



Waste-to-Energy

8th and 9th September 2014
Vienna Marriott Hotel
Parking 12a – 1010 Vienna, Austria

**updated
programme**

Issues

International Development

Legislation, strategies and country reports

Waste Incineration

Technology of waste incineration • Energy efficiency and use

Flue gas treatment • Treatment and utilization of slag

Alternative Waste-to-Energy Processes

Mechanical-biological treatment • Utilization of solid recovered fuels

Fermentation and utilization of biogas • Pyrolysis and gasification



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Technical University Clausthal, Head of the Institute of Mineral and Waste Processing, Waste Disposal and Geomechanics, Germany

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em. O. Professor Dr.-Ing. Karl E. Lorber

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Eur. Ing. Tadeusz Pajak, Ph. D.

University of Science and Technology AGH Kraków, Department of Power Systems and Environment, Poland

Assistant Professor Ing. Martin Pavlas, Ph. D.

Brno University of Technology, Institute of Process and Environmental Engineering, Czech Republic

Dipl.-Chem.-Ing. Luciano Pelloni

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

Univ.-Professor Dipl.-Ing. Dr. mont. Roland Pomberger

University of Leoben, Chair of Waste Processing Technology and Waste Management, Austria

Professor Dr.-Ing. Peter Quicker

RWTH Aachen, Unit of Technology of Fuels, Germany

Professor Dipl.-Ing. Dr. techn. Harald Raupenstrauch

University of Leoben, Chair of Thermal Processing Technology, Austria

Dr.-Ing. Gert Riemenschneider

Managing Director of Fisia Babcock Environment GmbH, Germany

Professor Dr.-Ing. Wolfgang Rommel

Managing Director of bifa Umweltinstitut GmbH, Augsburg, Germany

Professor Dr.-Ing. Vera Susanne Rotter

Technical University Berlin, Chair of Solid Waste Management, Germany

Professor Dr.-Ing. Oktay Tabasaran

Istanbul, Turkey and Stuttgart, Germany

Professor Nickolas J. Themelis

Director of the Earth Engineering Center, Columbia University, Chairman of WTERT Waste-to-Energy Research and Technology Council, New York, United States

Professor Dr. Franz Winter

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 (İstaç A.Ş.), Turkey

Plenary Session

PRESENTATION: PROFESSOR DR. DR. KARL J. THOMÉ-KOZMIENSKY

- **9.00 Hrs. Reviewing EU waste legislation: a stepping stone towards a circular economy** p. 27
Karl-Friedrich Falkenberg, General Director DG Environment
European Commission, Brussels, Belgium
- **9.30 Hrs. Current developments in European Waste-to-Energy** p. 49
President Ferdinand Kleppmann
CEWEP – Confederation of European Waste-to-Energy Plants, Düsseldorf, Germany
- **10.00 Hrs. Incineration – an indispensable element of a responsible waste management** p. 41
Dipl.-Chem.-Ing. Luciano Pelloni
Chairman of International Recovery Foundation (IRF), Zurich, Switzerland
- **10.30 Hrs. Review of the Best Available Techniques Reference Document (BREF) for waste incineration and interactions with other BREFs** p. 37
Simon Holbrook, European IPPC Bureau (EIPPCB)
European Commission, Joint Research Centre, Seville, Spain
- **11.00 Hrs. Coffee Break**
- PRESENTATION: PROFESSOR DIPL.-ING. DR. TECHN. HARALD RAUPENSTRAUCH
- **11.30 Hrs. Incineration is a process step in recycling processes** p. 3
Professor Dr. Dr. h. c. Karl J. Thomé-Kozmiensky
- **12.00 Hrs. The development of waste incineration in Europe** p. 57
Managing Director Dipl.-Ing. Johannes J. E. Martin, Dipl.-Ing. Ulrich Martin
Martin GmbH für Umwelt- und Energietechnik, Munich
- **12.30 Hrs. Opportunities to improve the energy efficiency of Energy-from-Waste plants** p. 177
Dr.-Ing. Gert Riemenschneider
Managing Director of Fisia Babcock Environment GmbH, Gummersbach, Germany
- **13.00 Hrs. Lunch Break**
- PRESENTATION: PROFESSOR DR.-ING. MARTIN KRANERT
- **14.00 Hrs. Balancing and energy efficiency of waste treatment processes** p. 209
Professor Dr.-Ing. Michael Beckmann, Dipl.-Ing. Tobias Widder
Technical University Dresden, Germany

Country reports

- **14.30 Hrs. Paradigm shift in the British waste management sector – from landfilling to incineration –** p. 75
Paul Carey
Director of MVV Environment Ltd, London, United Kingdom
- **15.00 Hrs. Experiences in new EU accession countries** p. 87
Mag. Gerhard Ziehenberger, Member of the Executive Board
Dipl.-Ing. Michaela Heigl
Saubermacher Dienstleistungs AG, Feldkirchen near Graz, Austria
- **15.30 Hrs. Coffee Break**
- PRESENTATION: DR.-ING. STEPHANIE THIEL
- **16.00 Hrs. Turkey achieves EU standards till 2023** p. 101
Professor Dr.-Ing. Oktay Tabasaran
Istanbul, Turkey and Stuttgart, Germany
- **16.30 Hrs. Waste generation and disposal methods in emerging countries** p. 111
Ayman Elnaas, M.Sc., Adj. Professor Dr.-Ing. habil. Abdallah Nassour
University of Rostock, Department of Waste Management in Arab Countries, Germany
- **17.00 Hrs. A guidebook for sustainable waste management in Latin America** p. 121
Associate Professor Dr. Constantinos S. Psomopoulos
Director of Electric Power Division, Technical Education Institute of Piraeus
Egaleo, Greece
Vice President of the Waste to Energy Research & Technology (WERT)
Council Greece – SYNERGIA
- **19.30 Hrs. Evening Reception**

Incineration

PRESENTATION: SECRETARY GENERAL PATRICK CLERENS, ESWET

- **8.30 Hrs. Decision-making processes in resource recovery from waste**
Dipl. Natw. ETH Trimurti Irzan, Member of the Management of TBF + Partner AG, Consulting Engineers, Zurich, Switzerland
- **8.50 Hrs. Waste availability, successful regional strategies and shaping new Waste-to-Energy projects** p. 139
Assistant Professor Ing. Martin Pavlas, Ph. D.
Senior Lecturer, Technical University of Brno, Czech Republic
- **9.10 Hrs. A zero-waste and energetically optimized Waste-to-Energy concept** p. 277
Dr.-Ing. Margit Löschau, Dipl.-Ing. Günter Nebocat
Pöyry Deutschland GmbH, Germany
- **9.30 Hrs. Layout planning of Waste-to-Energy plants** p. 151
Dipl.-Ing. Falko Weber
Managing Director of Envi Con & Plant Engineering GmbH, Nuremberg, Germany
- **9.50 Hrs. Discussion**
- **10.00 Hrs. Coffee Break**
- PRESENTATION: AO. UNIV. PROF. DIPL.-ING. DR. FRANZ WINTER
- **10.30 Hrs. High efficient Waste-to-Energy facilities** p. 163
Inger Anette Søndergaard, Head of Department Waste-to-Energy
Tore Hulgaard, Senior chief consultant Flue gas treatment
Lasse Tobiasen, Chief consultant Energy
Ramboll Group A/S, Copenhagen, Denmark
- **11.00 Hrs. Impact of operation mode and design on the energy efficiency of waste combustion plants** p. 197
Dr. ir. Johan De Greef, Technology Project Manager
Keppel Seghers Belgium NV, Willebroek, Belgium
- Examples of waste incineration plants**
- **11.30 Hrs. Waste-to-Energy plant Krakow – on the status of thermal waste treatment in Poland –** p. 243
Dipl.-Wirtsch.-Ing. Gerhard Lohe, Director Sales
Doosan Lentjes GmbH, Ratingen, Germany
- **Thermal waste treatment plant Spittelau – New construction to the existing plant –** p. 231
Dr.-Ing. Frank Schumacher, MH Power Systems Europe Service GmbH **(only book)**
Dipl.-Ing. Dr. Philipp Krobath, Ing. Erich Pawelka, Ing. Ulrich Ponweiser, Wien Energie GmbH
Dipl.-Ing. Martin Höbler, MH Power Systems Europe Service GmbH
- **12.00 Hrs. Lunch Break**
- PRESENTATION: PROFESSOR DR.-ING. WOLFGANG ROMMEL
- **13.00 Hrs. Waste-to-Energy plant as part of combined heat and power strategy – using the example of the Klaipeda case –** p. 259
Kalle-Erkki Penttilä, Head of Investments and M&A, Fortum Power Heat Finland
- **13.30 Hrs. Waste management in the metropolis of Istanbul – Waste incineration and energy production facility in Istanbul –** p. 265
Project Development Manager Fatih Hoşoğlu, M.Sc.
Deputy General Manager Senol Yildiz, Ph. D., Istanbul Environmental Management, Industry and Trading Company (İstaç A.Ş.), Şişli-Istanbul, Turkey
- Flue gas treatment**
- **14.00 Hrs. Flue gas cleaning today – available technologies and latest developments –** p. 299
Dipl.-Ing. Christian Fuchs, Deputy Managing Director of LAB GmbH, Stuttgart, Germany
- **14.30 Hrs. Coffee Break**
- PRESENTATION: DR.-ING. ALEXANDER GOSTEN, BSR
- **15.00 Hrs. Assessment of dry and semi-dry sorption procedures on the basis of practice-related examples from the field of incineration plants** p. 313
Dipl.-Ing. Rüdiger Margraf
Managing Director of LUEHR FILTER GmbH & Co. KG, Stadthagen, Germany
- Recycling of incineration residues**
- **15.30 Hrs. Recycling of waste incineration ash – Production of non-ferrous metal scrap products and a marketable mineral aggregate –** p. 331
Rogier van de Weijer
Business Development Director of Inashco B.V., Rotterdam, Netherlands
- **16.00 Hrs. Optical sorting for the recovery of glass from WIP slags – pilot plant in Bratislava/Slovakia –** p. 345
Dipl.-HTL-Ing. Christian Makari
Binder + Co AG, Gleisdorf, Austria

Alternative Waste-to-Energy processes

Pyrolysis and gasification

PRESENTATION: PROFESSOR DR.-ING. PETER QUICKER

- **8.30 Hrs. State of the art of alternative thermal waste treatment processes** p. 357
Professor Dr.-Ing. Peter Quicker,
RWTH Aachen, Unit of Technology of Fuels, Germany
- **9.00 Hrs. Waste gasification technology with direct melting for energy and material recovery** p. 365
Nobuhiro Tanigaki, M.Sc., Chief Technical Manager
Nippon Steel & Sumikin Engineering Co., LTD., European office
- **9.30 Hrs. Refuse derived fuel gasification technologies for high efficient energy production** p. 379
Dr. Markus Bolhär-Nordenkamp, Director, Central Eastern Europe & Middle East
Valmet GesmbH, Vienna, Austria
Dipl.-Ing. Juhani Isaksson, Director Gasification, Valmet Power Oy, Tampere, Finland
- **10.00 Hrs. Coffee Break**
- PRESENTATION: ASSISTANT DIRECTOR HENRIK LYSTAD, AVFALL NORGE
- **10.30 Hrs. The biobattery – Integrated heat and power generation from biomass, waste and residues via intermediate pyrolysis/reforming** p. 389
Professor Dr. rer. nat. Dipl.-Ing. Andreas Hornung
Chair in BioEnergy, School of Chemical Engineering,
College of Engineering and Physical Sciences, University of Birmingham, UK
Director of the Institute Branch Sulzbach-Rosenberg, Fraunhofer UMSICHT, Germany

Fermentation and biogas utilisation

- **11.00 Hrs. Eco-efficiency comparison of the anaerobic digestion, composting and incineration of bio-waste** p. 399
Managing Director Professor Dr.-Ing. Wolfgang Rommel
Dipl.-Ing. Thorsten Pitschke, Dipl.-Ing. René Peche, Dr. rer. agr. Dieter Tronecker
Deputy Managing Director Dr. rer. nat. Siegfried Kreibe
bifa Umweltinstitut GmbH, Augsburg, Germany
- **11.30 Hrs. Application of anaerobic digestion for the treatment of municipal solid waste in several projects** p. 407
Dipl. oec. Univ. Martin Hagenmeyer, Business Development Manager
STRABAG Umwelthanlagen GmbH, Linz, Austria
- **12.00 Hrs. Lunch Break**
- PRESENTATION: PROFESSOR DR.-ING. ANKE BOCKREIS
- **13.00 Hrs. The success story of Scandinavian biogas industry**
Henrik Lystad, Assistant Director of Avfall Norge, Oslo, Norway
and Member of the Board of the European Compost Network (ECN)
- **13.30 Hrs. Biogas utilisation in Berlin** p. 421
Dr.-Ing. Alexander Gosten, Berliner Stadtreinigungsbetriebe (BSR), Germany

Mechanical-biological waste treatment

- **14.00 Hrs. Best Available Techniques (BAT) for mechanical-biological waste treatment plants** p. 435
Professor Dr.-Ing. Anke Bockreis, Vice Rector for Infrastructure
University of Innsbruck, Austria
- **14.30 Hrs. Coffee Break**
- PRESENTATION: UNIV.-PROFESSOR DIPL.-ING. DR. MONT. ROLAND POMBERGER
- **15.00 Hrs. Mechanical-biological stabilisation plant in Fusina near Venice/Italy (260,000 t/y) – Twelve years of operating experience –** p. 445
Dr.-Ing. Simone Paoli, Ladurner srl, Bolzano, Italy

Solid recovered fuels

- **15.30 Hrs. Concepts for processing of solid recovered fuels from different waste origin for Waste-to-Energy plants** p. 455
Ing. Michael Pinkel, Ing. Jürgen Deditz
IUT Ingenieurgesellschaft Innovative Umwelttechnik GmbH, Seebenstein, Austria
Univ.-Professor Dipl.-Ing. Dr. mont. Roland Pomberger
University of Leoben, Chair of Waste Processing Technology
and Waste Management, Austria
- **16.00 Hrs. Use of solid recovered fuels in the cement industry** p. 471
Univ.-Professor Dipl.-Ing. Dr. mont. Roland Pomberger, University of Leoben
Chair of Waste Processing Technology and Waste Management, Austria

Speakers



Professor Dr.-Ing.
Michael Beckmann



Professor Dr.-Ing.
Anke Bockreis



Dr. Markus
Bolhär-Nordenkamp



Paul Carey



Dr. ir.
Johan De Greef



General Director
Karl-Friedrich Falkenberg



Dipl.-Ing.
Christian Fuchs



Dr.-Ing.
Alexander Gosten



Dipl. oec. Univ.
Martin Hagenmeyer



Simon Holbrook



Professor
Dr. rer. nat. Dipl.-Ing.
Andreas Hornung



Dipl. Natw. ETH
Trimurti Irzan



Ferdinand Kleppmann



Dipl.-Wirtsch.-Ing.
Gerhard Lohe



Henrik Lystad



Dipl.-HTL-Ing.
Christian Makari



Dipl.-Ing.
Rüdiger Margraf



Dipl.-Ing.
Johannes J. E. Martin



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



Dipl.-Ing.
Günter Nebocat



Dr.-Ing.
Simone Paoli



Assistant Professor
Ing., Ph. D.
Martin Pavlas



Dipl.-Chem.-Ing.
Luciano Pelloni



Kalle-Erkki Penttilä



Ing.
Michael Pinkel



Univ. Professor
Dipl.-Ing. Dr. mont.
Roland Pomberger



Associate Professor Dr.
Constantinos Psomopoulos



Professor Dr.-Ing.
Peter Quicker



Dr.-Ing.
Gert Riemenschneider



Professor Dr.-Ing.
Wolfgang Rommel



Inger Anette Sondergaard



Professor Dr.-Ing.
Oktay Tabasaran



M.Sc.
Nobuhiro Tanigaki



Dr.-Ing.
Stephanie Thiel



Professor Dr. Dr. h. c.
Karl J.
Thomé-Kozmiesky



Rogier van de Weijer



Dipl.-Ing.
Falko Weber



Ph. D.
Senol Yildiz



Mag.
Gerhard Ziehenberger

Invitation

The IRRC is a forum for the exchange of information about materials flow management and closed substance cycle, applied technologies as well as organisational forms of countries that largely comply with the EU-norms and those that are only at the beginning of this development.

Internationally acknowledged speakers of the industry, from politics, science, and technology will present the current themes and discuss them with the participants. 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.

About 270 participants from more than twenty countries attended our last congresses, which took place in Warsaw and Berlin. The international character of the congress shall be developed successively. For 2014, in addition to the German-speaking region, the following countries are envisaged amongst others: Czech Republic, Poland, Serbia, Russia, Great Britain and Turkey.

This year's IRRC – Waste-to-Energy – is going to take place on 8th and 9th September in Vienna. With the congress venue Vienna additional participants from the above mentioned and other countries shall be attracted.

On the first day of the English congress, there will be a plenary session with political and strategic presentations.



On the second day there will be two parallel sessions, in which projects and technical developments are going to be presented. Scheduled are the subjects **incineration** – technology of waste incineration, energy efficiency and use, flue gas treatment, treatment and utilization of slag – and **alternative Waste-to-Energy processes** – mechanical-biological treatment, utilization of solid recovered fuels, fermentation and utilization of biogas, pyrolysis and gasification.

At the congress we are publishing an English book of about 400 pages containing the elaborated articles written by the lecturers.

Karl J. Thomé-Kozmiensky



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Approved by the Chartered Institution of Wastes Management, this conference provides two days towards the Institution's Graduate Structured Learning & Development Programme, Or 15 hours of Continuing Professional Development



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Plant-Overview – Brochure *We Serve Vienna*

Tour surveying plant in Vienna (guided tour in English):

Pfaffenau waste incineration plant

Since autumn 2008, the **Pfaffenau 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.



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 Pfaffenau waste logistics centre in the 11th municipal district Simmering. This high-tech installation adjacent to the Pfaffenau 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.

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.**



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.

8th and 9th September 2014

Congress venue
Vienna Marriott Hotel

Parking 12a · A-1010 Vienna
Tel. +43-1-515180
Fax +43-1-515186736
Internet: www.marriott.com
Single room for 209,- EUR per night
limited offer reserved until 8th August 2014

Organisation of the Congress:
TK Verlag
Dorfstraße 51
D-16816 Nietwerder-Neuruppin
Phone +49.3391-45.45-0
Fax +49.3391-45.45-10
Email: tkverlag@vivis.de

Alternative hotel

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 www.hrs.com. But please be aware that these special offers are binding and cannot be cancelled anymore.

Conditions of Participation and Services

How to register

With the registration you acknowledge **the terms and conditions** of TK Verlag Karl Thomé-Kozmiensky as binding.

The registration of participants must be in writing either by e-mail, by mail, by fax or online using the application form. Please use a separate form for each applicant. It is not possible to register only for parts of the event, unless stated otherwise in the programme. On receipt of your application we will send you an invoice for your participation fee, which also serves as a confirmation of your registration.

If you are unable to attend the congress or the excursion, your registration can be delegated to a substitute person. Cancellation requests for the congress must be received in writing on or before the cancellation deadline of **8th August 2014**. Cancellation requests for the excursion must be received in writing on or before the cancellation deadline of **1st September 2014**. Written notifications are accepted via email, mail or fax. Cancellations received on or before the respective deadline will receive a refund of the paid fees minus an administration fee of 50,- EUR + VAT for congress cancellations and of 10,- EUR + VAT for excursion cancellations. Cancellations received after the respective 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.

If the congress must be cancelled or moved to another date, all registered participants will be informed instantly. For losses resulting from the cancellation of the congress TK Verlag Karl Thomé-Kozmiensky is not liable. The invoice amount already paid by the participants will be refunded immediately.

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 programme is subject to alterations.

Congress fees

890,- EUR + VAT.
Regular fee for participants from the EU-15 and EFTA countries, and overseas (high-income economies)
300,- EUR + VAT.
Reduced fee for participants from economically weak countries, including the new EU-member states and full-time professionals of public authorities or universities
100,- EUR + VAT.
Reduced fee for students

The congress fee comprises:

- Attendance at all presentations
- Coffee breaks and luncheons for both days
- Participation at the evening event on 8th September 2014
- Congress documents
 - * Book of the congress contributions
 - * Proof-of-entry (also serves as name tag)
 - * List of speakers and participants
 - * Final program

Complementary programme

20,- EUR + VAT.
Excursion on 10th September 2014
Registration deadline for excursion: 1st September 2014

The excursion fee comprises:

- Pick up and return from Vienna Marriott Hotel (9am-2pm)
- Transportation between the waste management sites
- Guided tour at each site in English
- Group size of max. 15 people

Payment details

Please do not pay the congress fee until you have received your invoice. Write the invoice number and the name of the attendee legibly on the money transfer form.

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

My special interests on 9th September 2014 are (please tick):

Internet

<input type="checkbox"/> Waste incineration	<input type="checkbox"/> Flue gas treatment	<input type="checkbox"/> Mechanical-biological treatment	<input type="checkbox"/> Solid recovered fuels
<input type="checkbox"/> Examples of waste incineration plants	<input type="checkbox"/> Recycling of incineration residues	<input type="checkbox"/> Fermentation and biogas utilisation	<input type="checkbox"/> Pyrolysis and gasification

I submit my binding application to attend the **IRRC Waste-to-Energy** from **8th to 9th September 2014 in Vienna**.

I accept the terms and conditions.

I will pay the following congress fee(s) after receiving my invoice:

- 890,- EUR + 20 % VAT.** Participants from the EU-15, the EFTA countries, and overseas
- 300,- EUR + 20 % VAT.** Reduced fee for participants from other countries, public authorities and universities
- 100,- EUR + 20 % VAT.** Reduced fee for students
- 20,- EUR + 20 % VAT.** Excursion on **10th September 2014**
Registration deadline for excursion: 1st September 2014
- I will attend the evening event on **8th September 2014**

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