

Connecting the World's Leading Environmental Professionals

Environmental Nuisances: Noise, Odour and Fugitive Dust



May 9-11, 2005
Hilton Toronto Airport, Mississauga, Ontario, Canada



AIR & WASTE MANAGEMENT
ASSOCIATION

Sponsored by:





The Air & Waste Management Association is the world's leading membership organization for environmental professionals. The Association enhances the knowledge and competency of environmental professionals by providing a neutral forum for technology exchange, professional development, networking opportunities, public education, and outreach events. A&WMA also promotes global environmental responsibility and increases the effectiveness of organizations to make critical decisions that benefit society. The views expressed by the individual presenters do not imply endorsement and are not necessarily reflective of the views of the Association.



Printed on Recycled Paper

Conference Organizer:
Mr. G. Steve Hart, *Innovative Environmental Solutions*

Conference Overview

Population, traffic density, industrial activity, growing cities, urban sprawl, and other activities are rapidly bringing the question of Environmental Nuisances into much sharper focus. This Conference will be technically and practically oriented as it will look at the broad issues concerning environmental nuisance; their technical and scientific causes, as well as case studies and solutions. It will last two days and be structured as follows:

- A 1/2 day Plenary on Environmental Nuisance Issues.
- Two 1/2 days parallel sessions on each of Noise, Odour and Fugitive Dust.
- A final 1/2 day Plenary dealing with Management Issues and Stakeholder Participation.

Who Should Attend?

- Government departments, especially environment and transportation
- Academia
- Business
- Consultants

Conference Location

Hilton Toronto Airport
5875 Airport Road
Mississauga, Ontario
Canada L4V 1N1

Hotel Phone: 905-677-9900

Hotel Fax: 905-677-7782

ROOM RATE: \$140 S/D

CUTOFF: April 22, 2005

General Conference Co-Chairs:

John Nicholson, *Environmental Business Consultant*
Mark Vanderheyden, *Principal, RWDI West Inc.*

Technical Committee Members:

Paul Complin, *Principal, Environmental Compliance, Canadian ORTECH Environmental*
You-Zhi Tang, *Manager, Air Quality and Environmental Process Engineering, Jacques Whitford Ltd.*
Adeline Narjoux, *Director of Projects, ODOTTECH*

Registration Information

Note: All prices are in Canadian Dollars

Hotel Information

- The Hilton Toronto Airport Hotel is located at 5875 Airport Road, Mississauga, Ontario L4V 1N1.
- A block of rooms has been reserved for conference attendees.
- To ensure availability and rate, make your reservations by **April 22, 2005**. After that date, the reserved hotel room block is released for general sale.
- Make your reservations with the hotel directly by calling (905) 677-9900.
- Single/double occupancy is \$140, plus applicable taxes.
- Please be sure to mention the Air & Waste Management Association Nuisances Conference.
- Complimentary shuttle service to/from the airport is provided by the hotel.

Conference Registration

- Complete the advance registration form on page 7.
- Mail it, with your check, credit card or purchase order information, to the Air & Waste Management Association, One Gateway Center, Third Floor, 420 Fort Duquesne Blvd. Pittsburgh, PA 15222, USA.
- Or, fax it to 412-232-3450. Faxed forms must include American Express, MasterCard, or Visa credit card information, or be accompanied by a company purchase order.
- Full registration for the conference includes admission to the sessions, the mixers on Monday and Tuesday evenings, refreshment breaks, lunches and a copy of the conference proceedings.
- Daily registration for the conference includes admission to the sessions, as well as any social activities and food functions on the day specified.

Discounted Advance-registration Rate

- To qualify for the discounted advance-registration rate, registration forms (including payment) must be received by April 22, 2005.
- After this date, registration is available only at the higher on-site fee.
- Registration fees are in Canadian dollars. All registration fees are subject to 7% GST.
- For additional information regarding registration, please phone the Meetings Registrar at 412-232-3444, ext. 3127, or fax your request to 412-232-3450.

Member Rate

- To qualify for the member rate, you must be a member of the Air & Waste Management Association.
- If you are a Section/Chapter-only member, you do not qualify for the member rate.
- If you register for the conference at the full nonmember rate, you are entitled to a one-year individual membership to the Air & Waste Management Association at no additional charge.

Refund Policy

- Written refund requests must be received by April 25, 2005.
- Refunds will be issued less a \$75 cancellation fee.
- Cancellation fee will apply regardless of payment method.
- After April 25, 2005, only written credit requests will be accepted.
- Credit requests must be received by May 11, 2005.
- The credit, less the cancellation fee, will be valid for a period of one year for any A&WMA product or event.
- This refund policy is applicable for all occurrences, including weather-related events and other natural disasters.

Preliminary Agenda

Monday, May 9, 2005

First Evening

18:00-20:00 Pre-registration

18:30-20:00 Cash bar/mixer

Tuesday, May 10, 2005

FIRST FULL DAY

07:30-18:00 Registration

07:30-08:15 Authors' breakfast

08:30-08:35 Conference will be officially opened by the Co-Conference Chairperson, John Nicholson, who will then introduce the Keynote Speaker

08:35-09:00 Keynote Speech
Keynote speaker: The Honourable Leona Dombrowsky, Minister of the Environment (invited)

Plenary Session 1 - Environmental Nuisance Issues

Co-Chair: *Mark Vanderheyden, Principal, RWDI West Inc.*

Co-Chair: *Paul Complin, Principal, Environmental Compliance, Canadian ORTECH Environmental*

09:00-09:25 **Policy Perspectives on Environmental Nuisances**
Speaker: Doris Dumais, Director, Hamilton Regional Office, Ontario Ministry of the Environment

09:25-09:50 **Health Canada's Policy Concerning Noise Issues**
Speaker: Robert Bradley, Director, Consumer and Clinical Radiation Protection, Bureau, Healthy Environments & Consumer Safety Branch, Health Canada

09:50-10:15 **Legal Framework for Dealing with Environmental Nuisances (Noise, Odour and Fugitive Dust)**
Speaker: Doug Petrie, Partner, Willms & Shier Environmental Lawyers LLP

10:15-10:30 Refreshment Break

10:30-10:55 **Agricultural Policy Issues as they Relate to Environmental Nuisances**
Speaker: Finbar Desir, Normal Farm Practises Protection Board, Ontario Ministry of Agriculture and Food

10:55-11:20 **Bay Area Air Quality Management District - How it handles Environmental Nuisances**
Speaker: Peter Hess, Deputy Air Pollution Control Officer, Bay Area Air Quality Management District

11:20-12:00 Discussion between all speakers in Session 1 and the audience.

12:00-13:30 Lunch
Luncheon Speaker: John Ferguson, Education Advisor, Environmental Commissioner of Ontario

Tuesday, May 10, 2005 (continued)

Session 2(a) - Noise Science and Technology Issues

- Co-Chair: *Don McKay, General Manager, Canadian ORTECH Environmental*
- Co-Chair: *John Walker, Manager, Air Quality, Jacques Whitford Ltd. (Halifax)*
- 13:30-13:50 **Noise Guidelines**
Denton Miller, Senior Review Engineer, Environmental Assessment & Approvals Branch, Ontario Ministry of the Environment
- 13:50-14:10 **Machinery Noise Declaration Standards - Application in the Workplace**
Stephen Keith, Research Scientist, Acoustics Division, Health Canada
- 14:10-14:30 **Infrasound - Environmental and Health Impacts**
Alberto Behar, Certified Industrial Hygienist, University of Toronto/Noise Control
- 14:30-14:50 **Active Noise Cancellation - The Future of Noise Control**
Vince Gambino, Aercoustics Engineering Limited
- 14:50-15:05 Refreshment break
- 15:05-15:25 **Ultrasound Issues**
Brian Chapnik, HGC Engineering Ltd.
- 15:25-15:45 **Non-Auditory Effects of Noise**
David Michaud, Research Scientist - Acoustics Division, Health Canada
- 15:45-16:05 **Uncertainties in Noise Propagation - A Comparison of Various Modelling Methodologies**
Scott Penton, Noise Specialist, RWDI West Inc.
- 16:05-17:00 Discussion between all speakers in Session 2(a) and the audience.
- 17:30-19:00 Cash bar/mixer

Session 3(a) - Odour Science and Technology Issues

- Co-Chair: *Michael McGinley, Laboratory Director, St. Croix Sensory Inc.*
- Co-Chair: *Adeline Narjoux, Director of Projects, ODOTTECH*
- 13:30-13:50 **VOC and Odour Reduction - Is there a Correlation?**
Rob Triebe, Senior Project Manager, Jacques Whitford Ltd.
- 13:50-14:10 **Odour Perception: Implications and Consequences**
Ben Coulson, Air Quality Specialist, RWDI West Inc.
- 14:10-14:30 **Municipal Solid Waste Landfill Odour Monitoring by Electronic Noses - Scientific and Technical Issues**
Philippe Miconne, ENSI-ACET, Toulouse, France
- 14:30-14:50 **Community Odour Monitoring**
Michael McGinley, Laboratory Director, St. Croix Sensory Inc.
- 14:50-15:05 Refreshment break
- 15:05-15:25 **Odour Compliance Versus Complaint Threshold**
Phil Girard Vice-President, Air Emissions, Pinchin Environmental Ltd.
- 15:25-15:45 **Olfactometric Evaluation of Neutralizing Agents and Application to Operation Management in Industry - Scientific and Technical Issues**
Oliver Gayet, Project Manager, Odotech, Montréal
- 15:45-16:05 **New Approaches to Odour Impact Assessment**
Jim Nicell, Professor, Department of Civil Engineering and Applied Mechanics, McGill University
- 16:05-17:00 Discussion between all speakers in Session 3(a) and the audience.

Session 4(a) - Fugitive Dust Science and Technology Issues

- Co-Chair: *Tracey Hodges, Corporate Environmental Specialist, St. Lawrence Cement Company*
- Co-Chair: *Mike Lepage, Project Director, Principal, RWDI West Inc.*
- 13:30-13:50 **Wind Erosion Emission Estimates and their Impact on Predicted Fugitive Dust Concentrations**
Abigail Salb, Environmental Engineer, SENES Consultants Limited
- 13:50-14:10 **Best Management Practices for Fugitive Dust**
Scott Grant, Technology Standards Section, Standards Development Branch, Ontario Ministry of the Environment
- 14:10-14:30 **The Scientific Basis for Fugitive Dust Emission and Controls**
Franco Di-Giovanni, Senior Air Quality Modeller, AirZone
- 14:30-14:50 **Presence and Significance of Fine Dust in Toronto**
Christopher Morgan, Senior Air Quality Specialist, City of Toronto
- 14:50-15:05 Refreshment break
- 15:05-15:25 **Fugitive Dust Emissions from Military Vehicles**
Jack Gillies, Associate Research Professor, Desert Research Institute
- 15:25-15:45 **A Small Portable Wind Tunnel for Wind Erosion Studies at Industrial Sites in Ontario**
Kirk Easto, RWDI West Inc.
- 15:45-16:05 **Potential PM₁₀ Dust Emissions, Owens Lake CA**
Bill Nickling, Professor, Wind Erosion Laboratory, University of Guelph
- 16:05-17:00 Discussion between all speakers in Session 4(a) and the audience.

Wednesday, May 11, 2005**SECOND FULL DAY**

07:30-14:00 Registration

07:30-08:15 Authors' breakfast

Session 2(b) - Noise Case Studies and Solutions

- Co-Chair: *Brian Bobbie, President, Altech Environmental Consulting Ltd.*
- Co-Chair: *Dalila Giusti, President, Jade Acoustics Inc.*
- 08:30-08:50 **Wind Power Noise Assessment**
Matt Holder, Environmental Planning, Permitting and Natural Sciences, Jacques Whitford Ltd.
- 08:50-09:10 **Agriculture Noise Problems & Solutions**
Hugh Fraser, Engineer, Horticultural Crop Structures and Equipment Specialist, Ontario Ministry of Agriculture and Food
- 09:10-09:30 **Enhancing Compatibility between an Industrial Zone and New Residential Development Through Source Controls - A Case Study**
Alex Lorimer, HGC Engineering Ltd.
- 09:30-09:50 **National Guidelines for Environmental Assessment: Health Implications of Noise**
Stephen Bly, Chief, Acoustics Division, Health Canada
- 09:50-10:05 Refreshment break
- 10:05-10:25 **Prosecutions & Regulatory Actions: Some Case Studies**
Al Lightstone, President, Valcoustics Canada Limited

Session 3(b) - Odour Case Studies & Solutions

- Co-Chair: *Jean-Yves Urbain, Earthtech (Canada) Inc.*
- Co-Chair: *Phil Girard, Vice-President, Pinchin Environmental Ltd.*
- 08:30-08:50 **Odour Aspects of Halifax Harbour Cleanup (proposed)**
John Walker, Jacques Whitford Ltd.
- 08:50-09:10 **Assessment of Landfill Site Odour Impact Versus Site Size - A Case Study**
Christophe Guy, Professor, École Polytechnique, Montréal
- 09:10-09:30 **Odour Control Technology - Biofiltration Case Study - Largest Closed-Top Biofilter in North America**
Paul Geisberger, Senior Project Manager, Air Emissions, Pinchin Environmental Ltd.
- 09:30-09:50 **Montréal Large Scale Waste Water Treatment Plant Odour Management: from Citizen Committee to Olfactometry and Electronic Noses - Case Study**
Patrice Langevin, Superintendant, Ingénierie d'usine et de procédé, Ville de Montréal
- 09:50-10:05 Refreshment Break
- 10:05-10:25 **A Collection of Case Studies: Controlling Odour Using New Scrubbers**
Alex Keen, President, Altech Technology Systems Inc.

Session 4(b) - Fugitive Dust Case Studies and Solutions

- Co-Chair: *Abigail Salb, Senes Consultants Limited*
- Co-Chair: *Tony van der Vooren, Manager, Air Quality, AMEC Earth and Environmental*
- 08:30-08:50 **Fugitive Dust from Mine Tailings**
Mike Lepage, Noise Specialist/Principal, RWDI West Inc.
- 08:50-09:10 **Fugitive Dust is Everywhere: True or False?**
Peter Piersol, Senior Project Manager, Canadian ORTECH Environmental Inc.
- 09:10-09:30 **Road Dust Re-entrainment: The Impact of Winter Road Sand/Salt and Street Sweeping on Emissions**
Alan Gertler, Research Professor, Division of Atmospheric Sciences, Desert Research Institute
- 09:30-09:50 **Fugitive Dust Control by the Aggregate Industry (proposed)**
TBA
- 09:50-10:05 Refreshment break
- 10:05-10:25 **Fugitive Dust Control in the Cement Industry (proposed)**
TBA

Wednesday, May 11, 2005 (continued)

Session 2(b) - cont.

10:25-10:45 **The Need for an Environmental Noise Auditing Protocol**
John Coulter, President, J.E. Coulter Associates Limited

10:45-11:05 **A Case Study - Industrial C of A**
Dalila Giusti, President, Jade Acoustics Inc.

11:05-12:00 Discussion between all speakers in Session 2(b) and the audience.

Session 3(b) - cont.

10:25-10:45 **Odour Control of the Largest Landfill Site in the Southeastern U.S. - A Case Study**
Michael Beckley, President and CEO, Hydralogic Systems Inc.

10:45-11:05 **Odour Emission Modelling and Odour Control in a Composting Facility**
Christiane G  linas, Conseill  re en am  nagement, Services des Infrastructures, transport et environnement, Ville de Montr  al

11:05-12:00 Discussion between all speakers in Session 3(b) and the audience.

Session 4(b) - cont.

10:25-10:45 TBA

10:45-11:05 TBA

11:05-12:00 Discussion between all speakers in Session 4(b) and the audience.

12:00-13:30 Lunch

Luncheon Speaker: *Peter Hess, President-Elect, Air & Waste Management Association and Deputy Air Pollution Control Officer, Bay Area Air Quality Management District*

Plenary Session 5 - Management Issues and Stakeholder Participation

Co-Chair: *Paul Complin, Principal, Environmental Compliance, Canadian ORTECH Environmental*

Co-Chair: *Claude Davis, Principal, Claude Davis & Associates*

13:30-13:55 **Standardized Conditions for Reporting**
Steve Klose, Manager, Certificate of Approval Review Section, Environmental Assessment and Approvals Branch, Ontario Ministry of the Environment

13:55-14:20 **CASA - Its Role in Stakeholder Participation**
Donna Tingley, Executive Director, Clean Air Strategic Alliance (CASA)

14:20-14:45 **Legal Issues**
Dianne Saxe, Saxe Law Office

14:45-15:10 **Ontario Ministry of the Environment Perspectives on Nuisance Impacts**
Dale Henry, Director, Standards Development Branch, Ontario Ministry of the Environment

15:10-15:30 Refreshment Break

15:30-16:00 **Stakeholder Engagement Issues**
Charlotte Young, ENVision Synergy - Symbiotic Solutions, Naturally

16:00-16:45 Discussion between all speakers in Session 5 and the audience.

16:45-17:00 Conference wrap-up

Conference on Environmental Nuisances – Noise, Odour and Fugitive Dust

Advance Registration Form

(Advance Registration Deadline: April 22, 2005)

Last Name _____ First Name _____ MI _____

Name/nickname for badge _____ Member I.D.: _____

Title _____

Affiliation/Company _____

Address _____

City _____ State/Province _____ Postal code _____

Telephone () _____ Fax () _____ E-mail _____

Please notify membership of address change

I am a session chair

I am a speaker

CONFERENCE REGISTRATION FEE*

Conference dates: May 9-11, 2005. Full conference registration includes technical sessions, luncheons, evening mixers, refreshment breaks, and a copy of the conference proceedings.

	Advance	After April 22, 2005
Full-member	\$450	\$500
Full-nonmember	\$550	\$650
Daily-member	\$300	\$350
Daily-nonmember	\$400	\$450
Student Member	\$225	\$250
Student Nonmember	\$275	\$325

*All prices are in Canadian dollars.

Daily – please specify day of attendance:

Tuesday Wednesday

Yes! I have paid a full-nonmember registration fee and would like to receive a one-year membership to the Air & Waste Management Association at no additional charge.

Name of A&WMA member who referred me:

TOTAL PAYMENT

Conference Fee \$ _____ CDN
 7% GST \$ _____ CDN
TOTAL \$ _____ CDN

*Make your check or purchase order payable to the Air & Waste Management Association and mail it to
 A&WMA
 One Gateway Center, 3rd Floor
 420 Ft. Duquesne Blvd.
 Pittsburgh, PA 15222-1435, USA*

To pay by American Express, MasterCard or Visa, fill out the information below and fax this form to 412-232-3450.

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412.232.3450 to submit this form by fax

The Association attempts to promptly notify all advance registrants if the conference is canceled. If the conference is canceled, the Association is not liable for any expenses by the registrant other than the refund of the registration fee(s) paid by the registrant.