

3RD QUARTER, JULY 2022



AIR & WASTE MANAGEMENT
ASSOCIATION

UPPER MIDWEST SECTION

QUARTERLY NEWSLETTER

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A&WMA-UMS Member Spotlight



JOE CARLSON

Joe has been in his role as a project engineer for Braun Intertec for the last year and a half. Joe's work touches multiple areas of environmental compliance and permitting, but his primary focus has been air quality-related work. Prior to working at Braun Intertec, Joe was an air permit engineer at the Minnesota Pollution Control Agency (MPCA) for almost five years. He holds a Bachelor of Chemical Engineering from the University of Minnesota and is a die-hard Golden Gopher fan.

Joe first became involved with A&WMA shortly after starting his career at the MPCA, and he quickly took an interest in the initiatives of the Education Committee including coordinating the Conference on the Environment Student Challenge in 2020. Joe has served as the A&WMA-UMS Vice Chair since January 2022 and served as Secretary in 2020 and 2021. "Air and Waste Management Association has provided me with many great opportunities to connect with like-minded professionals who are committed to working toward meeting the environmental challenges ahead of us. I enjoy learning from experienced individuals and having a place to share some of my own insights and knowledge, as well." Joe's favorite part about attending A&WMA conferences is meeting new people and reconnecting with past colleagues.

Outside of work and A&WMA, Joe enjoys going for walks through the neighborhood with his wife, Meghan, son, Andy (2) and dog, Roxy. Joe also enjoys making frequent trips to the U of M campus to cheer on the Golden Gophers football and hockey teams, playing softball and tennis, and hunting and fishing with his dad and brother.

Safety Moment

This quarter's safety moment is about disposing household hazardous waste. According to the EPA, household hazardous waste is defined as "leftover household products that can catch fire, react, or explode under certain circumstances, or that are corrosive or toxic". Some examples of household hazardous waste are paints, cleaners, oils, batteries, and pesticides.

It is important that household hazardous wastes are used, stored, and disposed of properly according to instructions on the product label. Improper disposal such as pouring down the drain or taking it out with regular trash could harm human and animals, septic systems, and the environment.

Here are some safety tips about proper household hazardous waste management:

- Follow any instructions for use and storage provided on product labels
- Read product labels for disposal directions to reduce the risk of products exploding, igniting, leaking, mixing with other chemicals, or posing other hazards on the way to a disposal facility.
- Keep products in their original containers and never remove labels.
- When leftovers remain, never mix HHW with other products. Incompatible products might react, ignite, or explode, and contaminated HHW might become unrecyclable.

For more information please check out this link: [Household Hazardous Waste \(HHW\)](#)

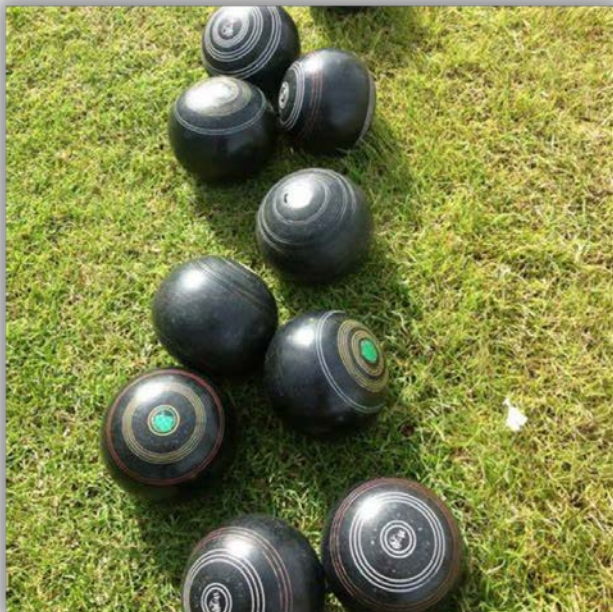


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A&WMA-UMS Past Event Highlights

Lawn Bowling and Happy Hour!

On July 6, 2022, the A&WMA Upper Midwest Section's Young Professionals (YP) Committee hosted a fun Lawn Bowling and Happy Hour event, taking advantage of the nice weather summer brings. Individuals came together to enjoy each other's company, and there was plenty of lawn bowling to be had. Anyone who is interested in helping out in future YP events are encouraged to reach the Young Professionals Committee Chair, Sam Helal at sam.helal@stantec.com.



A&WMA-UMS Upcoming Events

Sustainable Waste Management from an ESG Perspective

The Rocky Mountain States Section and Upper Midwest Section of A&WMA are pleased to announce an upcoming joint virtual meeting on Wednesday, July 13, 2022. The meeting will run from 11 am to 1 pm (Mountain Time), 12 pm to 2 pm (Central Time) and the topic is Sustainable Waste Management from an environmental, social and governance (ESG) Perspective. [REGISTER HERE!](#)

ESG criteria are increasingly being utilized as a set of standards to assess a company's performance. Following a presentation from Barr Engineering which will inform attendees on what ESG is and how it is applied, the following panelists will give their perspectives on sustainable waste management and the importance of reaching waste management goals in the age of ESG:

- JoAnne Berkenkamp, Managing Director - MBOLD
- Daniel Chang, Associate Engineer - Minnesota Technical Assistance Program
- Laura Rufin, Environmental Manager - Southwest Cheese Company
- Gregg W. Thomas, Director, Environmental Quality Division - Denver Dept. of Public Health and Environment



Arrowhead Environmental Conference

The Air and Waste Management Association's Upper Midwest Section (AWMA-UMS) and its partner the Minnesota Chapter of the Solid Waste Association of North America (SWANA) will be hosting the Annual Arrowhead Environmental Conference at the Blackwood's Event Center in Proctor, MN on September 7th. This event will feature Air, Water, Waste, Remediation and Land Use related topics relevant to the Arrowhead Region and Greater Minnesota. Call for presentations is currently open with final responses due on Friday July 29th. Registration will be opening soon as well.

A&WMA-UMS Upcoming Events



2022 Conference on the Environment

Mark your calendars for the 37th Annual Conference on the Environment (COE) which will be held IN-PERSON on Thursday, November 10, 2022.

This all-day conference brings together environmental professionals representing industry, consultants, government, and academia, in the areas of air quality, water quality, and waste management. Through keynote presentations and concurrent technical sessions, attendees will learn about new, relevant issues. The COE is co-hosted by the Upper Midwest Section of Air & Waste Management Association (A&WMA-UMS) and the Central States Water Environment Association (CSWEA) and has become one of the premier conferences in the Upper Midwest dealing with today's pertinent environmental issues.

Registration is not yet open for attendees and sponsors. Call for Presentations will be released soon!

2nd Annual North Dakota Regional Environmental Conference



Mark your calendars for the 2nd Annual North Dakota Regional Environmental Conference which will be held on Tuesday, September 20, 2022 at the National Energy Center of Excellence at Bismarck State College in Bismarck, North Dakota! This all-day conference invites environmental professionals representing industry, consultants, legal, government,

and academia serving in the areas of air quality, stormwater, water quality/wastewater treatment, waste management, and more. Through keynote presentations and technical sessions, attendees will learn about new, relevant issues and network with other professionals. The North Dakota Regional Environmental Conference is hosted by the Upper Midwest Section of Air & Waste Management Association (A&WMA-UMS).

If you are interested in speaking or know of a particular topic that you would like to hear presented, please consider the Call for Presentations (coming in July).

A&WMA-UMS News & Announcements

WAYS TO GET INVOLVED

What are ways I can get involved in the Air & Waste Management – Upper Midwest Section? There are currently two open committee chairs: the **Education Committee Chair** and the **Conference on the Environment Committee Chair**! We are always looking for new involvement in any of the committee at any time of the year! Elections for Officer positions open in October and there will also be one open Director position as well. Please see below for more information and feel free to reach out to the A&WMA-UMS Chair, Miranda Mair, at Miranda.Maire@awma-ums.org for with any questions or to get further information!



1. **Join a Committee.** Committees are a great first step to get involved in the A&WMA-UMS. Committees allow for members to interact in a smaller group, take ownership of specific events or tasks, and give their opinion on the direction of the organization. Committees typically meet once a month for an hour, with additional time needed for events or committee task completion. Please reference our website for more details on the committees by clicking the link below.

2. **Run for an Officer position.** There are four Officers of the A&WMA-UMS – Chair, Vice Chair, Secretary, and Treasurer. Each position is a one-year term. Descriptions of these positions can be found in the A&WMA-UMS bylaws, [HERE](#). Nominations for Officer positions will be posted to members in October of each year. Officers are expected to attend monthly board meetings (one hour/month), as well as complete required tasks for their position.

3. **Run for a Director position.** There are three Directors of the A&WMA-UMS. Directors are voting members who participate in each Board meeting. They also are the sole members of the Nominating Committee, who are in charge of annual Board elections. Each director position is a three-year term. Nominations for one Director position will be posted to members in October of each year. Directors are expected to attend monthly board meetings (one hour/month) and lead the election process in the fall.

Please take a look at our website for more details and information if you are interested in getting involved! [LINK HERE](#)

Upcoming A&WMA National Events

Guideline on Air Quality Models: Developing the Future

September 13-15, 2022 • Durham, North Carolina



Announcing the 9th Specialty Conference on issues related to the Guideline on Air Quality Models.

Building on past successes, this conference will cover the latest research, experience, and thoughts on the state of the Guideline (Appendix W to 40 CFR Part 51) in advance of the U.S. EPA's 13th Conference on Air Quality Models, expected in 2023.

The information discussed will provide an important basis for proposed changes to the Guideline and will be one of the first in-person opportunities to engage directly with EPA modeling staff in three years. The conference will open with a session devoted to invited presentations by EPA's Office Air Quality Planning and Standards (OAQPS) Air Quality Modeling Group. After this initial session, presentations for solicited topics will be grouped into sessions addressing major topics such as AERMOD, secondary pollutant formation, long-range transport, meteorological data, fluid dynamics and regulatory requirements.

[REGISTRATION INFORMATION HERE.](#)



The Air & Waste Management Association is proud to continue our focused conference on Freight and Environment: Ports of Entry.

Held in Oakland, CA on September 29-30, 2022, this in-person conference will explore many solutions to reduce the environmental impacts of all freight transportation, focusing on air quality, noise, climate change and sustainability.

The technical program will include panel discussions of experts in the field and forward-looking presentations on reducing impacts on the environment from experts in industry, consulting, government, and academia. The conference will bring together an international community of scientists, regulators, practitioners, and students to share ways to make freight more sustainable. [REGISTRATION INFORMATION HERE](#)

Upcoming A&WMA National Events



Learn the Application of PSD Rules, New Sources, and Nonattainment Area NSR.

Based on the best-selling A&WMA NSR Manual, this Workshop will provide attendees with a working knowledge and understanding of New Source Review rules and how to apply them in different situations. This 2-day workshop is ideal for industry, attorneys, state and local permit writers, and consultants. The program has been updated to include the EPA's current position on applicability, emissions accounting, common control and source classification. [REGISTRATION INFORMATION HERE.](#)



Announcing our second specialty conference on this evolving environmental issue!

As the concern for per- and polyfluoroalkyl substances (PFAS) increases, A&WMA has developed this conference to bring together scientists, researchers, academics, practitioners, regulators, and the regulated community to discuss the current state of PFAS science and to help develop solutions for the future. Dubbed "forever chemicals" by the media, PFAS pose unique challenges with their persistence, revolving life-cycle, and distinctive chemical characteristics. Conference sessions will explore PFAS sources and uses, potential alternatives, health effects, and current regulatory approaches and guidance for PFAS in water, soils and biosolids, landfills and leachate, and air, as well as methods for their measurement, treatment, destruction, and disposal. [REGISTRATION INFORMATION HERE](#)

State Permitting/Rule Updates/Form Updates

Minnesota Pollution Control Agency

New Rules Adopted Related to Air Quality

The MPCA has completed its housekeeping amendments to the state's air quality rules. The changes went into effect on May 2.

The amendments:

- Update requirements for Part 70 permit application notice and comment
- Update procedures to petition for EPA review of state and Part 70 permits
- Modify general requirements for Option B, C, and D registration permits and capped permits
- Incorporate by reference federal plan requirements for small municipal waste combustor units and municipal solid waste landfills
- Implement the 2020 Legislature's ban on the use of trichloroethylene (TCE).

Other minor changes clarify definitions, correct gaps and errors identified while administering the rules, and align state and federal rules. More information is on the MPCA's Air Quality Housekeeping Rule webpage. [Air Quality Housekeeping Rule](#)

MPCA Form Updates

The following common MPCA air permit application forms have been updated from January 1st, 2022 through today ([Link to MPCA Forms](#)):

- EC-03: IC Engine Screen Modeling (5/10/2022)
- GI-02: Process Flow Diagram (4/14/2022)
- GI-09: Requirements Form (4/28/2022)
- GI-09A: Requirements - NESHAP (40 CFR Part 63) (4/14/2022)
- GI-09C: Requirements - New Source Review (5/12/2022)
- CD-02: Compliance Certification (4/28/2022)
- CH-01: Change Description (5/10/2022)
- CH-04: Determination of New Source Review Status (5/12/2022)
- CH-07: Applicability of Part 63 NESHAP for Amendments (4/14/2022)
- Registration Permit Application Review Completeness Checklist (4/28/2022)
- Facility Information (4/28/2022)
- RP-04: Estimation Form (5/10/2022)
- RP-05: Administrative Change Form (5/10/2022)
- RP-D1: Option D Actual Emission Form (5/10/2022)
- RP-D2: Option D Control Equipment (5/10/2022)



Minnesota Pollution Control Agency

MPCA Quarterly Air Mail Newsletter

MPCA publishes a quarterly Air Mail newsletter, which may be accessed here: [Newsletter Link](#)

TOPICS:

EVENTS AND OPPORTUNITIES

- \$1 million available for heavy-duty off-road diesel equipment grants
- Join Minnesota GreenCorps
- Save the date: Air modeling virtual open house
- Webinar: Clean air for all? The unequal burdens of air pollution
- Air monitoring network plan ready for comment soon
- Transportation policy plan ready for comment soon
- Electric vehicle charging station survey

GENERAL

- Low-income, diverse communities face greater health impacts from air pollution
- New framework for addressing asthma in Minnesota
- Air quality forecast for summer: better than last year, but still potentially smoky
- Latest data added to MPCA's air emissions data tool
- Minnesota GreenCorps helps tribal communities achieve energy savings
- Meet the Clean Air Minnesota co-chairs
- IN FOCUS: TCE BAN
- TCE ban implementation
- MnTAP helps Minnesota businesses get ready for the TCE ban

REGULATORY

- Online trainings help small businesses find permitting answers
- Removal of stay of formaldehyde standards in 40 CFR part 63, subp. YYYY
- New rules adopted related to air quality

MPCA Air Quality Permitting Guidance



The MPCA offers extensive permitting guidance on their website at the following link: [MN Permitting Guidance](#)

State Permitting/Rule Updates/Form Updates

North Dakota Department of Environmental Quality

CERIS

The North Dakota Department of Environmental Quality (DEQ) utilizes CERIS (Combined Environmental Regulatory Information System) in order to submit, revise and management air quality applications, registrations or permits, pay environmental fees and submit and view documentation. Access the CERIS here: [Home - CERIS-ND](#)

ND DEQ Air Quality Permitting Guidance

The North Dakota DEQ offers extensive permitting guidance on their website at the following link: [ND Permitting Guidance](#)



South Dakota Department of Agriculture and Natural Resources

South Dakota DANR Air Quality Permitting Guidance

The South Dakota Department of Agriculture and Natural Resources (DANR) outlines current forms on their website at the following link: [Link to Forms](#). Additionally, SD DANR offers permitting guidance on their website at the following link: [SD Permitting Guidance](#).

Wisconsin Department of Natural Resources

Wisconsin DNR Air Quality Permitting Guidance

Have you ever wondered how the permitting process in Wisconsin works? The eleven-step process is detailed on the Wisconsin Department of Natural Resources' webpage. See the following link for more details: [Eleven-step air permit process](#).

Wisconsin DNR Current Air Quality Permitting Forms

The latest forms for air applications can be found here: [Link to Forms](#)



In the News

EPA Releases Annual Air Report, Highlighting Trends through 2021

The U.S. Environmental Protection Agency (EPA) released on June 1, 2022 the annual report “Our Nation’s Air: Trends Through 2021”. This report is an interactive opportunity to learn more about environmental impact of air pollution, track trends in air and emission data, learn more about efforts to improved visibility in national parks, and explore air toxics health impacts at a community level for the year 2017.



The report showed several trends of improved air quality. Between 1970 and 2021, the combined emissions of six key pollutants dropped by 78%, while several pollutants dropped between 21 to 91% between 1990 to 2021.

To learn more about these trends and the 2017 interactive tool, click [HERE](#).

EPA Takes Action to Reset and Strengthen the RFS Program



EPA announced several actions that will help provide a path for the sustained growth of renewable fuels and reinforce the foundation of the Renewable Fuel Standard (RFS) program. Together, these actions reflect the Biden Administration’s commitment to reset and strengthen the RFS, bolster our nation’s energy security, and support homegrown biofuel alternatives to oil for transportation fuel.

EPA is taking action today pursuant to a consent decree agreement that requires EPA to finalize RFS volumes for 2021 and 2022 no later than June 3, 2022. Together with other steps announced today, EPA’s actions will help reduce our dependence on oil and diversify our fuel supply by increasing production of domestically produced biofuels. In the final volumes, EPA adjusted the final biofuel volumes for 2021 to reflect updated data on actual 2021 ethanol use that has become available since the proposal was issued.

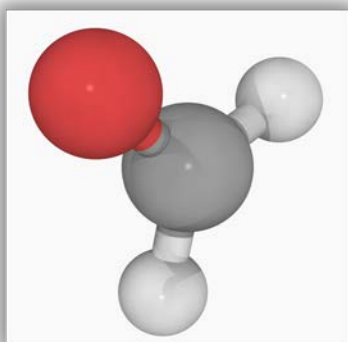
To read more about this, click [HERE](#).



In the News

Removal of Stay of Formaldehyde Standards in 40 CFR Part 63, Subpart YYYYY

On March 9, 2022, the U.S. Environmental Protection Agency (EPA) removed a stay of formaldehyde standards in the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Combustion Turbines (40 CFR Part 63, Subpart YYYYY).



- Lean premix gas-fired turbines and diffusion flame gas-fired turbines at major sources of HAP that have been installed since January 2003 will now have to comply with the requirements of the NESHAP.
- Compliance for turbines installed between 2003 and the effective date of this action that were subject to the stay will have 180 days from the date of publication in the Federal Register to perform the initial compliance demonstration of any applicable turbines.

The MPCA is the delegated administrator of this rule, however as with most NESHAP standards, any request for alternative compliance or monitoring must be approved by EPA Region V. More information can be found at the EPA's webpage for Stationary Combustion Turbines: National Emission Standards for Hazardous Air Pollutants (NESHAP) [HERE](#).

Biden-Harris Administration and EPA Announce \$375 Million in Funding from Bipartisan Infrastructure Law for New Recycling, Reuse and Waste Prevention Grant Programs and Initiatives

On June 8, 2022, the EPA announced President Biden's Bipartisan Infrastructure Law, which funds \$375 million towards new recycling, reuse, and waste prevention programs. The \$375 million in Bipartisan Infrastructure Law funding will develop several new initiatives, including a Solid Waste Infrastructure for Recycling grant program, a Recycling Education and Outreach grant program, a Model Recycling Program toolkit, as well as provide funding to compile best practices for battery collection, recycling, and labeling guidelines.

The EPA is seeking input on these programs through three Requests for Information. To learn more, please visit the following link [HERE](#):





In the News

MPCA meteorologists forecast air quality in response to drought and wildfire predictions for summer 2022 in Minnesota

The Minnesota Pollution Control Agency (MPCA) released air quality predictions for this summer. Minnesota experienced an unprecedented number of air quality alerts for unhealthy air conditions in 2021, which were the most severe, widespread, and longest lasting on record, reaching levels that were dangerous for everyone. Predictions for 2022 are not anticipated to be anywhere near 2021 conditions, according to the MPCA.

Some of the predictions include a warmer-than-average temperature for July and August, moderate drought conditions in parts of northern Minnesota, and ongoing above average fire activity in southern Canada that could potentially result in smoke and particulate matter in Minnesota.

To read about more predictions and learn about the Air Quality Index rating system, please follow this link [HERE](#):



MPCA Expands Search for PFAS to Nearly 400 Facilities Across Minnesota

Citing the need to better understand where and how PFAS is being released into our waters, air, and soil, the Minnesota Pollution Control Agency (MPCA) today released its statewide PFAS monitoring plan that will initially focus on water testing and air emissions reporting at 379 facilities throughout Minnesota. Inclusion on the monitoring plan facility list does not necessarily mean a facility is releasing PFAS to the air, surface, or groundwater – it only means they have been identified as a potential emitter, and monitoring is a necessary initial step. Read more on this topic [HERE](#).



In the News

MPCA GreenCorps Seeking Recent College Graduates for Professional Environmental Experiences Around Minnesota

The Minnesota Pollution Control Agency (MPCA) is recruiting young professionals interested in environmental and climate issues for its Minnesota GreenCorps program for the upcoming 2022-2023 program year. They will serve 11 months, from mid-September 2022 to mid-August 2023.

48 Minnesota GreenCorps members will be matched to host sites where they will address an environmental need, for example:

- Reducing solid waste and increasing recycling in Minnesota communities
- Reducing greenhouse gases and other air pollutants
- Reducing water runoff and improvement of water quality
- Assisting community members to take eco-friendly actions
- Increasing community resilience and building local capacity to respond to the threats of climate change

For those who are interested in this opportunity, please follow this link [HERE](#):



Air Quality in Your Area

Did you know that you can view real-time data for the air quality in your area? See below for the interactive map for your area.



- **Minnesota**
- **Wisconsin**
- **South Dakota**
- **North Dakota**
- **Federal level / all other states**

PFAS Information

Please see below for the latest news on PFAS at the state and federal level:

- **PFAS News | Wisconsin DNR**
- **PFAS pollution | Minnesota Pollution Control Agency (state.mn.us)**
- **Per- and Polyfluoroalkyl Substances (PFAS) | US EPA**



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