Inside this issue, we look forward to A&WMA’s 111th Annual Conference in Hartford, journey back through past conference locales, and highlight the most recent issues of EM.
Dear A&WMA Members and Colleagues,

In this second edition of EM PLUS, A&WMA’s new quarterly print publication, you will find an exclusive preview of the 2018 Annual Conference & Exhibition. This June we head to New England by way of Hartford, Connecticut. This journey back east — the first in more than 40 years — has us reminiscing about our conferences past, so we take a look back at some past annual conference locales, as well as forward to next year’s meeting across our northern border in Quebec City, Canada.

We also take time out in this issue to introduce our headquarters staff and showcase our new office. A&WMA relocated our international headquarters to Pittsburgh’s historic Koppers building in February, and we couldn’t be happier about our bright new space. I would like to extend a special thank you to A&WMA Director Greg Johnson for his assistance with the photography.

We hope you continue to enjoy receiving this print publication and enthusiastically welcome your feedback, comments, and suggestions.

Comments can be sent to em@awma.org.

By Stephanie Glyptis,
A&WMA Executive Director
A&WMA HQ’s New Office Space

Earlier this year, A&WMA relocated its international headquarters to Pittsburgh’s historic Koppers building. We are very excited to showcase our bright new space and look at this change as the start of another exciting chapter in our rich history. Take a tour with us...

The Building. Built in 1929, the Kopper’s Building showcases art deco architecture with a very modern aesthetic style. The unique turquoise roof is illuminated at night.

The Hub. Our new office space provides an open area where staff can meet, chat, and enjoy a coffee break or informal meeting together.

The Office. The new space offers A&WMA’s HQ everything we need — office, meeting, and storage space — in a convenient, central location.

The View. The 21st-floor location allows for stunning panoramic views of Downtown Pittsburgh and beyond.

The Style. The building’s architecture may be early 20th century, but the office interior is definitely now! Photos courtesy of Greg Johnson.

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Meet Team A&WMA.

Top row, from left:
Stephanie Glyptis, Executive Director; Jeff Schurman, Business Development Manager; Tracy Fedkoe, Marketing and Project Management Director; Lisa Bucher, Managing Editor; Nancy Bernheisel, Publications Coordinator.

Second row, from left:
Robin Lebovitz, Professional Development and Student Programs Manager; Karen Denne, Accounts Payable/Accounts Receivable; Gerald Armstrong, Member Services Coordinator.

Seated, from left:
Cindy Fontanesi, Conferences and Events Planner; Gloria Henning, Continuing Education Coordinator.

Not pictured: Bill Braun, Controller; Ron Brown, Finance Manager

Our team of dedicated professionals is here to serve you. Staff contact information can be found on our website at www.awma.org/staff.

Meet the Staff
Home of the Charter Oak and one of the oldest cities in the United States; home to more than 200 cultural, arts, and heritage organizations; home of renowned American writer, humorist, and publisher, Mark Twain; and home of the Air & Waste Management Association’s 111th Annual Conference & Exhibition (ACE) -- the first time in 43 years that the ACE will be held in New England.

On the following pages, we preview some of the technical program highlights and professional development and networking opportunities on offer at this year’s event. For the most up-to-date information and to view the full conference program, visit www.awma.org/ace2018.

**Technical Program Highpoints**

**Keynote Plenary Session - Monday, June 25, 2:45 - 5:00 p.m.** Featured speakers: William Wehrum, Assistant Administrator, Office of Air and Radiation at U.S. Environmental Protection Agency (EPA); Janet McCabe, Professor of Practice at the Indiana University McKinney School of Law and Assistant Director for Policy and Implementation at the Indiana University Environmental Resilience Institute; and Roger Kranenburg, Vice President of Energy Strategy and Policy with Eversource.

**48th Annual A&WMA Critical Review - Tuesday, June 26, 9:00 – 11:45 a.m.** “Trends in Onroad Transportation Energy and Emissions” presented by Dr. H. Christopher Frey, Distinguished Professor, North Carolina State University, with invited Discussants: Alberto Ayala, Executive Director, Sacramento Metropolitan Air Quality Management District; Susan Collet, Senior Principal Engineer, Toyota Motor Engineering and Manufacturing North America; Rashid Shaikh, Director of Science, Health Effects Institute; Eric Stevenson, Director of Meteorology, Measurement and Rules, Bay Area Air Quality Management District; and Michael P. Walsh, Independent Consultant, International Council on Clean Transportation.

**Expert Panels — Tuesday, June 26 – Thursday, June 28.** 40 panels featuring experts from industry, government, and academia, on topics such as:
- EPA Priorities
- New Source Review (NSR) Issues and Recent Developments
- Commissioners Panel on Federal/State Relationships
- Clean Air Act Regulatory and Policy Developments
- Environmental Inspections and Enforcement

**On the Exhibit Floor**

**Exhibit Openings**

Monday, June 25: 5:00 p.m. – 7:00 p.m.
Tuesday, June 26: 8:00 a.m. – 5:30 p.m.
Wednesday, June 27: 8:00 a.m. – 4:00 p.m.

The Exhibit Hall at the 111th A&WMA ACE is the one-stop destination for attendees interested in environmental technology solutions, product and service demonstrations, and informative visits with experts.
from across the environmental spectrum. With almost 20 hours of exhibit time available, attendees will learn about the products and services of over 70 exhibitors, enjoy numerous networking opportunities, and continental breakfasts and refreshment breaks, all in one place.

**Not Just For Seasoned Professionals**
The ACE Exhibit Hall offers opportunities for professional development and networking for attendees of all ages and stages of career. Two new Exhibit Hall happenings this year include the Young Professionals (YP) Hub and a Meet the JAWMA Editor-in-Chief Session.

The YP Hub offers young professionals a place to relax and regroup, as well as attend planned events, including meet-and-greets, speed networking, product demos, and more.

The Meet-the-Editor Session will take place on Wednesday, June 27, 2:00 – 3:00 p.m.

Students and young professionals alike are encouraged to stop by the Taylor & Francis Publishing Co. Booth in the Exhibit Hall to meet Dr. S.T. Rao, Technical Editor-in-Chief of the *Journal of the Air & Waste Management Association (JAWMA)*. Dr. Rao will be on hand to share his vast experience and answer your questions about submitting papers to *JAWMA*. Share with him your ideas for proposed technical papers, note-book papers, and special issues, and receive instant feedback first-hand.

**Networking, Products, and Prizes**
We will also host an Exhibit Hall Booth Crawl, where participants have a chance to win one of three prizes, each a $100 gift card. Attendees will receive special booth-visit cards in their conference tote bag and can enter the prize drawing by collecting stickers from the 15 participating booths. Prizewinners drawn following the conference will be notified via e-mail. em

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**Hartford Firsts**

Charles Bulfinch (1763-1844), the first nationally recognized American architect, completed his first public building, the Old State House in 1796.

The Old State House is the oldest state house in America.

Hartford was the first city in the United States to erect a building designed for use as a YWCA (1867).

The first permanent and triumphal memorial arch in America is the “Soldiers and Sailors Memorial Arch” in Bushnell Park in Hartford. Construction started in 1884.

The Bulkeley Bridge is the largest stone arch bridge in the world.

Hartford Public High School is the second oldest secondary school still in operation in the United States.

Hartford’s Commission on the City Plan was the first permanent public planning body in the United States (1907).

Phoenix Mutual Insurance Company’s headquarters is the world’s first two-sided building.

Jupiter Hammond, a Hartford resident and author of “The Kind Master and the Dutiful Servant” was the first published American Black poet (1783).

The Hartford Courant is the oldest continually published newspaper in America (1764).

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Hartford Firsts courtesy of hartford.gov.
Photos of Hartford are courtesy of TripAdvisor
Throughout my career, I was always very content in the position I was in at the moment, but when an opportunity for advancement or to develop new skills came along I was happy to change course. Eventually, this led to a presidency, but it was more the result of being opportunistic than of planning and ambition.

Q. What is the most challenging aspect of your job? Is it more or less challenging because you are a woman?

Free: Although students come first at any university, there are multiple constituencies whose needs and wants I have to weigh in making any decision. For example, doing what is best for the long-term strength of the institution is a primary concern of the Board of Trustees, but that may require decisions that are not what current students or faculty would prefer. I don't think that being a woman has made this more difficult, although there may be times when a “tough” decision would be accepted more readily or have been less of a surprise if it had been made by a man. The University of Saint Joseph (USJ) has always had a woman as president.

Chrysochoou: My job involves maintaining roles that require very different focus and strengths: teaching, research and administration. Meaningfully fulfilling each of these roles and at the same time trying to maintain balance in my personal life is often a challenge. I do think that it is more challenging to be a woman in a leadership position, in terms of establishing authority and gaining respect. The level of scrutiny in terms of our appearance and performance is certainly higher compared to a man in an equivalent position. The issue of “likeability” (i.e., the famous Howard versus Heidi experiment) is, in my experience, true and requires a delicate balance in our behavior that is not required of men in similar positions.

Q. What are some of the initiatives you have been involved in personally or your institution supports in terms of encouraging women’s professional growth?

Chrysochoou: The School of Engineering at the University of Connecticut (UCONN) is committed to increasing the number of female engineers and has a number of programs for middle...
and high school students that aim to inform them about engineering and provide role models. I make it a point to participate in these programs every year. More than anything, I try to offer one-on-one mentorship to undergraduate and graduate female students in my program, as I find that has the largest impact. Having someone to provide strategic feedback on a range of topics (e.g., resume writing, job choices, work-life balance) can be crucial for women to advance in their career, as self-doubt is often the biggest hurdle to our advancement. It is my goal to create a formal mentorship program to this end in my department and eventually, in the School of Engineering.

**Free:** I have always tried to be an active sponsor, more than a mentor, for women students and colleagues. By this I mean helping them to find opportunities and then making calls, writing letters, and really promoting them. At an institutional level, at USJ we created the Women’s Leadership Center in 2016 to encourage and prepare women to move into leadership positions. Our focus is on developing job-related knowledge and skills that are needed to move from mid-level positions to leadership roles or to move into new career paths.

**Q.** What advice do you have for young women looking to enter the workforce?

**Free:** Be opportunistic, flexible, and willing to take on roles even if you don’t feel completely ready for them. As long as you are willing to work very hard and to keep learning on the job, you can quickly become competent. When you are young you can relocate, work whenever you want, and put all of your focus on your career—this gets more difficult when you are older and may have other family commitments and responsibilities.

**Chrysochoou:** I recently had a conversation with my 17-year-old niece, who has been accepted to several top college programs, including an Ivy League school. She told me that she was afraid to go to her top choice program because she wasn’t sure she could make it there. The advice I gave her is the advice that I would give to any young woman in her place: Trust yourself and challenge yourself. The key to personal growth is to attempt things that are somewhat outside our comfort zone. I have often found that the ability zone for women is far outside our comfort zone, so pushing those boundaries is even more critical. em
A Journey Back Through Time

A look at A&WMA conference locales stretching back more than four decades.

1970’s
- St. Louis, MO (1970)
- Atlantic City, NJ (1971)
- Miami, FL (1972)
- Chicago, IL (1973)
- Denver, CO (1974)
- Boston, MA (1975)
- Portland, OR (1976)
- Toronto, ON (1977)
- Houston, TX (1978)
- Cincinnati, OH (1979)

1980’s
- Montreal, QC (1980)
- Atlanta, GA (1983)
- San Francisco, CA (1984)
- Detroit, MI (1985)
- Minneapolis, MN (1986)
- New York, NY (1987)
- Dallas, TX (1988)
- Anaheim, CA (1989)

1990’s
- Pittsburgh, PA (1990)
- Vancouver, BC (1991)
- Kansas City, MO (1992)
- Denver, CO (1993)
- Cincinnati, OH (1994)
- San Antonio, TX (1995)
- Nashville, TN (1996)
- Toronto, ON (1997)
- San Diego, CA (1998)
- St. Louis, MO (1999)

2000’s
- Salt Lake City, UT (2000)
- Orlando, FL (2001)
- Baltimore, MD (2002)
- San Diego, CA (2003)
- Indianapolis, IN (2004)
- Minneapolis, MN (2005)
- Pittsburgh, PA (2007), marked A&WMA’s Centennial Annual Conference & Exhibition
- Portland, OR (2008)
- Detroit, MI (2009)

2010’s
- Calgary, AB (2010)
- Orlando, FL (2011)
- San Antonio, TX (2012)
- Chicago, IL (2013)
- Long Beach, CA (2014)
- Raleigh, NC (2015)
- New Orleans, LA (2016)
- Pittsburgh, PA (2017)
- Hartford, CT (2018), marks A&WMA’s first visit to New England in more than 40 years

All photos are courtesy of TripAdvisor

ACE 2018
Looking Forward to ACE 2019 in Quebec City

Not to get ahead of ourselves, but we are thrilled to announce that the 2019 A&WMA Annual Conference & Exhibition (ACE) will take us north of the border to the beautiful city of Quebec.

Quebec, the capital city of the Canadian province of Quebec, the second largest city in the province (after Montreal), and the seventh-largest metropolitan area in Canada, seamlessly blends together the old and the new. Founded in 1608 by Samuel de Champlain, this stunningly picturesque city is one of the oldest cities in North America. The ramparts surrounding Old Québec are the only fortified city walls remaining in the Americas north of Mexico, and were declared a World Heritage Site by UNESCO in 1985.

The city’s landmarks include the Château Frontenac, a hotel which dominates the skyline, and the Citadelle of Québec, an intact fortress that forms the centerpiece of the ramparts surrounding the old city and includes a secondary royal residence. The city also plays host to the National Museum of Fine Arts of Quebec and the Museum of Civilization. Other nearby attractions include the Montmorency Falls (a waterfall 30 meters higher than Niagara Falls), the Aquarium du Québec (which sits alongside the St. Lawrence River), and the Parc National de la Jacques-Cartier (one of Quebec’s most dazzling glacial valleys).

This warm and friendly city, where French is the spoken language but everyone understands English, feels practically European and is a must-see tourist destination for 2018, according to Forbes (“Why You Need To Visit Canada And Quebec City Now”; Forbes.com, April 27, 2018). We’re thrilled to be heading to Canada for our 112th ACE and encourage you to begin making your plans to join us next June.

For more information about the city and what it has to offer, visit the Quebec City tourism website at www.quebecregion.com/en.
May: Climate Policy: Past, Present, and Future
Despite scientific uncertainty, in 1987, the Montreal Protocol on Substances that Deplete the Ozone Layer was agreed. The Protocol phased out ozone-depleting substances and, over time, the hole in the ozone layer has shrunk. If we so deftly solved this global problem by restricting the amount and types of stuff we emit into the atmosphere, is there hope for solving another global problem—climate change—in the same way?

The 1992 Rio Earth Summit suggested that we might be able to do it. Like the Montreal Protocol, despite scientific uncertainty, delegates agreed to the United Nations Framework Convention on Climate Change (UNFCCC), ultimately ratified by 197 countries. The UNFCCC’s main objective is to stabilize greenhouse gas (GHG) concentrations in the atmosphere to “prevent dangerous anthropogenic interference with the climate system”; a good first step.

Five years later, in 1997, the Kyoto Protocol was agreed, although it entered into force much later, in 2005. Under the Protocol, many industrialized nations (but not the United States) agreed to binding commitments to reduce GHG emissions below their 1990 levels. With the latest Kyoto Protocol commitment period set to expire in 2020, and with global GHG concentrations continuing to rise, parties to the UNFCCC convened in Paris in 2015 to take another crack at meaningfully reducing emissions.

The Paris Agreement, which entered into force in November 2016 has 195 signatories and 175 parties as of early 2018. It aims to hold the increase in global average temperature to well below 2 °C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5 °C...”. The Paris Agreement marks a new chapter in global climate policy and is an important step toward decarbonizing a world still reliant on fossil fuels to power nearly all sectors of the economy. The task ahead is difficult, and failure means severe consequences for everyone, especially those in the developing world.

In this issue of EM, we explore climate policy in the wake of the Paris Agreement. Read the introduction by Bryan Comer at http://pubs.awma.org/flip/EM-May-2018/coverstory.pdf.

In related news... A&WMA has been approved by the UN as an Admitted NGO who may nominate Observers to attend the COP 24 meeting in Poland this December. Stay tuned for more information.
June: Transportation
Movement is essential to everything we do and how we assess the environmental world. How air moves, how waste is transported, emissions being emitted and dispersing, energy transmissions—movement is key to all environmental discussions, but none likely more so than in how it relates to transportation. A holistic discussion of the environmental impacts of transportation is needed because the transportation sector dominates usage of energy globally, yet impacts individuals daily. Historically, the largest consumer of petroleum, environmental regulations for all modes of transportation have varied as widely as automotive styles in the last century, focusing on operational standards and idling, engine emissions, alternative fuels, alternative transport modes, and/or some combination of each. Regulations are promulgated by local and federal governments alike, and standards have focused on minimizing localize carbon monoxide impacts, reducing regional smog issues, or countering the impacts of global greenhouse gas emissions.

The focus of the June EM is on road-based transportation, as opposed to sea and air mobile sources, which each face their own unique challenges, regulations, and emission profiles. This issue looks at three distinct intersections between mobile sources and the environment: compliance, balancing energy drivers, and estimating impacts; and complements the 48th Annual A&WMA Critical Review on “Trends in Onroad Transportation Energy and Emissions” by H. Christopher Frey. Look for this issue to go live on the A&WMA App on June 1.

Read more on this topic in EPA Research Highlights on page 12 of this print issue.

July: EMS Rule Change
Look for the July issue to focus on recent changes to the EMS rule. Many forward thinking companies have opted to implement environmental management systems (EMSs) that conform to the ISO 14001 International Standard. The standard was substantially revised in September 2015. Those wishing to certify their systems to the revised standard must do so by September 2018. This issue will review key changes in the ISO 14001:2015 Standard, including strategies for improving and EMSs and integrating with other business systems to gain more value.
Impacts of Transportation on Air Quality in Communities

By Michaela Burns

Millions of Americans live or work near highways, railyards, or marine ports, which can expose them to high concentrations of air pollutants. Exposure to air pollutants can contribute to serious health effects including reduced lung function, asthma, cardiovascular disease, and premature death. Some populations such as children, the elderly, and people with low socioeconomic status are especially vulnerable to health effects caused by air pollution.

That’s why the U.S. Environmental Protection Agency (EPA) has conducted considerable research to learn about the health effects of air pollution from transportation sources. Researchers have investigated the composition and levels of air pollutants near sources like roadways, and developed strategies to reduce the impact on public health.

Engaging a Community with Citizen Science

In fall 2017, EPA launched the Kansas City Transportation Local-scale Air Quality Study (KC-TRAQS) to learn about the local air quality of three neighborhoods in Kansas City, Kansas, that are surrounded by multiple transportation sources such as highways, railways, and industry. The year-long study is using cutting-edge air monitoring technology to measure pollutants such as fine particle pollution (PM$_{2.5}$) and black carbon, a component of PM$_{2.5}$. These pollutants can contribute to asthma and trigger heart attacks and strokes in people with cardiovascular disease. Researchers are also collecting information on weather conditions such as relative humidity, wind, and temperature that can impact local air quality.

The KC-TRAQS study provides an opportunity for EPA to inform communities about local air quality and evaluate different types of air monitoring technology. Researchers are using three different monitoring approaches to measure pollutants. Stationary or fixed monitors are collecting information on pollutants in six locations within the study area. An EPA Geospatial Measurement of Air Pollution (GMAP) vehicle, an electric vehicle equipped with measurement devices, is being driven through the study area to provide real-time monitoring of air quality. Citizens are contributing by using portable air monitors called AirMappers, developed by EPA researchers, to collect air quality data in their neighborhoods.

When the study is complete, EPA will share the results with neighborhood residents, state and local government officials, air quality planners, local companies, and other stakeholders to help inform decisions to improve air quality. EPA researchers also plan to publish the results in peer-reviewed scientific papers.
Building Roadside Barriers
EPA is developing mitigation strategies to reduce the emissions of transportation sources. In 2016, researchers released a report, Recommendations for Constructing Roadside Vegetation Barriers to Improve Near Road Air Quality, that discusses how roadside barriers can be used to reduce air pollution coming from busy roadways and improve nearby air quality. Roadside barriers can include sound walls built alongside highways, vegetation barriers made up of trees and shrubs, or a combination of both.

Researchers developed the report to help two communities build and install roadside barriers to reduce the concentration of air pollution near the roadway. EPA is working with community organizations and local agencies in Oakland, California, and Detroit, Michigan, to design, plant, and study roadside barriers. The studies are being conducted at an elementary school in Oakland and a community park in Detroit. In Oakland, researchers are currently working with project partners to plant trees for use as a vegetation barrier. Beginning this spring and summer, the researchers will train the school community how to use sensors to collect limited air measurements. The planting in Detroit is set to begin this spring and summer. In the fall, air measurements will be taken using GMAP, low-cost sensors, and traditional samplers.

Assessing Near-Port Air Quality
In a recent study, EPA used a GMAP vehicle to obtain real-time concentrations of pollutants in areas near the Port of Charleston in South Carolina. This is significant because it can be difficult to evaluate the impact of air pollution coming from port facilities on local air quality. Port emissions can come from multiple sources such as oceangoing vessels, trucks transporting supplies at the port, and terminal equipment like cranes and forklifts.

The study findings demonstrate that ports can have a significant impact on local air quality. When the wind was blowing from the direction of the port facility, researchers measured elevated concentrations of carbon monoxide, nitrogen dioxide, and black carbon along driving routes. Researchers found further confirmation of the impact of port facilities on air quality by comparing the results of the study with port activity data. This comparison revealed that there was a correlation between elevated pollutant concentrations and port activity.

Protecting Public Health
Whether it's pollution from a roadway, port, or railway, exposure to high concentrations of pollutants can put many Americans, especially more vulnerable populations at risk for serious health effects. EPA's research and strategies developed to mitigate the effects of air pollution from transportation sources are providing information that can be used by communities to better protect public health.

About the Author
Michaela Burns is an Oak Ridge Associated Universities Contractor in Science Communications with the U.S. Environmental ProtectionAgency’s Office of Research and Development.

Disclaimer: The views and opinions expressed in this article are those of the author and do not represent the official views of the U.S. Environmental Protection Agency (EPA).

Related links:
• Research on Near-Road and Other Near-Source Air Pollution (https://www.epa.gov/air-research/research-near-roadway-and-other-near-source-air-pollution)
• KC-TRAQS Study (https://www.epa.gov/air-research/kansas-city-transportation-and-local-scale-air-quality-study)
• Recommendations for Constructing Roadside Vegetation Barriers to Improve Near Road Air Quality (https://www.epa.gov/air-research/recommendations-constructing-roadside-vegetation-barriers-improve-near-road-air-quality)
• Near-port air quality assessment utilizing a mobile measurement approach (https://www.sciencedirect.com/science/article/pii/S1309104217300557)

For more information on the research discussed in this column, contact Ann Brown, U.S. Environmental Protection Agency (EPA), Office of Research and Development, Research Triangle Park, NC, phone: 1-919-541-7818; e-mail: brown.ann@epa.gov
NSR Manual: Past, Present, and Future

Past
The New Source Review (NSR) program developed out of a disagreement between the U.S. Environmental Protection Agency (EPA) and environmental activists over whether the U.S. Clean Air Act required air quality in “clean” air areas to be protected from degradation. Out of a lawsuit holding that it did, the Prevention of Significant Deterioration (PSD) program was born and subsequently ratified by Congress in the 1977 Clean Air Act Amendments (CAAA). Because PSD was born in court, the exact contours of the program are malleable (within the parameters established in the CAAA) and ebb and flow with changes in administration, policy documents, and court decisions. “As a result, questions regarding New Source Review cannot be answered by just looking at the regulations, there has to be the history involved,” said Eric Hiser, partner at Jorden, Hiser & Joy, and NSR Manual author and instructor.

The original 1990 NSR Manual, edited by Gary McCutchen, who was EPA’s NSR Section Chief at that time, became public through a Freedom of Information Act request, and in such demand that EPA provided the master to A&WMA, which published and sold it. It became the expert source or “bible” for information on NSR, still in use more than 20 years after it was published.

Present
Realizing the need for an updated manual, Past-President Dallas Baker coordinated the effort for A&WMA that resulted in the latest NSR Manual, which was published in August 2017, and written and edited by John Evans, Chief, Ambient Monitoring Section, North Carolina Department of Environmental Quality (now a Senior Environmental Engineer with RTP Environmental Associates); Eric Hiser, Partner, Jorden, Hiser & Joy; Gale Hoffnagle, CCM, QEP, Senior Vice President and Technical Director, Air Quality Consulting, TRC Environmental Corporation; David Jordan, Partner, Environmental Resources Management (ERM); Gary McCutchen, P.E., BCEE, Principal, RTP Environmental Associates; and Ken Weiss, P.E., BCEE, Partner, ERM.

“The EPA was not involved in the writing of the current manual, but it accurately reflects EPA’s position as of the previous Administration,” said McCutchen. Not having the EPA involved has allowed the authors, who are the foremost industry experts in their fields, to freely express where there are disagreements and take positions on controversial issues. It is their hope that the 2017 Manual become the best source for information on NSR and PSD. It’s on its way, becoming one of the best-selling publications from A&WMA with over 500 copies in use in industry and 20+ states and local agencies already.

The 2017 Manual is published electronically, with hundreds of cross-references and links to previous memos, decisions, and articles. Because of changes in this program with each administration and the states, a print document would become quickly outdated. It is hoped the new electronic version will help establish consistency among the states. There are over 100 state and local agencies dealing with NSR and an estimated 400-700 PSD and major nonattainment permits and over 20,000 total NSR permits per year, almost solely through the states. “It’s not surprising that there are inconsistencies,” said McCutchen.

The authors, in conjunction with A&WMA, held the first NSR Workshop based on the 2017 Manual in February and plan to do more in the future. McCutchen also leads an in-depth four-day workshop through RTP
The courts have referred to the 1990 NSR Manual often and it is hoped that this version will soon be cited by the courts and EPA, but it may take a while, according to McCutchen.

The first NSR Workshop ended with an open discussion panel with four of the 2017 Manual authors: McCutchen, Hiser, Weiss, and Hoffnagle. They candidly discussed the current challenges, as well as the future of the program, and made a few predictions based on their extensive knowledge. “I don’t think that we’re going to see massive regulatory changes, but will likely see policy changes, hopefully to address bottlenecks, project netting, and pre-emptive BACT,” said Weiss. Hiser speculated there may also be a change in the ambient air policy.

The panel also discussed the most requested changes, which included clarification of the definitions of routine repair and replacement, technology creep improvement, and EPA being required to comment during the public comment period. “In addition, the states and sources are reporting difficulty in demonstrating compliance with new 1-hour NO₂ and SO₂ NAAQS,” said Hoffnagle.

Stay tuned for announcements on upcoming NSR Workshop dates and updates to the NSR Manual subscription. Go to www.awma.org/NSRManual for more information and to order your copy today.

Environmental Associates, while Hiser publishes an NSR blog (NSRLaw.com), which updates practitioners on current developments.

**Future**

Because the 2017 Manual is sold as a subscription, many have asked, “How often will it be updated?”

Updating will depend a lot on the litigation going on, as well as changes in the policy of the new administration. “Within the next three years, I anticipate there will be new regulations and policies that reflect the current Administration,” said McCutchen.

A&WMA thanks the following members who recently joined the Association or elected to renew and continue their Association membership.

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The Association needs you! A&WMA would be unable to continue to provide our slate of programming and educational offerings without the continued support of our members. Thank you.

We’d also like to take this opportunity to salute the below members who have dedicated 50 or more years of continuous membership. Those listed have volunteered countless hours to aid the Association in providing members with training, education, technical information, publications, and networking opportunities. It is with great pride that A&WMA acknowledges their years of service and dedication.

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<td>Peter Mueller</td>
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For a complete list of long-term members, as well as the list of 2018 honorees and award winners, visit the Honors & Awards page on our website at www.awma.org/honors.

Remember EM is available for FREE to all A&WMA members in digital app, flipbook .pdf, and downloadable .pdf versions. If you haven’t done so already, download the A&WMA App today and don’t miss out on this essential reading.
Building on a 20-year history as the industry’s leading technical conference for power plant pollutant and effluent control, the 2018 MEGA Symposium will include policy discussions, sessions on emission challenges for gas-fired plants, and guidelines for international power plant owners facing new regulations.

This 12th MEGA Symposium has been restructured to provide added value to seasoned professionals working in and outside the United States, as well as an excellent learning experience for early career engineers. Attendees will benefit from insights into policy trends and receive the latest developments and operational experience to reliably manage compliance with air quality, solid waste, and discharge water quality requirements for fossil-fired power plants, while adapting to increasingly variable operational demands. Recognizing the maturity of control technologies for criteria pollutants and the advanced development status of mercury and air toxics (MATS)-specific controls, the 2018 MEGA will emphasize approaches and technologies to support cycling operations, while balancing emission constraints at the stack and effluent discharges and byproduct quality. For the latest information and to register, go to www.awma.org/MEGA.

“A very excited about the 2018 MEGA Symposium because of the newly expanded scope that will include policy and regulatory perspectives, industry responses to the latest challenges for coal- and gas-fired power plants, plus byproduct and effluent management. This is a must-attend event for all levels of power plant professionals, environmental managers, researchers, and engineers, as well as industry suppliers.”

Sharon Sjostrom, 2018 MEGA Symposium Conference Chair

2018 Leadership Training Academy: It’s a Wrap!

More than 30 A&WMA Sections & Chapters leaders came from across North America — from CPANS to the Florida Section — to gather in Pittsburgh during the last weekend in April for the Annual A&WMA Leadership Training Academy. The weekend program was created exclusively for our volunteers to strengthen leadership skills, provide ideas that can be easily implemented within local member units, and offer outstanding networking opportunities. Nearly all of our current board members and committee chairs began their commitment to A&WMA with the Leadership Training Academy.
A&WMA’s Webinar Program Growing in Leaps and Bounds

Staying informed, trained, and at the cutting-edge of our profession takes time and effort. As the regulatory landscape changes, as technology advances, as responsibilities increase, A&WMA members count on the Association to assemble the experts and deliver information needed to make quality environmental decisions. Our core mission is to assist in your professional development and your ability to excel at your job. One innovative and oft-overlooked means of exchanging critical information with members is through our webinar program.

The Webinar Committee, which is part of A&WMA’s Education Council, chooses topics and instructors based on input and feedback received from our members and stakeholders. Our most successful webinars are instructional with a focus on performance in the workplace. Additional value is added by the interactive features of the A&WMA webinar platform where attendees are allowed sufficient time to “ask the experts” specific questions that customize the learning experience. Attendees have direct access to those who have the answers.

Since we often train in groups, and instructors often preload printable reference materials, the webinar format is ideal for a training room setting. Little expense. Little time commitment. Big return on investment. Visit www.awma.org/webinars often for announcements of future webinar programming and to access our archive of dozens of high-quality webinars that meet your needs. Happy learning!

In addition to learning how A&WMA operates, how to become a more effective leader, and best practices from other Sections and Chapters, this year’s attendees were given plenty of opportunity for networking through the weekend’s planned social events, including a networking reception with the A&WMA headquarters staff in the Association’s new office space on the 21st Floor of the historic Koppers Building in downtown Pittsburgh; dinner at one of Pittsburgh’s hottest new restaurants, the Fogo de Chao Brazilian Steakhouse; and an evening at PNC Park, ESPN’s top-rated baseball stadium, to take in an MLB game between the Pittsburgh Pirates and the St. Louis Cardinals, as well as the beautifully scenic vistas of the downtown skyline and riverfront.
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- Air Quality Forecasting
- Ambient Air Monitoring
- Human Health Risk Assessment
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