20th Annual North American Waste-to-Energy Conference
The NAWTEC Steering Committee would like to thank each of the 2012 speakers and session chairs for sharing their knowledge and experience at NAWTEC 20. A special note of recognition to ERC, ASME, and SWANA staff for their tireless efforts in putting this year’s event together.

Additionally, we would especially like to individually recognize and thank the following participants and their respective organizations for generously volunteering their time, knowledge and dedication to plan and execute NAWTEC 20:

**The NAWTEC 20 Program Committee**

Ted Michaels, Energy Recovery Council  
John Austin, University of Maryland  
Bob Hauser, Pinellas County Utilities  
Mark White, Covanta Energy  
Marco Castaldi, Columbia University  
Joe Murdoch, HDR, Inc.

**Columbia University’s Earth Engineering Center/Waste-to-Energy Research & Technology Council**

Nickolas Themelis, Earth Engineering Center, Columbia University  
Marco Castaldi, Earth Engineering Center, Columbia University

A special thanks to Kevin Roche, General Manager, ecomaine, and the ecomaine staff for hosting our conference this year.
Monday, April 23, 2012

8:00 AM - 4:30 PM  Registration Open  State of Maine Pre-Function
9:00 AM - 12:00 PM  Opening Remarks and Keynote Presentations  Vermont

SESSION 1: The Changing Municipal Solid Waste Stream
Room: New Hampshire
Session Chair: Kelsi Oswald, Pinellas County Utilities, FL

Increasing Resource Recovery from Non-recycled Plastics
Greg Wilkinson, President, Third Oak Associates

* The Effect of Food Waste Diversion on Waste Heating Value and WTE Facility Capacity
Tony Løke, Principal Engineer, CDM Smith

The Changing Waste Stream and Its Implications for WTE
John Carlton, Vice President, Gershman, Brickner & Bratton, Inc.

3:00 PM - 3:30 PM  Break in State of Maine Pre-Function

Mark Maritato, Environmental Specialist, ecomaine

* The Latest and Greatest on WTE and Conversion Technologies Including Status of Projects Under Development
Harvey Gershman, President, Gershman, Brickner & Bratton, Inc.
Mark Hammond, Executive Director, Solid Waste Authority of Palm Beach County, FL

5:00 PM - 7:30 PM  Welcoming Reception and Opening of the NAWTEC 20 Tradeshow  Casco Bay Exhibit Hall

SESSION 2: Improving Combustion Technologies
Room: Vermont
Session Chair: Mark White, Covanta Energy

* Waste Combustion Technology Development for Large Scale Plants
Jens Sohnemann, Sales Director, Fisia Babcock Environment

* Practical Experience in Optimization of Combustion with Expert Systems from 24 Combustion Lines on 12 WTE Plants in Europe and China
Asger Danielsen, Director, Dublix Engineering A/S

* Carbon Monoxide Emission Improvements from Combustion System Upgrades at the Wheelabrator Portsmouth Refuse Derived Fuel Plant
Scott Morrison, Vice President of Engineering and Construction, Wheelabrator Technologies, Inc.
Samit Pethe, Process Engineer, Jansen Combustion and Boiler Technologies, Inc.

3:00 PM - 3:30 PM  Break in State of Maine Pre-Function

* Do Odors at a Waste Management Facility Indicate a Risk to Health?
Stephen Zemba, Senior Engineer, Cambridge Environmental, Inc.

* A Truly Integrated Continuous Emission Monitoring System Optimized for Waste-to-Energy Applications
Ron Baker, Vice President Eastern Region, EcoChem Analytics

Ralf Koralewska, Project Engineer, MARTIN GmbH
SESSION 3: Driving the Industry with Practical WTE Policies
Room: New Hampshire
Session Chair: Ted Michaels, President, ERC

* Waste-to-Energy, Renewability and State Renewable Portfolio Standards
Rick Brandes, Consultant, RB Consulting

* An Introduction to the Cascading Water Management System for Sustainable Water Conservation at WTE Facilities
Rebecca McLarty, Project Engineer, CDM Smith

* Generating and Marketing Carbon Offset Credits
Michael Van Brunt, Director, Sustainability, Covanta Energy

10:30 AM - 11:00 AM Break in Casco Bay Exhibit Hall

* Restructuring Plant Operations and Contracts to Make a First Generation RDF Plant Competitive in a Cost-Driven Market
Stephen Vrchota, Engineer, Great River Energy

The Economic Development Benefits of Waste-to-Energy Facilities
Jeremy O’Brien, Director of Applied Research Foundation, SWANA

SESSION 4: Gasification
Room: Vermont
Session Chairs: Timothy Sharobem, Columbia University
McKenzie Kohn, Columbia University

* Comparison of Environmental Performance Expectations: Gasification versus Mass-Burn WTE Facilities Currently Under Construction in North America
Elizabeth Rice, Consultant, Gershman, Brickner & Bratton, Inc.

Pierre Carabin, Chief Engineer, PyroGenesis

* Modeling and Design of a High Temperature Chamber Fed by a Plasma Torch for Removal of Tars
Romain Demarthon, Ph.D. Student, LeTEP

10:30 AM - 11:00 AM Break in Casco Bay Exhibit Hall

* Deactivation and Energy Analysis of Char Catalysts in Biomass Gasification Systems
Naomi Klinghoffer, Ph.D. Candidate, Columbia University

* Waste-to-Energy Conversion by Stepwise Liquefaction, Gasification and Clean Combustion of Waste Plastics
Andrew Davies, MS Candidate, Northeastern University

Covanta Commercial Gasification System
Steve Goff, Vice President, Research & Development, Covanta Energy
Steve Weber, Vice President, Business Development, Covanta Energy

Tuesday Break sponsored by:

* Paper Peer-Reviewed by

GORE Filtration Products
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Tuesday, April 24, 2012

12:30 PM - 2:00 PM  Lunch in Casco Bay Exhibit Hall
2:00 PM - 4:30 PM  Concurrent Technical Sessions

SESSON 5: Expanding WTE Operations in North America
Room: New Hampshire
Session Chair: Tony LoRe, CDM Smith
EPA Update on WTE Operations in the US
Jesse Miller, Chemical Engineer, US EPA

* Breaking Ground for a New 3,000 Ton Per Day WTE Facility
Raymond Schauer, Director of Engineering and Public Works, Solid Waste Authority of Palm Beach County, FL

* Air Permitting of New WTE Projects
Thomas Henderson, Principal Consultant, Arcadis-US

3:00 PM - 3:30 PM  Break in State of Maine Pre-Function
Region of Durham Initiative to Construct the EFW Facility and Explore Synergies Between Incineration and Integrated Waste Management Systems to Achieve 70% Diversion Goal
Gioseph Anello, Manager of Waste Planning and Technical Services, Regional Municipality of Durham, ON

Technical Update on the Frederick & Carroll Resource Recovery Facility
Mark Reuss, Manager of Engineering, Wheelabrator Technologies, Inc.
Craig Kedrowski, Senior Sales & Process Engineer, Hitachi Zosen Inova U.S.A., LLC

4:45 PM - 5:30 PM  Legislative Update  Vermont
Ted Michaels, Energy Recovery Council
Scott DuBoff, Local Government Coalition for Renewable Energy
This session will highlight the most recent U.S. federal legislative developments that will affect waste-to-energy.

5:30 PM - 6:00 PM  SWANA Waste-to-Energy Technical Division Meeting  Vermont
(Open to all)

6:00 PM - 8:00 PM  Tuesday Evening Networking Reception  Trolleys depart from Hotel Lobby
Trolleys will transport attendees between the Holiday Inn By the Bay and DiMillo's starting at 5:45 pm.

Tuesday Break
sponsored by:
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SESSION 6: Research and Development
Room: Vermont
Session Chairs: Marco Castaldi, Columbia University
Naomi Klinghoffer, Columbia University

* CFD Analysis of NOx Formation in WTE Systems Using Detailed Chemical Kinetic Modeling
Alex Frank, Student, Columbia University

* The Effect of CH3Cl on a Rh/Al2O3 Catalyst for Reforming Landfill Gas to Syngas
McKenzie Kohn, Ph.D. Candidate, Columbia University

IC Engine Performance and Emissions Operating on Landfill Gas and Synthesis Gas
Marcella Lusardi, Researcher, Columbia University

3:00 PM - 3:30 PM  Break in State of Maine Pre-Function
* The Effect of SO2/HCl Ratio on Superheater High Temperature Corrosion
Timothy Sharobem, Graduate Student, Columbia University

* Current Status of Global WTE
Nick Themelis, Director, Earth Engineering Center, Columbia University

6:00 PM - 8:00 PM  invites all NAWTEC participants to a special evening reception at DiMillo's on the Water Restaurant and Lounge.
Drinks provided by HB HELFRICH BROTHERS

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Room: New Hampshire
Room: Vermont

6

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SESSION 7: Waste Conversion Technologies
Room: New Hampshire
Session Chair: Joe Murdoch, HDR, Inc.

* Cleaning Up Gasification Producer Gas for Use in an IC Engine
  Bradley Ginger, Engineering Product Manager, EISENMANN Corporation

* MRF Residues Conversion Study
  Timothy Raibley, Vice President, HDR, Inc.

Advanced WTE Technologies: Waste Conversion Technologies
Bettina Kamuk, Head of WTE Department, Ramboll

10:00 AM - 10:30 AM Break in State of Maine Pre-Function

* Technology Selected for City of Los Angeles Waste Conversion Facility Sets New Standard for Sustainable Waste Management Using WTE
  Dominic Meo III, Principal Associate, Meo & Associates

* Rapid Growth of WTE in China, Current Performance and Impediments to Future Growth
  Nick Themelis, Director, Earth Engineering Center, Columbia University

12:00 PM - 5:00 PM
Facility Tour
Meet in Hotel Lobby
Tour Buses sponsored by:

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