

# Programme, June 19 - 25, 2016

## ***ISWA Study Tour WASTE-TO-ENERGY***



***Czech  
Republic  
Hungary  
Austria***



**Seminar and Technical Tour to 11 Plants and Facilities in Operation  
Vienna ⇨ Niklasdorf ⇨ Wopfing ⇨ Brno ⇨ Budapest ⇨ Dorog ⇨ Vienna**

**Practice Seminar on Sustainable Waste Management in Europe based on Prevention, Recycling, Recovery, Treatment, and Intermediate Storage - without any disposal of untreated wastes exceeding 5 % TOC (Total Organic Carbon) in landfills**

# INTRODUCTION

This year (after 6 successful similar Waste-To-Energy Study Tours with more than 130 participants from all 5 continents) we are pleased to offer the 7th technical tour to 11 different plants and facilities in Austria, Czech Republic, and Hungary with special seminars.



## Franz Neubacher

*M.Sc. Technology & Policy (M.I.T., USA)*

*M.Sc. Chemical Engineering (TU Graz, Austria)*

[\*UVP Environmental Management and Engineering\*](#)

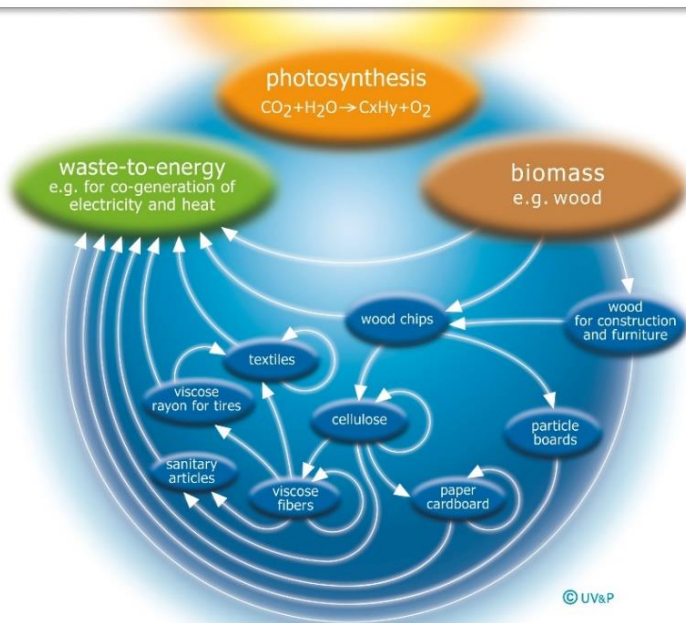
## Method for the Practice Seminar

There are 3 pillars of individual benefits and professional education offered within this unique practice seminar:

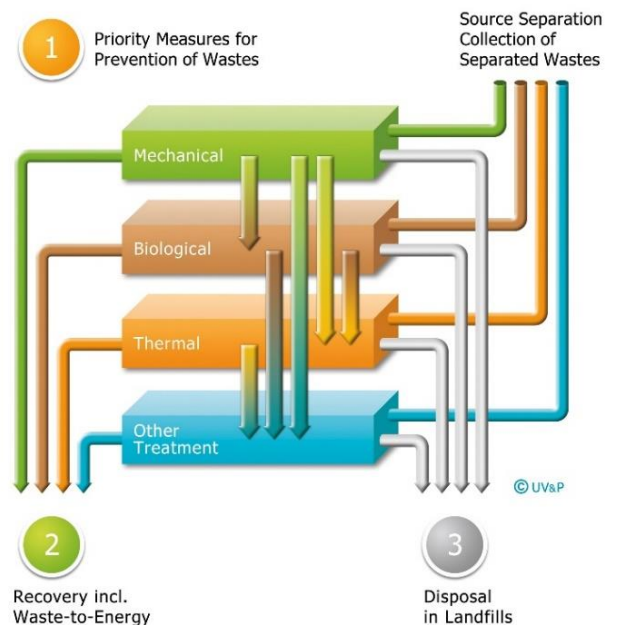
- Quality seminar taught by senior experts in waste management, environmental policy and engineering
- Visits to waste treatment facilities representing Best Available Techniques including discussion with operators and reputable engineering and policy experts
- Discussions with environmental experts on control and public acceptance of waste treatment plants (typical "LULU" projects - locally unwanted land use and "NIMBY" – not in my backyard)

For technical information see ["White Book Waste-to-Energy in Austria"](#)

## Green Technology: Recycling and Recovery for Sustainable Waste Management



## Future-oriented Integrated Systems for Sustainable Waste Management



# SUNDAY, June 19, 2016

7.00 pm – 9.00 pm

Welcome by the Seminar Team at [Hotel Regina](#) in Vienna



# MONDAY, June 20, 2016

7.30 am – 08.00 am

*Transfer to Pfaffenuau*

08.00 am – 10.00 am

**Welcome Address by ISWA, Introduction of Participants, Introduction to „Sustainable and Integrated Waste Management, Recycling and Recovery of Energy from Waste“**

by Dipl.-Ing. Rainer Kronberger, President of ISWA Austria

10.00 am – 10.30 am

*Refreshments*

10.30 am- 12.00 pm

**Seminar on "Systems for Waste Treatment and Energy Recovery"**

Fundamentals of drying, pyrolysis, gasification and combustion, characterization of wastes as fuel, sorting and pre-treatment of wastes, grate, fluidized bed systems, rotary kilns with afterburning chamber, experience and limitations for specific wastes in various systems; odor control and control of atmospheric emissions – auxiliary chemicals – treatment of liquid and solid residues

12.00 pm – 1.00 pm

*Lunch Buffet*

1.00 pm – 2.30 pm

**Overview of the MSW Treatment Plants in Vienna**

by Dipl.-Ing. Rainer Kronberger

2.30 pm – 4.30 pm

**Site Tour of the Waste Treatment Facilities at Pfaffenuau**

(waste incinerator, mechanical treatment plant, waste storage, biogas plant)

4.30 pm – 5.00 pm

*Transfer to Spittelau*

5.00 pm – 5.30 pm

*Refreshments*

5.30 pm – 7.30 pm

**Overview of the WtE plant Spittelau and seminar on "Energy from Waste in Vienna by Co-generation of Electricity and District Heating / Cooling"**

by Dipl.-Ing. Dr. Michael Kotschan and Dipl.-Ing. Alexander Wallisch, WtE Plant Spittelau

7.30 pm – 9.00 pm

**Welcome by the City of Vienna, WtE Plant Spittelau (14th floor)**



# TUESDAY, June 21, 2016

7.30 am – 09.30 am

*Bus transfer to Niklasdorf*

09.30 am – 10.00 am

*Refreshments*

10.00 am – 11.30 am

**Seminar on "Prevention, Detection and Control of Fire Hazards in Treatment Facilities and Storage of Waste"** by Dr. Hannes Kern (Mining University Leoben)

11.30 am – 1.00 pm

**Seminar on "Overview of FBC-Systems and Recovery of Materials"** by Eng. Christian Pusterhofer

1.00 pm – 2.00 pm

*Lunch buffet at Brücklwirt Niklasdorf*

2.00 pm – 3.00 pm

**Site Tour of the Waste-to-Energy Plant ENAGES integrated with the Paper Industry  
Brigl & Bergmeister in Niklasdorf**

3.00 pm – 4.30 pm

*Bus transfer to Wopfing*

4.30 pm – 6.00 pm

**Overview and Site Tour of the Cement Clinker Plant Wopfinger** including utilization of waste derived fuels and raw materials with Best Available Techniques for emission control

6.00 pm – 8.30 pm

*Bus transfer to [Hotel Celnice](#), Breclav, Czech Republic incl. Dinner at a traditional Garden Restaurant*



# WEDNESDAY, June 22, 2016

8.00 am – 09.30 am

**Seminar on "Development of Waste Management and Integrated Pollution Prevention and Control"** Policy and legal framework in Austria and EU, legal ban on hazardous and untreated wastes exceeding 5 % TOC from disposal in landfills, landfill tax; development of the most stringent emission standards for Waste-to-Energy worldwide, status quo of waste management in different regions and countries of the EU, trans-boundary shipment of wastes

09.30 am – 10.00 am

*Refreshments*

10.00 am – 11.30 am

**Seminar on "Resource and Energy Efficiency in Sustainable Waste Management, The 20-20-20 goals of the EU for 2020 and goals for 2030"** including co-incineration of waste-derived fuels in industrial production processes (e.g. cement kilns) and recovery of materials.

11.30 am – 12.30 pm

*Lunch buffet*

12.30 pm – 1.30 pm

*Bus transfer to Bruno*

1.30 pm – 3.00 pm

**Overview of Municipal Waste Management and the Waste-to-Energy Plant Brno**

3.00 pm – 4.00 pm

**Site Tour of the Waste-to-Energy Plant Brno**

4.00 pm – 4.30 pm

*Refreshments*

4.30 pm – 6.00 pm

**Seminar on "Socially Acceptable Costs for Municipal Waste Management Services"**

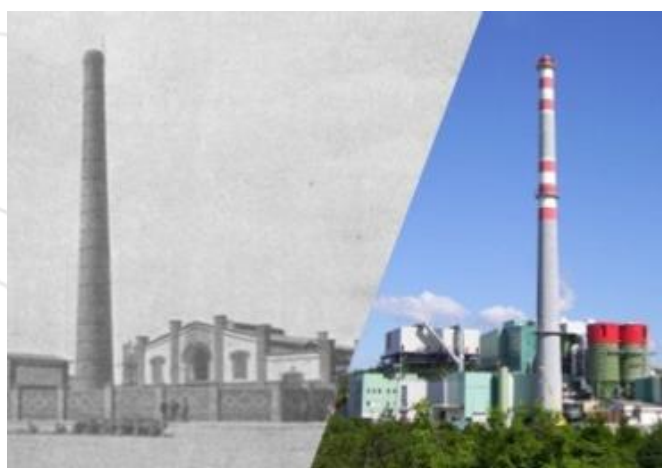
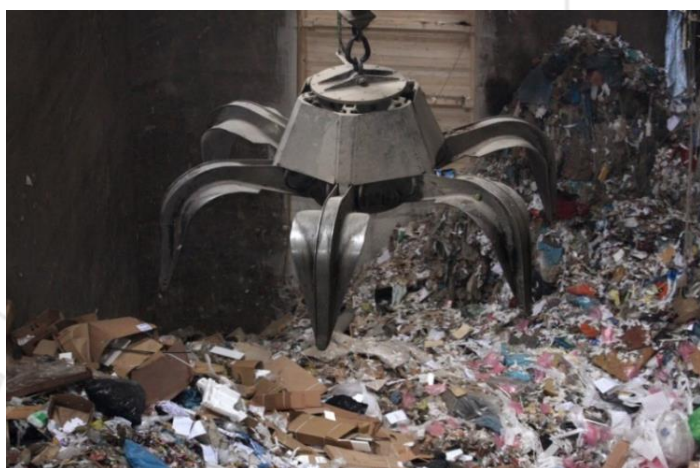
by Dipl.-Ing. Vojtěch Doležal

6.00 pm – 7.00 pm

*Bus transfer to the Hotel in Breclav*

7.30 pm – 9.00 pm

*Dinner (Czech Specialities)*



# THURSDAY, June 23, 2016

7.30 am – 12.30 am

*Bus transfer to Budapest including refreshments and lunch*

12.30 pm – 1.00 pm

*Refreshments*

1.00 pm – 2.30 pm

**Overview of the Municipal Solid Waste Management and Waste-to-Energy Plant Budapest**

2.30 pm – 3.30 pm

**Site Tour of the Municipal Waste-to-Energy Plant Budapest**

3.30 pm – 4.00 pm

*Refreshments*

4.00 pm – 5.30 pm

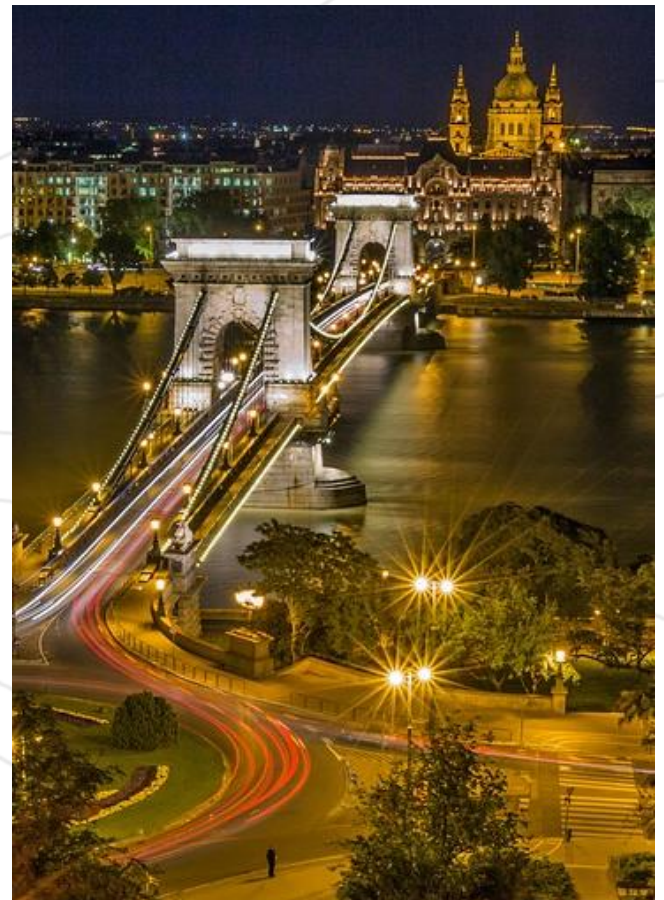
**Seminar on “Introduction to Development of Sustainable Waste Management and Waste-to-Energy in Hungary”** by Dr. Anita Gulyás (OKTF - National Inspectorate For Environment, Nature and Water), and by DI Tibor Nencsek (NHSZ – National Waste Management Company)

5.30 pm – 8.00 pm

**Sightseeing Tour by Bus, Welcome Address** by the Representatives of ISWA Hungary **and Dinner Buffet at a cenic restaurant in Budapest**

8.00 pm – 9.30 pm

*Bus transfer to [Hotel Bellevue, Esztergom, Hungary](#)*



# FRIDAY, June 24, 2016

8.00 am – 9.30 am

## **Seminar on "Examples for Project Development, Potential Conflicts and Public Acceptance of new Waste-to-Energy Facilities"**

Examples for alternatives in waste management including "Status-quo" and "Zero Waste", selection of appropriate sites, public information, option for a control panel with local representatives and critical citizens, management of public hearings, role of media and politics, discussion of examples for acceptance of large Waste-to-Energy facilities by Green activists

9.30 am – 10.00 am

*Refreshments*

10.00 am – 11.30 am

## **Seminar on "Project Design and Economic Analyses for new Waste-to-Energy projects"**

Including the relevance of an effective legal framework and its enforcement, taxes and economic incentives, public education, discussion on the influence of culture in environmental protection

11.30 am – 12.30 pm

*Lunch Buffet*

12.30 pm – 1.00 pm

*Bus transfer to Dorog*

1.00 pm - 2.30 pm

**Overview and Site Tour of the Rotary Kiln for Hazardous Waste Incineration at Dorog** including pre-treatment and intermediate storage of hazardous wastes, odor control, flue-gas cleaning, treatment and disposal of residues

2.30 pm - 3.00 pm

*Bus transfer*

3.00 pm - 3.30 pm

*Refreshments*

3.30 pm - 5.00 pm

## **Seminar on "Project Development of Waste-to-Energy in Various Regions"**

Analyses of status quo, technical and economic criteria, legal framework, monitoring and enforcement, intermediate storage of waste, public information, discussion of failures and typical mistakes, opportunities in developing countries with low and middle income economies

7.30 pm - 9.00 pm

*Dinner*



# SATURDAY, June 25, 2016

08.00 am – 12.30 pm

*Bus Transfer to Vienna including Lunch*

12.30 pm – 1.30 pm

**Visit of Composting Plant LOBAU - largest Green-Waste Composting Plant in the EU**

1.30 pm - 2.00 pm

*Bus Transfer*

2.30 pm – 3.00 pm

*Refreshments*

3.00 pm – 5.00 pm

**Overview and Site Tour of the Municipal Landfill Site of Vienna including a typical Municipal Waste Collection Center and Landfill-gas Recovery and Utilization in Gas Motors from the old Landfill section and the MSW Museum Vienna**

5.00 pm – 6.00 pm

*Bus transfer back to Vienna with the option to arrive at the Airport Terminal at approx. 5.30 pm*



## REGISTRATION

The deadline for registration is June 15, 2016. Please register with Julia Schönherr via the [online Registration Form](#).

| Early Bird Registration Fee (Registration and Payment latest by March 31, 2016) |            | Regular Registration Fee (Registration or Payment after March 31, 2016) |            |
|---|------------|---|------------|
| ISWA Member   | Non-Member | ISWA Member   | Non-Member |
| € 2,950   | € 3,450    | € 3,250   | € 3,750    |

A total of 5 Participants from 5 different low- and lower-middle-income economies (according to the [World Bank list](#)) receive a 50% discount, and a total of 5 Participants from 5 different upper-middle-income economies a 20% discount on the registration fee. A total of 3 young professionals in engineering or waste management under the age of 30 are eligible for a 50% discount. The discounts are awarded on a first-come-first-serve basis.

We encourage you to become an ISWA Member. For information please visit [www.iswa.org](http://www.iswa.org).

All stated amounts are free of VAT. Registration fee includes accommodation with breakfast during the duration of the Study Tour June 19 – 25, handouts, refreshments, lunch and dinner, transportation and visits to the waste treatment plants. In order to be well rested for the intensive Study Tour, we recommend an earlier arrival of two days (not included in the above fees). Upon registration seminar participants accept all accommodation arrangements organised by ISWA. The conference programme may be subject to change. The number of participants will be limited to a maximum of 25 persons due to the nature of the programme. Participants will receive a Certificate of Participation.

### Cancellation

Any cancellation of registration must be submitted in writing to ISWA, Julia Schönherr:

- E-Mail to [iswa@iswa.org](mailto:iswa@iswa.org) or by
- Fax to +43 1 253 6001 99

Cancellation and refund will be subject to the following conditions:

- Cancellation **before June 1, 2016** 50% Refund
- Cancellation **between June 2 and 18, 2016** 10% Refund
- Cancellation **on June 19, 2016 or "no show"** no refund

Registration may be transferred to a nominated representative.

In case of cancellation of the Study Tour due to unforeseeable events, ISWA will refund the registration fee but no other costs incurred prior to cancellation.

**For organisational matters please contact Julia Schönherr**

ISWA – International Solid Waste Association, [www.iswa.org](http://www.iswa.org)

E-Mail: [iswa@iswa.org](mailto:iswa@iswa.org); Phone: +43 1 253 6001-11

