

# IERC 2012

## 11<sup>th</sup> International Electronics Recycling Congress IERC 2012

January 18 – 20, 2012, Salzburg, Austria



### Patronage:

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

European Electronics Recyclers Association (EERA)

European Lamp Companies Federation (ELC)

European Committee of Domestic Equipment Manufacturers (CECED)

DIGITALEUROPE

ORGALIME

PlasticsEurope

WEEE Forum



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BOLIDEN



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PHILIPS



RUAG



DELA  
Recycling - Solutions



Your partner means business  
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## WELCOME ADDRESS

Picture: BMLFUW/Newman



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

Back in the Eighties, Austria embarked on a journey towards waste management. Thanks to the waste management policy of the Nineties, high standards of safety, the efficient use of resources and product responsibility are now integral components of our modern waste policy. On the other side the production of goods primarily depends on the constant exploitation of raw materials. Both the enormous consumption rate of fossil fuels and the amounts of mineral raw materials being exploited are continuing to rise. This gigantic turnover of materials prompted by the economy is leading to ever greater amounts of waste and harmful substances. This could be remedied by curbing the use of materials and increasing the use of cycle management, which takes into account the possibility of re-use and recovery in

the goods production phase already and thus helps prevent harmful substances. The root of sustainable economic management is increased eco-efficiency, in which the increase in material efficiency takes on greater importance and is decisive for waste management.

The electrical and electronics sector is marked by rapid product changes. Technical innovation and market expansion has led to an ever increasing rate of goods being replaced. More and more uses are added and there is scarcely an area of modern life that does not involve the use of electrical and electronic equipment. This development has led to a marked increase in the number of electrical and electronic devices. At the European level, the need for more harmonisation has been recognised as a means to come up with

new European solutions of the pan-European waste electrical and electronic equipment issue, not least due to the numerous national developments and efforts.

The Austrian implementation of the European Union Directives by the Waste Electrical and Electronic Equipment Ordinance is into force for more than 6 years now and it is a full success story. Because of the joint solution with lowest possible administration expense and expenditure for producers and distributors the collection and recovery could work flawlessly. Owing to the environmental awareness and the co-operation of all citizens Austria exceeded the European Union collecting goal in the previous year by more than 130%.

The transfer of knowledge and the exchange of experience constitute important

elements for introducing good solutions and comparable standards in the whole world. I am looking forward to the world of experts meeting in Austria, in Salzburg on the occasion of the IERC 2012, and I wish every success and a nice stay.



[lebensministerium.at](http://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'm welcoming you to Salzburg for the 11<sup>th</sup> International Electronics Recycling Congress.

For our industries the year 2011 will be probably another good year. Sales, volumes, margins get better and better. It's not only one of the fastest growing industries – but it is also one of the best and most interesting businesses. In our industry you need common knowledge about 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.

There are still young entrepreneurs who start their busi-

nesses in garages, but no longer in Europe and North America. These pioneers still exist – in Asia. Some of them became the world's largest recycling companies. We will definitely talk about this at the IERC 2012.

**Regulations and new laws do not hurt our recycling industry, but the unlevelled international playing field and the total lack of law enforcement are the critical factors of our economy. We definitely need the help of the politicians and authorities of our civilized countries.**

EU is trying to preserve raw materials in order to supply European industries. But at the same time, EU does not make sufficient action against illegal export of wastes to Africa and Asia. It is said that rare earth materials are critical. But why does EU allow the export of used electric motors to Asia? Elec-

tric motors contain magnets – one of the major sources for rare earth elements!

IERC 2012 will give you the platform to discuss such issues. It is a growing, innovative, neutral and very effective platform to meet clients, listen to the news of the speakers, discuss with the authorities, watch the hottest products of the exhibitors and make business in a relaxed atmosphere.

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





## KEY MESSAGES



### MICHAEL WIDMER

Bank of America Merrill Lynch  
Global Research Strategist  
United Kingdom

“HOW DO RAW MATERIAL  
PRICES DEVELOP”



### ROSALINDE VAN DER VLIES

European Commission  
DG Waste Management  
Deputy Head of Unit  
Belgium

“EUROPE’S GOAL OF BECOMING  
A RESOURCE-EFFICIENT ECONOMY  
AND A RECYCLING SOCIETY”



### JIM PUCKETT

Basel Action Network (BAN)  
Environmental Health and Justice Activist  
USA

“WHAT ELECTRONIC WASTE  
CAN TEACH US”



### PROF. THEO LEHNER

Boliden Mineral AB  
Manager Business Development  
Sweden

“END PROCESSING: CHALLENGES  
IN CLOSING THE LOOP”

### DR MICHAEL BIDDLE

MBA Polymers, Inc.  
Founder and President  
USA

“WALK THE TALK AND ENCOURAGE  
OTHERS TO DO THE SAME”



### GRAHAM DAVY

Sims Recycling Solutions  
Chief Executive Officer Europe & Global SRS  
United Kingdom

“WHERE WILL MATERIAL RECY-  
CLING TAKE PLACE IN 10 YEARS?”



### CARL HUIJBREGTS

Inspectorate for Environment and Transport of the Netherlands  
Project Manager International Waste Shipment Collaboration  
Netherlands

“DO YOU REALLY KNOW WHERE  
YOUR E-WASTE ENDS UP?”



### KOEN DEMESMAEKER

Umicore Precious Metals Refining  
Senior Vice President  
Belgium

“SUSTAINABLE RECYCLING  
IS THE BASIS TO TACKLE THE  
SCARCITY OF RAW MATERIALS”



## INTERNATIONAL STEERING COMMITTEE



**DR VIKTOR HAEFELI**  
**Chairman**  
RUAG Schweiz AG  
CEO RUAG Technology  
Switzerland



**STEPHANE BURBAN**  
Xstrata Copper Canada  
Manager Recycling  
Switzerland



**DR SVEN GRIEGER**  
ENE EcologyNet Europe GmbH  
Managing Director  
Germany



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



**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  
Chairman of the  
Environmental Board  
Europe – Middle East – Africa



**VENKATESHA MURTHY**  
Cimelia Resource Recovery Pte. Ltd.  
Managing Director  
Singapore



**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



**WENDY NEU**  
Hugo Neu Corporation  
Executive Vice President  
USA



**MANFRED BECK**  
Recycling International  
Magazine  
Editor  
Netherlands



**MANFRED FAHRNER**  
ALBA R-plus GmbH  
Chief Sales Officer  
Germany



**PROF. THEO LEHNER**  
Boliden Mineral AB  
Manager Business  
Development  
Sweden



**DR ANDREAS  
RÖTHLISBERGER**  
WEEE Forum  
President  
Switzerland



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



**STEFAN-GEORG FUCHS**  
Aurubis AG  
Head of Global Electronic  
Scrap Procurement  
Germany



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



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



**NORBERT ZONNEVELD**  
EERA  
Executive Secretary  
Netherlands



## LOCATION OF THE CONGRESS



The 11<sup>th</sup> International Electronics Recycling Congress IERC 2012 will be held at the:

**Salzburg Congress**  
Auerspergstraße 6  
5020 Salzburg, Austria

Phone +43 662 889870  
Fax +43 662 88987210  
[www.salzburgcongress.at](http://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](http://www.salzburg.info)

For the participants of the congress a number of rooms are held **at a special rate until December 16, 2011** 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](http://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](http://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](http://www.imlauer.com)

2 minutes walking distance to the congress centre

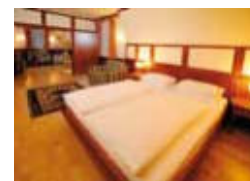


### Best Western Hotel Imlauer \*\*\*\*

Rainerstraße 12, 5020 Salzburg  
Phone +43 662 88992  
Fax +43 662 8899271  
[www.imlauer.com](http://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](http://www.zumhirschen.at)

5 minutes walking distance to the congress centre



# CONGRESS PROGRAM IERC 2012

## TUESDAY, JANUARY 17, 2012

17.00 – 19.00 Registration

## WEDNESDAY, JANUARY 18, 2012

08.30 – 09.30 Registration, welcome coffee and tea

**Session 1: Keynote speakers from industry and authorities**  
**Session Chairman: Dr Viktor Haefeli, Chairman of the Steering Committee**

09.30 – 09.45 "Welcome and Introduction"  
**Dr Viktor Haefeli, Chairman of the Steering Committee**

### 09.45 – 11.00 KEYNOTE SPEAKERS

"How do raw material prices develop?"  
**Michael Widmer, Bank of America Merrill Lynch, United Kingdom**

"Europe's goal of becoming a resource-efficient economy and a recycling society"  
**Rosalinde van der Vlies, European Commission, Belgium**

"What electronic waste can teach us"  
**Jim Puckett, Basel Action Network (BAN), USA**

11.00 – 11.30 Coffee break

### 11.30 – 13.00 END PROCESSORS DEBATE: "Where will material recycling take place?"

**Moderator: Prof. Theo Lehner, Boliden Mineral AB, Sweden**

**Participants: Dr Mike Biddle, MBA Polymers, Inc., USA**  
**Graham Davy, Sims Recycling Solutions, United Kingdom**  
**Koen Demesmaeker, Umicore Precious Metals Refining, Belgium**  
**Stefan-Georg Fuchs, Aurubis AG, Germany**  
**Paul J. Healey, Xstrata Copper, Canada**

### PRESENTING THE COWBELL AWARD 2012

13.00 – 14.30 Lunch

**Session 2: New challenges**  
**Session Chairman: Prof. Hsiao-Kang Ma**  
**National Taiwan University, Taiwan**

14.30 – 15.00 "Li-ion batteries – Mobile energy and dangerous goods in WEEE"  
**Imke May, Stiftung Gemeinsames Rücknahmesystem Batterien, Germany**

15.00 – 15.30 "Recycling of high purity selenium from CIGS solar cell materials"  
**Anna Gustafsson, Chalmers University of Technology, Sweden**

**Parallel Session 2: Country reports**  
**Session Chairman: Wendy Neu**  
**Hugo Neu Corporation, USA**

"The recovery and recycling industry in Spain"  
**Alicia García-Franco Zúñiga, Spanish Federation for recovery and recycling Spain**

"WEEE management in Romania"  
**Marius Costache, GreenWEEE International SA, Romania**

15.30 – 16.00 Coffee break

**Session 3: Standards**  
**Session Chairman: Dr Andreas Röhlsberger, WEEE Forum, Switzerland**

16.00 – 16.30 "Reuse criteria for WEEE"  
**Dimitri Strybos, OVAM – Public Waste Agency of Flanders, Belgium**

16.30 – 17.00 "Different recycling standards in the EU and the US"  
**Jean Cox-Kearns, DELL Global Takeback Ireland**

17.00 – 17.30 "Lifting a tip of the veil on WEEELABEX conformity verification"  
**Dr Robert Hediger, WEEE Forum, Belgium**

**Parallel Session 3: New processes I**  
**Session Chairman: Manfred Fahrner**  
**ALBA R-plus GmbH, Germany**

"Novel distributed solutions for sustainable and economic recovery of base & precious metals from e-waste"  
**Privahini Bradoo, BioMine, USA**

"How can you reach the highest environmental standards by simple and efficient WEEE-recycling-technology?" **Helmut Oberguggenberger, MeWa Recycling, Germany**

"Optical sorting in high-definition of WEEE"  
**Felix A. Hoftenstein, MSS, Inc., USA**

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



**AIR MERCURY**  
RECYCLING & METAL TRADING

19.30 Networking dinner

# CONGRESS PROGRAM IERC 2012

THURSDAY, JANUARY 19, 2012

08.00 – 09.30 Welcome coffee and tea

## Session 4: Flat panel display recycling

Session Chairman: Dr Sven Grieger, ENE EcologyNet Europe GmbH, Germany

09.00 – 09.30 "Feasibility research of E-waste recycling processes in Vietnam: An investigation with CRT glass and PCBs at the small communities"

Prof. Do Quang Trung, Vietnam National University of Hanoi (VNUH), Vietnam

09.30 – 10.00 "Risks and opportunities in the recycling of flat panel displays - Results of a Swiss study"

Heinz Boeni, Empa – Materials Science & Technology, Switzerland

10.00 – 10.30 "Application of environmental practices in the commercial recycling of liquid crystal"

Dr Timothy McDonnell & Dr Karl Williams, University of Central Lancashire, United Kingdom

10.30 – 11.00 Coffee break

## Session 5: Strategic metals recycling

Session Chairman: Stefan-Georg Fuchs  
Aurubis AG, Germany

11.00 – 11.30 "Reconstituting rare earth permanent magnets from process and end-of-life scrap. A recycling process that maximizes the recovery of added value"

Jack Liffon, Technology Metals Research LLC, USA

11.30 – 12.00 "The new Rare Earths urban mine: Rhodia launches an industrial unit for RE recycling from used low consumption lamps"

Nicolas Barthel, Rhodia Rare Earth Systems France

## Parallel Session 5: New collection categories

Session Chairman: Dr Marco Buletti  
Federal Office for the Environment FOEN  
Switzerland

"Take back and recycling of end-of-life PV panels: Experiences and results of the European system"

Dr Virginia Gómez, PV CYCLE aisbl  
Belgium

"SVEG campaign on the collection of power tools in the Netherlands: Weaknesses and experiences for the future"

Wilfred Steeman, Bosch Power Tools  
Benelux / Dutch Foundation Power tools  
Recycling (SVEG), Netherlands

12.00 – 13.30 Lunch

## Session 6: Lighting & lamp recycling

Session Chairman: Dr Thomas Marinelli  
Philips Lighting B.V., Netherlands

13.30 – 14.00 "Lamp recycling in changing markets"

Christian Bonmann, DELA GmbH  
Recycling Solutions, Germany

14.00 – 14.30 "The future of LED lighting: Facts & figures"

Harry Verhaar, Philips Lighting B.V.  
Netherlands

## Parallel Session 6: New processes II

Session Chairman: Venkatesha Murthy  
Cimelia Resource Recovery Pte. Ltd., Singapore

"Practical application of a magnetic fluid separator for the processing of e-scrap"

Prof. Wijnand Dalmijn, Liquisort Metals B.V.  
Netherlands

"Recovery of metals from electronics waste using DC plasma arc technology"

Dr Tim Johnson, Tetronics Ltd.  
United Kingdom

14.30 – 15.00 Coffee break

15.00 – 17.00 **PANEL DISCUSSION: "Who takes the responsibility for collection?"**

**"Facts & figures on collection"**

Leo Donovan, WEEE Ireland, Ireland

Victor Duart, IBM Corporate Environmental Affairs, Spain

Dr Jaco Huisman, United Nations University – UNU, Netherlands

Dr Kirstie McIntyre, Hewlett-Packard, Europe, Middle East and Africa

**Moderator:** Norbert Zonneveld, EERA, Netherlands

**Participants:** Carl Huijbregts, Inspectorate for Environment and Transport, Netherlands  
Gerhard Jokic, REMONDIS Electrorecycling GmbH, Germany  
Luigi Meli, CECED, Belgium  
Jan-Willem Scheijgrond, Philips, Netherlands  
Jan Viak, Wecycle, Netherlands

from 17.00 Cocktail reception in the exhibition hall



## PLANT TOURS IERC 2012

FRIDAY, JANUARY 20, 2012

### MONTANWERKE BRIXLEGG AG BRIXLEGG



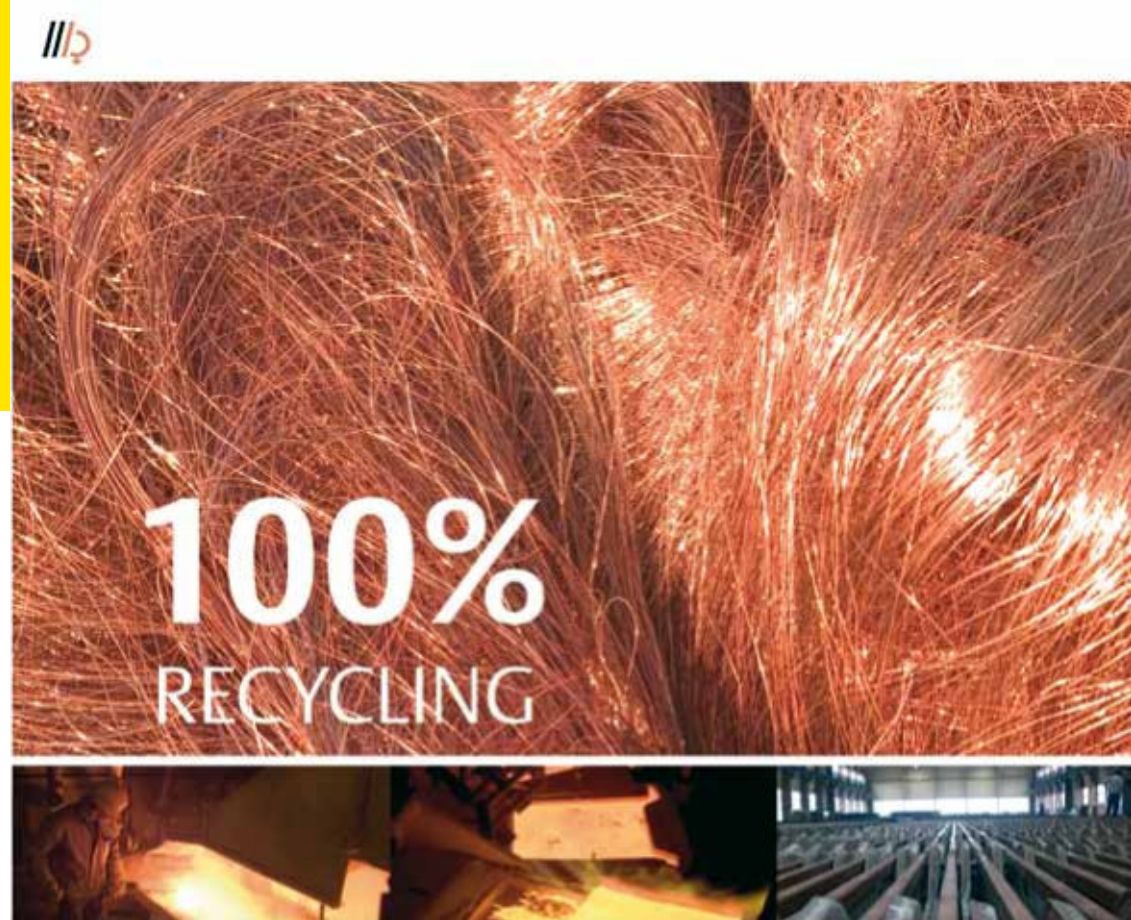
08.30	Departure by bus to Montanwerke Brixlegg AG
10.30	Arrival at Montanwerke Brixlegg AG
10.30 – 12.30	<b>Visit of the copper smelter</b>
14.30*	Arrival at Salzburg Airport
14.45	Arrival at the Salzburg Congress Centre

**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](http://www.montanwerke-brixlegg.com)

\* No guarantee on arrival time due to traffic conditions.



**99,99%**  
COPPER CONTENT



Each year, the Montanwerke Brixlegg AG processes approximately 130,000 tons of copper containing secondary materials. The recovered highly pure copper has a copper content of 99,99 %. This excellent quality and a wide range of application possibilities have made the brand "BRX" well known worldwide.

More information about recycling and the production you can find under [www.montanwerke-brixlegg.com](http://www.montanwerke-brixlegg.com)

a company of ARBEC INDUSTRIES AG

**MONTANWERKE**  
**BRIXLEGG**

## PLANT TOURS IERC 2012

FRIDAY, JANUARY 20, 2012

Your partner  means business  
Müller-Guttenbrunn Group

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



08.00	Departure by bus to Müller-Guttenbrunn Group
10.00	Arrival at the above mentioned 3 companies
10.00 – 14.30	<b>Visit of the shredder plant of Metall Recycling Mü-Gu</b> <b>Visit of the metal separation plant of Metran</b> <b>Visit of the plastic recycling plant of MBA Polymers</b>
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 CO<sub>2</sub> 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 m<sup>2</sup>, 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](http://www.mueller-guttenbrunn.at), [www.mbapolymers.com](http://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](http://www.mueller-guttenbrunn.at), [office@mueller-guttenbrunn.at](mailto:office@mueller-guttenbrunn.at)



### 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](http://www.mbapolymers.com), [office@mba-polymers.at](mailto:office@mba-polymers.at)

## PLANT TOURS IERC 2012

FRIDAY, JANUARY 20, 2012

### SAUBERMACHER DIENSTLEISTUNGS AG UNTERPREMSTÄTTEN



<b>08.00</b>	Departure by bus to Saubermacher Dienstleistungs AG
12.00	Arrival at Saubermacher Dienstleistungs AG
12.00 – 14.30	<b>Visit of the e-cycling-park with MeWa Querstromzerspaner in Unterpremstätten</b>
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, Romania, Croatia, Serbia and Macedonia from its headquarters in Feldkirchen bei Graz.

[www.saubermacher.com](http://www.saubermacher.com)

*Saubermacher*  
für eine lebenswerte Umwelt

\* No guarantee on arrival time due to traffic conditions.

*Saubermacher*



pre<sup>e</sup>pare for a  
better world

#### Saubermacher e-cycling-park

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

A-8141 Unterpremstätten, Am Damm 50  
Ing. Alois Grinschgl, Head of E-cycling Services  
Tel: 059 800 8401, Fax: 059 800 8499, Mobile: 0664 80598 8401  
Email: [a.grinschgl@saubermacher.at](mailto:a.grinschgl@saubermacher.at) or [batterien@saubermacher.at](mailto:batterien@saubermacher.at)

[www.saubermacher.at](http://www.saubermacher.at)



## PLANT TOURS IERC 2012

FRIDAY, JANUARY 20, 2012

**S+S SEPARATION AND SORTING TECHNOLOGY GMBH  
SCHÖNBERG (GERMANY)**



<b>08.00</b>	Departure by bus to S+S Separation and Sorting Technology
10.30	Arrival at S+S Separation and Sorting Technology
10.30 – 13.00	<b>Introduction of S+S Sorting Technology, company tour and demonstration of S+S sorting machines in action in the S+S technical center</b>
16.00*	Arrival at Salzburg Airport
16.15	Arrival at the Salzburg Congress Centre

At the plant tour to S+S Separation and Sorting Technology GmbH you will get an introduction about the company. After a plant tour you will see some sorting and separation trials in the S+S laboratory.

The VARISORT COMPACT CMN sorter will be used to demonstrate different sorting tasks for the e-scrap recycling industry like metal separation, copper wire separation and plastic type separation.



[www.sesotec.com](http://www.sesotec.com)

\* No guarantee on arrival time due to traffic conditions.

Engineered solutions  
for the e-scrap recycling industry.



**S+S Separation and  
Sorting Technology  
GmbH**

- Metal Separators
- Colour Separators
- Sorting Systems

## sorting purity.

For more than 30 years, S+S has been a leading manufacturer of metal detection and sorting technology for companies worldwide. We are focused on providing the highest quality products while utilizing state of the art technology. This attention to detail ensures reliable performance under the harshest operating conditions.

By designing solutions tailored specifically for our customers, we produce results that ensure maximum return on investment.

### Sorting examples for e-scrap:

- Separation of CRT glass
- Separation of heavy metals
- Wire separation
- Separation of PC boards
- Plastic type separation
- Metal separation



**[www.sesotec.com/  
escrap](http://www.sesotec.com/escrap)**

## PLANT TOURS IERC 2012

FRIDAY, JANUARY 20, 2012

### VOESTALPINE AG, LINZ



voestalpine Stahlwelt

09.00	Departure by bus to voestalpine AG
11.00	Arrival at voestalpine AG
11.00 – 14.00	<b>Guided tour at voestalpine Stahlwelt and plant tour at the factory premises of voestalpine in Linz</b>
16.00*	Arrival at Salzburg Airport
16.15	Arrival at Salzburg Congress Centre

Around the world, **voestalpine** produces, processes and develops steel to make high-quality products and innovative solutions. Be our guest – come and visit voestalpine's world of discovery, where you can learn more about steel and the countless ways it can be used. Discover the fascinating world of steel. Discover the voestalpine Stahlwelt.

Our steel plant is the cleanest and most innovative in the world. A claim many steel plants make – but how many give anyone a glimpse of what's on the other side of the factory gate? We do, and we even go one step further: After you visit the exhibition in the voestalpine Stahlwelt, you're in for an exciting plant tour.

Our multimedia buses will transport you deep inside the plant grounds covering 5.2 square kilometers. Directly to the production facilities, where you will get a behind-the-scenes look at the steel-making process.

Please note: that you must wear sturdy, closed-toed shoes (no sandals, flip-flops, crocs, etc.). We also recommend you wear stain-resistant clothing.

[www.voestalpine-stahlwelt.at](http://www.voestalpine-stahlwelt.at)

\* No guarantee on arrival time due to traffic conditions.



## Discover a new world.

Our world relies on steel. From cutlery to cars, from razor blades to skyscrapers, from tools to rocket ships, from railway tracks to highway bridges – steel shapes our every day lives, makes life easier for us, moves us forward. Steel connects continents, countries and people. Be our guest – come and visit voestalpine's world of discovery, where you can learn more about steel and the countless ways it can be used. Discover the fascinating world of steel. Discover the voestalpine Stahlwelt.

[www.voestalpine-stahlwelt.at](http://www.voestalpine-stahlwelt.at)



voestalpine Stahlwelt

## 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 m<sup>2</sup>** 2 m x 3 m **EUR 3'000.-**  
**Booth 12 m<sup>2</sup>** 3 m x 4 m **EUR 4'500.-**

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



## LAYOUT EXHIBITION AS PER OCTOBER 3, 2011





## EXHIBITORS

AS PER OCTOBER 3, 2011



## NETWORKING DINNER



On Wednesday, January 18, a special 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, 2011** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

REGISTER BY  
NOV. 30, 2011  
TO RECEIVE  
DISCOUNT RATE

## REGISTRATION FEES

	before Nov. 30, 2011	after Nov. 30, 2011
<b>Congress Fee</b>		
Fee for participants	€ 1'490.-	€ 1'590.-
Fee for speakers	€ 890.-	€ 990.-
Fee for students	€ 590.-	€ 690.-
Networking dinner (Jan. 18, 2012)	€ 100.-	€ 120.-
Networking dinner for spouse (Jan. 18, 2012)	€ 120.-	€ 140.-
<b>Plant Tours (Jan. 20, 2012):</b>		
– Montanwerke Brixlegg AG	€ 40.-	€ 60.-
– Müller-Guttenbrunn, Metran, MBA Polymers	€ 40.-	€ 60.-
– Saubermacher Dienstleistungs AG	€ 40.-	€ 60.-
– S+S Separation & Sorting Technology GmbH	€ 40.-	€ 60.-
– voestalpine 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

## 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.

[www.salzburg.info](http://www.salzburg.info)

## SKIING WEEKEND IN OBERTAUERN [WWW.OBERTAUERN.COM](http://WWW.OBERTAUERN.COM)

**Why not extend your stay in Salzburg and enjoy a beautiful weekend in the mountains only 1 hour car drive from Salzburg?**

Obertauern is one of the alpine skiing resorts where snow is guaranteed. And that means: ideal skiing conditions from the end of November until beginning of May!

Obertauern is situated in the fantastic Salzburg mountain world at altitudes between 1630 m and 2313 m. There you will also have great après ski, exciting nightlife, modern hotels, top wellness and fitness facilities and last but not least a wonderfully relaxed holiday atmosphere!

We have organized a skiing weekend in the beautiful hotel "Das Seekarhaus"

[www.seekarhaus.at](http://www.seekarhaus.at) which is situated in the middle of the mountains. A limited number of hotel rooms are reserved, so please book today!

Come and enjoy together with your friends and business partners a great, unforgettable weekend with lots of snow, fun and "Jägertee".

**For booking contact:**  
[info@icm.ch](mailto:info@icm.ch)

★★★★ SUPERIOR  
**Das seekarhaus**  
EIN MYTHOS IN SILBER





## 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 2012



**JEANETTE DUTTLINGER**  
Congress Organizer



**SUSANN SCHMID**  
Congress Assistant



**SIBYLLE ZIMMERLI**  
Congress Assistant



**CLAUDIA GERSTENDÖRFER**  
Congress Assistant



**CORINNE KONRAD**  
Congress Assistant



**MIRJAM WAGNER**  
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WRF  
2011



## 6th World Recycling Forum WRF 2011 International Conference & Exhibition on Electronics, Battery and Car Recycling

November 15 – 18, 2011, Hong Kong

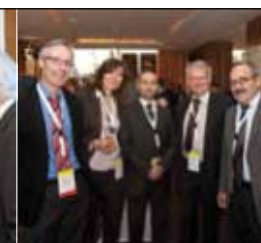
The next top quality **recycling forum** will focus on:

- How to invest into the raw materials business in Asia
- OEM's success and challenges regarding recycling
- Update of the booming recycling business in China and India
- Best available technologies for dismantling, sorting and recycling
- Global trade and transboundary movement of raw materials and waste
- Update on worldwide recycling laws and regulations

An **exhibition** area is integrated into the conference facility, where vendors meet their clients. Cocktails receptions and a networking dinner create an excellent atmosphere to get in touch with your business partners, friends and competitors. **Plant tours** to leading manufacturing and recycling companies in the vicinity of Hong Kong, Shenzhen and Guangzhou are offered to all participants.

ICM AG, Schwaderhof 7, 5708 Birrwil, Switzerland www.icm.ch, info@icm.ch, +41 62 785 10 00

IARC  
2012



## 12th International Automobile Recycling Congress IARC 2012

March 21 – 23, 2012, Budapest, Hungary

The next top quality **congress** in ELV recycling will focus on:

- How do car manufacturers and the industry close the recycling loop?
- New cars and new recycling technologies
- Where are the new cars sold? – Where are they going to be recycled?
- Best available recycling technologies
- Reports about illegal export of wrecked vehicles
- Hybrid vehicle dismantling and parts reuse
- European ELV Directive – A monster with no teeth?
- Recycling – High-tech or low-cost technology?

An **exhibition** area is integrated into the conference facility, where vendors meet their clients. Cocktail receptions and a networking dinner create an excellent atmosphere to get in touch with your business partners, friends and competitors.

**Plant tours** to leading recycling companies and car manufacturers in the vicinity of Budapest are offered to all participants.

ICM AG, Schwaderhof 7, 5708 Birrwil, Switzerland, www.icm.ch, info@icm.ch, +41 62 785 10 00



SPONSORS:

