



# All About ACE

The Annual Conference of the Air & Waste Management Association

June 25-28, 2019 • Québec City Convention Centre, Québec City, QC, CAN

A&WMA  
ACE 2019

VENTS DE CHANGEMENT

Environnement, Énergie & Santé

JUIN 25-28 Ville de QUÉBEC City



AIR & WASTE MANAGEMENT  
ASSOCIATION

Visit [www.awma.org/ACE2019](http://www.awma.org/ACE2019) to make your plans to attend!



ACE 2019

JUIN 25-28  
Ville de QUÉBEC City

Air & Waste Management Association's 112<sup>th</sup> Annual Conference & Exhibition

WINDS OF CHANGE  
Environment, Energy & Health

VENTS DE CHANGEMENT  
Environnement, Énergie & Santé

The most comprehensive conference dedicated to everything environmental, the Air and Waste Management Association's Annual Conference & Exhibition (ACE) welcomes 1,500 professionals from around the world sharing the common goal of advancing the environmental industry.

With a broad to laser focus, ACE has something for everyone looking to learn, share, and connect with others in the industry that no other conference can offer.

**Technology** – ACE is the place where researchers take the podium to present their latest findings and companies share their hottest new equipment on the exhibit floor. New product demonstrations and ground-breaking findings are revealed, shared, and reviewed in an open, neutral forum.

**Information** – Whether it's new regulations or new technology, the ACE technical program covers the latest topics in the industry. Experts from government, industry, and academia present new research, technology and solutions you can use.

**Education** – Acquire in-depth knowledge and earn continuing education credit through courses and technical sessions. Students can gain experience by presenting a paper, poster, or participating in the Environmental Challenge International competition, career panels, mentoring, and networking sessions.

**Opportunities** – Presenters, attendees, exhibitors, and sponsors may all have different reasons for choosing to attend or support the event, but can agree that the vast offering of information, education and networking available at the A&WMA Annual Conference provides a multitude of opportunities that can be created from the assemblance of thousands of professionals all in one place at one time with one common goal.

**Take advantage of all of the opportunities that A&WMA ACE can offer you, your company, and your career.**

## Winds of Change: Environment, Energy & Health

The world is facing numerous challenges with regard to the environment, energy and health. More specifically climate change is considered by many as the global threat of our time. For the first time since its inception in 1907, the Air and Waste Management Association (A&WMA) will meet in Québec City, QC, Canada, for the 112th Annual Conference & Exhibition.



With the theme "Winds of Change – Vents de changement", ACE 2019 will be an exceptional opportunity for all experts, researchers, young professionals, students, industries and stakeholders to exchange information and propose new ways to deal with environmental, energy, and health issues.

So close, so European, Québec City is the only walled city in North America. The acknowledged charm and distinctiveness of Québec City, l'accent d'Amérique, offers a blend of modern buildings with many historical attractions. Surrounded by nature's majestic beauty, the city provides the benefits of urban living in a safe, peaceful environment. Moreover, ACE 2019 will take place during one of the best weeks to visit, with June 24 being the National Holiday in Québec.

**Join us at ACE 2019 in Québec City from June 25-28 and help to bring about the "Winds of Change" for the environmental industry.**

### About the Air & Waste Management Association

A&WMA is a not-for-profit, nonpartisan professional organization that enhances knowledge and expertise by providing a neutral forum for technology exchange, professional development, networking, public education, and outreach to more than 5,000 environmental professionals in 65 countries. A&WMA also promotes global environmental responsibility and increases the effectiveness of organizations to make critical decisions that benefit society. We offer professional, student, and organizational memberships and provide learning and networking through conferences, webinars, continuing education, publications, and local sections and chapters. **Consider becoming a member! For more information, please visit [www.awma.org](http://www.awma.org).**



# Technical Programming

Many learning opportunities to increase your knowledge

## Technical Sessions — the heart of the conference!

Each year, experts from all over the world come to share their knowledge and advance the industry at the A&WMA Annual Conference. All presentations, posters, and panels receive a content review and the majority receive a full technical review.

### Opening Keynote



The Keynote Plenary Session kicks off this spectacular event and features high level industry, government and organizational leaders who share their successes and outlook for the future of the environmental industry. The ACE 2019 Keynote Plenary will feature multiple high level executives from national and international organizations on the forefront of environmental concerns and compliance.

### 49th Annual A&WMA Critical Review

#### Development of Effective Monitoring Programs to Assess the Ecosystem Effects of Pollutant Emissions: A Case Study from Canada's Oil Sands



Lead Author: Dr. Jeffrey R. Brook, Dalla Lana School of Public Health and the Department of Chemical Engineering and Applied Chemistry, University of Toronto

Production from Alberta, Canada's oil sands has grown significantly over the past three decades as has concern about its short- and long-term impacts on the environment. Despite knowledge on how to assess the impacts of human development and resource extraction in the oil sands region, significant knowledge gaps regarding the magnitude, causes, and implications remain. To better understand environmental impacts in the oil sands region, an enhanced monitoring and research program has been underway for the past six years in northern Alberta that includes a range of monitoring studies on the air, water, and wildlife, and key findings from this work are the focus of the 2019 A&WMA Annual Critical Review.

## Environmental knowledge for everyone

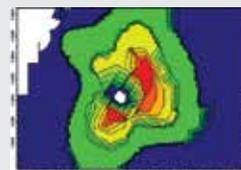
The ACE2019 technical program features over 300 presentations, organized into focused technical tracks on the most current topics, including:

- Air Quality - Control Technology, Emissions Studies Measurements and Monitoring, and Modeling
- Climate Change
- Health and Environmental Effects
- Industry, General Manufacturing and Mining
- Mini-Symposium: Facing Environmental Challenges
- Oil & Gas
- Power Generation
- Regulatory and Legal
- Sustainability and Resource Conservation
- Federal Facilities
- Transportation
- Nanoparticles
- Waste Management



Over 30 panels featuring experts who will discuss the latest issues in technology and regulation including:

- Air Quality Monitoring
- Cap-and-trade and Carbon Taxes
- Climate Change, and the use of Global Climate Models
- Sustainability and Zero Waste
- Emerging Power Generation Technology
- VOC Emission Controls
- New Source Review
- BACT
- EPA Priorities 2019-2020



**How Does It Work?** Introductory Sessions for young professionals and students on Controls, Air Dispersion Modeling, Industries, and Border Battle: Environmental Regulations in the U.S. and Canada

Combined technical and student poster session in the Exhibit Hall with over 50 posters





# Education and Events

## Take advantage of all that ACE has to offer

For 111 years, education has been the main goal of our Annual Conference. Every aspect of the conference offers opportunities to learn and grow professionally. Certificates of participation for courses and technical sessions are available for qualifying attendees for up to 16 hours.

### Professional Development Courses

If you're looking to gain in-depth and hands-on knowledge in the latest environmental topics and tools, ACE 2019 offers a variety of Professional Development Courses on Friday, June 28, including:

- Fundamentals of Air Dispersion Meteorology
- AERMOD Air Dispersion Modeling
- Ontario and Quebec Air and Noise Permitting
- Western Climate Initiative (WCI) California and Quebec Carbon Cap and Trade Program
- Environmental Issues in Gas Turbine Energy Systems
- Continuous Emission Monitoring Systems (CEMS) Fundamentals
- Air Quality Engineering
- Design, Operation and Troubleshooting Air Pollution Control Systems for Combustion and Other Industrial Applications

### Students and Young Professionals

To foster learning and networking, A&WMA encourages students and young professionals to attend and offers many targeted events for these groups, including:

- The Environmental Challenge International Competition (ECi)
- Student Welcome Reception and Keynote address featuring Canadian Senator Rosa Galvez
- Best Young Professional Paper Awards
- Student/YP Networking Reception at L'Atelier Restaurant
- Career Development Panel
- Introductory sessions on Controls, Air Dispersion Modeling, Industries, and Border Battle: Environmental Regulations in the U.S. and Canada
- Student Poster Competition
- Speed Networking
- Mentor Breakfast

ACE also offers the opportunity to donate to our scholarship fund, which has provided over \$170,000 in scholarships to graduate, and post-graduate students over the last five years.



### Technical Tours

Expand your knowledge and attend one or more of the technical tours planned at Quebec facilities on the leading edge of environmental responsibility. Tours include:

**Technological Park R & D Tour to INO: National Optics Institute, CRIQ: Industrial Research Center of Quebec, and INRS: National Institute for Scientific Research**

Tuesday, June 25, 12:30 pm–4:30 pm

**ALCOA Aluminum Plant**

Wednesday, June 26, 8:00 am–12:00 pm

**Quebec City Municipal Waste Incinerator**

Thursday, June 27, 1:30 pm–3:30 pm

### Networking Events

The Annual Conference & Exhibition also includes many social and networking events for attendees to connect with colleagues, learn new information and expand their network, including:

- Exhibit Hall Grand Opening and Lunch
- Welcome to Quebec City Reception
- Women's Professional Development Luncheon on Empowering Women and Changing Mentalities
- The Annual Honors & Awards Luncheon
- The YP/Student Networking Reception



#### Women's Lunch Speakers:

Parisa Ariya, Chair, Chemistry and Atmospheric Sciences, McGill University,  
Kathy Baig, Présidente à l'Ordre des ingénieurs du Québec, and  
Marika Wheeler, CBC Quebec Journalist

### Exhibit Hall

With over 40,000 square feet of exhibit space with the leading companies, agencies, and organizations, the ACE exhibit is one of the major attractions of the conference.

A streamlined schedule and dedicated exhibit hours allow for time to explore and network. Exhibit hall features include:

- Exhibitor demonstrations
- The Young Professionals (YP) Hub
- Technical and Student Posters
- Receptions, lunches and breaks



**Your company should be there!** ACE 2019 offers a unique opportunity for companies and organizations to exhibit on the show floor, demonstrate their products, and make valuable connections with key decision-makers in the industry.

Visit [www.awma.org/ACE2019exhibit](http://www.awma.org/ACE2019exhibit) to discover how you can meet your goals at ACE 2019. Contact Jeff Schurman, Business Development Manager at [jschurman@awma.org](mailto:jschurman@awma.org); +1 412-904-6003.



# Experience Québec

## Make the most of your time for business and leisure

### Hotel Accommodations

A&WMA has secured two official ACE 2019 hotels just steps away from the Convention Centre that give you convenient access and great rates.

#### Hilton Québec

1100 Boulevard Rene-Levesque E  
Québec City, QC G1R 4P3, Canada



#### Hotel Le Concorde

1225 Cours du General-de Montcalm  
Québec City, QC G1R 4W6, Canada

### About the Venue

Québec City Convention Centre

With a convenient location at Old Québec's doorstep, the Québec City Convention Centre now stands as one of North America's top venues for major events. The Centre was named "Best Convention Centre in the World" in 2006 by the International Association of Congress Centres (AIPC). It is also AIPC Gold Quality and LEED-EB certified and uses sustainable sourcing as much as possible.



### Venez à Québec!

Québec City is a tale of two cities: Old and New, Upper and Lower, Historic and High-Tech, North American and European.

Built on the north bank of the Saint Lawrence River, Québec City is one of the oldest European settlements in North America.



Everything is within a short walking distance of the Convention Center and Québec offers something for everyone, including stunning panoramic views, first-class entertainment, award-winning museums, unique fine dining, outdoor activities, and historical sites, including the Petit-Champlain District, Place Royale, the Parliament Building, as well as the world-famous Château Frontenac.

Don't let its "Old City" World Heritage Site designation fool you, Québec is an ultra-modern metropolis. A leader in technology, Québec is ranked as one of North America's best networked cities. It boasts a high-performance telecommunications infrastructure with a network of more than 500 wireless hotspots.

There are multiple walking trails and parks in the city and golf courses, scenic rivers and lakes are all within a 30-minutes' drive.

**Add a few extra days to your trip to ACE 2019 and experience the wonders of Québec and all it has to offer.**

## Thank you to our sponsors

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