



UPDATE

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WASTE-TO-ENERGY

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September 5 and 6, 2016

Vienna Marriott Hotel | Parkring 12a | 1010 Vienna, Austria

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 and Recycling
 DG Environment, European Commission, Brussels, Belgium
- 9:40** **Waste-to-Energy in the Circular Economy and Energy Union**
 Ferdinand Kleppmann
 President of CEWEP – Confederation of European Waste-to-Energy Plants e.V.,
 Düsseldorf, Germany
- 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
- 10:30** **Coffee Break**

Strategy

PRESENTATION: ATTORNEY DR. JUR. ALEXANDER STEFAN RIEGER

- 11:00** **Growth Potential for WtE Plant Operators in the European Union and Far Beyond**
 Dipl.-Phys. Karl-Heinz Müller
 Chief Operating Officer of EEW Energy from Waste GmbH, Helmstedt, Germany
- 11:25** **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
- 11:50** **Wrong Tracks in Waste Management**
 Dipl.-Masch.-Ing. Thomas Vollmeier
 President of TBF + Partner AG Consulting Engineers, Zurich, Switzerland
- 12:15** **Lunch Break**

Country Reports

PRESENTATION: PROFESSOR ING. PH.D. DAGMAR JUCHELKOVÁ

- 13:45** **Possibilities of Development of Municipal Waste Recycling and Incineration in Poland**
 Dr. Beata B. Kłopotek
 Counsellor to the Minister, Department of Waste Management
 Ministry of the Environment, Warsaw, Poland (enquired)
- 14:10** **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
- 14:35** **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
- 15:00** **Waste Management Situation and Perspectives in Bosnia and Herzegovina**
 Mehmed Cero, Ph.D. Sc., Assistant Minister in the Environment Sector
 Federal Ministry of Environment and Tourism, Sarajevo, Bosnia and Herzegovina (enquired)
- 15:25** **Coffee Break**

PRESENTATION: DR.-ING. STEPHANIE THIEL

- 15:55** **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
- 16:20** **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
- 16:45** **Waste Management in India and Experience with the Implementation
 of Projects based on Public Private Partnership Model**
 Sundeep Kumar, Vice President, Business Development
 IL&FS Environmental Infrastructure & Services Ltd., New Delhi, India
- 17:10** **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
- 19:30** **Champagne Reception**
- 20.00** **Evening Event**

Incineration

PRESENTATION: PROFESSOR DIPL.-ING. DR. TECHN. HARALD RAUPENSTRAUCH

8:00 Complex Approach Towards Assessment of Future Potential of Waste-to-Energy Plants

Ass. Professor Ing. Martin Pavlas, Ph.D.
Brno University of Technology, Czech Republic

8:30 The Added-Value of the Balance Method for Waste-to-Energy Operators and National Authorities

Ass. Professor Dipl.-Ing. Dr. techn. Johann Fellner
Institute of Water Quality, Resources and Waste Management
Vienna University of Technology, Austria

9:00 Development of Waste-to-Energy Projects

Dipl. Natw. Trimurti Irzan, Member of the Management,
Marketing Manager and Key Account Manager
TBF + Partner AG Consulting Engineers, Zurich, Switzerland

9:30 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

Example Plants and Experiences in the Plant Construction and Operation

10:00 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

10:30 Coffee Break

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 Wastes Containing Carbon Fiber Reinforced Plastics – Problems During Recycling and Impacts on Waste Incineration –

Professor Dr.-Ing. Peter Quicker, RWTH Aachen, Unit of Technology of Fuels, Germany

12:00 Enhancing of the Energy Efficiency of an Existing Waste Incineration Plant by Retrofitting with a District Heating Network

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

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

Henrik Blom, Martin Ellebro, Director of Engineering, Infrafone AB, Stockholm, Sweden

12:30 Lunch Break

Flue Gas Treatment

PRESENTATION: PROFESSOR DR.-ING. WOLFGANG ROMMEL

14:00 Significance and Challenges for Flue Gas Treatment Systems in Waste Incineration

Professor Dr.-Ing. Rudi Karpf, President of ete.a Ingenieurgesellschaft
für Energie- und Umweltengineering & Beratung mbH, Lich, Germany

14:30 Carbon Dioxide Capture in the Waste-to-Energy Plant in Oslo

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

Ing. Andy Roeloffzen, Project Manager, Twence B.V., Hengelo, Netherlands

Book contributions

Use of a Fabric Filter for the Sorption – What Has to be Considered? – Experiences and Solutions –

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

Dipl.-Ing. Bernd von der Heide
Managing Director of Mehldau & Steinfath Umwelttechnik GmbH, Essen, Germany

Recycling of Incineration Residues

15:30 How to Optimize Recycling Rates Using Waste Incineration

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

- 8:00 The Market for Mechanical-Biological Waste Treatment Plants in Europe**
Mark Döing
Managing Director of ecoprog GmbH, Cologne, Germany
- 8:30 Optimization of Mechanical-Biological Treatment Plants – Experience from Italy –**
Geert Jan Pastoor
Pastoor Consult bv, Lelystad, Netherlands (enquired)
- 9:00 Fully Automated Sorting Plant for Municipal Solid Waste in Oslo with Recovery of Metals, Plastics, Paper and Refuse Derived Fuel**
Dr. Dipl.-Ing. Benjamin Eule
Director of Stadler UK Ltd., Ashford, United Kingdom
- 9:30 Modelling of Solid Recovered Fuel Properties based on Material Composition**
Dr. Costas Velis, Innes Deans
Institute for Public Health and Environmental Engineering
School of Civil Engineering, University of Leeds, United Kingdom
- 10:00 Refuse Derived Fuel Exports from the United Kingdom – Legal, Economic and Environmental Issues and Perspectives for the Coming Years –**
Mike Brown, M.Sc.
Managing Director of Enomia Research & Consulting, Bristol, United Kingdom
- 10:30 Coffee Break**

PRESENTATION: UNIV.-PROFESSOR DIPL.-ING. DR. MONT. ROLAND POMBERGER

- 11:00 Manufacturing of Solid Recovered Fuels for Energy Recovery Processes**
Dipl.-Ing. Dr. mont Renato Sarc
em. O. Professor Dipl.-Ing. Dr. techn. Karl E. Lorber
University of Leoben, Austria
- 11:30 Plastics Recycling and Energy Recovery Activities in Poland – Current Status and Development Prospects –**
Dr.-Ing. Kazimierz Borkowski
Managing Director of PlasticsEurope Polska, Warsaw, Poland
- 12:00 Regenerative Thermal Oxidation (RTO) in the Cement Industry – Technology and Operation –**
Dipl.-Ing. Thomas Binninger, Dr.-Ing. Kai Schulze
CTP Chemisch Thermische Prozesstechnik GmbH, Graz, Austria
- 12:30 Lunch Break**

Pyrolysis and Gasification

PRESENTATION: PROFESSOR DR.-ING. PETER QUICKER

- 14:00 Overview of the Pyrolysis and Gasification Processes for Thermal Disposal of Wastes**
Dr. rer. nat. Jürgen Vehlow, Karlsruhe Institute of Technology
Institute for Technical Chemistry, Eggenstein-Leopoldshafen, Germany
- 14.30 Resource Recovery from Waste Using the Input Flexibility of Waste Gasification Technology**
Nobuhiro Tanigaki, M. Sc., Chief Technical Manager,
Nippon Steel & Sumikin Engineering Co., LTD.
- 15:00 Innovative Application Methods of Slags from High-Temperature-Gasifying-and-Direct-Melting System**
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 Construction of the Waste to Energy Facility in Kingston Upon Hull/United Kingdom**
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
 Hardcover: 623 pages
 Language: English, Polish, German
 Price: 15.00 EUR

Waste Management, Volume 2 + CD
 (ISBN: 978-3-935317-69-6)

Published: 2011
 Hardcover: 866 pages
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 Book: English
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Waste Management, Volume 3
 (ISBN: 978-3-935317-83-2)

Published: 2012
 Hardcover: 744 pages
 Language: English
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Waste Management, Volume 4
 (ISBN: 978-3-944310-15-2)

Published: 2014
 Hardcover: 521 pages
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Waste Management, Volume 5
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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

I submit my binding application to attend the IRRIC Waste-to-Energy on September 5 and 6, 2016 in Vienna.

I accept the terms and conditions.

I will pay the following conference fees after receiving my invoice:

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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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Congress Venue

Congress venue Vienna Marriott Hotel

Parking 12a • A-1010 Vienna
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Fax +43.1-515.18-87.20
Internet: www.viennamarriott.com
Single room for 217,- EUR per night
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:

PFÄFFENAU 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



Attorney Dr.
Tobias Faber



Ass. Professor
Dipl.-Ing. Dr. techn.
Johann Fellner



Dipl.-Geol.
Wilfried Frehmann



Dipl.-Ing.
Markus Gleis



Zsolt András Hajnal



Iain Hall
M.Sc. Eng.



Dipl. Natw.
Trimurti Irzan



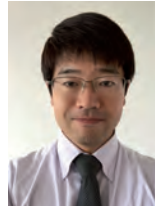
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Professor Dr.-Ing.
Rudi Karpf



Masato Katafuchi



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Norbert Konz



Sundeep Kumar



Professor Dr.
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Professor
Dipl.-Ing. Dr. techn.
Karl E. Lorber



Ing. Jaromír
Manhart



Dipl.-Ing.
Rüdiger Margraf



Dipl.-Phys.
Karl-Heinz Müller



Adj. Professor
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Dipl.-Ing. Dr. mont.
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Professor Dipl.-Ing.
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Attorney Dr. jur.
Alexander Stefan
Rieger



Ing.
Andy Roeloffzen



Professor Dr.-Ing.
Wolfgang Rommel



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Dr. rer. nat.
Jürgen Vehlou



Dr. Costas Velis



John Vernooij



Dipl.-Masch.-Ing.
Thomas Vollmeier



Dipl.-Ing.
Bernd von der
Heide



Professor
Dipl.-Ing. Dr.
Franz Winter

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District Administrator Thorsten
Freudenberger, Adam Shore,
Johnny Stuen