



ISWA Beacon Conference:

"THE GLOBAL CHALLENGE: OPTIMISING THE C CYCLE"

Biological treatment of biowaste

Composting, Anaerobic Digestion, MBT:
challenges, opportunities, innovative strategies

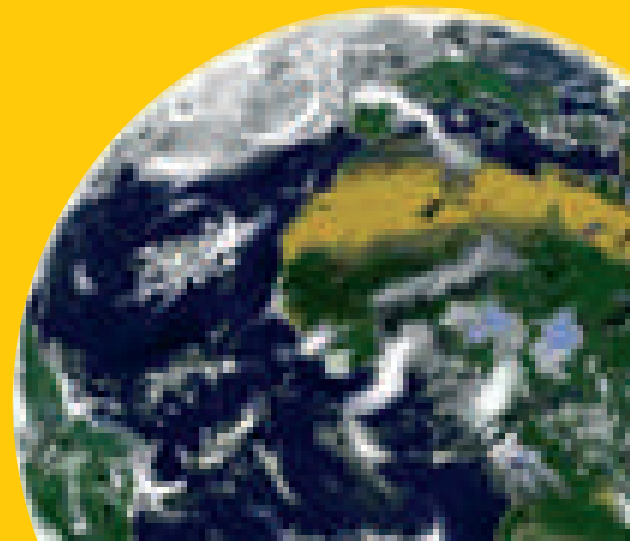
Perugia - ITALY

22 | 23 May 2008

The International Solid Waste Association



ISWA



PROGRAMME

Biological treatment is regarded as one “way forward” in strategies for sustainable waste management.

Not only does it offer a reliable and fully tested option for diversion of fermentable waste from landfills, but also it provides for solutions to other environmental issues, as e.g. management of climate change, and preservation of fertility of farmlands across the world

Biological treatment offers a fully scaled and flexible variety of approaches, including composting, anaerobic digestion, mechanical-biological treatment, and relates to other key aspects of environmental engineering, e.g. operational optimisation of collection schemes for biodegradable waste and minimisation of disamenities at treatment sites.

The ISWA “Beacon” Conference intends to address comprehensively all such aspects, offering the detailed and a broader picture at the same time, allowing waste managers, stakeholders, policy-makers to gather information and tools for decision-making and establishment of consistent strategies.

The Conference builds on most up-to-date knowledge in this sector, from within and outside the ISWA WG on Biological Treatment, thanks to the valuable support by other renown experts who act as reference persons in this sector.

PROGRAMME COMMITTEE

Enzo Favoino (Chair)

Daniele Fortini (President, ISWA Italy)

Leonardo Ghermandi (President, CIC)

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Mario Businelli (Biomass Recycling Facoltà Agraria, University of Perugia)

Giovanni Gigliotti (Biomass Recycling, Facoltà Agraria, University of Perugia)

The ISWA Working Group on Biological Treatment

Josef Barth (ECN)

ORGANISATIONAL COMMITTEE

Carlo Noto La Diega (Chair)

Nilo Arcudi (Environmental Councillor and Deputy Mayor, City of Perugia)

Lamberto Bottini (Environmental Councillor, Region of Umbria)

David Newman (Director, CIC and ISWA Italy)

Franca Caramello (GSA srl)

Valeria Perin (ISWA, Italy)

Elide Piunti (ISWA, Italy)

Thursday 22nd of May

09.00 - 09.30 Registration and welcome coffee

09.30 - 10.00 Welcome from the City and University of Perugia

10.00 - 13.00 **Session 1 - The global Challenge of C management**

Session Chair, Greg Vogt, Managing Director, ISWA

Speakers:

- Susan Antler (Canadian Composting Association)
- Angus Johnston (Organics Programme, WMAA, Australia)
- Chuck Peterson (Waste Management / Carbon Finance - FEU Urban Unit, The World Bank)
- Enzo Favoino (Chair, ISWA WG "Biological Treatment")
- Atilio Savino (ARS Argentina) Clean Development Mechanism, a developing country view

The challenge of biodegradable waste to improve waste management worldwide.

The EU Context: management of biodegradables in the light of international environmental drivers.

Management of biodegradables in N. America and Australia.

Practicable Strategies in Developing Countries. Life-Cycle implications of biological treatment.

14.00-16.00 **Session 2 - The aerobic way: composting**

Session Chair: Daniele Fortini, President Federambiente and ISWA Italy

Speakers:

- Sigurd Tvedt (RKR, Norway)
- Jean-Luc Martel (SUEZ, France)
- Federico Valentini (GESENU, Italy)
- Florian Amlinger (Kompost Entwicklung und Beratung, Austria)

Trends and challenges in composting.

Odour Management.

Process Optimisation and Assessment of stability.

Decentralised approaches.

16.00 -18.00 **Session 3 - The anaerobic option**

Session Chair, Carlo Noto La Diega, President FISE, Board Member ISWA Italy

Speakers:

- Morten Brogger (SOLUM, Denmark)
- Sergio Piccinini (CRPA, Italy)
- José Mata Alvarez (University of Barcelona, Spain)
- Bruno de Wilde (OWS, Belgium)

Strategies for Anaerobic Digestion and its integration to composting.

Process performances, and conditions for application of AD to different feedstocks.

Case histories: status and trends of anaerobic digestion in some Countries.

COCKTAIL OFFERED BY ISWA ITALIA

18,00 -19,30 on the occasion of the presentation of the CITEC English language Guide to Plant Management.

Friday 23rd of May

09.30 - 11.00 **Session 4 - Management of residuals: the MBT option** **Session Chair: Enzo Favoino, Chair, ISWA WG "Biological Treatment"**

Speakers:

- Wolfgang Mueller (IGW, Germany)
- Stathis Papadimitiou (Global Renewables, UK)
- Boris Efremenko (VEOLIA, France)
- Gilberto Garuti (ECODECO, Italy)
- Alberto Carrera (Sorain Cecchini Tecno Italy)

The role of MBT as a flexible option for treatment of residuals.

An assessment of MBT across Europe.

The need to codify acceptance and loss of biodegradability: various approaches.

Low-tech approaches for Developing Countries.

On-site treatment of landfilled waste.

Landfilling MBT outputs: implications on landfill design.

Conditions for application of low-grade MBT outputs.

11.30 - 13.00 **Session 5 - A toolkit: strategies and practice in Separate Collection** **Session Chair, David Newman Director CIC and ISWA Italy**

Speakers:

- Dominic Hogg (EUNOMIA, UK)
- Chris Zurbruegg (EAWAG, Switzerland)
- Francesc Girò (ARC, Catalan Agency for Waste Management, Spain)
- Lorena Franz (ARPAV, Italy)

An overview of strategies, systems for separate collection and related outcomes

Case-histories

Economic and operational assessment of optimised schemes

Case-histories

Experiences and strategies in advanced Countries

Pilots in low-income Countries

14.30 - 16.00 **Session 6 - The added value of biological treatment: quality, use and marketing of outputs**

Session Chair, Atilio Savino, Vice President ISWA

Speakers:

- Konrad Schleiss (Switzerland)
- Josef Barth (European Compost Network)
- Massimo Centemero (CIC, Italy)

Quality and beneficial use of composts: an overview.

Experiences and trends in marketing.

Implementation and management of Quality Assurance Schemes.

New trends in research related to compost use:

- suppressive power
- use in pots
- application in farmlands.

16.00-16.30 Discussion and Conclusions:

Chair: Enzo Favoino, Chair, ISWA Biological Treatment Working Group

Note: Coffee, tea, soft drinks, snacks and biscuits are available from 11.00 am to 12.00 pm and 15.00 pm to 16.00 pm outside the Conference Room. There are no specific coffee breaks in the programme.

Please note that the programme may be subject to minor changes.

Optional

On Saturday morning 24th May all delegates are invited to visit the Gesenu SpA composting and MBT plant 30kms from Perugia. The visit is free for all Beacon Conference delegates. Departure 09.00 am from Perugia, return about 13.00 pm.

PRACTICAL INFORMATION

REGISTRATION FEE

ISWA Members: € 300,00 + VAT 20%, total € 360,00 Others: € 350,00 + VAT 20%, total € 420,00
Students: € 100,00 + VAT 20%, total € 120,00. The registration fee includes participation in the conference, conference proceedings printed on CDRom, refreshments, welcome cocktail and lunches on May 22nd and 23rd, 2008.

OFFICIAL LANGUAGE

The official working language of the meeting is English. Simultaneous translation into and from Italian will be provided for all sessions.

CONFERENCE VENUE

The conference venue is the Department of Agriculture at the University of Perugia, located in Borgo XX Giugno, 74 (city centre). All sessions will take place in the Aula Magna.

HOW TO REACH PERUGIA

We suggest to use one of the following ways to get to Perugia:

- From **London Stanstead**, Ryanair flies to Perugia directly. (www.ryanair.com)
- From **Milan Malpensa** direct flights to Perugia with Alitalia (www.alitalia.it)
- Arrival at **Airport Rome-Fiumicino**, trains run regularly between Rome Fiumicino Airport and Termini Railway station and the ticket costs € 12,00.
- Arrival at **Airport Rome-Ciampino**, take taxi or the airport bus to Rome Termini Railway station (Ryanair bus costs € 10,00, taxi fixed cost € 30,00 one way) . From the Termini Railway station trains run to Perugia (via Foligno or Terontola). The total trip takes about 3 hours, the price for a single ticket is 25,00 Euros circa. The timetable can be found on www.treinitalia.com.
- Arrival at **Airport of Ancona, Forlì and Bologna**, Hire a car and drive, approximately 200km or two hours.
- Arrival at **Airport Pisa**, take train to Firenze (Florence) and there change, every hour a train runs to Perugia (the Foligno line) and takes about 2.5 hours. See www.treinitalia.com.
- **Bus**, SULGA BUS LINES - Perugia Phone: (39) 075 5009641 Fax: (39) 075 5053733 Info: www.sulga.it
Tickets: on board or c/o VISETUR, phone: (39) 075 30799
The bus leaves from Rome Fiumicino Airport and Tiburtina Railway Station and arrives in central Perugia (Piazza Partigiani) and vice versa, the total trip takes about 4 hours, the price for a return ticket is about € 30,00.
Driving from Rome airports to Perugia takes circa 2 hours.

ACCOMMODATION

Please note that the conference organizers do not make any hotel reservations. We suggest you search for the hotel you want on www.perugia.com.

**For further INFORMATION contact:
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ISWA ITALIA

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