

**A&WMA ACE 2019
Technical Program
Timeline**

The Air & Waste Management Association's 112th Annual Conference & Exhibition
June 25-28, 2019 • Quebec City Convention Centre, QC, Canada • www.awma.org/ACE2019

Winds of Change — Environment, Energy & Health

December 10, 2018

Abstract Deadline for Professional and Student Platforms, Posters and Panels

A&WMA invites abstracts (200 – 400 word summaries) on timely environmental developments, challenges, and solutions reflecting the nexus of energy, economic, social, scientific, and political factors shaping international environmental policy and decision-making. Abstracts for individual platform and poster presentations and panel sessions, including abstracts for solicited sessions and presentations, consistent with the conference theme to meet environmental challenges are encouraged. Case studies and practical applications are especially desired.

January 11, 2019

Notification of Acceptance

Authors at ACE 2019 have three options for abstract submittals (due December 10, 2018):

1. Abstracts for individual platform or poster presentations, followed by submittal of a full manuscript or extended abstract that will receive a technical review.
2. Abstracts for individual platform or poster presentations, followed by submittal of an outline or PowerPoint presentation that will receive only a content review.
3. Abstracts for panel presentations submitted by the panel chair, which will receive a content review, followed by submittal of a panel summary description and speaker names and affiliations.

January 11, 2019

Student Poster Abstracts Due

Categories of interest are outlined on the following pages by major topic areas and example subtopics, but other related topics are welcome. **The abstract submission site can be accessed via www.awma.org/ACE2019authors.** See the Technical Program Timeline to the left for important deadlines related to development of the preliminary and final program.

February 11, 2019

Author Notification of Presentation Format

Why you should present

The world is facing numerous challenges with regard to the environment, energy and health that are considered by many as the global threat of our time. In June 2019, the Air & Waste Management Association (A&WMA) will bring the world's leading experts to Quebec City to develop insights on these important issues and discuss efficacious solutions to bring about needed change. With the theme "Winds of Change—Environment, Energy & Health", ACE 2019 will be an exceptional opportunity for industry professionals, regulators, researchers, students, and stakeholders to exchange ideas and propose new ways to deal with environmental, energy and health issues.

March 15, 2019

Drafts Due

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 offers about 300 peer-reviewed platform and poster presentations, 35+ panel sessions, and up to 10 concurrent sessions.

April 15, 2019

Final Submissions Due

So close, so European, an intellectual and inspirational experience is waiting for you in Quebec City!

June 25-28, 2019

ACE2019 in Quebec City

Be a part of the winds of change and share your work, get published, make key connections, and advance the industry. We hope to see you there.

Harish Rao, Technical Program Chair



2019 A&WMA ANNUAL CONFERENCE CALL FOR ABSTRACTS

How to Submit an Abstract:

All abstracts must be submitted no later than December 10, 2018, 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/ACE2019authors.

All abstracts are initially evaluated on technical quality; relevance and significance to current environmental issues; and absence of commercialism. Accepted abstract submissions will undergo a technical or content-only review, depending on author selection, and be presented in poster, platform, or panel format. The program will include a poster-only session scheduled at a time with no competing technical sessions. Panel Session Chairs will determine the manner in which panel presentations are made.

Requirements

- A full-length paper, final extended abstract, or PowerPoint presentation is required for each accepted abstract.
- All presentations must be made in person at the conference.
- To be published in the online proceedings, authors must grant permission and papers and presentations must be submitted in accordance with A&WMA guidelines. Refer to the Technical Program Timeline for deadlines.
- A&WMA policy requires that all platform, panel, and poster presenters register for the conference and pay the appropriate registration fee. All travel, housing, and expenses are to be covered by speaker.
- All abstracts must be submitted in English and all presentations and posters must be in English.

Submission Process

- Step 1:** Link to A&WMA's online submission site via www.awma.org/ACE2019authors which includes information to guide you through the process. The listing of planned session topics along with general topic areas can be found at the online submission site to assist you with abstract 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:** Double check that the contact information (primarily email) for you and your co-authors is current and entered correctly. This is our only way of contacting you regarding your submission.

Awards for YP and Student Presentations

Presenters at the conference will be selected for awards in the following categories:

- 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 and details related to eligibility criteria for these awards and requirements, please visit the conference website at www.awma.org/ACE2019.

- **Young professional paper abstracts must be submitted no later than December 10, 2018.**
- **Student Poster abstracts may be submitted until January 11, 2019.**

Special Instructions

Individual submitters should note that they have the choice of presentation formats. Professionals may choose either Platform or Poster presentation format and can indicate a preference for one format if they desire (although it may be necessary to reassign some platforms to posters in some cases). 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, please **do not** submit the same abstract more than once in different formats (i.e., one for a Professional Platform and a duplicate abstract for a Student Platform). Note that if you are an individual author or group of authors submitting a single work for presentation at the Conference, do not select the Panel Session option, as your work 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.

Panels

Panel Session submissions are available to potential Session Chairs who want to propose a topic area for a full session of multiple presenters in a panel format, typically about 100 to 120 minutes in duration. Professionals submitting an abstract for a Panel Session will be expected to recruit speakers for the session, communicate details on required registration, deadlines, etc. to speakers, organize the session, review and coordinate the presentations from the panelists, and to chair the session at the conference.



2019 A&WMA ANNUAL CONFERENCE CALL FOR ABSTRACTS

2019 Mini-Symposium—Facing Environmental Challenges

The program will include a Mini-Symposium that follows the conference theme. This year's Mini-Symposium will focus on environmental challenges over a cross-section of disciplines examining current environmental developments with an eye toward future policy-making and solutions considering environmental improvements and other economic/societal objectives. Mini-Symposium sessions will be formed from submitted abstracts and panels, and scheduled to minimize conflict with other sessions of similar content. The range of topics may include environmental and health impacts from energy development (oil & gas, power generation, renewable energy), resource development, and commercial development; discussions of technological innovations; regulatory policy for air quality, climate change, and waste management; and topics of local interest fitting the conference theme.

PROPOSED TOPICS

Conference Theme, Local, and Hot Topics

- Remote Sensing and Satellite-Based Monitoring
- Bioaerosols and Disease Transmission
- International Air Pollution Exposure and Effects
- Industrial and Agricultural Odor Sources, Measurement, Monitoring, Modeling, and Control
- Canadian Air Quality Regulatory Issues
- Federal, Provincial, and Local Agency Priorities in Canada
- International Air Quality Regulatory Issues
- Electric and Autonomous Vehicles: Effects on the Environment
- Canadian Transportation Issues
- Clean Technology
- Tar Sands Policies, Issues, and Pollution Sources
- Decentralized and Distributed Power Generation
- Climate Change Preparedness and Modeling
- Carbon Sequestration: Technical and Regulatory Issues
- Greenhouse Gas Cap and Trade Programs—Market Issues and Protocols for Carbon Credits
- International Climate Initiatives (e.g., UNFCCC)
- Ento-Technology (Insect-Based Products)
- Use of Artificial Intelligence for Sustainable Development
- Biogas, Bioenergy, Biofuels, and Renewable Energy
- Phytoremediation
- Sustainable Site Remediation, Emerging Contaminants, and Brownfields

Air Quality Issues

Measurements, Monitoring, and Controls

- Flare Emissions and Control Technologies
- GHG/CO₂ Control Technologies
- Mercury Control Technologies
- NO_x, SO_x, VOC and Toxic Gas Control Technologies
- PM Control Technologies

- Challenges in Emission Inventory Development
- E-Enterprise for the Environment—Combined Air Emission Reporting
- Air Quality Data QA/QC and Model Reconciliation
- Air Quality Measurements and Monitoring in Developing Countries
- Application of Small Sensors on Community and Personal Exposure Assessment
- Emissions for Point and Area Sources
- Near-Source Measurement and Monitoring
- Next Generation of Air Monitoring Tools for Fugitive, Fenceline, and Area Source Applications
- Volcanic Emissions and Air Quality Monitoring

Atmospheric Processes

- PAMS and Precursor Data Analysis
- Particulate Methods, Speciation, and Analysis
- Photochemistry—New Insights in Our Understanding of the Atmospheric Processes
- Secondary Particulate Formation
- Air Dispersion Modeling: Case Studies, Issues, Applications, Advances and Guidance
- Air Quality Impacts of Wildfires and Prescribed Burning
- Innovative Air Quality Modeling Techniques
- PM_{2.5} Long Range Transport
- Regional Haze—Industry, State and Federal Views and Actions
- Topics in Visibility

Environmental Education

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

Environmental Management

Effects and Exposure

- Air Quality and Health Effects
- Application of Air Quality Data to Address Human Exposure
- Exposure and Health Effects of Regulated and Non-Regulated Air Pollutants
- Indoor/Outdoor Pollution Exposure and Effects
- Approaches for Measuring, Monitoring and Modeling of Odors
- Review of Regulatory Approaches to Managing Ambient Odors
- Environmental Crisis Management and Risk Assessment
- Risk Assessment, Management and Communication Methods and Techniques
- Safety: Management and Recent Experience

Program Administration

- Economics, Partnering, and Environmental Leadership in Industry, Government, and Business
- Environmental Management Systems
- Citizen Monitoring and Public Participation
- Air Legislation, Regulation & Policy Developments
- Air Permitting Problems and Solutions
- BACT Development and Implementation



2019 A&WMA ANNUAL CONFERENCE CALL FOR ABSTRACTS

Program Administration, con't.

- EPA Priorities for 2019-2020
- Modeling Issues in PSD/Nonattainment/Minor NSR Permitting
- New Source Review (NSR): Issues and Recent Developments
- Recent Court Rulings and Their Impact on Implementation of the Clean Air Act

Transportation

- Community Noise and Vibration Issues
- Exhaust and Non-Exhaust Emissions of Modern Fleets
- Off Road Mobile Sources: Rail, Ship, Airplane Emissions
- Alternative Fuels and Transportation
- Innovative Policies and Land Uses to Reduce Air Quality Impacts from Transportation Sources

Industrial, Government, and Public Sectors

Industrial Processes and Sectors

- Environmental Exposure to Nanoparticles: Effects on Health
- Nanotechnology: Applications, Research Advances and Safety Issues
- Hot Topics in the Chemical and Refining Industries
- Mineral Processing and Extraction
- Petroleum, Industry and Mining Issues and Case Studies
- Unconventional Oil and Gas—Issues, Controls and Emission Calculations
- Power Generation: Waste and Water Issues
- Power Generation Industry—GHG Reduction Programs and Sustainability
- Power Generation Industry and Regional Haze
- Power Industry Technology—Innovation, Challenges, and Benefits
- Regulatory Opportunities and Challenges for the Power Generation Industry

Government Facilities and Public Sectors

- Environmental Compliance Issues at Federal Facilities and Policy
- 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
- Indigenous Environmental Affairs—Issues, Regulations, Projects and Case Studies

Sustainability, Climate Change, Resource Conservation and Waste Management

Climate Change Policy, Impacts, Mitigation and Adaptation

- Climate Change Impacts
- Climate Change Impacts and Opportunities for North American Security
- GHG Impacts from Agriculture
- Climate Change Policy and Regulatory Issues
- Comparative Regulatory Approaches: Cap and Trade versus Carbon Tax

- Insurance Providers Accounting for Climate Change
- Lessons Learned: North American Cap and Trade Programs

Sustainability and Resource Conservation

- Benchmarking and Best Practices of Resource Conservation and Sustainability Programs
- Communication to the Public and Education Programs About Resource Conservation and Sustainability
- Global Markets, Trade, and Material Processing Issues
- Green Infrastructure Design
- Policy and Technology Innovations in Resource Conservation (water, energy, and materials)
- Reclamation, Re-Use, Re-Cycling – Regulatory and Business Issues and Advances
- Strategies for Plastics Management (circular economy)
- Sustainable Reuse, Recycling and Processing of Food Waste
- Waste Prevention and Diversion Incentives and Challenges
- Zero Waste - Case Studies
- Zero Waste, Net Positive and the Circular Economy
- Citizen Action Across Rural and Urban Communities Towards Sustainability
- Corporate Implementation of Sustainability: Ethics, Methods, Metrics, Reporting, and Measured Benefits
- Ensuring Sustainability in the Supply Chain
- Evaluation and Consequences of Choosing Sustainability Rating Systems
- Global Sustainability Regulations
- Pollution Prevention (P2) and its Climatic Benefits
- Product and Packaging Design for Environment
- Sustainability Metrics, Initiatives and Analytics
- Tracking Sustainability Practices in Developing Countries
- Urban Sustainability and Resilience

Waste Processing, Waste-to-Energy and Bioenergy

- Anaerobic Digestion and Composting of Food Wastes, Biosolids, Agricultural Wastes and MSW
- Biological Processing/Treatment of Organic Wastes; Biogas Energy
- Biomass Energy: Combustion, Gasification, Liquid Biofuels, Torrefaction, and Pelletization
- International Perspectives on Waste Management
- Landfills: Management, Remediation, Regulation, Gas Collection and Utilization Systems
- Processing of Wastewater Treatment Plant Residuals
- Residuals Management and Re-Use: Ash, C&D, Industrial, Waste Tires, and Wastewater
- Solid Waste Generation, Characterization, and Collection
- Waste-to-Energy and Waste Conversion Technologies and Systems
- Hazardous Waste Characterization, Treatment, and Reuse
- Site Assessment and Vapor Intrusion
- Superfund Reform, RCRA 2000, Evolving State/Provincial Programs
- Waste Remediation