



**Waste-To-Energy Research
and Technology Council**

PROGRAM OF WTERT 2012 CONFERENCE

Columbia University in the City of New York

*Davis Auditorium, Schapiro Center for Engineering and Physical Science Research
Fu Foundation School of Engineering and Applied Science
530 West 120th St. (between Broadway and Amsterdam Avenue), New York City*

Thursday, October 18, 2012

- 8:15 AM** **Registration and continental breakfast**, lobby of Davis Auditorium
Sponsorship of this Breakfast by HDR Inc. is gratefully acknowledged
- 9:00 AM** **Welcome and introduction: Nickolas J. Themelis**, WTERT Chair, Earth Engineering Center, Columbia University
- 9:10 AM** **Session 1: “WTE technology advances” - Session Chair: Mr. Ted Michaels**, President, Energy Recovery Council (U.S.A.)
- 9:15 AM** **Dr. Ralf Koralewska**, Research and Development, Martin GmbH (Germany): **“Industrial-scale innovations using the MARTIN technology”**
- 9:40 AM** **Mr. Peter Chromek**, C.E.O. , Hitachi Zosen Inova (U.S.A.): **“Advances in grate combustion technology: “The RENERGIA WTE (EfW) plant in Lucerne, Switzerland”**
- 10:05 AM** **Mr. Steve Goff**, VP Research, Covanta Energy (U.S.A.): **“Covanta R&D –Developments in MSW Gasification Technology”**
- 10:30 AM** **Coffee break (30 minutes)**

- 11:00 AM** **Mr. Paul L. Hauck**, Consulting Engineer, CDM Smith (U.S.A.): **“The future of the WTE technology and industry”**
- 11:25 AM** **Mr. John Foden**, President, Canadian Energy from Waste Coalition (CEFWC), **“WTE (EfW) Developments in Canada in 2010-2012”**
- 11:40 AM** **Dr. Sergio Guerreiro**, President, WTER-T-Brazil: **“Advances toward WTE in Brazil in 2010-2012”**
- 12:15 PM** **WTERT 2012 Luncheon** (HAVANA CENTRAL near Columbia Morningside campus, Broadway between 113th & 114th)
- The sponsorship of the WTER-T 2012 Luncheon by Wheelabrator Technologies Inc., a Waste Management Company, is gratefully acknowledged**
- 2:00 PM** **Session 2: “Research advances” – Session Chair: Prof. Marco Castaldi**, Earth Engineering Center, Columbia University
- 2:00 PM** **Prof. Stefano Consonni**, Politecnico di Milano and Chair MatER (WTERT-Italy): **“Comparison of two commercial gasification technologies to grate combustion WTE; and review of MatER activities”**
- 2:25 PM** **Dr. Juergen Vehlow**, Karlsruhe Institute of Technology (ret.), **“Trends in waste incineration and residue management”**
- 2:50 PM** **Ms. Bettina Kamuk**, Ramboll WTE and Chair of Thermal Treatment Group of ISWA (Denmark): **“Best Available Technologies (BAT) for energy and metal recovery”**
- 3:15 PM** **Coffee break (30 minutes)**
- 3:45 PM** **Prof. Stefano Cernuschi**, Politecnico di Milano (Italy): **“Characterization of ultrafine and nanoparticles in WTE stack gas”**
- 4:10 PM** **Mr. Franz Neubacher**, Managing Director, UV&P (Austria), **“Large scale WTE processes that pre-treat the MSW feedstock”**
- 4:35 PM** **Dr. Sven Andersson**, “Götaverken Miljö AB (Babcock & Wilcox Vølund, Sweden): **“Sulphur recirculation for reducing corrosion and increasing thermal efficiency in WTE boilers”**
- 5: 00 PM** **Prof. Marco Castaldi**, Earth Engineering Center, Columbia University: **“WTERT R&D advances in the years 2010-2012”**
- 5:30 PM** **Poster Session** (Foyer in front of Davis Auditorium): Authors will be present to answer questions and discuss the work presented in the posters

Registrants to WTERT are welcome to bring posters for exhibition but please contact Prof. Marco Castaldi at mc2352@columbia.edu so we can provide poster stands.

6:30 - 9.00 PM **WTERT Awards Dinner** (Skyline Dining Room of Columbia's Faculty House, Morningside Campus)



The sponsorship of the WTERT 2012 Dinner by the Materials and Energy Recovery Division of the American Society of Mechanical Engineers (MER/ASME) is gratefully acknowledged

Welcome address by Chair of MER/ASME; Presentation of WTERT 2012 Award to Waste Management World journal of ISWA for outstanding contribution to disseminating information and advancing waste management worldwide during the first decade of the 21st century. The Award will be presented by Prof. Themelis and received by Mr. Tom Freiberg, Chief Editor of "Waste Management World"

Friday, October 19, 2012 (Open to the public)

8.30 AM **Continental breakfast, lobby of Davis Auditorium**

9:00 AM **Session 3: "The road to sustainable waste management " – Session**
Chair: Prof. Nickolas J. Themelis, Columbia University

9:00 AM **Mr. Ted Michaels, President, Energy Recovery Council (U.S.A.): WTE**
developments in 2010-2012 and legislative prospects

9:25 AM **Dr. Ella Stengler, Managing Director, Confederation of European WTE**
Plants (CEWEP): WTE developments in E.U. and legislative prospects

- 9:50 AM** **Mr. Craig Cookson**, Director, Sustainability & Recycling, Plastics Division, American Chemistry Council (U.S.A.);, **“Seeking alternatives to landfilling of non-recycled plastics (NRP)”**
- 10:15 AM** **Coffee break (30 minutes)**
- 10:45 AM** **Mr. Tom Freyberg**, Chief Editor of *Waste Management World* (winner of the WTER T 2012 Award), **"The waste management world, 2000-2010, from a media perspective"**
- 11:10 AM** **Prof. Nickolas J. Themelis**, Earth Engineering Center, Columbia University, **“GDP, sustainable waste management and the role of the WTERT national organizations”**
- 11:30 AM** **General discussion and questions from audience to all speakers in this session**
- 12:30 PM** **End of WTERT 2012 Conference**

Continuing Education hour credits: Please note that after the WTERT Conference participants can request (lq2135@columbia.edu) a state-authorized Certificate of Attendance for number of hours they attended.

*You can find the WTERT Program, information on NYC accommodations near Columbia University, and instructions for online or by mail registration to the WTERT 2012 Bi-Annual Conference by linking to (<http://www.seas.columbia.edu/earth/wtert/>). You can register on line by linking to:
<http://www.regonline.com/Register/Checkin.aspx?EventID=1134437>*

Please note: If you have any dietary restrictions for WTERT Awards Dinner please send an e-mail to Mr. Ling Qiu at lq2135@columbia.edu

For more information on WTERT 2012 Meeting, please contact Mr. Ling Qiu, WTERT Administrator at lq2135@columbia.edu; Tel: 1-212-854-9136; Fax: 1-212-854-7081

Map of Columbia Morningside campus on following page::

