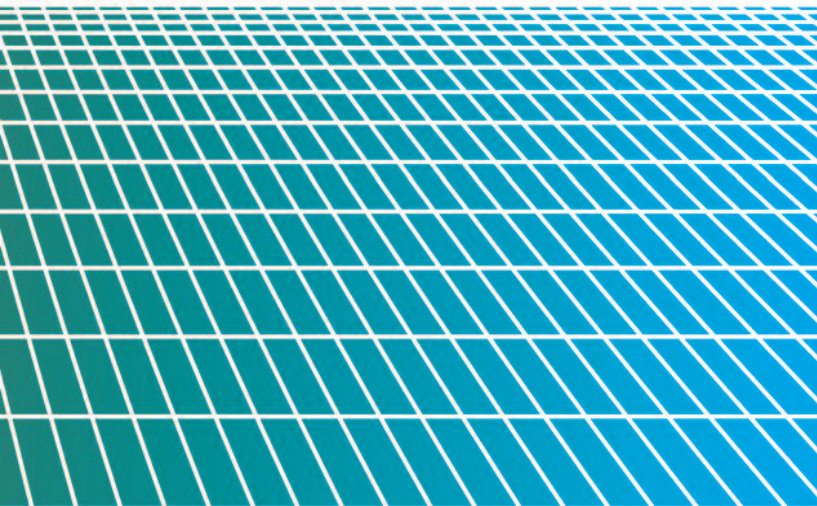




# 2007 Highlights

Three days of Technical Sessions  
Countless Networking  
Technical Tour  
Trade Show

## 15th Annual NORTH AMERICAN WASTE-TO-ENERGY CONFERENCE



MAY 21-23, 2007  
MIAMI, FLORIDA  
Doral Resort and Spa

NAWTEC is the event  
recognized as the leading  
authority on waste-to-energy  
research, operations and  
technological developments



# NAWTEC 15

NAWTEC 15  
NAWTEC 15

## 2007 Highlights

- Keynote Presentations on the status and recent accomplishments of the waste-to-energy industry in the U.S. and abroad
  - **Mark Weidman**, President, Wheelabrator Technologies Inc.
  - **Ralf Koralewska**, MARTIN GmbH
  - **Philip Chen**, Executive Director, UBS Investment Bank
  - **Chris Jumper**, Managing Director of Global Utilities, MBIA, Inc.
- Case studies of **Actual Plant Expansions**
- Discussion on “**Improving the public acceptance of waste-to-energy**”
- **Research and technology** sessions hosted by Columbia University's WTERT
  - **Operational Issues** – boiler fouling and cleaning, refractory maintenance and grate control efficiency
  - **Advancements in the Technical Field** – Computational Fluid Dynamics software for waste-to-energy boiler systems and stochastic analysis in MSW mixing
- Waste-to-energy **health and safety** workshop sponsored by IWSA
- Two-day trade show featuring the latest in waste-to-energy technology, equipment and services
- Tour of the Dade County Resource Recovery Facility

**C**o-sponsored by the **Integrated Waste Services Association (IWSA)**, the **American Society of Mechanical Engineers (ASME)**, the **Solid Waste Association of North America (SWANA)**, and in partnership with the **Waste-to-Energy Research and Technology Council (WTERT)** at Columbia University, the North American Waste-to-Energy Conference (NAWTEC) is widely recognized as the leading industry technical conference and trade show focusing on municipal waste-to-energy.

## NAWTEC 15 TECHNICAL PROGRAM

### SUNDAY - MAY 20, 2007

6:00 p.m.

Meet n' Greet at Champions Bar and Grill at Doral Resort & Spa (cash bar available)

### MONDAY - MAY 21, 2007

8:00 a.m. - 4:30 p.m. **Registration Open**

8:00 a.m. - 9:30 a.m. **Continental Breakfast**

9:30 a.m. - 12 p.m.

**Welcome & NAWTEC 15 Keynote Presentations**

**Creating Opportunities and Meeting Challenges: Keys to Fostering Growth in Waste-to-Energy**

*Mark Weidman, President, Wheelabrator Technologies Inc.*

**Global Use and Future Prospects of Waste-to-Energy Technologies**

*Ralf Koralewska, MARTIN GmbH*

**Financing Waste-to-Energy: Evaluating the Options**

*Philip Chen, Executive Director, UBS Investment Bank*

*Chris Jumper, Managing Director of Global Utilities, MBIA, Inc.*

12:00 p.m. - 1:30 p.m. **ASME Solid Waste Processing Division 2007 Awards Luncheon & Ceremony**



**MONDAY - MAY 21, 2007** (continued)

**1:30 p.m. - 4:30 p.m. CONCURRENT TECHNICAL SESSIONS**

### SESSION 1

#### **THE TIME HAS COME! FACILITY EXPANSIONS AND CONTRACT NEGOTIATIONS**

*Session Chair: Robert Hauser, Operations Director, Pinellas County Solid Waste Utilities (Fla.)*

#### **Permitting and Constructing a Waste-to-Energy Unit in the New Millennium: The Lee County Expansion Project**

*Donald Castro, Senior Vice President, HDR Engineering, Inc.*

#### **A Look at the Expansion of the Hillsborough County, Florida Waste-to-Energy Facility**

*Thomas Smith, Executive Manager, Hillsborough County Solid Waste Management Department (Fla.) and Joseph Treshler, Vice President, Covanta Energy Corporation*

#### **MSW Contingency Planning – Opportunities for Perham Facility Expansion**

*David Traeger, Vice President, HDR Engineering, Inc.*

#### **Panel Discussion:**

#### **Developing and Renegotiating Waste-to-Energy Contracts**

With most existing waste-to-energy contracts expiring over the next few years, savvy plant owners and operators look at past experiences from both inside and outside the industry as well as the changing political, social and economic landscapes to make profitable decisions regarding the negotiation of their next contract. Whether you own or operate a facility, this panel provides useful tips to negotiate your next contract.

- *Paul Stoller, Vice President, Camp Dresser & McKee*
- *Philip Chen, Executive Director, UBS Investment Bank*
- *Chris Jumper, Managing Director of Global Utilities, MBIA, Inc.*

### SESSION 2

#### **IMPROVING PLANT OPERATIONS**

*Session Chair: Mark Bobman, Assistant Director, Bristol Resource Recovery Facility (Conn.)*

#### **Analysis of Boiler Fouling and Boiler Cleaning Methods at the Commerce Refuse-to-Energy Facility**

*Matthew Eaton, Supervising Engineer, Sanitation Districts of Los Angeles County (Calif.)*

#### **New Refractory System Leads to Lower Maintenance and Boiler Performance Benefits**

*John Heffernan, Sales Manager, Zampell Refractories, Inc.*

#### **Development and Testing of a High Thermal Conductivity Refractory Tile System in a Waste-to-Energy Combustion Unit**

*Leon Plumer, Facility Manager, Covanta Bristol, Inc.*

#### **York Resource Recovery Center Superheater Metal Spray Success**

*Edward Salisbury, Plant Manager, Montenay York Resource Energy Systems, LLC*

#### **Plant Efficiency Improvements at the Greater Vancouver Regional Districts Waste-to-Energy Facility**

*Martin Elsasser, Operations Superintendent, Veolia ES Waste-to-Energy*

#### **Retrofit of Existing Waste-to-Energy Stoker Controls: Improving Combustion and Availability**

*John Polidore, Operations and Maintenance Manager, Montenay Energy Resources, Inc.*

#### **Improvements in On-Line Explosive De-Slagging in U.S. Waste-to-Energy Facilities**

*Jeff Vorfeld, Regional Engineer – West Region, Covanta Energy Corporation*

**5:00 p.m. - 8:00 p.m. Opening of NAWTEC 15 Trade Show & Sponsors Welcoming Reception**

*First opportunity to see the latest waste-to-energy equipment and products serving the industry!*



**TUESDAY - MAY 22, 2007**

**8:00 a.m. - 4:30 p.m. NAWTEC Registration Open**

**8:00 a.m. - 9:30 a.m. Continental Breakfast in Exhibit Hall**

**9:30 a.m. - 12:30 p.m. CONCURRENT TECHNICAL SESSIONS**

**SESSION 3**

**WASTE-TO-ENERGY RESEARCH & TECHNOLOGY COUNCIL: FOCUS ON TECHNOLOGY**

*Session Chair: Nickolas Themelis, Earth Engineering Center, Columbia University*

**2006-2007 Developments in Global WTE Technology**  
*Nickolas Themelis, Earth Engineering Center, Columbia University*

**Technical Attributes and Performance of the Von Roll WTE Technology**  
*Martin Brunner, Chief Technology Officer, Von Roll Inova, Zurich, Switzerland*

**The Ebara Fluidization Process for Energy Recovery and Ash Vitrification**  
*Shunzi Suzuki, Ebara Corporation, Japan*

**Doubling the Energy Advantage of WTE: District Heating in the Northeast U.S.**  
*Priscilla Ulloa and Nickolas Themelis, WTER, Columbia University*

**Improving WTE Metal Recovery and Quality**  
*Werner Sunk, Research Associate, Earth Engineering Center, Columbia University*

**Dry Ash Collection in Coal-fired Power Plants and Applicability to WTE Facilities**  
*Daniele Coppola, Magaldi Power S.P.A.*

**Technology Assessment for a New Waste-to-Energy Plant – Boiler and Grate Suppliers**  
*Gregory Gesell, Senior Mechanical Engineer, HDR Engineering, Inc.*

**SESSION 4**

**PROJECT DEVELOPMENT MODELS**

*Session Chair: John Austin, Hampton/NASA Steam Plant (Va.)*

**Low-Carbon Solid Waste Systems**  
*Emily Bedwell, HDR Engineering, Inc.*

**The Next Generation Small-Scale Mass Burn Resource Recovery System**  
*Edward Champagne, Technology Program Manager, eco/Technologies, LLC*

**Getting the Most out of your Trash: New Design Models for Waste Fired Power Plants**  
*Ole Hedegaard Madsen, Babcock & Wilcox Vølund*

**Innovating the Recovery and Recycling of Waste-to-Energy Ferrous Metals**  
*Robert Middleton, American Steel Processing Company*

**U.S. Environmental Protection Agency's Performance Track and its Practical Application**  
*Jerome Barthelemy, Environmental, Health and Safety Manager, Monteny Bay LLC and Reginald Barrino, Performance Track Coordinator, U.S. Environmental Protection Agency Region IV*

**California's Investigation of Conversion Technologies as Waste Management Solutions**  
*Jon Myers, Communications Director, California Integrated Waste Management Board*

**Waste-to-Energy Opportunities in Developing Countries**  
*Franz-Josef Kahlen, Advanced Manufacturing Solutions*

**12:30 p.m. - 2:30 p.m. Lunch in the Exhibit Hall**  
*Last Chance to See the Vendors!*

**2:30 p.m. - 5:00 p.m. CONCURRENT TECHNICAL SESSIONS**

**SESSION 5**

**WASTE-TO-ENERGY RESEARCH AND TECHNOLOGY COUNCIL SESSION: RESEARCH ADVANCES**

*Session Chair: Marco Castaldi, Earth Engineering Center, Columbia University*

**2006-2007 Research in Thermal Treatment Technologies**  
*Marco Castaldi, Earth Engineering Center, Columbia University*

**Corrosion Resistance of Commercial Alloys under Controlled Temperature Gradient in WTE Atmospheres**  
*Shang-Hsiu Lee, Earth & Environmental Engineering, Henry Krumb School of Mines, Columbia University*

**Thermogravimetric Analysis of Scrap Tire Reactions**  
*Eilhann Kwon, Earth & Environmental Engineering, Henry Krumb School of Mines, Columbia University*

**Determination of Composition of Cellulose and Lignin Mixture Using Thermogravimetric Analysis**  
*Kaushlendra Singh, Biological and Agricultural Engineering, University of Georgia*

**New Developments in Waste-to-Energy Boiler Process Modeling: Fully Integrated Computational Fluid Dynamics Model**  
*Greg Epelbaum, Principal Boiler Engineer, Covanta Energy Corporation*

**Simulation of Waste-to-Energy Facilities Using a Coupled CFD/Discrete Element Method for the Description of the Waste Process Bed**  
*Ferdinand Krüll, Research and Development, Lentjes GmbH*

**SESSION 6**

**WASTE-TO-ENERGY HEALTH & SAFETY**

*Session Chair: Ted Michaels, President, Integrated Waste Services Association*

**Panel Discussions:**

**Achieving the Highest Standard: Adding your Plant to the Ever Increasing Number of Waste-to-Energy's VPP STARS**

- Beth Hurley, Vice President, Covanta Energy Corporation
- Kent Baughn, Senior Manager of Health & Safety, Wheelabrator Technologies Inc.
- Angus Miller, Manager of Health & Safety, Veolia ES Waste-to-Energy, Inc.

**Health and Safety Update**

Learn the latest in regulations and programs that directly impact facility operations including revisions to chromium VI regulations, respiratory protection factors, Legionella, and automatic defibrillator reprograms.

- Beth Hurley, Vice President, Covanta Energy Corporation
- Justin August, Manager, Covanta Energy Corporation
- Jay Lehr, Manager of Health & Safety, Veolia ES Waste-to-Energy, Inc.

**Campaigning for Excellence: The IWSA-OSHA Hauler Safety Program Is Coming to Facilities Near You! Learn How to be Part of the Action**

- Beth Hurley, Vice President, Covanta Energy Corporation
- Kent Baughn, Senior Manager of Health & Safety, Wheelabrator Technologies Inc.
- Angus Miller, Manager of Health & Safety, Veolia ES Waste-to-Energy, Inc.

**5:15 p.m. - 6:15 p.m. SWANA Waste-to-Energy Technical Division Meeting (Open to All)**

**WEDNESDAY - MAY 23, 2007**

**8:00 a.m. - 12:00 p.m. Registration Open**

**8:00 a.m. - 9:00 a.m. Continental Breakfast**

**9:00 a.m. - 11:30 a.m. CONCURRENT TECHNICAL SESSIONS**

**SESSION 7**

**POLLUTION CONTROL SYSTEMS**

*Session Chair: Mark White, Manager of Combustion Engineering, Covanta Energy Corporation*

**Low Cost & High Benefit Improvements to a Waste-to-Energy Air Pollution Control System**  
*Jean Bodylski, Senior Engineer, Deltaway Energy*

**A European Alternative to NOX Reduction Systems**  
*Ulf Hagstrom, Founder, ECOMB AB*

**Dioxin and Furans in MSW Emissions: Pre-and Post Mercury Control Profiles**  
*Gary Hunt, TRC Environmental*

**Enhancing Air Quality Control System Performance with the Addition of Quench Venturi Scrubbers**  
*Gary Pierce, Director - Environmental Health and Safety, EAC Operations, Inc.*

**Odor Monitoring and Mitigation at the Hennepin County Waste-to-Energy Facility**  
*Jake Smith, Senior Environmentalist, Hennepin County Department of Environmental Services (Minn.)*

**SESSION 8**

**IMPROVING THE PUBLIC ACCEPTANCE OF WASTE-TO-ENERGY**

The waste-to-energy industry is at a critical crossroads. Due to expanding plants and renegotiated contracts, communities are once again seriously considering waste-to-energy as a solid waste management solution. However, convincing the public that the industry meets the most stringent guidelines for protecting public health and the environment are ongoing challenges. Join this panel discussion as we discuss the messages and tactics we can collectively use to show our communities that they are a necessary component of a sustainable solid waste management system.

- Bettina Kamuk, Project Director, Ramboll
- Lindsay Sampson, Division Director, Lee County Division of Solid Waste (Fla.)
- Robin Davidov, Executive Director, Northeast Maryland Waste Disposal Authority

**12:00 p.m. - 5:00 p.m. Dade County Resource Recovery Facility Tour**  
*(Separate registration fee, includes lunch)*

# SWANA Continuing Education Units & ASME Professional Development Hour (PDH) Information

Earn SWANA CEU's and ASME PDH's to maintain your professional accreditations and engineering license registrations by attending NAWTEC 15. The total number of SWANA CEU's and PDH's available for the event are:

SWANA CEU's (total by certification category)	May 21-23 Technical Sessions	May 23rd Facility Tour
Bioreactor Landfill	6	2
Collection Systems	6	2
Composting	6	2
Construction & Demolition	6	2
Landfill Manager	6	2
MSW Systems	12	3
Recycling Systems	7	3
Transfer Systems	6	2

ASME PDH's (total available by day; actual awarded based on number of sessions attended)	
May 21 1 Keynote, and 2 Technical Sessions	7.75 PDH
May 22 4 Technical Sessions	10 PDH
May 23 2 Technical Sessions and Facility Tour	6.5 PDH

## Featured Facility Tour

### Dade County Resource Recovery Facility

Operated by Veolia ES Waste-to-Energy, Inc.

**Wednesday, May 23, 2007, 12:00 p.m. - 5:00 p.m.**  
(Separate registration fee, includes lunch)

*\*Special thanks to Veolia ES Waste-to-Energy for sponsoring lunch*

The Dade County Resource Recovery Facility is a refuse-derived fuel plant that processes over 1.2 million tons of waste and recycles nearly 270,000 tons of metals each year. This facility has the highest electric generation capacity of all the waste-to-energy plants in Florida, rated at 77 megawatts. The facility has gone through a number of capital improvement projects, including boiler upgrades, installation of a \$64 million air quality control system, and improved garbage and trash processing systems, to make the RDF and biomass fuels.

**Please Note:** Buses will leave promptly from the hotel at 12 p.m. on Wednesday, May 23, 2007. Plan for the tour to take the entire time allotted and please make travel arrangements accordingly. Casual attire is recommended, and open-toed shoes, skirts, and shorts are NOT suggested. The tour will take place rain or shine. Personal vehicles will NOT be allowed onsite.





## NAWTEC 15 Trade Show

1. Opens 5:00 p.m. Monday, May 21, in conjunction with the Welcoming Reception
2. Exhibits will be open during BREAKFAST and LUNCH on Tuesday, May 22
3. This gives you **THREE** opportunities to see the latest products and technology serving the waste-to-energy industry

For more information on exhibitors or to reserve your exhibit spot contact SWANA's Exhibit Sales Office via e-mail at [exhibits@swana.org](mailto:exhibits@swana.org), or contact **Kerry O'Boyle Curtis** at 301.482.1454 or **Rich Ryan** at 330.686.0353.

## 3 Easy Ways To Register

- 1 Go Online to [www.SWANASTore.com](http://www.SWANASTore.com)
- 2 Fax Your Completed Registration Form to 301.589.7068
- 3 Call SWANA at 1.800.GO.SWANA (467.9262)

## Hotel Reservations

For hotel reservations, please contact:

**DORAL**  
RESORT & SPA

4400 NW 87th Avenue  
Miami, FL 33178

**Reservation Number:** 305.592.2000

Room Rate: \$169 single/double per night

- \* Must reference the North American Waste-to-Energy Conference in order to get the group discounted rate. Please reserve your rooms early. The Group Rate will expire on April 19, 2007.

## Miami Visitor's and Travel Information

Miami is full of historic sites and exciting adventures. You can visit old world-style villas and authentic Indian villages, or take a ride on a glass bottom boat and explore the mangrove creeks. These are just a few of the many excursions you can take advantage of while in Miami for NAWTEC. For more information about vacation packages and sights of Miami visit the Greater Miami Convention and Visitor's Bureau at [www.gmcbv.com](http://www.gmcbv.com).

The Doral Resort and Spa is easily accessible from The Miami International Airport. For flight information, schedules, directions and ground transportation options visit the airport's Web site at [www.miami-airport.com](http://www.miami-airport.com).



*\*Photo's courtesy of WTERT*

# 15th Annual North American Waste-to-Energy Conference

May 21-23, 2007 • Doral Resort & Spa • Miami, Florida

NAME \_\_\_\_\_

SWANA MEMBER ID (if applicable) \_\_\_\_\_

TITLE \_\_\_\_\_

ORGANIZATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_

ZIP/POSTAL CODE \_\_\_\_\_ COUNTRY \_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_ E-MAIL \_\_\_\_\_

### Professional Affiliations:

SWANA - ID Number \_\_\_\_\_

ASME - ID Number \_\_\_\_\_

IWSA - Co. Name \_\_\_\_\_

- Please check here if you do NOT want your contact information included on the event participant list to be distributed at the conference
- Please check here if you are requesting vegetarian meals or have any dietary of ADA needs (attach specific information)

### REGISTRATION (all amounts in U.S. dollars)

\*Please note member rates only apply to SWANA, ASME, and IWSA members – You MUST provide your membership ID number (or Company Names for IWSA members) in order to register at the member rates.

	Early Registration Through April 20th		Registration After April 20th	
	Member	Non-Member	Member	Non-Member
<b>Technical Sessions (May 21-23)</b>				
<i>Full registration includes scheduled technical sessions, meals, admittance to Welcoming Reception and Trade Show and one copy of proceedings.</i>				
<i>One-day registration includes only scheduled technical sessions and meals for registered day.</i>				
Monday – Wednesday (full registration)	\$530	\$580	\$580	\$640
Monday – Wednesday (full GOVERNMENT registration)	\$380	\$420	\$420	\$460
Monday Only (May 21st)	\$260	\$290	\$300	\$330
Tuesday Only (May 22nd)	\$260	\$290	\$300	\$330
Wednesday Only (May 23rd)	\$160	\$175	\$180	\$200
<b>Welcoming Reception and Exhibition Only</b> (Monday, May 21st)	\$60 member/non-member			
<b>Facility Tour</b> (NOT included in registration fee)	\$50 – Member		\$60 – Non-Member	
<b>Full Student Registration</b> (must submit proof of full-time status, does not include meals)	\$50			
<b>TOTAL DUE \$ _____</b>				

**Payment Policy:** SWANA accepts cash, checks, money orders, American Express, MasterCard, Discover, Diners Club, and Visa for payment of all events. Purchase Orders for future invoicing will be accepted from individuals who have been Members of the organization for at least 90 days and who have an account in good standing. A copy of all Purchase Orders must accompany the registration form.

### Cancellation/Refund Policy:

Cancellations for SWANA meetings must be in writing. *Phone cancellations will not be accepted.* Refunds will be issued as follows: 30 days or more prior to the start of the event, 100% of the registered conference amount less a \$50 administration fee, (we will not issue refunds for tours or other special events offered during the conference). Any cancellation received less than 30 days from the start of the event will be eligible for a SWANA future event meeting credit worth 50% of the registered conference amount, (not including tours and other special events offered during the conference). This meeting credit can be used for any future SWANA national event and is good for one (1) year from the date of issue. We invoice for no shows!!

### Payment Acknowledgement:

(REQUIRED) By signing this registration form, I acknowledge that I have read and accepted the payment and refund policies listed in this brochure. Furthermore, I understand that if I fail to appear that I, or my organization, will still be responsible for the total charges due.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

### METHOD OF PAYMENT

PLEASE READ SWANA'S PAYMENT & CANCELLATION/REFUND POLICIES, SELECT A PAYMENT METHOD, AND SIGN THE PAYMENT ACKNOWLEDGMENT

- My check for \$ \_\_\_\_\_ made out to SWANA is enclosed.
- My P.O. Number is \_\_\_\_\_ (Copy of P.O. must be attached)
- Charge to:  Visa  MasterCard  Discover  American Express  Diners Club

Card #: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



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