

UPDATE



WASTE-TO-ENERGY

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September 5 and 6, 2016

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▶ **INTERNATIONAL DEVELOPMENT**

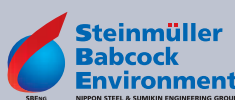
EU Policies • Country Reports • Strategy

▶ **WASTE INCINERATION**

**Technology of Waste Incineration • Energy Efficiency and Use
Flue Gas Treatment • Treatment and Utilization of Waste Incineration Residues**

▶ **ALTERNATIVE WASTE-TO-ENERGY PROCESSES**

**Mechanical-Biological Treatment • Utilization of Solid Recovered Fuels
Pyrolysis and Gasification**



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Vienna University of Technology, Institute of Process Engineering, Environmental Technology and Technical Biosciences, Austria

Senol Yildiz, Ph. D.

Deputy General Manager of Istanbul Environmental Management, Industry and Trading Company (Istaç A.Ş.), Turkey

Plenary Session

9:00

Welcome Address

Professor Dr. Franz Winter, Vienna University of Technology, Austria

Opening Remarks

Elisabeth Thomé-Kozmiensky, M.Sc.

EU Policies

PRESENTATION: PROFESSOR DR. FRANZ WINTER

9:15

Waste-to-Energy as Part of the Circular Economy

Jose Jorge Diaz del Castillo

Unit Waste Management & Secondary Materials

DG Environment, European Commission, Brussels, Belgium

9:40

Current Developments in European Waste-to-Energy

Ferdinand Kleppmann

President of CEWEP – Confederation of European Waste-to-Energy Plants e.V.,

Düsseldorf, Germany

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10:05

Review of the Best Available Techniques Reference Document (BREF) for Waste Incineration – What is the Current Status?

Dipl.-Ing. Markus Gleis, Scientific Senior Councilor

Umweltbundesamt, Dessau-Roßlau, Germany

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10:30

Coffee Break

Strategy

PRESENTATION: ATTORNEY DR. JUR. ALEXANDER STEFAN RIEGER

11:00

Growth Potential for Energy-from-Waste Plant Operators in the European Union and Beyond

Dipl.-Phys. Karl-Heinz Müller

Chief Operating Officer of EEW Energy from Waste GmbH, Helmstedt, Germany

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Key Contractual Considerations

– Jurisdictional Pitfalls when Acting on International WtE Projects

Attorney Dr. jur. Alexander Stefan Rieger, Attorney Dr. Tobias Faber

Hogan Lovells International LLP, Frankfurt am Main, Germany

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11:50

Wrong Tracks in Waste Management

Dipl.-Masch.-Ing. Thomas Vollmeier

President of TBF + Partner AG Consulting Engineers, Zurich, Switzerland

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Lunch Break

Country Reports

PRESENTATION: PROFESSOR ING. PH.D. DAGMAR JUCHELKOVA

Book contribution

Possibilities of Development of Municipal Waste Recycling and Incineration in Poland

Dr. Beata B. Klopotek, Counsellor to the Minister, Department of Waste Management

Ministry of the Environment, Warsaw, Poland

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13:45

Initial Operating Experience with the New Polish Waste-to-Energy Plants

Professor Ph. D. Eur. Ing. Dr.-Ing. habil. Tadeusz Pajak, Dipl. Ing. Michal Jurczyk

University of Science and Technology AGH Krakow, Poland

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14:15

Measures to Implement an Advanced Waste Management System in the Czech Republic

Ing. Jaromír Manhart

Director Department of Waste, Ministry of the Environment, Praha, Czech Republic

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14:45

Current Status, Waste Management Strategies and Planning in Hungary

Norbert Koncz

Unit Leader Department of Public Waste Management Services

Ministry of National Development, Budapest, Hungary

Zsolt András Hajnal

Vice President of Public Services, National Organizer of Waste

and Asset Management Private Limited Company, Budapest, Hungary

15:15

Coffee Break

PRESENTATION: DR.-ING. STEPHANIE THIEL

15:45

Overview of the Waste Management Situation and Planning in Greece

Dr. Efstratios Kalogirou

Vice Chair Global WtERT Council and Honorary Chair Synergia – WtERT/Greece, Athens

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16:15

Development of Waste Management in the Arab Region

Adj. Professor Dr.-Ing. habil. Abdallah Nassour

University of Rostock, Department of Waste Management in Arab countries, Germany

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16:45

Waste Management in India and Experience with the Implementation of Projects based on Public Private Partnership Model

Sundeeep Kumar, Vice President, Business Development

IL&FS Environmental Infrastructure & Services Ltd., New Delhi, India

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Book contribution

Future Development of Waste Management in China According to the New Five-Year Plan

Professor Dr. Rundong Li

Shenyang Aerospace University, Dean of the Faculty of Energy and Environment, China

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19:30

Champagne Reception

20:00

Evening Event

Incineration

PRESENTATION: ASS. PROFESSOR DIPL.-ING. DR. TECHN. JOHANN FELLNER

- 8:30 **Complex Approach towards the Assessment of Waste-to-Energy Plants' Future Potential** p. 149
Ass. Professor Ing. Martin Pavlas, Ph.D.
Brno University of Technology, Czech Republic
- 9:00 **The Added-Value of the Balance Method for Waste-to-Energy Operators and National Authorities** p. 161
Ass. Professor Dipl.-Ing. Dr. techn. Johann Fellner
Institute of Water Quality, Resources and Waste Management
Vienna University of Technology, Austria
- 9:30 **Development of Waste-to-Energy Projects** p. 179
Dipl. Natw. Trimurti Irzan, Member of the Management,
Marketing Manager and Key Account Manager
TBF + Partner AG Consulting Engineers, Zurich, Switzerland
- 10:00 **International Experience of Risks Sharing Between Public and Private Entities in Energy-from-Waste Plants Construction**
Christophe Cord'Homme, Business & Products Development Director
Environment Sector, CNIM Constructions Industrielles de la Méditerranée S.A., Paris, France
- 10:30 **Coffee Break**

Example Plants and Experiences in the Plant Operation

PRESENTATION: PROFESSOR PH. D. EUR. ING. DR.-ING. HABIL. TADEUSZ PAJAK

- 11:00 **Complementarity Between Waste Incineration and Recycling – The Example of the Harlingen Plant –**
John Vernooij, CEO, Omrin, Eco Park de Wierde, Oudehaske, Netherlands
- 11:30 **Disposal of Carbon Fiber Reinforced Polymers – Problems During Recycling and Impacts on Waste Incineration –** p. 221
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- 12:00 **Enhancing of the Energy Efficiency of an Existing Waste Incineration Plant by Retrofitting with a District Heating Network** p. 201
Professor Dr.-Ing. Wolfgang Rommel
Managing Director, bifa Umweltinstitut GmbH, Augsburg, Germany
District Administrator Thorsten Freudenberger, District Neu-Ulm, Germany
Dipl.-Ing. Markus Hertel, bifa Umweltinstitut GmbH, Augsburg, Germany
Thomas Moritz, Plant Manager of Abfallwirtschaftsbetrieb des Landkreises Neu-Ulm, Waste-to-Energy Plant Weißenhorn, Germany
- Book contribution**
- Application of Modified NiCrMo Alloy Systems for Boiler Tube Surface Protection in Waste-to-Energy Environments** p. 237
Iain Hall, M.Sc. Eng., Chief Technology Officer
Integrated Global Services, Inc, Czech Republic
- Infrasound Solution for Fouled SCR and the Economizer in World's Largest Waste-to-Energy Boiler** p. 247
Henrik Blom, Martin Ellebro, Director of Engineering, Infracore AB, Stockholm, Sweden
- 12:30 **Lunch Break**

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PRESENTATION: PROFESSOR DR.-ING. WOLFGANG ROMMEL

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Professor Dr.-Ing. Rudi Karpf, President of ete.a Ingenieurgesellschaft für Energie- und Umweltengineering & Beratung mbH, Lich, Germany
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Johnny Stuen, Technical director, Waste-to-Energy Agency, City of Oslo, Norway
- 15:00 **Producing Sodium Bicarbonate (NaHCO₃) Using Carbon Dioxide Captured from the Flue Gasses of Waste Incineration** p. 307
Ing. Andy Roeloffzen, Project Manager, Twence B.V., Hengelo, Netherlands
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Dipl.-Ing. Rüdiger Margraf, Managing Director of LÜHR FILTER GmbH & Co. KG
Stadthagen, Germany
- New Developments for an Efficient SNCR Monitoring and Regulation System by Evaluating the NO_x Mass Flow Profile** p. 277
Dipl.-Ing. Bernd von der Heide
Managing Director of Mehldau & Steinfath Umwelttechnik GmbH, Essen, Germany

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Dipl.-Geol. Wilfried Frehmann, Dipl.-Ing. Till Lemme
Steinmüller Babcock Environment GmbH, Gummersbach, Germany
- 16:00 **Final Coffee Break**

Alternative Waste-to-Energy Processes

Mechanical-Biological Waste Treatment and Energy Recovery from Solid Recovered Fuels

PRESENTATION: EM. O. PROFESSOR DIPL.-ING. DR. TECHN. KARL E. LORBER

- 8:30**
The Market for Mechanical-Biological Waste Treatment Plants in Europe
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 Mark Döing
 Managing Director of ecoprog GmbH, Cologne, Germany
- 9:00**
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 Dr. Costas Velis, Innes Deans
 Institute for Public Health and Environmental Engineering
 School of Civil Engineering, University of Leeds, United Kingdom
- 10:30**
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PRESENTATION: UNIV.-PROFESSOR DIPL.-ING. DR. MONT. ROLAND POMBERGER

- 11:00**
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 Dipl.-Ing. Dr. mont Renato Sarc
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 University of Leoben, Austria
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 Dr.-Ing. Kazimierz Borkowski
 Managing Director of PlasticsEurope Polska, Warsaw, Poland
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 Dipl.-Ing. Thomas Binnering, Dr.-Ing. Kai Schulze
 CTP Chemisch Thermische Prozesstechnik GmbH, Graz, Austria
- 12:30**
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PRESENTATION: DR. RER. NAT. JÜRGEN VEHLLOW

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 Institute for Technical Chemistry, Eggenstein-Leopoldshafen, Germany
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 Nobuhiro Tanigaki, M. Sc., Chief Technical Manager,
 Nippon Steel & Sumikin Engineering Co., LTD.
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 Masato Katafuchi
 Technical Manager, JFE Engineering Europe GmbH, Duisburg, Germany
 Professor Stanisław Stryczek, Ph.D. Eng., Radosław Mróz, Ph.D. Eng., Wojciech Wons, Ph.D. Eng.,
 AGH University of Science and Technology in Krakow, Poland
- 15:30**
New Waste-to-Energy Facility Energy Works Hull, United Kingdom
p. 469
 Adam Shore, Business Director, Energy
 M+W Group, United Kingdom
- 16:00**
Final Coffee Break

Books



Publisher: Waste Management Vol. 1 + 2: Karl J. Thomé-Kozmiensky, Luciano Pelloni
 Waste Management, Vol. 3–5: Karl J. Thomé-Kozmiensky, Stephanie Thiel

Waste Management, Volume 1
 (ISBN: 978-3-935317-48-1)

Published: 2010
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The organizers will provide a reduced conference registration fee for participants from economically weak countries, including the new EU-member states (countries that joined the EU in the year 2004 or later). With the term „economically weak countries“ the organizers mean those countries, defined as „low and middle income economies“ by the World Bank.

The IRRIC 2016 entry fees are defined on the basis of one person and cover two days of participation at the congress. Delegates of the IRRIC can register additionally for the excursion to waste disposal plants in Vienna on Wednesday (September 7). There is a limitation of participants to 60 people. Registrations are considered in the order they are received and are subject to the availability of adequate space. In order to participate in the framework programme, you must register for each event individually. The registration is binding.

If you are unable to attend the congress, your registration can be delegated to a substitute person. Cancellation requests must be received in writing on or before the cancellation deadline of August 5, 2016. Written notifications are accepted via email, post or fax. Cancellations received on or before **August 5, 2016** will receive a refund of the paid fees minus an administration fee of 50,- EUR + 20 % VAT. Cancellations received after the cancellation deadline will not be issued a refund. Any unpaid congress fees are due and payable to TK Verlag Karl Thomé-Kozmiensky. Congress documents will be sent to registered attendees, who were unable to participate.

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The programme is subject to alterations.

Congress fees

890,- EUR + VAT. Regular fee for participants from the EU-15 and EFTA countries, and overseas

300,- EUR + VAT. Reduced fee for participants from other countries and full-time professionals of public authorities or universities

100,- EUR + VAT. Reduced fee for full-time students

Please Note: With regards to the reduced registration fee Students are defined as those without a permanent employment (at an organization or a university), those with only marginal employment or a comparable low scholarship.

The fee comprises:

- Attendance at all presentations
- Coffee breaks and luncheons for both days
- Participation at the networking dinner on September 5, 2016
- Congress documents: 1 Book, Proof-of-entry (also serves as name tag), List of speakers and participants, Final program

Complementary programme

20,- EUR + VAT. Excursion on September 7, 2016

The fee comprises:

- Pick up and return from Vienna Marriot Hotel (approx. 9 am - 3 pm)
- Transportation between the waste disposal sites
- Guided tour at each site in English
- Group size of max. 15 people

Please note: There is a limited number of places!

Payment details

Please do not pay the conference or excursion fee until you have received your invoice. Write the invoice number and the name of the delegate legibly on the money transfer form.

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Fax Registration for the IRRIC Waste-to-Energy +49.3391-45.45-10

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I accept the terms and conditions.

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Regular fee for Participants from the EU-15, the EFTA countries, and overseas
- 300,- EUR + 20 % VAT.**
Reduced fee for participants from other countries, and fulltime professionals of public authorities or universities
- 100,- EUR + 20 % VAT.**
Reduced fee for full-time students
- 20,- EUR + 20 % VAT.**
I will attend the excursion to waste disposal plants in Vienna on September 7, 2016 (only for registered participants of the IRRIC 2015).
Registration deadline: August 24, 2016
- 0,- EUR**
I will attend the evening event on September 5, 2016.

Internet

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Internet: www.viennamarriott.com
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Double room for 237,-EUR per night
Limited offer reserved until August 19, 2016

IMPORTANT

Organize your overnight stay as early as possible. Vienna is a very popular city and there are a number of other events taking place in that time.

Alternative hotels

There are a number of alternative accommodations close to the conference venue. You can book rooms directly at the hotel or by using online hotel portals, like hrs.com. But please be aware that these special offers are usually binding and cannot be cancelled anymore.

If you want to make use of the limited group rate, please visit our website www.vivis.de, go to IRRC, then to conference venue and follow the link to book the group rate. You will be directed to a page of the Vienna Marriott Hotel, which was created only for the participants of the IRRC.

Networking

Besides an interesting programme about the current issues of the European industry, the IRRC offers also a great opportunity to meet experts of the industry, from politics, science and technology. The exchange of experiences, ideas, and concepts will give impulses for cooperation and is going to promote development particularly in the new EU-member states.

Throughout the congress there will be sufficient time for networking in a pleasant atmosphere: During the coffee and lunch breaks, at the dinner on September 5 or even parallel to the lectures.



Partners



Excursion to waste disposal plants in Vienna

On September 7, 2016 there will be an excursion to three selected waste disposal plants in and around Vienna. Delegates of the IRRC Waste-to-Energy have the possibility to participate in that excursion. Since the number of available places is limited, it is advisable to register before August 19, 2016. Registered participants will be picked-up and returned in front of the congress venue Vienna Marriott Hotel. The groups will get a guided tour at each site in English. Each group will have a size of max. 15 people. Here are some sites visited in the last years:

PPAFFENAU WASTE INCINERATION PLANT

Since autumn 2008, the Pfaffenuau waste incineration plant (German acronym "MVA") has been producing approx. 410 GWh (gigawatt hours) of district heat and 65 GWh of electricity from approx. 250,000 tonnes of residual waste annually, thereby supplying approx. 50,000 Viennese households with district heating and approx. 25,000, with electricity. A four-stage flue gas scrubbing plant decreases emissions to a minimum.



RINTER TENT

The Rinter Tent (or "MA 48 Tent") is the central hub of separate recyclable collection. This is where the various fractions are re-sorted, stored on an interim basis and then sent on by rail for further processing. Problematic waste is likewise sorted and stored here temporarily at a special collection point before recycling or final disposal. Waste incineration residues (ash and slag) are demetallised and converted into slag-ash concrete.

WASTE LOGISTICS CENTRE

Simmering waste logistics centre (German acronym "ALZ"): the most recent element of the comprehensive waste disposal system of Vienna is provided by the new Pfaffenuau waste logistics centre in the 11th municipal district Simmering. This high-tech installation adjacent to the Pfaffenuau waste incineration plant serves for the processing and interim storage of residual and bulky waste. If necessary, the pre-treated, compacted waste is wrapped in airtight bales and stored until incineration without releasing unpleasant odours. This ensures reliable disposal even in case of repairs or downtimes at waste incineration plants. The facility ensures that all waste collected can be properly disposed of, irrespective of the waste volume or capacity utilisation of Vienna's waste incineration plants.



RAUTENWEG LANDFILL

This concrete is then properly disposed of at the Rautenweg landfill. The local groundwater stratum is protected by a retaining wall ("Vienna sealed-wall chamber system"). Moreover, the landfill boasts a unit for landfill gas capturing and utilisation, which generates electricity for approx. 2,200 households, and operates several technical and organisational safety installations.

BIOGAS PLANT

The biogas plant went into operation in 2007 and is run by the Vienna Municipal Department for Waste Management, Street Cleaning and Vehicle Fleet (MA 48). The facility processes about 22,000 tons of kitchen waste every year – mainly the contents of organic waste containers in Vienna's inner-city districts, as well as leftover food from restaurants, canteens and industrial kitchens, market waste and expired food. The moisture content of these materials is high enough to allow for fermentation.



Speakers, Authors and Presenters



Dipl.-Ing.
Thomas Binninger



Henrik Blom



Dr.-Ing. Kazimierz
Borkowski



Mike Brown, M.Sc.



Jose Jorge Diaz
del Castillo



Christophe
Cord'Homme



Mark Döing



Dr. Dipl.-Ing.
Benjamin Eule



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Tobias Faber



Ass. Professor
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Dipl.-Geol.
Wilfried Frehmann



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Markus Gleis



Zsolt András Hajnal



Iain Hall
M.Sc. Eng.



Dipl. Natw.
Trimurti Irzan



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Rudi Karpf



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Kleppmann



Norbert Konz



Sundeep Kumar



Professor Dr.
Rundong Li



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Ass. Professor Ing.
Ph.D. Martin Pavlas



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Roland Pomberger



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Peter Quicker



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Raupenstrauch



Attorney Dr. jur.
Alexander Stefan
Rieger



Ing.
Andy Roeloffzen



Professor Dr.-Ing.
Wolfgang Rommel



Dipl.-Ing. Dr. mont.
Renato Sarc



M. Sc.
Nobuhiro Tanigaki



Dr.-Ing.
Stephanie Thiel



Elisabeth
Thomé-Kozmiensky
M.Sc.



Professor Dr.-Ing.
habil. Dr. h. c. Karl
J. Thomé-
Kozmiensky



Dr. rer. nat.
Jürgen Vehlou



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John Vernooij



Dipl.-Masch.-Ing.
Thomas Vollmeier



Dipl.-Ing.
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