



Air & Waste Management Association's 118th Annual Conference & Exhibition

Collaborating for an Equitable, Resilient Environment

June 9-12, 2025 • Raleigh, NC

ACE 2025

Technical Program Timeline

November 25, 2024

Abstract Deadline for Professional and Student Platform Presentations, Technical Posters, and Panel Sessions

December 13, 2024

Early Notification of Non-North American Proposals

December 20, 2024 – January 31, 2025

Notification of Acceptance

January 17, 2025

Abstract Deadline for Student Posters

January 31, 2025

Author Notification of Presentation Format

March 7, 2025

Draft Paper, Poster, and Panel Synopsis Due

March 7 – May 2, 2025

Review Period

May 9, 2025

Final Submissions Due

June 9-12, 2025

ACE 2025 in Raleigh, NC

www.awma.org/ACE2025

ACE 2025 CALL FOR ABSTRACTS

Submit your work and present at the premier conference on environmental science, technology, and regulation

Collaborating for an Equitable, Resilient Environment

A&WMA invites abstracts of 200-400 words on a range of topics from climate change, energy, economic, social, scientific, political and pandemic factors shaping environmental policy and decision-making. Abstracts for individual platform and poster presentations, and panel sessions consistent with the theme of *Collaborating for an Equitable, Resilient Environment* to address current and future environmental challenges are encouraged. Case studies and practical applications are especially desired.

Abstracts are due by **November 25, 2024** for: (1) **Platform Presentations**—individual oral presentations by professionals or students in a platform session; (2) **Technical Posters**—for display/presentation in the poster session; and (3) **Panel Sessions**—these require submitters to propose a panel session topic with three to five likely panelists and be prepared to organize and conduct the panel in Raleigh. The deadline for **Student Poster** abstracts is January 17, 2025. For accepted abstracts, several options are available to submit manuscripts for review and acceptance for presentation, and inclusion in the online conference proceedings:

1. **Platform Presentations and Technical Posters:** Authors may submit a full-length manuscript or extended abstract for technical review, or PowerPoint presentation slides that will receive only a content review (Draft due March 7, 2025; final due May 9, 2025).
2. **Technical and Student Posters:** Authors must submit a poster board in accordance with A&WMA guidelines for content and format (Technical poster draft due March 7, 2025; final due May 9, 2025. Draft and final submissions not required for student posters).
3. **Panel Sessions:** Requires panel chair to submit a 150-word Panel Synopsis describing the panel topic/goals listing panelists and their affiliations (Draft due March 7, 2025; final due May 9, 2025).

Categories of interest are outlined on the following pages by major topic areas and subtopics, but other related topics are welcome. **The abstract submission site can be accessed via www.awma.org/ACE2025authors.** See the Technical Program Timeline to the left for important deadlines related to development of the preliminary and final programs.

Why you should present

A&WMA's Annual Conference is recognized as the premier international conference of its kind providing the latest information on air, environmental management and risk, climate change, resource conservation, and waste issues. The conference typically has over 200 platform and poster presentations, 30+ panel sessions, and up to 10 concurrent sessions each day. This is your opportunity to share your work at this technical conference and have it published in the proceedings, share and exchange knowledge, hear panel discussions from experts on current topics, and interact with your peers, including industry practitioners, consultants, regulators, researchers, and students.

The conference location is Raleigh, North Carolina in the Piedmont region of North Carolina. Raleigh is part of the Research Triangle area and is home to many governmental and professional, research, and educational entities working in the environmental space. Raleigh is excited to host ACE 2025, bringing industry, academia, and policymakers together so that we can learn, collaborate, and improve environmental knowledge and decision-making in this unique landscape which is at the forefront of global change. Professional continuing education credits are available.

Mark your calendars for 3 days of professional growth in Raleigh, a nexus for emerging ideas, innovations, and solutions in the field of environmental stewardship. We hope to see you in person to share and present your work and make key connections at the 118th Annual Conference and Exhibition, A&WMA's premier event for environmental professionals.

Chih Chao, Technical Program Chair

Fernando Garcia Menendez, Technical Program Vice Chair



2025 ANNUAL CONFERENCE CALL FOR ABSTRACTS

How to Submit an Abstract:

A&WMA welcomes abstract submissions from individuals with diverse backgrounds, including but not limited to gender, race, ethnicity, nationality, sexual orientation, disability and age. All abstracts must be submitted no later than **November 25, 2024**, using the abstract submission website. A&WMA cannot assure acceptance of late submittals. Detailed information, further instructions, and a link to the abstract submittal site can be found at the conference website: www.awma.org/ACE2025authors.

All abstracts are initially evaluated on technical quality; relevance and significance to current environmental issues; and absence of commercialism. Through this process, we strive to create an equitable review process that is free from bias and discrimination. Accepted abstract submissions will undergo a technical or content only review, depending on the author's choice for manuscript submission, and authors will be allowed to present in poster, platform, or panel sessions. The program will include a dedicated time-slot for a poster-only session, with no competing technical sessions. Panel Session Chairs will have the opportunity to structure the panelist presentations and discussions.

For accepted abstracts, required manuscript submissions include either a full-length paper, extended abstract, or PowerPoint slides. A Panel Synopsis with confirmed panelists is required for each accepted panel session by March 7, 2025. Final, reviewed submissions in accordance with the submittal guidelines (www.awma.org/ACE2025authors) will be included in the online conference proceedings provided they are presented in a platform, poster, or panel session at the conference.

Submission Process

- Step 1:** Link to A&WMA's online submission site via www.awma.org/ACE2025authors to create an account and follow the guided process. The listing of planned session topics along with general topic areas can be found on the online submission site to assist you with submission.
- Step 2:** If you have been invited to submit an abstract in a specific area or for a specific session, check the solicitation box on the form, and be sure to include the name of the individual who asked you to submit your proposed abstract.
- Step 3:** Verify that the contact info and name spellings for you and your co-authors are current and entered correctly. Note that the e-mail address you provide is our primary means for contacting you regarding your submission.

Special Awards for YP and Student Presentations

Presenters at the conference may be selected for these awards:

- Young Professional (YP) Best Paper Award (**must submit full-length paper or extended abstract for technical review to be considered for this award**)
- Student Poster Awards

For more information, eligibility criteria, and requirements for these awards, please visit the conference website at www.awma.org/ACE2025

Student Poster abstracts may be submitted until January 17, 2025.

Special Instructions

Individual submitters should note that they have the choice of presentation formats. Professionals may choose either Platform or Poster presentation formats and may indicate a preference for one format or the other. A&WMA will make every effort to honor the choice, but it may be necessary to reassign some platforms to posters if an appropriate session is unavailable. Undergraduate, masters, and doctoral students have the choice of a Student Platform presentation or a Student Poster (note alternative Student Poster deadline above).

When submitting an abstract, **do not** submit the same abstract multiple times with different formats (e.g., one for a Platform and a duplicate abstract for a Student Platform).

Note that if you are an individual author (or primary author with co-authors) submitting a single work for presentation at the conference, do not select the Panel Session option. Individual presentations will be grouped with other presentations in a similar topic area into a Platform Session by the Technical Program Committee, or included in the main Poster Session, as appropriate.

Abstracts for Panel Sessions should preferably be submitted by potential session chairs who want to propose a topic area with multiple panelists for a full panel session, typically about 100 to 120 minutes in duration. The specific time available will be determined by the time slot to which the Panel is assigned. Professionals submitting an abstract for a Panel Session are expected to recruit panelists for the session, organize the session, review and coordinate the presentations from the panelists, and chair the session at the conference. Panel chairs also have the responsibility to submit the Panel Synopsis and a list of confirmed panelists by the deadline of March 7, 2025.

PLEASE NOTE: A&WMA policy requires that all speakers, including panelists, who attend the conference register and pay the appropriate registration fee. All travel, housing, and expenses are to be covered by the speaker.



2025 ANNUAL CONFERENCE CALL FOR ABSTRACTS

2025 Mini-Symposium – Collaborating for an Equitable, Resilient Environment

The program will include a Mini-Symposium connected with the conference theme, “Collaborating for an Equitable, Resilient Environment.” As we move into the future, there is an increasing need to develop more sustainable energy systems; better incorporate work by more local groups and initiatives to improve air quality and reduce community exposures; and reduce greenhouse gas (GHG) emissions to address the increasing threats from global climate change and its potential for sea level rise, extreme weather events, and wildfires. Multi-disciplinary work is needed to accomplish these objectives. This year’s Mini-Symposium will focus on a variety of innovative ideas and approaches that can help accomplish these goals. Mini-Symposium sessions will be formed from submitted abstracts and panels then scheduled to minimize conflict with other sessions of similar content. The range of topics touching on the conference theme may include presentations covering energy transitions and responses to demand increases; climate change, its impacts and management; sustainable practices; and regulatory policies.

PROPOSED TOPICS

Conference Theme, Local, and Hot Topics

- Agricultural Sector Emissions Reductions Technologies and Practices
- Air Quality and Environmental Impacts of Prescribed Burning and Land Management
- Air Quality Issues for Data Centers
- Circular Economy
- Coastal Adaptation to Climate Change
- Community-Based, Mobile, Remote, and Fenceline Monitoring
- Community Engaged Projects
- Community-Focused Emission Reductions
- ESG Approaches and Reporting
- Environmental Impacts of Recent Supreme Court Decisions
- Environmental Issues at and Around Ports
- Environmental Issues at Military and Other DOD Facilities
- Environmental Issues for Electric Vehicles
- Environmental Issues from Wildfires
- Hydrogen: Associated Emissions and Challenges
- Impacts of New EPA PFAS Standards
- State and Local Government Climate Change Programs
- Use of Low-Cost Sensors and Emerging Technology

Environmental Education

- Challenges Facing Environmental Education
- Environmental Lesson Plans
- How to Liven Up Technical Presentations

Air Quality Issues

Air Measurements, Monitoring, and Controls

- Air Quality Issues in Latin America
- Air Quality Measurements in Developing Countries
- Application of Small Sensors on Community and Personal Exposure
- Developments in Emission Inventories
- Direct Carbon Capture Technologies
- E-Enterprise for the Environment: Challenges for Air Emission Reporting
- Emissions for Point and Non-Point Sources
- GHG/CO₂ Control Technologies and Strategies
- Near-Source Measurement and Monitoring
- Next Generation of Air Monitoring Tools for Fugitive, Fenceline, and Area Source Applications
- Ozone State Implementation Plan (SIP) Strategies

- Personal Exposure Measurement in Community Settings
- PM, VOC, NO_x and Mercury Control Technologies
- Use of Satellite Data in Air Quality and Emissions Assessments

Atmospheric Processes

- Air Dispersion Modeling: Case Studies, Issues, Applications, Advances, and Guidance
- Air Quality Impacts of Wildfires and Prescribed Burning
- How to Present Modeling Results to the Public
- Innovative Air Quality Modeling Techniques
- Photochemical Assessment Monitoring Stations (PAMS) and Precursor Data Analysis
- Particulate Methods, Speciation, and Analysis
- Photochemistry—New Insights in Our Understanding of the Atmospheric Processes
- PM_{2.5} Long Range Transport
- Regional Haze—Industry, State, and Federal Actions
- Strategies to Reduce Emissions from Wildfires
- Secondary Particulate Formation
- Visibility Science, Policy, and Related Topics

Environmental Justice (EJ)

- Climate Change and Environmental Justice
- EJ Impacts on Policy, Regulatory Development, Future Planning, and Permitting
- EJ Impacts on Waste Disposal and Site Remediation
- EJ in Transportation and Land Use Policies
- Emissions Impacting on Overburdened Communities
- Health Effects & Exposure (HE&E) Evaluation in Overburdened Communities
- Modeling, Monitoring, and Risk Assessment for EJ Impacts
- Public Participation in Environmental Justice Issues

Environmental Management

Effects and Exposure

- Agricultural Emissions and Impacts on Air Quality
- Air Quality and Health Effects
- Characterization of Odors using FIDOL (Frequency, Intensity, Duration, Offensiveness and Location)
- Environmental Management Systems
- Exposure and Health Effects of Regulated and Non-Regulated Air Pollutants
- Indoor/Outdoor Pollution Exposure and Effects
- International Air Pollution Exposure and Effects
- Multi-Pollutant Health Effects
- Odor Measurement, Monitoring, and Control Methods
- Odor Mitigation and Ambient Air Assessment
- PFAS and Emerging Contaminant Exposures
- Risk Assessment, Management, and Communication: Issues and Recent Experience
- Safety: Management and Recent Experience
- 6PPD Issues

Transportation

- Air Pollution from Internal Combustion Engines
- Alternative Fuels and Transportation
- Environmental Impacts from Airports
- Exhaust and Non-Exhaust Emissions
- Freeway/Highway Vehicle Speed Effects on On-Road Mobile Source Emissions
- Innovative Policies on Land Use to Reduce Transportation Source Impacts and Address Environmental Justice Concerns
- Off Road Mobile Sources: Rail, Ship, Airplane Emissions
- On- and Off-Road Mobile Sources, Near Road Air Quality
- Transportation: Climate Change and Resiliency
- Transportation: Community Noise and Vibration Issues
- Transportation: Sustainability and Health Issues



2025 ANNUAL CONFERENCE CALL FOR ABSTRACTS

Program Administration

- Air Legislation, Regulation, and Policy Developments
- Air Permitting Problems and Solutions
- Air Permitting Requirements for PFAS and Emerging Pollutants
- Best Available Control Technology (BACT) Development and Implementation
- Citizen Monitoring
- Clean Air Act Regulatory and Policy Developments - Time for Amendments/Revisions?
- Environmental Crisis Management and Risk Assessment
- EPA Priorities for 2025-2026
- Impact of Recent Court Rulings on Clean Air Act Implementation
- Modeling Issues in Prevention of Significant Deterioration (PSD)/Nonattainment/Minor New Source Review (NSR) Permitting
- NSR Issues and Recent Developments

Industry, Power Generation, Government, and Indigenous Sectors

Industry, Power Generation, and Nanotechnology

- Environmentally-Responsible Power Plant Decommissioning
- Hot Topics in the Chemical and Refining Industries
- Impacts of Developing Generation and Energy Storage Technologies
- International Power Generation (Fossil, Renewable, Nuclear): Status, Policy, Regulations, and Technology
- Mineral Processing and Extraction
- Nanomaterials: Environmental and Occupational Safety and Health, and Regulatory Developments
- Nanotechnology: Applications, Research Advances, and Safety
- Petroleum, Industry, Mining Issues and Case Studies
- Power Generation Industry—GHG Reduction Programs and Sustainability
- Power Industry Technology - Innovation, Challenges, and Benefits
- Power Plant Efficiency Improvements and Emissions Reductions through Technological Innovation
- Power Plant Effluent Guideline and Regulation Challenges
- Regulations Impacting the Power Generation Industry
- Regulatory Opportunities and Challenges for the Power Generation Industry
- Renewable Energy Impact to Grid Stability, Resilience, and Reliability
- Unconventional Oil & Gas: Issues, Controls, and Emission Calculations

Government Facilities and Indigenous Environmental Affairs

- Environmental Compliance Issues at Federal Facilities and Policy
- Environmental Considerations in Military Procurement
- Evaluation of Duplicative Regulations and Executive Orders 13771 and 13777: Issues, Opportunities, and Potential Efficiencies
- Indigenous Environmental Affairs: Issues, Regulations, Projects, and Case Studies
- Meeting Sustainability Goals for Federal Facilities
- National and Global Security Issues Related to Environmental Sustainability and Climate Change
- Planning and Implementing Sustainability and Resiliency at Federal Facilities and the Public Sector
- Regulatory/Compliance Cost Impacts on Modernization of National Security Facilities

Sustainability, Climate Change, Resource Conservation, and Waste Management

Climate Change – Science, Policy, Impacts, Regulations, Mitigation, and Adaptation

- Climate Change Data Visualization and Management
- Climate Change Impacts
- Climate Change Policy and Regulatory Issues
- Climate Change Resiliency and Adaptation
- Climate Change Risk Management
- Comparative Regulatory Approaches: Cap and Trade vs. Carbon Tax
- Downscaling Climate Change Models
- Financing Mechanisms for Climate Change
- GHG Emissions and Reporting Programs
- GHG Impacts from/on Agriculture and Wildfires
- GHG Reduction and Decarbonization Through Sustainable Materials Management
- Insurance Industry: Accounting for Climate Change
- Integrated Air Pollution and GHG Policy
- Lessons Learned: North American Cap and Trade Programs
- Local Climate Change Planning and Tracking
- Policies and Regulations on Carbon Capture and Storage
- Pollution Prevent (P2) and Its Climatic Benefits

Sustainability and Resource Conservation

- Corporate Sustainability: Plans, Programs, Ethics, and Performance Tracking
- Energy-Water-Waste Nexus
- Green Production and Consumptions: Initiatives, Life Cycle Impacts, and Opportunities
- Organic Waste Reduction and Reuse: Innovations, Regulations, and Programs
- Plastics Waste: Economies, Innovations, and Supply Chain Management
- Product and Packaging Design for Environment
- Site Remediation and Brownfields Redevelopment
- State and Local Government Sustainability Programs
- Sustainability Metrics and Analytics
- Sustainability and Resiliency Planning: Global Perspectives and Case Studies
- Sustainable Waste/Materials Management: International Perspectives and Practices
- Zero Waste and Circular Economy: Plans, Programs, Metrics, Economics, Innovation, and Climatic Benefits

Waste Processing, Waste-to-Energy, and Bioenergy

- Anaerobic Digestion and Composting of Food Wastes, Biosolids, Agricultural Wastes, and MSW
- Conflicts and Gaps in Waste Management Regulations
- Hazardous Waste Characterization, Treatment, and Reuse
- Landfills: Management, Remediation, Gas Collection, and Utilization Systems
- Residuals Management and Reuse: Agriculture, Water/Wastewater, Ash, Construction & Demolition (C&D), Industrial, and Waste Tires
- Site Assessment, Site Remediation, and Vapor Intrusion
- Solid Waste Generation, Characterization, and Collection
- Sustainable Site Remediation and Brownfields Development, Emerging Contaminants
- Waste-to-Energy and Waste and Biomass Conversion Technologies and Systems