



ENVIRONMENT, ENERGY & HEALTH  
A&WMA 111<sup>th</sup> Annual Conference & Exhibition  
June 25-28, 2018 Hartford, Connecticut

### ACE 2018 Technical Program Timeline

- October 2017**  
Abstract Submittal Site Open
- November 28, 2017**  
Abstract Deadline for Professional and Student Platforms, Posters and Panels
- January 8, 2018**  
Notification of Acceptance (Authors can start development of extended abstract, manuscript, presentation or outline)
- January 11, 2018**  
Student Poster Abstracts Due
- January 25-26, 2018**  
Annual Planning Meeting
- February 6, 2018**  
Author Notification of Presentation Format
- March 14, 2018**  
Drafts Due
- April 13, 2018**  
Final Submissions Due
- June 25-28, 2018**  
ACE 2018 in Hartford



The Air & Waste Management Association's 111th Annual Conference & Exhibition  
June 25-28, 2018 • Connecticut Convention Center • Hartford, CT • [www.awma.org/ACE2018](http://www.awma.org/ACE2018)

## CALL FOR ABSTRACTS

Submit your work and present at the most comprehensive conference on environmental technology and regulation

### Charting the Future—Environment, Energy & Health

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 our theme of charting the future to meet environmental challenges are encouraged. Case studies and practical applications are especially desired.

For ACE 2018, we have three options for abstract submittals (due November 28, 2017):

1. Abstracts for individual platform or poster presentations, with later submittal of a full manuscript or extended abstract that will receive a technical review.
2. Abstracts for individual platform or poster presentations, with later 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, with a later submittal of a panel summary description.

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/ACE2018authors](http://www.awma.org/ACE2018authors).** See the Technical Program Timeline to the left for important deadlines related to development of the preliminary and final program.

### 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 about 300 – 400 platform and poster presentations, 35+ panel sessions, and up to 12 concurrent sessions. This is your opportunity to share your work at this technical conference and have it published in the proceedings, enhance the knowledge base of the industry, hear panel discussions of late breaking topics, and interact with an engaged audience of your peers, including: industry practitioners, consultants, regulators, students and researchers. **For New Englanders, this is the first time ACE has been held in this region since 1975.**

In 1662, Hartford signed its Charter from the King of England. The next King wanted it back, but it was hidden under the Charter Oak, which has become a symbol of Connecticut. During the Continental Congress, Connecticut became known as the Constitution State due to its role in proposing the compromise that allowed the big states and the small states to accept the Constitution. This conference will strive to foster new understandings of the compromise required to maintain balance between energy, environment and health so that so that a sustainable future can be charted.

Mark your calendars for 3.5 days of professional growth and camaraderie with hundreds of the best minds in our profession. We hope to see you in Hartford, Connecticut for A&WMA's premier event, our 111<sup>th</sup> Annual Conference and Exhibition.

*Lee Lundberg, Technical Program Chair  
Lee Hoffman, Technical Program Vice Chair*



# 2018 ANNUAL CONFERENCE CALL FOR ABSTRACTS

## How to Submit an Abstract:

All abstracts must be submitted no later than November 28, 2017, 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/ACE2018authors](http://www.awma.org/ACE2018authors).

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 in a dedicated time slot, with no competing technical sessions. Panel Session Chairs will determine the manner in which panel presentations are made.

A final extended abstract, full manuscript or PowerPoint presentation is required for each accepted abstract, which will be published in the conference online proceedings **if presented at the conference**. Refer to the 2018 Technical Program Timeline for key dates and deadlines.

## Submission Process

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

- Step 1:** Link to A&WMA's online submission site via [www.awma.org/ACE2018authors](http://www.awma.org/ACE2018authors) 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 for you and your co-authors is current and entered correctly. This is our only way of contacting you regarding your submission.

## Special 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 Platform Paper and 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/ACE2018](http://www.awma.org/ACE2018).

- **Student Platform abstracts must be submitted no later than November 28, 2017.**
- **Student Poster abstracts may be submitted until January 10, 2018.**

## 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 with 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.

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, organize the session, review and coordinate the presentations from the panelists, and to chair the session at the conference.



# 2018 ANNUAL CONFERENCE CALL FOR ABSTRACTS

## 2018 Mini-Symposium – Achieving a Sustainable Balance

The program will include a Mini-Symposium that follows the conference theme. Rising global population and economic growth places continuing demands on energy and natural resources. This year's Mini-Symposium will focus on managing the balance between population and economic demands and mitigating environmental and human health impacts in a sustainable way. 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 resource management, energy development (oil & gas, power generation, renewable energy), climate change, and transportation, with a focus on mitigation of impacts through sustainable practices, technological innovations, and regulatory policy for air quality, climate, and waste management.

## PROPOSED TOPICS

### Conference Theme, Local and Hot Topics

- Economics, Partnerships and Environmental Leadership in Government & Industry
- Air Quality Issues in the Northeast
- Clean Power Plan Litigation Updates and Road Ahead
- Northeast State and Local Agency Priorities
- Role of State Regulation in the Current Federal Program
- Transportation: How will Automated and Connected Vehicles Impact Air Quality
- Electricity Transmission Issues (Bottlenecks/Renewables/Base Load/etc.)
- Federal versus State/Local Perspectives on Renewables
- Power Generation Economic Considerations
- Renewable Energy - Job Growth and Security Issues
- Status of Distributed Power Generation
- Climate Change and the Insurance Industry
- State and Local Government Climate Change Programs
- Anaerobic Digestion and Composting of Food Wastes, Biosolids, Agricultural Wastes and MSW
- Brownfield Redevelopment Issues: Removing the Sweat Stains of the Industrial Revolution
- Defining How Clean is Clean for Site Remediation
- Delisting RCRA Corrective Action Sites
- State Cleanup Programs
- Use of Licensed Environmental Professionals to Verify Site Remediation

### Environmental Education

- Challenges Facing Environmental Education
- High School Teacher Workshop on Environmental Lesson Plans
- How to Liven Up Technical Presentations

## Air Quality Issues

### Measurements, Monitoring and Controls

- Flare Emissions and Control
- GHG/CO<sub>2</sub> Control Technologies and Strategies
- Mercury Control Technologies
- NO<sub>x</sub> Control Technologies
- PM Control Technologies
- VOC Control Technologies
- E-Enterprise for the Environment: Impact on Industrial Reports
- Emissions for Point and Non-Point Sources
- Air Quality Measurements in Developing Countries
- Near-Source Measurement and Monitoring
- Next Generation of Air Monitoring Tools for Fugitive, Fenceline and Area Source Applications
- Personal Exposure Measurement in Community Settings

### 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<sub>2.5</sub> Long Range Transport
- Topics in Visibility

## Environmental Management

### Effects and Exposure

- Exposure and Health Effects of Regulated and Non-Regulated Air Pollutants
- Multi-Pollutant Health Effects
- International Air Pollution Exposure and Effects
- Indoor/Outdoor Pollution Exposure and Effects
- Odor Measurement and Monitoring Methods
- Odor Mitigation and Ambient Air Assessment
- Environmental Management Systems
- Risk Assessment, Management and Communication: Issues and Recent Experience
- Safety: Management and Recent Experience

### Transportation

- Transportation Noise issues
- Air Pollution from Internal Combustion Engines
- Freeway/Highway Vehicle Speed Effects on On-Road Mobile Source Emissions
- On and Off Road Mobile Sources and Near Road Air Quality
- Transportation: Sustainability and Health - Issues and Concerns



# 2018 ANNUAL CONFERENCE CALL FOR ABSTRACTS

## **Program Administration**

- Citizen Monitoring
- Air Permitting and Compliance: Problems, Solutions and Case Studies
- BACT Development and Implementation
- Clean Air Act Regulatory and Policy Developments - Time for Amendments/Revisions?
- EPA Priorities 2018-2019
- 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

## **Industry, Power Generation, Government and Indigenous Sectors**

### **Industry, Power Generation and Nanotechnology**

- Mineral Processing and Extraction
- Nanomaterials: Environmental and Occupational Safety and Health and Regulatory Developments
- Nanotechnology: Applications, Research Advances and Safety
- Hot Topics in the Chemical and Refining Industries
- Unconventional Oil & Gas: Issues, Controls and Emission Calculations
- Environmentally Responsible Power Plant Decommissioning
- International Power Generation (Fossil, Renewable, Nuclear): Status, Policy, Regulations, Technology, etc.
- Power Plant Efficiency Improvements and Emissions Reductions through Technological Innovation
- Power Plant Effluent Guideline and Regulation Challenges
- Regulations Impacting the Power Generation Industry
- Repowering Coal-Fired Generation

### **Federal 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
- Meeting Sustainability Goals for Federal Facilities
- National & 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
- Indigenous Environmental Affairs: Issues, Regulations, Projects and Case Studies

## **Sustainability, Climate Change, Resource Conservation and Waste Management**

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

- Climate Change Adaptation and Resilience
- Climate Change and Human Health
- Climate Change Science and Impacts
- Climate Change and National Security Issues
- Climate Change Communication
- Climate Change Mitigation: Benefits, Policies, Strategies, and Regulations
- Regulatory Approaches: Cap and Trade vs. Tax and Dividend

### **Sustainability and Resource Conservation**

- Green Infrastructure Design
- Green Product Design
- Reclamation, Re-Use, Re-Cycling – Regulatory and Business Issues and Advances
- Reclamation, Re-Use, Re-Cycling – Case Studies
- Sustainability versus Resilience
- Sustainable Reuse, Recycling and Processing of Food Waste
- Waste Prevention and Diversion Incentives
- Zero Waste - Case Studies
- Zero Waste, Net Positive and the Circular Economy
- Citizen Action Across Rural and Urban Communities Towards Sustainability
- Ethics in Sustainability Practices
- Pollution Prevention (P2) and its Climatic Benefits
- Sustainability Metrics, Initiatives and Analytics
- Tracking Sustainability Practices in Developing Countries
- Urban Sustainability

### **Waste Processing, Waste-to-Energy and Bioenergy**

- Biomass Energy: Combustion, Gasification, Liquid Biofuels, Torrefaction, and Pelletization
- International Perspectives on Waste Management
- Landfills: Management, Remediation, Gas Collection and Utilization Systems
- 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
- Conflicts and Gaps in Waste Management Regulations
- Hazardous Waste Characterization, Treatment, and Reuse
- Site Assessment and Vapor Intrusion
- Sustainable Site Remediation, Emerging Contaminants and Brownfields