

IERC 2013

PROCEEDINGS 12th International Electronics Recycling Congress IERC 2013

January 16 – 18, 2013, Salzburg, Austria



Patronage:

Federal Ministry of Agriculture, Forestry, Environment
and Water Management, Austria

European Electronics Recyclers Association (EERA)

European Committee of Domestic Equipment Manufacturers (CECED)

Japan Electronics and Information Technology Industries Association (JEITA)

Global Lighting Association

DIGITALEUROPE

ORGALIME

PlasticsEurope

WEEE Forum



WELCOME ADDRESS

Picture: BMLFUW/Newman



**NIKOLAUS
BERLAKOVICH**
Federal Minister for
Agriculture, Forestry,
Environment and
Water Management
Austria

The European waste management strategy is guided by the principles of precaution and sustainability. The aim is to achieve the objectives of the European waste management through an optimal mix of waste prevention, re-use, recycling, and other forms of recovery and disposal. Every precept and every instrument must be measured according to the relevant principles and obligations rather than becoming an end in itself. The majority of goods production relies on the continuous mining of raw materials. Not only the huge consumption of fossil energy resources, but also the vast quantities of mined mineral raw materials are still on the rise. Waste management supplies the economy with secondary raw materials and energy sources. Due to the scarcity of resources, secondary

resources and the corresponding processing technologies, but also re-use, are becoming increasingly important. The objective is to further increase the contribution of waste management to sustainable material flow and resource management. In order to be able to make a major contribution to the raw material base, waste needs to be evaluated based on various criteria such as relevance to raw materials, the level of contaminants in the context of waste treatment, raw material requirements, but also in consideration of environmental impact and climate protection. In addition, the knowledge base requires further improvement. There are incentives and guidelines for the further development of collection systems, reclaiming, recovery and disposal technologies and

their capacities as well as the use of secondary raw materials and substitute fuels with effective removal of contaminants. The choice of desirable treatment channels should be encouraged through economic incentives. Stemming the flow of secondary raw materials out of the EU is a central concern. Appropriate measures should be taken to secure the most important secondary materials for the European economy, as well. For the sake of value creation, waste as a carrier of important secondary materials, especially waste electrical or electronic equipment or end-of-life vehicles should be kept inside the EU.

The next three days are going to be challenging. The IERC 2013 is a very important event and I believe we can all look forward to many interesting presentations, exhibitions as

well as mutually fruitful discussions and collaboration. I wish every success and a nice stay in Salzburg.



lebensministerium.at



FOREWORD



DR VIKTOR HAEFELI

Chairman of the
Steering Committee
International Electronics
Recycling Congress

Welcome to Salzburg – the hometown of Amadeus Mozart and “Red Bull”

In the name of the Steering Committee I welcome you to Salzburg for the 12th International Electronics Recycling Congress.

Our industry faces the WEEE recast, which promises higher recycling targets and greater sustainability through recycling and efficient use of resources.

When we look back at the beginning of the WEEE, we see that we had a huge and fast growing waste stream with no effective processes for managing the millions of tons of these materials. With the WEEE directive came clear processes and regulations for this enormous waste stream. At this time almost all the electric and electronic scrap had a negative value. This situation led to the rapid growth of complex and effective processes such as

collecting systems, recycling fees and recycling funds, different recycling technologies, standards, take back systems, logistic- and recycling industry and so on...

The WEEE directive brought about a sophisticated domestic European recycling industry with a huge variety of stakeholders. Coinciding with the dramatic increase in the collection of WEEE informal recycling sectors, particularly in developing countries, also grew rapidly and began competing for these raw materials – with much lower cost structures due to less strict and sometimes non-existent environmental and safety controls. This highly unlevel international playing field and the total lack of law enforcement are the critical factors impacting the health of our domestic recycling economy.

The WEEE recast has the aim of consistent development towards more effectiveness

in materials recovery, collecting and logistics. We hope that the politicians and authorities of our civilized countries will organize the law enforcement to be just as effective.

The still fast growing electrical and electronic waste stream that once carried a significant negative value, high treatment and disposal costs has changed in the last years, thanks to many of the people in this room, to a huge global resource recovery stream with an growing average positive value.

It seems reasonable to ask: Does a positive value stream really need so much regulations and stakeholders?

We will see that the next steps in WEEE will be the development from effectiveness to efficiency.

In other words: The industrialization of the whole WEEE industry with worldwide, clear, lean and effective processes and standards has already

started. The whole value chain will be streamlined towards efficiency.

All the stakeholders of the WEEE industries stand before the challenge of global industrialization and efficiency in the whole value chain (production – use – collecting – recycling – production). The materials recovery, and the closed resource loop will become for the whole industry and production countries more and more important.

In our industry you need common knowledge about market development and technologies, raw materials, commodity prices, legal requirements for collection, transportation, recycling and you have to take care of the constant change of the electronics products we are talking about.

IERC 2013 will give you the platform to discuss such issues. It is a growing, innovative, neutral and very effective platform to meet clients

and competitors, listen to market trends and the news of the speakers, discuss with the authorities, see the hottest products of the exhibitors and make business in a relaxed atmosphere.

I look forward to meet you in beautiful Salzburg – a town full of pioneers and success stories.

KEY MESSAGES



CHRISTIAN SCHIRMEISTER

J.P. Morgan
Executive Director –
Global Commodities Group
United Kingdom

“TRADING ON THE LONDON
METAL EXCHANGE (LME)”



ANDERS JANSSON

Stena Metall
President and CEO
Sweden

“STRATEGIES IN CHALLENGING
TIMES”



JEAN COX-KEARNS

DELL Global Takeback
Director of Compliance
Ireland

“RECYCLING CHALLENGES
AND OPPORTUNITIES IN
DEVELOPING COUNTRIES”



MIKE CHEN

WorldScrap.com
President
China

“THE CHINA RECYCLING
INDUSTRY IS TRANSFERRING”

PROF. OLADELE OSIBANJO

Basel Convention Coordinating Centre
for Training & Technology Transfer
for the African Region (BCCCC-Africa)
Federal Ministry of Environment
Nigeria

“MAXIMISING THE
OPPORTUNITIES AND
MINIMISING THE RISKS
OF ELECTRONIC WASTE
IN AFRICA”



KLAUS HIERONYMI

Hewlett-Packard
Global Resource Efficiency and
Circular Economy Strategies

“HOW STANDARDS
CONTRIBUTE TO LEVEL
PLAYING FIELDS”



FRÉDÉRIC CARENCOTTE

Solvay Group
Industrial Director Rare Earth Systems
France

“RECYCLING OF RARE
EARTH IS OUR'S”



INTERNATIONAL STEERING COMMITTEE



DR VIKTOR HAEFELI
Chairman of the
Steering Committee IERC
Switzerland



STEPHANE BURBAN
Xstrata Copper Canada
Manager Recycling
Switzerland



DR SVEN GRIEGER
ENE EcologyNet Europe GmbH
Managing Director
Germany



VENKATESHA MURTHY
Vans Chemistry Pte. Ltd.
Director / E-Waste Consultant
Singapore



VICTOR DUART
Vice-Chairman
IBM Corporate Environmental Affairs
Manager Environmental Policy &
Programs Europe & Japan
Spain



ROGER BURRI
Air Mercury AG
President
Switzerland



KLAUS HIERONYMI
Hewlett-Packard
Global Resource Efficiency and
Circular Economy Strategies



WENDY NEU
Hugo Neu Corporation
Executive Vice President
USA



DR MICHAEL BIDDLE
Chairman of the Scientific
Committee
MBA Polymers, Inc.
President and Founder
USA



JEAN COX-KEARNS
DELL Global Takeback
Director of Compliance
Ireland



DR JACO HUISMAN
Delft University of Technology
Associate Professor
Netherlands



**DR ANDREAS
RÖTHLISBERGER**
WEEE Forum
Switzerland



MANFRED BECK
Recycling International
Magazine
Editor
Netherlands



MANFRED FAHRNER
ALBA R-plus GmbH
Chief Sales Officer
Germany



PROF. HSIAO-KANG MA
National Taiwan University
Department of Mechanical
Engineering
Taiwan



**PROF. YASUHIRO
TSUGITA**
University of EHIME
Professor and Consultant
Japan



DR MARCO BULETTI
Federal Office for the Environment
(FOEN), Waste Recovery and
Treatment Section
Deputy Head of Section
Switzerland



STEFAN-GEORG FUCHS
Aurubis AG
Deputy Head Commercial
Recycling, Head of Electronic
Scrap Procurement
Germany



DR THOMAS MARINELLI
Philips Lighting B.V.
Director WEEE Management
Netherlands



NORBERT ZONNEVELD
EERA
Executive Secretary
Netherlands



LOCATION OF THE CONGRESS



The 12th International Electronics Recycling Congress IERC 2013 will be held at the:

Salzburg Congress
Auerspergstraße 6
5020 Salzburg, Austria

Phone +43 662 889870
Fax +43 662 88987210
www.salzburgcongress.at



Salzburg Congress is located in the centre of Mozart's city. You can easily reach the congress centre by all modes of transport.



Salzburg – The city of Mozart

UNESCO nominated Salzburg's city centre as part of the world's cultural and natural heritage. Now the city officially ranks among the most beautiful cities in the world, certainly one deserving a high degree of protection.

www.salzburg.info

For the participants of the congress a number of rooms are held **at a special rate until December 14, 2012** at the hotels mentioned below. Reservation after this date will be subject to space and rate availability. If you wish, you may also extend your stay at the same rate.

HOTEL ACCOMMODATION



Sheraton Salzburg Hotel *****
Auerspergstraße 4, 5020 Salzburg
Phone +43 662 889990
Fax +43 662 881776
www.sheraton.com/salzburg

next to the congress centre



Hotel Bristol Salzburg *****
Makartplatz 4, 5020 Salzburg
Phone +43 662 873557
Fax +43 662 8735576
www.bristol-salzburg.at

5 minutes walking distance to the congress centre



Hotel Crowne Plaza Salzburg ****
Rainerstraße 6–8, 5020 Salzburg
Phone +43 662 889780
Fax +43 662 878893
www.imlauer.com

2 minutes walking distance to the congress centre



Best Western Hotel Imlauer ****
Rainerstraße 12, 5020 Salzburg
Phone +43 662 88992
Fax +43 662 8899271
www.imlauer.com
(non smoking hotel, free parking!)

5 minutes walking distance to the congress centre



Hotel Zum Hirschen Achat Plaza ****
Saint Julien Straße 21–23, 5020 Salzburg
Phone +43 662 889030
Fax +43 662 8890358
www.zumhirschen.at

5 minutes walking distance to the congress centre

CONGRESS PROGRAM IERC 2013

TUESDAY, JANUARY 15, 2013

17.00 – 19.00 Registration

WEDNESDAY, JANUARY 16, 2013

08.30 – 09.30 Registration and welcome coffee

09.30 – 11.00 Keynote speakers from industry and authorities

"Welcome and Introduction"

Dr Viktor Haefeli, Chairman of the Steering Committee

KEYNOTE SPEAKERS

"Trading on the London Metal Exchange (LME)"

Christian Schirmeister, J.P. Morgan, United Kingdom

"Strategies in challenging times"

Anders Jansson, Stena Metall, Sweden

Surprise Keynote Speaker

PRESENTING THE COWBELL AWARD 2013

11.00 – 11.30 Coffee break

Session 1: Dealing with unlevel playing fields around the world?

Session Chairman: Victor Duarte, IBM Corporate Environmental Affairs, Spain

11.30 – 11.50 "Creating system of WEEE collection – Problems in Eastern Europe"

Artur Augustynowicz, Hermes Recycling sp. z o.o., Poland

11.50 – 12.10 "Environmental damages caused by commodities theft – What we can change"

Christoph Werth, NOEX AG, Germany

12.10 – 12.30 "Prostitution in the waste industry! Are we, the recyclers, prostituted for the producers of WEEE?"

Poul Bengt, Ragn-Sells Danmark A/S, Denmark

12.30 – 14.00 Lunch

14.00 – 15.30 **PANEL DISCUSSION: "FREE TRADE, FAIR TRADE OR NO TRADE"**

Moderator: Dr Mike Biddle, MBA Polymers, Inc., USA

Participants: Mike Chen, WorldScrap.com, China
Stefan-Georg Fuchs, Aurubis AG, Germany
Dr Jaco Huisman, Delft University of Technology, Netherlands
Prof. Oladele Osibanjo, Basel Convention Coordinating Centre for Training & Technology Transfer for the African Region, Nigeria
Jim Puckett, Basel Action Network (BAN), USA

15.30 – 16.00 Coffee break

Session 2: From waste to resources
Session Chairman: Manfred Beck, Recycling International Magazine, Netherlands

16.00 – 16.30 "Innovative ideas for the collection of valuable electronic appliances: Example Electroreturn"

Manfred Fahrner, ALBA R-plus GmbH, Germany

16.30 – 17.00 "Recycling challenges and opportunities in developing countries"

The "Producer Alliance" Perspective
Jean Cox-Kearns, DELL Global Takeback, Ireland

17.00 – 17.30 "Recycled materials in consumer products – A mental step change for consumers and companies alike"

Cecilia Nord, Electrolux AB, Sweden

Parallel Session 2: Strategic materials recycling
Session Chairman: Dr Thomas Marinelli, Philips Lighting B.V., Netherlands

"Recycling of rare earth magnets"
Dr Allan Walton, University of Birmingham, United Kingdom

"How to diversify its supply of rare earth by developing recycling? Example of fluorescent lamps and permanent magnets"
Frédéric Carencotte, Solvay Group, France

"IT-Product design – A question of mineral resources?"
Klaus Hieronymi, Hewlett-Packard

17.30 – 18.30 "Bierfass" reception in the exhibition hall sponsored by



AIR MERCURY
THE SHREDDER RESIDUE COMPANY

19.30

Networking dinner

CONGRESS PROGRAM IERC 2013

THURSDAY, JANUARY 17, 2013

08.00 – 09.00 Welcome coffee

	Session 3: Main challenges in WEEE 2.0 Session Chairman: Dr Jaco Huisman, Delft University of Technology, Netherlands	Parallel Session 3: Optimizing pre processing Session Chairman: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore
09.00 – 09.30	"WEEE2 – Standalone directive or an integral part of the EU's resource efficiency and Eco design strategies" Sigrid Linher, ORGALIME aisbl, Belgium	"REDWAVE XRF – New applications in sensor-based-sorting using X-ray fluorescence" Martin Weiss, REDWAVE a trademark of BT-Wolfgang Binder GmbH, Germany
09.30 – 10.00	"Producer and product responsibility – Renewal or replacement because of a paradigm shift?" Hans-Jochen Lückefett, 1WEEE Services GmbH, Germany	"Recycling of highly functional and strategically important metals from WEEE – Current status and future perspectives" Prof. Vera S. Rotter, Berlin University of Technology & Prof. Sabine Flamme, Münster University of Applied Sciences, Germany
10.00 – 10.30	"How WEEELABEX will contribute to a green economy" Pascal Leroy, WEEE Forum, Belgium	"Becoming more effective in treating WEEE scrap" Dieter Jersch, Eldan Recycling, Germany

10.30 – 11.00 Coffee break

	Session 4: Update on display recycling Session Chairman: Stefan-Georg Fuchs Aurubis AG, Germany	Parallel Session 4: Technology developments Session Chairman: Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan
11.00 – 11.30	"The cutting edge technology of LCD treatment" Jan Visser, Coolrec bv, Netherlands	"Online converting of CFCs in fridge disposal plants into compounds that do not deplete the ozone layer" Peter Hessler, UNTHA Recyclingtechnik GmbH, Germany

11.30 – 12.00	"Facts & figures of display take back and recycling in Turkey" Murat Ilgar, Exitcom Recycling Ltd., Turkey	"eVOLV™: The cleantech solution to electronic waste" Michael B. Korzenski, ATMI, Inc., USA
12.00 – 12.30	"Material recovery of CRT panel glass in glass wool production" Martin Fišer, ASEKOL s.r.o. & Jan Brázda, KNAUF INSULATION, spol. s r.o., Czech Republic	"Impacts of shredding technology for efficient WEEE recycling" Jörg Krönig, Vecoplan AG, Germany

12.30 – 14.00 Lunch

	Session 5: Standards more effective than legislation? Session Chairman: Dr Sven Grieger, ENE EcologyNet Europe GmbH, Germany
14.00 – 14.30	"The role of EOLE standards in leveling the playing field" Libby Chaplin, Arcadian Solutions & Anne Peters, Gracestone, Inc., USA
14.30 – 15.00	"Product sustainability standards and the impact on electronics design and recycling" Carl E. Smith, EPEAT & Call2Recycle®, Christina Bocher, DEKRA & Colin Proietto, ULE, USA

15.00 – 15.30 Coffee break

15.30 – 17.00 PANEL DISCUSSION: "HOW STANDARDS CAN CONTRIBUTE TO LEVEL PLAYING FIELDS"

Moderator: Klaus Hieronymi, Hewlett-Packard

Participants: Representative of European Commission, Belgium
Christian Dworak, BSH Bosch und Siemens Hausgeräte GmbH, Germany
Lynn Rubinstein, R2 Solutions, USA
David Scuderi, Samsung Electronics, United Kingdom (invited)
Carl E. Smith, EPEAT & Call2Recycle®, USA
Norbert Zonneveld, EERA, Netherlands

from 17.00 Cocktail reception in the exhibition hall

PLANT TOURS IERC 2013

FRIDAY, JANUARY 18, 2013

MONTANWERKE BRIXLEGG AG BRIXLEGG



08.30	Departure by bus to Montanwerke Brixlegg AG
10.30	Arrival at Montanwerke Brixlegg AG
10.30 – 12.30	Visit of the copper smelter
14.30*	Arrival at Salzburg Airport
14.45	Arrival at the Salzburg Congress Centre

Montanwerke Brixlegg AG is Austria's only copper producer and has a history stretching back more than 500 years. Today Montanwerke is one of the leading secondary smelters in Europe.

Core business is recycling copper and other precious metals from scrap and in further steps process it into cathodes and billets. For these two highly pure copper products the total output is over 200'000 tons per year.

www.montanwerke-brixlegg.com

* No guarantee on arrival time due to traffic conditions.



99,999%

REINER KUPFERGEHALT

Die Montanwerke Brixlegg AG verarbeitet jährlich mehr als 160.000 Tonnen kupferhaltiges Sekundärmaterial. Das daraus gewonnene hochreine Kupfer hat einen Kupfergehalt von mind. 99,999 %. Diese exzellente Qualität und die verschiedensten Anwendungsbereiche unserer Produkte haben unser Markenzeichen „BRX“ weltweit bekannt gemacht.

Mehr Informationen über Recycling und unsere Produktion erfahren Sie unter www.montanwerke-brixlegg.com



MONTANWERKE 
BRIXLEGG

PLANT TOURS IERC 2013

FRIDAY, JANUARY 18, 2013

Your partner  means business
Müller-Guttenbrunn Group

MÜLLER-GUTTENBRUNN, METRAN AND MBA POLYMERS, AMSTETTEN/KEMATEN


BECAUSE SUSTAINABILITY MATTERS

08.00	Departure by bus to Müller-Guttenbrunn Group
10.00	Arrival at the above mentioned 3 companies
10.00 – 14.30	Visit of the shredder plant of Metall Recycling Mü-Gu Visit of the metal separation plant of Metran Visit of the plastic recycling plant of MBA Polymers
17.00*	Arrival at Salzburg Airport
17.15	Arrival at the Salzburg Congress Centre

The **Metall Recycling Mü-Gu** in Amstetten de-pollutes the E-Waste in an environmentally friendly manner and each of the de-polluted fractions are disposed of in line with the E-Waste directive. The selective shredder separates high quality ferrous metal scrap; most non ferrous metals are further extracted and concentrated by type of metal (copper, aluminium etc.) by the company Metran GmbH.

Metran also creates a valuable plastics fraction, which is delivered to MBA Polymers for further processing. Even metals <1mm can thus be extracted and re-introduced into the recycling cycle.

MBA Polymers recovers high-quality post-consumer ABS, HIPS and PP resins for use in demanding applications. Premium grades are offered under the EvoSource™ brand and are either UL-HB recognized, impact modified and/or available in different colours – replacing virgin plastics and closing the loop. These post-consumer plastics reduce energy consumption by over 80% and protect the environment from between 1 and 3 tons of CO₂ emissions, compared to the production of one ton of "virgin" plastics from petrochemicals. The technical visit will include the MBA Polymers plant in Kematen/Ybbs in Lower Austria, which is one of the most advanced plastics recycling facilities in the world, covering approximately 20'000 m², with a processing capacity of 40'000 tons per year. MBA Polymers Austria employs a staff of 75 highly qualified personnel, operating and supervising the individual production stages, quality assurance, and preventive maintenance.

www.mueller-guttenbrunn.at, www.mbapolymers.com

* No guarantee on arrival time due to traffic conditions.

Your partner  means business

Müller-Guttenbrunn Group

We utilize raw materials from waste fractions
Your partner for e-waste, end-of-life vehicles and metals



use of the most modern
separation technologies

recovery of valuable resources
recycling of small scale metal
particles



environmental-friendly-removal
of harmful substances

partner of the Lower Austrian
Waste Management Associations

Müller-Guttenbrunn Group, Industriestrasse 12, A-3300 Amstetten, Austria
Tel: +43 7472 / 64 181, Fax: +43 7472 / 64 181 38, www.mueller-guttenbrunn.at, office@mueller-guttenbrunn.at


BECAUSE SUSTAINABILITY MATTERS

Responsibility starts with the raw material

Plastic rich
fractions from
durable goods ...



... to make
post-consumer
recycled
EvoSource™
plastics



MBA Polymers Austria Kunststoffverarbeitung GmbH, WiPark, 12. Strasse 8, A-3331 Kematen/Ybbs, Austria
Tel: +43 7476 77 488, Fax: +43 7476 77 488 44, www.mbapolymers.com, office@mba-polymers.at

PLANT TOURS IERC 2013

FRIDAY, JANUARY 18, 2013

SAH STAHLWERK ANNAHÜTTE
AINRING/HAMMERAU (GERMANY)



08.30	Departure by bus to Stahlwerk Annahütte
09.00	Arrival at Stahlwerk Annahütte
09.00 – 11.00	Visit of the steelworks
11.30*	Arrival at Salzburg Airport
11.45	Arrival at the Salzburg Congress Centre

Please note: To wear sturdy, closed-toed shoes is a must. We also recommend to wear stain-resistant clothing.

Whether stabilizer or gear shaft, drill or cutter, in tunnels, runways or skyscrapers – steel from **Annahütte** has proven itself worldwide in the automotive, tool industry as well as in technical engineering.

The starting product for SBQ bars and threadbars is a 1'500 kg steel billet that is heated to 1'150 °C in a walking beam furnace and then rolled out under enormous pressure to a length up to 1'500 meters. Annahütte rolls and refines steel bars to the desired designs of customers who process them into chains and wrenches, connecting rods, cams and steering shafts. If you drive an European car, it is most likely equipped with components made of Annahütte steel. For technical engineering designs, the Stahlwerk Annahütte develops and produces threadbar systems in concrete and pre-stressed steel quality. Whether in the foundations of Berlin's government building, in the new World Trade Center in New York or on the new ICE high speed railway – SAH threadbar systems have proven themselves globally in major construction projects as structural engineering, bridges, tunneling and mining. Annahütte is the world market leader in the segment of hot-rolled threadbar.

As part of its constant research and development work with its own R&D department, SAH has setup cooperation's with other companies and universities.

www.annahuette.com

* No guarantee on arrival time due to traffic conditions.

Stahlwerk Annahütte
OUR WORLD OF STEEL



SAS Threadbar-System Solutions for individual challenges



SAS Micro piles for the Foundation of new World Trade Center in New York



SAS Micro piles in the foundations of Berlin government buildings



SAS Threadbar-System on the new ICE high speed railway



Stahlwerk Annahütte Max Aicher GmbH & Co. KG, D-83404 Hammerau / Germany
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stahlwerk@annahuette.com www.annahuette.com



prepare for a better world

PLANT TOURS IERC 2013

FRIDAY, JANUARY 18, 2013

SAUBERMACHER DIENSTLEISTUNGS AG UNTERPREMSTÄTTEN



08.00	Departure by bus to Saubermacher Dienstleistungs AG
12.00	Arrival at Saubermacher Dienstleistungs AG
12.00 – 14.30	Visit of the electronics recycling plant with MeWa QZ, Granulator and REDWAVE sensor based sorters in Unterpremstätten
15.00*	Arrival at Graz Airport
19.00*	Arrival at Salzburg Airport
19.15	Arrival at the Salzburg Congress Centre

Saubermacher is Austria's leading private waste disposal and recycling specialist.

The company is regarded as a highly competent partner for an entire array of environmental issues for more than 1'600 local authorities and 40'000 customers within industry, trade and commerce in Austria.

As an internationally successful company, Saubermacher manages about 100 locations and 75 joint ventures in Austria, Slovenia, Hungary, Czech Republic and Romania from its headquarters in Feldkirchen bei Graz.

www.saubermacher.com



Saubermacher E-Cycling-Park

With our high-tech equipment, up to 15,000 tons of used electrical appliances can be processed annually in an environmentally-friendly way. Through the use of this equipment, Saubermacher helps to ensure that the entire added value remains in Styria.

Ing. Alois Grinschgl
Am Damm 50
A-8141 Unterpremstätten
T: 059 800 8401
E: a.grinschgl@saubermacher.at
www.saubermacher.at

Saubermacher

for an environment worth living in

* No guarantee on arrival time due to traffic conditions.

EXHIBITION AND POSTER PRESENTATIONS



A large exhibition area will be offered to companies wishing to display their products or advertising materials. The fees for an exhibition booth for the full time of the congress are:

Booth 6 m² 2 m x 3 m **EUR 3'500.-**
Booth 12 m² 3 m x 4 m **EUR 4'900.-**

Space is limited, so take your chance and book your exhibition booth today!



LAYOUT EXHIBITION AS PER SEPTEMBER 28, 2012



EXHIBITORS

AS PER SEPTEMBER 28, 2012



NETWORKING DINNER



On Wednesday, January 16, an unforgettable networking dinner will be organized in beautiful Salzburg.

Do not miss this perfect possibility to meet your business partners and register to this evening now!



Meet friends and business partners in a nice atmosphere!



Registration for the congress should be made by means of the registration form. Participants registering and paying **before November 30, 2012** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

REGISTER BY
NOV. 30, 2012
TO RECEIVE
DISCOUNT RATE

REGISTRATION FEES

	before Nov. 30, 2012	after Nov. 30, 2012
Congress Fee		
Fee for participants	€ 1'490.-	€ 1'590.-
Fee for speakers	€ 890.-	€ 990.-
Fee for students	€ 590.-	€ 690.-
Networking dinner (Jan. 16, 2013)	€ 100.-	€ 120.-
Networking dinner for spouse (Jan. 16, 2013)	€ 120.-	€ 140.-
Plant Tours (Jan. 18, 2013):		
– Montanwerke Brixlegg AG	€ 40.-	€ 60.-
– Müller-Guttenbrunn, Metran, MBA Polymers	€ 40.-	€ 60.-
– SAH Stahlwerk Annahütte	€ 40.-	€ 60.-
– Saubermacher Dienstleistungs AG	€ 40.-	€ 60.-

All prices excl. 20% Austrian VAT

Congress registration on site € 100.- surcharge

Additional Proceedings

If it is not possible for you to attend the congress, you may purchase the complete proceedings at € 350.-. Participants will get the proceedings free of charge.

Payment

Payment should be made in EUR by bank transfer or by credit card. Wire payment to:

Beneficiary: ICM AG
Bank: Neue Aargauer Bank, 5400 Baden, Switzerland
IBAN: CH41 0588 1044 7941 7200 0
Swift code: AHHBCH22XXX

ICM AG
International
Congress & Marketing
Schwaderhof 7
5708 Birrwil, Switzerland

Phone +41 62 785 10 00
Fax +41 62 785 10 05

info@icm.ch
www.icm.ch

WHO SHOULD ATTEND?

- Original electronic equipment manufacturers (OEMs)
- Electronic components suppliers
- Electronic equipment importers and dealers
- Retailers
- Ferrous & non ferrous metal traders
- Collection and transportation companies
- Recycling and dismantling companies
- Shredding companies
- Plastics industry
- Non ferrous metal industry
- Ferrous and stainless steel industry
- Environmental authorities
- Universities and research institutes
- Laboratories for material science

ORGANIZER OF IERC 2013



JEANETTE DUTTLINGER
Congress Organizer



SUSANN SCHMID
Congress Assistant



CLAUDIA GERSTENDÖRFER
Congress Assistant



MIRJAM WAGNER
Congress Assistant



SABRINA BOLLIGER
Congress Assistant



YING LIU REICHENBACH
Congress Assistant



SANDRA MANNHART
Congress Assistant

BEAUTIFUL SALZBURG



The city of Salzburg, best known as the birthplace of Mozart, has a very proud history and is able to magic its visitors back in time. Salzburg is a World Metropolis, Cultural Centre, Festival and Mozart city all rolled into one.

Numerous cultural museums and exhibitions are waiting to be visited. Salzburg offers Tradition and Innovation and also of course outstanding Architecture. There are only a very few cities with such

outstanding baroque work within its many churches. Also worth a mention is the Hohensalzburg Fortress a symbol of the Mozart city and the largest complete fortress in middle Europe.

Salzburg, situated on the Salzach (Salt) river is also a city embedded within an imposing mountain world. Discover and experience with us this fascinating city and the amazing natural beauty within the area.

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