hay, and vegetable farmer and consults on regional agricultural and environmental issues.

Josh McGrath - A bio was unavailable at the time of this printing.

Carrie Vicenta Meadows joined EPA in March 2020 as the Agriculture Advisor to the Administrator. Carrie is a 16-year veteran of Capitol Hill where she worked extensively on agricultural policy. She served as lead agricultural policy advisor to Congressman Bob Goodlatte (VA-06) and successfully advanced several of his priorities in the 2014 Farm Bill. In 2015, Carrie was tapped to lead Congressman Dan Newhouse's (WA-04) team as Chief of Staff. Carrie is a native of Lynchburg, Virginia, and completed her undergraduate degree at James Madison University in Harrisonburg, Virginia.

Aaron O'Rourke grew up in SE Wisconsin and worked on multiple dairy farms throughout high school and college. After high school, Aaron received an Associate's Degree in Law Enforcement from Fox Valley Technical College in Appleton. He then transferred to the University of Wisconsin-Stevens Point where he received a Bachelors' Degree in Resource Management with a Soil Science Minor. Aaron began working for the Wisconsin DNR as a Nutrient Management Plan Reviewer in the CAFO program in 2016 and, as of May 2018, works as the Nutrient Management Program Coordinator in the CAFO program. Aaron is responsible for Nutrient Management Plan review for CAFO farms as well as policy making within the department for the CAFO program.

Carl Ramsey's love for agriculture was ignited through his upbringing on a small family farm in Northwest Indiana. He began his career after graduating from Purdue in the retail ag sales and plant management arena working for companies like the local co-op and Terra International. Seeking more stability and an ability to really make a difference in a team-centered operation, he left to become the Farm Manager at what is now Prairie's Edge Dairy Farm, LLC. From 1999 to 2008, he managed the daily production and harvest of corn, soybeans, and alfalfa, while also managing application of the farm's manure nutrients. Starting in 2008, his focus switched to operating the farm's methane digesters.

Scott Ressler is the Environmental Services Director for the North Dakota Stockmen's Association, where he works with beef producers to create solutions for environmental concerns through management and structural improvements. He provides technical and financial assistance to beef cattle operations using BMPs that enhance the environment and improve the productivity and profitability of each operation. The source of cost share for the BMPs comes from the Environmental Protection Agency Section 319 program. Scott, along with his wife and children, also operate a cow/calf ranch near Mandan, ND. He is a graduate of North Dakota State University.

Andrew D. Sawyers is the Director of the Office of Wastewater Management at the U.S. Environmental Protection Agency in Washington, D.C. He oversees the National Pollutant Discharge Elimination System (NPDES) program, the Clean Water Act's mechanism for the permitting of municipal and industrial discharge into surface waters of the U.S. As the Director of OWM, Andrew is also responsible for multiple technical and financial assistance tools for the development and maintenance of the country's wastewater infrastructure, including WIFIA, the Clean Water State Revolving Fund (SRF) and EPA's Water Finance Center. He previously worked for the Maryland Water Quality Financing Administration where he managed the state's Clean Water and Drinking Water SRFs and the Maryland's Chesapeake Bay Restoration Fund. Andrew has a Ph.D. from Johns Hopkins University in Geography and Environmental Engineering.

Michael Schmidt joined the nonprofit Iowa Environmental Council as its staff attorney in 2019 to work on clean water and renewable energy efforts. He was previously a staff attorney for the Minnesota Pollution Control Agency, where he focused on clean water and mining issues through enforcement, permitting, and rulemaking actions. He has also worked in the water program for the nonprofit Minnesota Center for Environmental Advocacy, where he engaged in legal and policy advocacy, including passage of the state's Clean Water Accountability Act. He has a law degree from the University of Minnesota and a B.A. in political science from the University of Iowa.

Dr. Abu Senkayi joined EPA Region 6 in 1997 as a CAFO permit writer and has served as EPA Region 6 CAFO Enforcement Coordinator since 2004. Before

joining EPA, Abu worked for the Railroad Commission of Texas for one year, as a Senior Soil Chemist responsible for regulating lignite surface mining and reclamation activities. From 1987 to 1996, Dr. Senkayi worked for PRC environmental consulting company providing technical support to EPA Region 6. Before that, Dr. Senkayi was a Research Scientist at Texas A&M University for 10 years. He taught a graduate course in clay mineralogy and published/co-authored more than 30 scientific publications in internationally recognized scientific journals.

Andrew Sharpley is a Distinguished Professor of soils and water quality with the Division of Agriculture, University of Arkansas System. He received degrees from the University of North Wales and Massey University, New Zealand and spent 25 years with the USDA-ARS in Oklahoma and then Pennsylvania. His research investigates nutrient cycling of in soil-plant-water systems in relation to agricultural production and water quality, focusing on the management of phosphorus in fertilizers and manures. He works closely with producers, farmers, and action agencies, stressing the dissemination and application of his research and is leading an on-farm program to show the benefits of conservation practices, which protect water quality and promote sustainability of farming systems. He was 2017 President of the Soil Science Society of America; is a Fellow of the American Society of Agronomy, Soil Science Society of America Soil, and Soil Water Conservation Society. In 2008, was inducted into the USDA-ARS Hall of Fame, received the 2011 Soil and Water Conservation Society Hugh Hammond Bennett Award, and the 2019 International Fertilizer Association's Norman Borlaug Award.

Jon Van Niewenhuyzen is a dairy farmer in Monroe, Washington. He, along with his family, farms 2,000 acres of alfalfa, corn, grass, and wheat, and cares for 3,000 head of Holstein dairy cows. Jon also voluntarily manages and runs operations at Qualco Energy. He has experience in running milk, cheese, and whey processing plants in California and Iowa. Jon studied ag-business at Dordt University. Jon's mission, along with his family, is to be exceptional stewards of the land, animals, water, equipment, and resources so that future generations may continue to farm. He enjoys being behind the scenes, "keeping it running."

Bruce Washburn has worked with the Department of Environmental, Great Lakes, and Energy for over 11 years. He is part of a team of compliance staff in the Concentrated Animal Feeding Operation Program that assists farms with protecting water quality. He is also the statewide program specialist and livestock committee chair where he works on broader program issues. Additionally, he works with non-permitted farms and watershed groups to address non-point source water quality concerns. Bruce earned his Bachelor of Science degree in Environmental Engineering from Michigan Technological University. He is also still active with his family's row crop farm in south-central Michigan where he enjoys taking time off to help.

Kent Woodmansey has worked for DENR for over 32 years in roles that protect the state's surface water quality. Since 1996, he has worked on four CAFO general permits, all of which have been contested, but became effective without an appeal. Kent leads a team of 12 engineers who primarily regulate 477 permitted CAFOs. His staff review permit applications which include engineering plans, specifications, and nutrient management plans, conduct inspections, and prepare enforcement actions. Kent has been an active ACWA member since 1999 and has been a co-chair of the Rural Workgroup since 2004.

Scott Yager is the Chief Environmental Counsel for the National Cattlemen's Beef Association and represents the cattle industry on a host of environmental issues before the U.S. Congress, the Executive Branch, and the Courts. Scott is a licensed attorney and has a certification in environmental law from the University of Maryland School of Law. He previously worked for the U.S. Environmental Protection Agency as a law fellow in the Office of Water where he worked on permitting issues related to feedlots, pesticide application, and logging activities. He made the move to NCBA six years ago and has loved every minute of working for cattle producers on these important issues. Scott lives in Silver Spring, Maryland with his wife Kelly and their 3 year old daughter, Cora.

Neil Zahradka is Manager of the Office of Land Application Programs at the Virginia Department of Environmental Quality. Land Application Programs are a subset of the Water Permitting Division at DEQ, and includes livestock and

poultry operations, biosolids, water reclamation and reuse, and beneficial reuse of industrial residuals. His responsibilities including managing a team that develops regulations in accordance with federal and state requirements, directly administering biosolids permitting and compliance activities in four of DEQ's six regional offices, and coordination of land application permitting and compliance activity statewide. Neil grew up on a peanut and grain farm, and received his formal education in Agricultural Engineering from Virginia Tech. He began his career as a nutrient management planner for the Virginia Department of Conservation and Recreation, and then spent seven years in the private sector managing land application of swine manure. Neil came to VA DEQ in 2004 as the Animal Feeding Operations Program Coordinator before assuming his current role in 2007.

Marcus Zobrist - A bio was unavailable at the time of this printing.