

14th International Electronics **Recycling Congress IERC 2015**

January 21 – 23, 2015, Salzburg, Austria





Patronaae:

DIGITALEUROPE

European Committee of Domestic Equipment Manufacturers (CECED)

European Electronics Recyclers Association (EERA)

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

Global Lighting Association

Japan Electronics and Information Technology Industries Association (JEITA)

PlasticsEurope

Verband Deutscher Metallhändler e.V. (VDM) WEEE Forum























































WELCOME ADDRESS

ANDRÄ RUPPRECHTER

Federal Minister for Agriculture, Forestry, Environment and Water Management Austria It is a great pleasure for me to welcome you again here in Salzburg.

In the first year following the national implementations of the recast of the EC Directive on waste electrical and electronic equipment (WEEE) I will highlight one of the most important goals of the new Directive, the prevention of illegal shipment of WEEE.

For the purposes of the European waste hierarchy, the primary goal of a sustainable environmental and resource policy is that goods no longer needed by the owner are not disposed of but reused or made available for reuse so as to reduce the volume of waste accruing.

In many cases, however, waste and hazardous waste, declared as "used goods" are exported to Africa, Asia or Eastern Europe. They constitute "stealth" illegal exports aimed at disposing of those wastes at a low price in these countries while circumvent-

ing the European waste management regulations.

Discarded goods are often not reused but wastes are recycled or disposed of under disastrous environmental and health conditions. Valuable metal-containing components are removed; the residual waste is mostly deposited illegally. The classification as waste or nonwaste depends essentially on the EU legislation on waste. WEEE with environmentally relevant amounts of hazardous substances (e.g. asbestos, oils, ammonia, CFCs/ HFCs), are considered hazardous waste, whose export to non-OECD countries is prohibited according to the European Waste Shipment Regulation.

Importing countries, in most cases developing or newly industrialized countries usually lack the technical infrastructure for environmentally sound waste management. Improper disposal or recov-

ery of waste threatens human health and the environment. Therefore industrialized countries are called upon to prevent illegal waste shipments. Future will show how the new WEEE Directive will give us guidance on transboundary shipments of used electric and electronic equipment. The three days of the 14th International Electronic Recycling Congress are going to be enriching. The Congress is a very important event and I am convinced we may look forward to many interesting presentations, exhibitions as well as mutually fruitful discussions and collaboration. Have a nice and successful

time in Salzburg.







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 14th International Electronics Recycling Congress.

On one hand we see that our industry is facing the implementation and enforcement of uniform, clear global standards.

On the other hand we see, or better we should ask: "What has gone wrong after more than 12 years of the WEEE directive and its revision?"

From the viewpoint of the recycling industry, the WEEE set reliable standards and consequently formed a good basis for investment. In the meantime, a whole secondary industry has arisen with recycling systems and the creation of one treatment standard after the other (on top of the WEEE standard).

The recycling industry has grown from being a niche

business to full industrialisation, made investments and needed the growing WEEE material stream to amortise and develop its business.

In the past, the leverage for financing was the positive value of the WEEE waste stream. This added value made it possible to finance the whole collecting, logistics and recycling value chain and, in addition, some indirect activities like recycling and collecting systems, creating new standards.

Moreover, the recycling industry took over a part of the producers' responsibility.

Looking to the future, we see that WEEE materials are likely to become less valuable and contain less (precious) metals, but still offer a variety of polymers. The vast majority of obsolete WEEE already has a negative value, considering the cost of collection and recycling. In addition, the recycling process will become much more difficult and costly because of the continuing

trend towards size reduction and miniaturization.

The recycling industry is currently facing numerous challenges:

- Are the WEEE Directive and the recycling industry on the right track?
- How do we increase the volume collected for the WEEE material stream?
- Why are we exporting more and more WEEE to substandard treatment regions? How can we stop this and who can enforce it?
- What needs to be done to make investments in new technologies and new treatment standards financially viable?
- Can the recycling industry survive with the old business model of real recycling, simple trading and exporting – or does the industry need to re-invent itself?

But the manufacturing industry also needs to tackle some various challenges:

- How do we increase producer responsibility?
- How do we create real ECO Design and could it be a serious game-changer?
- Improved use of recycled plastics
- Finding the way towards the "circular economy"

In other words: the industrialization of the whole WEEE industry governed by worldwide, clear, lean and effective processes and standards has already begun. In the future we will see that this value chain will be expanded on both sides towards reuse, refurbishment, services and raw materials.

In our industry we need common knowledge about market developments and technologies, raw materials, commodity prices and legal requirements for collection, transportation and recycling. We also need to consider the constant changes in the electronics products we are talking about.

IERC 2015 provides you with an ideal platform to discuss these issues. It is a growing, innovative, neutral and highly effective platform for meeting both clients and competitors, listening to market trends and the news of the speakers, holding discussions with authorities, seeing the latest products the exhibitors have to offer – and making business in a relaxed atmosphere.

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



GUEST SPEAKER



"Seeing our planet from space puts humanity's common challenges into perspective"

Astronaut Ron Garan, who lived and worked in space for 178 days, is a highly decorated Fighter Pilot and Test Pilot, Explorer, Entrepreneur and Humanitarian who believes that appropriately designed and targeted social enterprise can solve many of the problems facing our world.

He flew on both the US Space Shuttle and the Russian Soyuz spacecraft, traveling 71,075,867 miles in 2,842 orbits of our planet during his 178 days in space and 27 hours and 3 minutes of EVA during four spacewalks.

"As I looked back at our Earth from the orbital perspective, I saw a world where natural and man-made boundaries shrunk. I saw a world becoming more and more interconnected and collaborative, a world where the exponential increase in technology was making the impossible possible on a daily basis. Thinking about the next 50 years, I imagined a world where people and organizations set aside their differences and destructive competitive inclinations, and work together toward their common goals. After all, each and every one of us is riding through the Universe together on this Spaceship we call Earth, we are all interconnected, we are all in this together and we are all family" - Ron Garan.

Ron Garan is involved in various environmental projects. Amongst others he is the founder of the "Manna Energy Foundation", a non-profit environmental organization to help poverty alleviation through the provision of renewable energy, biogas reactors, high efficiency cook stoves, clean water and sanitation.

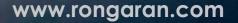
He also founded "Fragile Oasis" to use the perspective of our planet from space, to inspire people on Earth to take better care of the environment and each other.











KEY MESSAGES



IBM Corporate Environmental Affairs Manager Environmental Policy & Programs Europe & Japan Spain

VICTOR DUART

"Recycling of naturally scarce essential materials for the electronics industry is key for its innovation and progress"



National Taiwan University Department of Mechanical Engineering Taiwan

"Innovation is the key for eco-recycling of e-waste"





STEFAN-GEORG FUCHS

Aurubis AG
Executive Director Complex
Materials Recycling
Precious Metals
Germany

"Miniaturisation and more complex material compositions of e-products will become a major challenge for both, collectors and recyclers"

ROBIN WIENER

ISRI – Institute of Scrap Recycling Industries, Inc. President USA

"Responsible recycling results from a commitment to health & safety, environmental compliance & quality"





DAVID HIGGINS

INTERPOL Environmental Crime Programme France

"How to improve law enforcement regarding transboundary waste shipment"

NORBERT ZONNEVELD

EERA Executive Secretary Netherlands

"Expectations what recyclers can do are high, so let's create a fair level playing field"



INTERNATIONAL STEERING COMMITTEE



DR VIKTOR HAEFELI Chairman of the Steering Committee IERC SMART RESOURCES Switzerland



STEPHANE BURBAN Glencore AG Switzerland



DR SVEN GRIEGEREARN Elektroaltgeräte Service GmbH
Manager WEEE Services
Germany



VENKATESHA MURTHY Vans Chemistry Pte. Ltd. Managing Director Singapore



VICTOR DUART
Vice-Chairman of the
Steering Committee IERC
IBM Corporate Environmental Affairs
Manager Environmental Policy &
Programs Europe & Japan, Spain



ROGER BURRI Metal Depot Zurich AG President Switzerland



KLAUS HIERONYMI
Vice Chairman of the Lecture Group
Hewlett-Packard
Global Resource Efficiency and
Circular Economy Strategies



WENDY NEU Hugo Neu Corporation Chief Executive Officer USA



MANFRED BECK
Recycling International
Editor
Netherlands



JEAN COX-KEARNS
Chairman of the Lecture Group
DELL Global Takeback
Director of Compliance
Ireland



DR JACO HUISMAN
Delft University of Technology
Associate Professor
Netherlands



DR ANDREAS RÖTHLISBERGER SENS Foundation President Switzerland



OLOV BOMAN
Boliden Commercial AB
Manager Secondary Raw
Materials
Sweden



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
Executive Director Complex
Materials Recycling
Precious Metals
Germany



DR PHILIP MORTON
WEEE Forum
President
Belgium



NORBERT ZONNEVELD
EERA
Executive Secretary
Netherlands



For the participants of the congress a number of rooms are held at a discounted rate if you register before December 15, 2014. If you wish, you may also extend your stay at the same rates.

IMPORTANT NOTICE:

We have been alerted that unofficial housing providers are trying to contact IERC delegates and exhibitors claiming to be associated to ICM and can secure hotel rooms at designated IERC hotels in Salzburg. These companies are not authorized to represent ICM nor IERC. Please note that we have no affiliation with any housing coordinator. If you have any concerns, contact us at info@icm.ch.

HOTEL ACCOMMODATION



The 14th International Electronics Recycling Congress IERC 2015 will be held at the:

Salzburg Congress

Auersperastrasse 6 5020 Salzburg, Austria

Phone +43 662 889870 +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







www.sheraton.com/salzbura next to Salzburg Congress



Hotel Bristol Salzburg *****

Makartplatz 4, 5020 Salzburg Phone +43 662 873557 www.bristol-salzburg.at 5 minutes walking distance to Salzburg Congress





Hotel Crowne Plaza Salzburg ****

Rainerstrasse 6–8, 5020 Salzburg Phone +43 662 889780 www.imlauerhotels.com 2 minutes walking distance to Salzburg Congress

Fanny-von-Lehnert-Strasse 7, 5020 Salzburg







Best Western Hotel Imlauer **** Rainerstrasse 12, 5020 Salzburg

www.wyndhamgrandsalzburg.com

Phone +43 662 46880

Phone +43 662 88992 www.imlauerhotels.com (non smoking hotel) 5 minutes walking distance to Salzburg Congress

10 minutes walking distance to Salzburg Congress

Hotel WYNDHAM Grand **** (formerly Radisson BLU)









Hotel Achat Plaza Zum Hirschen ****

Saint Julien Strasse 21–23, 5020 Salzburg Phone +43 662 889030 www.zumhirschen.at 5 minutes walking distance to Salzburg Congress



Motel One Salzburg-Mirabell***

Elisabethkai 58–60, 5020 Salzburg Phone +43 662 885200 salzburg-mirabell@motel-one.com 10 minutes walking distance to Salzburg Congress



CONGRESS PROGRAM IERC 2015

WEDNESDAY, JANUARY 21, 2015

08.00 – 09.30 Registration and welcome coffee in the exhibition area

09.30 – 10.30 "Welcome and Introduction"

Dr Viktor Haefeli, Chairman of the Steering Committee



GUEST SPEAKER

"Seeing our planet from space puts humanity's common challenges into perspective"

Ron Garan, Impact CoLab, Retired NASA Astronaut, USA

Moderator: Jean Cox-Kearns, DELL Global Takeback, Ireland

Ron Garan, who lived and worked in space for 178 days, has a unique perspective of our impact on the Earth from Space. He is a highly decorated Fighter Pilot and Test Pilot, Explorer, Entrepreneur, Environmentalist and Humanitarian who believes that appropriately designed and targeted social enterprise can solve many of the problems facing our world.

PRESENTING THE GREEN COWBELL AWARD

10.30 - 11.00 Coffee break in the exhibition area

11.00 - 12.30 KEYNOTE SPEAKERS

"An overview of Glencore's metal business"

Telis Mistakidis, Glencore, Switzerland

Moderator: Roger Burri, Metal Depot Zurich AG, Switzerland

"How to improve law enforcement regarding transboundary waste shipment"

David Higgins, INTERPOL Environmental Crime Programme, France

Moderator: Dr Marco Buletti, Federal Office for the Environment (FOEN), Switzerland

12.30 - 14.00 Lunch in the exhibition area

	Session 1: <u>Regional Developments</u> Session Chairman: Norbert Zonneveld, EERA, Netherlands	Moderator: Manfred Fahrner, ALBA Electronics Recycling GmbH, Germany
14.00 – 14.30	"Recycling in Kenya – Challenges and opportunities one year on, and an overview of other key developments in Africa" Prof. Margaret Bates, University of Northampton, United Kingdom	"New air separation and screening solutions for WEEE" Olaf Drusche, JÖST GmbH + Co. KG, Germany "Separation of meatballs from (WEEE) shredder material" Christian Hillinger, IFE Aufbereitungstechnik GmbH, Austria
14.30 – 15.00	"Collection of WEEE in CEE – Difference between the East and Western Europe" Zbigniew Milkiewicz, ELEMENTAL Holding SA, Poland	"Different sorting technologies for e-scrap & new tasks in the sector of XRF-Sorting Techno ogy" Manuela Suttnig, REDWAVE, a division of BT-Wolfgang Binder GmbH, Austria
15.00 – 15.30	"Sustaining the US electronics recycling industry: New challenges for a maturing market" Eric Harris, ISRI, USA	"New solutions in electronics recycling – An automated system for sorting of valuable commodities from flat screens" Felix A. Hottenstein, MSS, Inc., USA
15.30 – 16.00	Coffee break in the exhibition area	

COMPANY SPOTLIGHT TALKS

Kuusakoski WEEE operations"

Jyri Talja, Kuusakoski Oy, Finland

Moderator: Dr Sven Grieger, EARN

Elektroaltgeräte Service GmbH, Germany

"100 years of recycling in Finland and

"Closing the loop through cross-sector

industries collaborating for success"

partnerships: Not-for profit and international

Olivier Vanden Eynde, WorldLoop, Belgium

POOLING PARTNERS

17.00 – 18.30 Cocktail reception in the exhibition area sponsored by

Session Chairman: Dr Andreas Röthlisberger, SENS Foundation, Switzerland

redesign for global excellence by 2020"

"Who owns the waste – Makes the profit?

Dr Philip Morton, WEEE Forum, Belgium

Producer responsibility – Time for an

19.30 Networking dinner

16.30 - 17.00

Session 2: WEEE 2020

16.00 – 16.30 "WEEE 2020 – European WEEE value chain

overdue paradigm shift?"

Michael Krug, 1cc GmbH, Germany

CONGRESS PROGRAM IERC 2015

THURSDAY, JANUARY 22, 2015

08.00 - 09.00	Welcome coffee in the exhibition area
	Session 3: <u>Technical Innovations 1</u> Session Chairman: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore
09.00 - 09.30	"Getting every last drop of value – Closing the recycling loop using the best available technology" Dr Sophie Purser, PhosphonicS, United Kingdom
09.30 – 10.00	"Case study: Recovery of metals from electronics waste using DC plasma arc technology" Dr Tim Johnson, Tetronics International, United Kingdom
10.00 – 10.30	"Eco-recycling of precious metal from e-waste" Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan

09.30 – 10.00	"Case study: Recovery of metals from electronics waste using DC plasma arc technology" Dr Tim Johnson, Tetronics International, United Kingdom				
10.00 – 10.30	"Eco-recycling of precious metal from e-waste" Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan				
10.30 - 11.00	Coffee break in the exhibition area				
	Session 4: <u>Technical Innovations 2</u> Session Chairman: Stefan-Georg Fuchs, Aurubis AG, Germany	COMPANY SPOTLIGHT TALKS Moderator: Olov Boman, Boliden Commercial AB, Sweden			
11.00 – 11.30	"What does the new WEEE directive mean for plastic recycling?" Dr Rainer Koehnlechner, Hamos GmbH, Germany	"Towards harmonisation – Private European initiative filling the gap of WEEE2" Meike Ruoff and Romain Letenneur, WEEElogic GmbH, Germany			
11.30 – 12.00	"4 innovations in e-waste recycling over 10 years" Chris Slijkhuis, Müller-Guttenbrunn GmbH, Austria	"Amifox Physical Commodity Exchange, the trading platform for physical commodi- ties – Also the various recycling products" Markus Blaser, Amifox Physical Commodity Exchange			
		"Analysis of e-scrap materials – Benefits of chemical decomposition by microwave against classic burning methods" Patrick Sauer, IDO-Lab GmbH, Germany			

12.00 - 13.30 Lunch in the exhibition area

Session 5: LCD & Lamp Recycling Session 6: Business Tools & Risk Management Session Chairman: Dr Viktor Haefeli, Session Chairman: Victor Duart, IBM Corporate Environmental Affairs, Spain Smart Resources, Switzerland 13.30 - 14.00 "Where in North America will all the "Setting the agenda for R&D" end-of-life LCDs and lamps go" Arve Aasmundseth, Elretur Environment Fund, Joe Yob, 3S International, LLC, USA 14.00 – 14.30 "Innovation project to build LCD "Recycling of strategic metals from e-scrap: recycling pilot in Denmark" Dynamic modelling to support strategic Dr Lisa O'Donoghue, ALR Innovations/ corporate decisions" Jean-Marc Hensch, Votechnik, Ireland Swico Recycling, Switzerland 14.30 - 15.00 "Mercury in the spotlight" "ADR 2015, WEEE is now Dangerous" Dr Tim McDonnell, University of Central Dan Cronin, Pooling Partners, Netherlands Lancashire, United Kingdom 15.00 - 15.30 Coffee break in the exhibition area

Klaus Hieronymi, Global Resource Efficiency Strategies, Hewlett-Packard Company, USA

"Industry developments and closed loop recycling"

Jean Cox-Kearns, DELL Global Takeback, Ireland

15.30 - 17.00 PODIUM "MOVING TOWARDS CIRCULAR ECONOMY"

Introduction:

Participants: Maria Banti, European Commission, Belgium Dr Danilo Bonato, Remedia, Italy Dr Christian Hagelüken, Umicore AG & Co. KG, Germany Eric Harris, ISRI, USA

Farewell cocktail in the exhibition area sponsored by from 17.00



WHO SHOULD ATTEND?



- Original electronic equipment manufacturers (OEMs)
- Electronic components suppliers
- Electronic equipment importers and dealers
- 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
- Consultants







Do not miss this perfect opportunity to socialize with your



Meet friends and business partners in a







SIDE EVENTS

FRIDAY, JANUARY 23, 2015

Participants of the IERC 2015 will have the chance to attend one of the following side events:

WORKSHOPS

(will be held at the Hotel Sheraton and will take place with a minimum of 8 participants)

09.00 - 12.30	"CWIT: Countering WEEE illegal trade"
09.00 - 12.00	"Substance restrictions"
09.00 - 13.00	"The transport regulations of lithium batteries in WEEE"

PLANT TOURS

(buses leaving in front of the Hotel Sheraton)

08.30 - 14.45	Montanwerke Brixlegg AG, Brixlegg
08.00 - 17.15	Müller-Guttenbrunn, Metran and MBA Polymers, Amstetten/Kematen

To register, please use the registration form of ICM AG.

LORKSHOP













CWIT: Countering WEEE illegal trade

The workshop will provide participants with an overview of the key findings from legal, crime analysis and market

assessment of the CWIT project with the recycling industry and public authorities. The outcomes and proposals from this

event will lead to clear recommendations for policy makers and enforcement agencies to fight illicit trade in WEEE.



WHO SHOULD ATTEND THE WORKSHOP?

- Electronics recyclers
- Producer responsibility organisations
- Authorities
- Academia
- Other interested parties

The illegal trade in waste electrical and electronic equipment (WEEE) is a serious concern and challenge for many authorities, industries, academia and the public at large. The security research project CWIT (Countering WEEE Illegal Trade) funded under European Union's FP7 aims to identify policy, regulatory, procedural and technical gaps as observed in today's business environment. CWIT will suggest tangible improvements by bringing together a group of experts skilled in the fields of WEEE and crime analysis, environmental compliance, supply chain security and policy development.

The workshop will include two key topics: First a discussion on the results from the project's market assessment on the trends in WEEE generation and the different types of WEEE flows. Second, findings from the legal and crime analysis will allow participants to explore various recommendation options that support efforts to counter the illegal trade of e-waste in practice.

This workshop will bring together the key stakeholders of the WEEE industries and seeks their practical feedback on the policy recommendation drafts. The project ends in August 2015.

For more information on the project, see: www.cwitproject.eu

WORKSHOP



Dr Beate KummerREACH expert and toxicologist



Substance restrictions

Workshop on the substance restrictions in REACH, RoHS, for packaging and other products

Moderated by	Dr. Dipl. Chem Beate Kummer, Kummer:Umweltkommunikation GmbH		
Date	Friday, January 23, 2015		
Time	09.00 – 12.00		
Location	Hotel Sheraton Salzburg		
Price	EUR 190.— (incl. coffee break and certificate)		
Organizer	KUMMER		

WHO SHOULD ATTEND THE WORKSHOP?

- Recyclers
- Take-back systems
- Public authorities
- Auditors and advisers from private organizations
- Interested parties

There are substance regulations and restrictions not only for electric and electronic devices, but also for other products such as batteries and cars.

The Battery Directive, the ELV Directive (End-of-Life Vehicle Directive), the WEEE and RoHS (which restrict the use of certain hazardous substances), and the Packaging Directive form the legal framework that has resulted in well-known product requirements and examples of producer responsibility

Moreover, annex XVII of the REACH regulation has been in effect since 2007. The restriction of certain hazardous substances (e.g. lead) in electrical and electronic equipment aims to minimize the environmental impact of waste electrical and electronic equipment by reducing the quantities of four heavy metals and two flame retardants.

To date, the existing product regulations have not been harmonized – and this will be discussed in the workshop.

You will receive a certificate to show your participation in this workshop.

The transport regulations of lithium batteries in WEEE



Kristel Vermeersch



WORKSHOP

WHO SHOULD ATTEND THE WORKSHOP?

- Anyone collecting and shipping WEEE containing lithium batteries
- Anyone shipping lithium batteries
- Top managers of recycling companies
- Take-back systems
- Authorities
- Auditors and advisers

TOPICS

- Overview of the International Transport Regulations (UN / Road / Air / Sea) and differences with "hazardous waste regulations"
- Classification and identification of lithium batteries and other types of batteries
- List of dangerous goods and special provisions for lithium batteries shipped for disposal or recycling
- Packing requirements for waste lithium batteries
- Marking and labelling requirements for waste lithium batteries and WEEE containing lithium batteries
- Transport documents

You will receive a certificate to show your participation in this workshop.

MONTANWERKE //> BRIXLEGG

PLANT TOURS IERC 2015

FRIDAY, JANUARY 23, 2015

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 Salzburg Congress

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

THE HIGH QUALITY STANDARD IS RECOGNISED ALL OVER THE WORLD



Montanwerke Brixlegg AG is a secondary smelter and processes more than 150.000 tons of copper containing scrap. The products that result from this process provide the raw material for a wide range of application possibilities in various fields.

More information:

www.montanwerke-brixlegg.com

Montanwerke Brixlegg AG Werkstraße 1 · 6230 Brixlegg · Austria Tel: +43 5337 6151 115 · Fax +43 5337 6151 102 office@montanwerke-brixlegg.com

 $[\]ensuremath{^{*}}$ No guarantee on arrival time due to traffic conditions.

PLANT TOURS IERC 2015

FRIDAY, JANUARY 23, 2015

MÜLLER-GUTTENBRUNN. METRAN AND MBA POLYMERS





08.00 Departure by bus to Müller-Guttenbrunn Group

10.30 Arrival at Müller-Guttenbrunn Group

10.30 - 15.00Visit 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 Salzbura Airport 17.15 Arrival at Salzburg Congress

The Müller-Guttenbrunn Group is the largest E-waste processor in Central and South Eastern Europe with an unprecedented recycling depth.

The Müller-Guttenbrunn facility in Amstetten de-pollutes the E-waste with the patented Smasher™, a new and specialized shredder with a design capacity of 80,000 MT's. The selective shredder recovers a high quality ferrous metal scrap with very little loss of copper and other non-ferrous metals in the ferrous fraction.

The shredder residues are transported to **Metran** to be further processed into a range of non-ferrous concentrates. 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 – 90% and protect the environment up to 4,8 tons CO₂ emissions, compared to the production of one ton of "virgin" plastics from petrochemicals. The MBA Polymers plastics recycling facility covers approximately 20,000 m², with a processing capacity of some 50,000 tons per year with a workforce of 100 people.

www.mgg-recycling.com, www.mbapolymers.com

* No guarantee on arrival time due to traffic conditions.



WEEE recycling with unprecedented recycling depth





- Patented Smasher Technology for de-pollution
- Latest shredder and separation technologies
- Processing Shredder Residues
- Presence in Central and South-**Eastern Europe**





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



Responsibility starts with the raw material

Plasic rich fractions from durable goods.





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

EXHIBITION AND POSTER PRESENTATIONS

LAYOUT EXHIBITION AS PER SEPTEMBER 29, 2014







The exhibition area provides your company with the perfect opportunity to reach key industry decision makers. Promote your products to all congress attendees. The fees for an exhibition booth for the duration of the congress are:

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

Poster presentation (wall rental) EUR 290.-/350.-

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







EXHIBITORS

AS PER SEPTEMBER 29, 2014























































































































Upcoming ICM Events:

Electronics Recycling Asia WRF 2014





www.icm.ch

15th International Automobile Recycling Congress IARC 2015

March 25 – 27, 2015
Berlin, Germany

20th International Congress for Battery Recycling ICBR 2015







Registration for the congress should be made by means of the registration form. Participants registering and paying before November 30, 2014 will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

NOV. 30 ER BY DISCO REC. 2014 OUNT FIVE RATE

REGISTRATION FEES

	before		after		
Congress fee		Nov. 30, 2014		Nov. 30, 2014	
Fee for participants Fee for speakers Fee for students	EUR EUR EUR	1'590 990 690	EUR EUR EUR	1'690 1'090 790	
Networking dinner (Jan. 21, 2015) Networking dinner for spouse (Jan. 21, 2015)	EUR EUR	100.– 120.–	EUR EUR	120 140	
Workshops (Jan. 23, 2015) CWIT: Countering WEEE illegal trade Substance restrictions Transport regulations of lithium batteries	EUR EUR EUR	50 190 250	EUR EUR EUR	70 250 290	
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