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IERC 2017

16th International Electronics Recycling Congress IERC 2017

January 17 – 20, 2017, Salzburg, Austria









Patronage:

- DIGITALEUROPE
- EucoLight
- 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
- Institute of Scrap Recycling Industries (ISRI)
- Japan Electronics and Information Technology Industries Association (JEITA)
- PlasticsEurope
- Verband Deutscher Metallhändler e.V. (VDM)
- WEEE Forum

MBA POLYMERS – BECAUSE SUSTAINABILITY MATTERS
SIMS RECYCLING SOLUTIONS
Aurubis – Our Copper for your Life
RLG – REVERSE LOGISTICS GROUP
BOLIDEN
GLENCORE
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geep – Global Electric Electronic Processing
EREMA – PLASTIC RECYCLING SYSTEMS
PP – POOLING PARTNERS – FABER HALBERTSMA GROUP
umicore – Precious Metals Refining
blu box – PLUG & RECYCLE
MGG – Müller-Guttenbrunn Group
DELL
MONTANWERKE BRIXLEGG

WELCOME ADDRESS



Picture: BMLFUW/Newman

ANDRÄ RUPPRECHTER
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 European waste policy. On the other side the production of goods depends primarily on the constant exploitation of raw materials, in many cases in third countries. 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 reuse and recovery in the goods production phase already and thus helps prevent harmful substances. In case of WEEE we have to face the challenge to differ between real reuse and illegal shipment to third countries only under the false pretences of reuse. Given the extreme economic and social inequalities that we are confronted today in many societies, the option to export electrical equipment and components is an economically and socially acceptable alternative if it can be assured that a sustainable waste management is carried out. The implementation of sustainable business models at reuse markets today can help to develop regions and to give them access to commercially or socially important information.
But in many cases the term reuse is abused to illegal disposal of unreusable WEEE in third countries.
Often called destination countries of these illegal exports under the disguise of reuse are West African countries like Nigeria and Ghana, but also India, China, and Vietnam; with devastating effects on the environment and health in these countries. Thus, according to Basel Action Network, over 80% of PCs and PC monitors which are exported to Nigeria with the classification "for reuse", are not reused, but must be scrapped.
The consequences of these illegal exports are detrimental environmental pollution and inhumane and hazardous working conditions in destination countries and additionally the loss of valuable resources in Europe and the further destruction of resources. In this respect the recast of the WEEE Directive gave us proper instruments to prevent illegal shipment of WEEE, but we have to use it more consequently.
The International Electronics Recycling Congress in Salzburg has become a major event in the European waste community. The three days are going to be enriching. 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.

MINISTERIUM FÜR EIN LEBENSWERTES ÖSTERREICH







FOREWORD



JEAN COX-KEARNS
Chairman of the Steering Committee IERC

To those of you returning to the IERC welcome once again to Salzburg, for those of you who are here for the first time we welcome you to the home of "Amadeus Mozart" and "Red Bull".

On behalf of the Steering Committee and Conference Organisers I welcome you all to Salzburg in January 2017 for our 16th International Electronics Recycling Congress.
This year we again welcome EEE producers, recyclers, equipment manufacturers, recycling associations, standards bodies, NGO's and regulators. The Congress Centre in Salzburg, located right in the heart of the wonderful historic city of Salzburg continues to create an environment that fosters successful dialogue on the many issues facing the recycling industry and also an atmosphere for successful business discussions.

As we continue on the road towards maturity of the recycling industry with new and updated regulations, with more standards operational, with more technology in play, we continue to see challenges in the market. The downward turn in the commodities market continued to the end of 2015 putting more pressure on the profitability of the recycling industry, however the first few months of 2016 have shown a small upturn in the markets.
We continue to see momentum in Circular Economy initiatives with more and more producers trying to recover products, parts and materials from the recycling stream in a way that they can maximise the re-use and remanufacturing of these products.
We are seeing more regulations introduce aggressive targets to increase volumes of materials being recycled.

As we look towards the goals of the Circular Economy – Actions that will contribute to "closing the loop" of product lifecycles through greater recycling and re-use, and bring benefits for both the environment and the economy. An initiative that commits funding of over 650 million under Horizon 2020 and 5.5 billion under the structural funds – Where does the EEE recycling industry fit? How do we support the goals of this EU initiative? We see more countries in the EU getting closer to implementing WEEE like Turkey and we see the U.K. chose to leave the EU – Will the U.K. no longer have a WEEE obligation? In the U.S. we see no further progress to regulate the states without regulations but we do see challenges in the recycling industry.
This is an evolving industry with changing needs and IERC 2017 will bring lots of relevant topics and discussions to you in Salzburg. I look forward to seeing you there.







INTERNATIONAL STEERING COMMITTEE



JEAN COX-KEARNS
Chairman of the Steering Committee IERC
Reverse Logistics GmbH
Exec VP Compliance Solutions, Ireland



MANFRED FAHRNER
ALBA Electronics Recycling GmbH
Chief Sales Officer
Germany



VENKATESHA MURTHY
Vans Chemistry Pte. Ltd.
Managing Director
Singapore



SCOTT VENHAUS
Arrow Electronics, Inc.
Director, Quality & Compliance,
Global Logistics Services
USA



STEFAN-GEORG FUCHS
Vice Chairman of the Steering Committee IERC
Aurubis AG, Executive Director Recycling Raw Materials
Germany



DR SVEN GRIEGER
EARN Elektroaltgeräte Service GmbH
Manager WEEE Services
Germany



WENDY NEU
Hugo Neu Corporation
Chief Executive Officer
USA



JAN VLAK
WEEE Forum
President
Belgium



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



DR JACO HUISMAN
Delft University of Technology
Associate Professor
Netherlands



JONATHAN PERRY
Dell
Producer Responsibility Compliance Consultant
United Kingdom



NORBERT ZONNEVELD
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Executive Secretary
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STEPHANE BURBAN
Glencore International AG
Switzerland



STEPHAN KRAFZIK
Online-Magazin 320°
Publisher & Chief Editor
Germany



MARTIJN REINTJES
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Chief Editor
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CEO
Switzerland



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



DAVID SCUDERI
Samsung Electronics Europe
Head of Environment
United Kingdom



LOCATION OF THE CONGRESS







The 16th International Electronics Recycling Congress IERC 2017 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. Only 15 minutes from Salzburg Airport and 10 minutes from train station by taxi or bus. Direct trains available from Munich Airport (www.bahn.de) and Vienna Airport (www.oebb.at).

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

A number of rooms are held at a discounted rate by registering **before December 16, 2016** for the participants. 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




Sheraton Salzburg Hotel ***
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next to Salzburg Congress




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5 minutes walking distance to Salzburg Congress




Hotel Crowne Plaza Salzburg **
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Hotel Wyndham Grand **
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WHO SHOULD ATTEND?





- Original electronic equipment manufacturers (OEMs)
- Electronic equipment importers and dealers
- Reuse & refurbishment organizations
- Schemes and take back organizations
- 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
- Investors
- Consultants



KEYNOTE SPEAKERS

DR MIKE BIDDLE

Evok Innovations
Managing Director
Founder and Director of MBA Polymers, Inc.
USA



"Mining the Past to Secure the Future"

MAGNUS GISLEV

European Commission
Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs
Policy Officer – Resource Efficiency and Raw Materials
Belgium



"How EU Policies Contribute to the Economic Growth and Generation of Jobs in the European WEEE Recycling Industry"

AD REM
ADVANCED DESIGN OF RECYCLING MACHINES

PLASTICS RECOVERY & LCD RECYCLING





In 2013 2.6 Million tonnes of E-waste were collected in the EU. WEEE is considered as one of the fastest growing waste streams. With the correct machinery the recycling of WEEE can offer substantial opportunities in terms of making secondary raw materials. Ad Rem holds the knowledge to build those machines. Contact us today to see how we can help your company profit on E-waste.



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Rollout & Repair
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END-TO-END RANGE OF SERVICES FOR HIGH TECH PRODUCTS

GEODIS Contract Logistics unique 3 steps lifecycle management offers you added values from cradle to cradle. Beginning with Roll Out & Repair services for all types of technical products, GEODIS is a valid partner for the IT Industry in Europe. In addition, GEODIS has a strong focus on Roll Back and Reverse Logistics activities – offering Spare Parts harvesting, refurbishment, remanufacturing and remarketing services for our clients. Being a certified recycling company is another significant factor in making GEODIS a closed loop service provider for the high tech market.

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Berlin	**Böblingen**	**Düsseldorf**	**Dresden**	**Nieder-Olm**
Staging	IT Rollout & Repair	Spare Parts	Repair	Recycling

CONGRESS SCHEDULE

Time	Room "Europe" (2nd floor)	Room "Mozart" (ground floor)	Exhibition Hall (1st floor)
Tuesday, January 17, 2017			
13.00 – 14.00	Registration in the exhibition hall		
14.00 – 17.00	**Workshop:** "Implementing a R2, e-Stewards or WEEELABEX Management System and Getting it Certified" (Hotel Sheraton)		
17.00 – 19.00	Registration in the exhibition hall		
Wednesday, January 18, 2017			
08.00 – 09.30	Registration and welcome coffee in the exhibition hall		
09.30 – 10.00	**Welcome and Introduction**		Exhibition
10.00 – 10.45	**Keynote Speaker 1**		
10.45 – 11.15	Coffee break in the exhibition hall		
11.15 – 12.00	**Keynote Speaker 2**		
12.00 – 12.15	**Presenting of the "IERC HONORARY AWARD"**		
12.15 – 14.00	Lunch in the exhibition hall		
14.00 – 15.30	**Circular Economy**	**Technical Innovation**	
15.30 – 16.00	Coffee break in the exhibition hall		
16.00 – 17.00	**Critical Raw Materials**	**Tool Box Talks**	
from 17.00	**Cocktail reception in the exhibition hall sponsored by "Pooling Partners"**		
from 19.00	**Networking dinner "Wednesday Night Fever"**		
Thursday, January 19, 2017			
08.00 – 09.00	Welcome coffee in the exhibition hall		
09.00 – 10.30	**Safety**	**Supply Chain Transparency**	Exhibition
10.30 – 11.00	Coffee break in the exhibition hall		
11.00 – 12.30	**Country Reports**	**Does the Present WEEE Business Model Work?**	
12.30 – 14.00	Lunch in the exhibition hall		
14.00 – 15.00	**Sorting Technology**	**Reuse & Refurbishment**	
15.00 – 15.30	Coffee break in the exhibition hall		
15.30 – 17.00	**Podium Discussion "Transboundary Movement of Waste – Helping or Hindering the Development of a Circular Economy?"**		
from 17.00	**Farewell cocktail in the exhibition hall sponsored by "Pooling Partners"**		
Friday, January 20, 2017			
09.00 – 12.30	**Workshop:** "Lithium Batteries Transport & Safety Issues" (Hotel Sheraton)		
	Plant Tours: (buses leaving in front of the Hotel Sheraton)		
08.00 – 17.15	**Müller-Guttenbrunn, Metran and MBA Polymers, Amstetten/Kematen**		
08.15 – 15.00	**EREMA Engineering Recycling Maschinen und Anlagen GmbH, Ansfelden**		
08.30 – 14.45	**Montanwerke Brixlegg AG, Brixlegg**		

WORKSHOP





Implementing a R2, e-Stewards or WEEELABEX Management System and Getting it Certified

Moderator	Dwight Clark, Full Circle Compliance, LLC, USA
Date	Tuesday, January 17, 2017
Time	14.00 – 17.00
Location	Hotel Sheraton, Salzburg
Price	EUR 150.– per person EUR 190.– per person after November 30, 2016 (incl. coffee break)

Over the last ten years the e-scrap or e-waste industry has evolved with the collection schemes in the EU and North America driving the adoption of prescriptive standards and Environmental Health and Safety Management Systems (EHSMS). This has lead to the fundamental requirement of a management system for competitiveness. With this requirement, environmental issues and legislation have introduced additional dedicated control procedures for export and testing of devices for reuse. The prevalent standards include: e-Stewards – organized by the Basel Action Network; Responsible Recycling (R2) – organized by the group Sustainable Electronics Recycling International (SERI); WEEE Laboratory of Excellence (WEEELABEX) – Organized by the WEEELABEX Organization and supported by the WEEE Forum. All of the above groups supporting the standards are non-profit organizations related to the recycling of WEEE, to create a world where electronic products are reused and recycled in a way that promotes resource preservation; the well-being of the natural environment; and the health and safety of workers and communities.

This seminar examines various models of management systems integration in accordance with professional references ISO 9001, ISO 18001 and OHSAS 18001, creating a basis for future development of integrated management systems, and their involvement in various other processes within the organization. Expert speakers with direct expertise in not only the development and implementation of these systems but the auditing required for certification will provide views on the issues and potential solutions.

The workshop will be held with a minimum of 8 participants.

Participants will receive a certificate of attendance.

To register, please contact ICM AG.

CONGRESS PROGRAM

TUESDAY, JANUARY 17, 2017

13.00 – 14.00 Registration in the exhibition hall

14.00 – 17.00 **Workshop** "Implementing a R2, e-Stewards or WEEELABEX Management System and Getting it Certified"
Moderator: Dwight Clark, Full Circle Compliance, LLC, USA

17.00 – 19.00 Registration in the exhibition hall

WEDNESDAY, JANUARY 18, 2017

08.00 – 09.30 Registration and welcome coffee in the exhibition hall

09.30 – 10.00 **Welcome and Introduction**

Jean Cox-Kearns, Chairman of the Steering Committee

Dr Heinz Schaden, Mayor of the City of Salzburg, Austria

10.00 – 10.45 **KEYNOTE SPEAKER 1**

"Mining the Past to Secure the Future"
Dr Mike Biddle, Managing Director at Evok Innovations, USA
Founder and Director of MBA Polymers, USA

Moderator: Jean Cox-Kearns, Chairman of the Steering Committee

10.45 – 11.15 Coffee break in the exhibition hall

11.15 – 12.00 **KEYNOTE SPEAKER 2**

"How EU Policies Contribute to the Economic Growth and Generation of Jobs in the European WEEE Recycling Industry"
Magnus Gislev, European Commission, Belgium

Moderator: Stephane Burban, Glencore International AG, Switzerland

12.00 – 12.15 **PRESENTING OF THE "IERC HONORARY AWARD"**

12.15 – 14.00 Lunch in the exhibition hall

	Circular Economy **Session Chairman: Jonathan Perry, Dell, United Kingdom**	**Technical Innovation** **Session Chairman: Stephan Krafzik, Online-Magazin 320°, Germany**
14.00 – 14.30	"The Golden Triangle – Cooperation between Producer – Recycler – Authority", **Poul Bengt Petersen, Ragn-Sells Recyclables AB, Sweden**	"New Concept for the Treatment of Refrigerators" **Manfred Fahrner, ALBA Electronics Recycling GmbH, Germany**
14.30 – 15.00	"Challenges of Reuse of (W)EEE under the Aegis of the Circular Economy in Hungary" **Fanni Mészáros, CECED, Hungary**	"Higher Profits from Valuable WEEE Using Shock Wave Technology" **Stefan Eisert, ImpulsTec GmbH, Germany**
15.00 – 15.30	"Driving the Circular Economy through New Business Models" **David Scuderi, Samsung Electronics Europe**	"Pyrolysis as an Innovative Technology to Increase Metal Recycling from WEEE", **Peter Hense, Fraunhofer Institute UMSICHT, Germany**
15.30 – 16.00	Coffee break in the exhibition hall	
	Critical Raw Materials **Session Chairman: Dr Sven Grieger, EARN Elektroaltgeräte Service GmbH, Germany**	**Tool Box Talks** **Moderator: Martijn Reintjes, Recycling International, Netherlands**
16.00 – 16.30	"Prospecting Secondary Raw Materials in the Urban Mine and Mining Wastes" **Pascal Leroy, WEEE Forum (on behalf of the ProSUM consortium), Belgium**	"#Redefine_Electric_Engine_Recycling– A Different Approach to a Resource" **Fosco Tonetto, Panizzolo Recycling Systems Srl., Italy**
16.30 – 17.00	"WEEE – A Complex Resource Requires Adaptive Process Design" **Prof. Bernd Friedrich, RWTH Aachen University, Germany**	"Flame Retardants – Use, Regulatory Status and End of Life Challenges, Recycling Possible Pathways…" **Dr Philippe Salémis, EFRA – European Flame Retardants Association, Belgium** "Newly Developed Robotics Recycling of LCD Displays Emerging from the EC Funded ReVolv Pilot Action" **Dr Lisa O'Donoghue, Votechnik (ALR Innovations), Ireland**

from 17.00 **Cocktail reception in the exhibition hall sponsored by** POOLING PARTNERS FABER HALBERTSMA GROUP

from 19.00 **Networking dinner "Wednesday Night Fever"**

CONGRESS PROGRAM

THURSDAY, JANUARY 19, 2017

08.00 – 09.00 Welcome coffee in the exhibition hall

	Safety **Session Chairman: Isabelle Baudin, Federal Office for the Environment (FOEN), Switzerland**	**Supply Chain Transparency** **Session Chairman: Dr Jaco Huisman, Delft University of Technology, Netherlands**
09.00 – 09.30	"Lithium Ion Batteries in E-Waste: Safety Aspects" **Dr Jean-Pol Wiaux, Consultant, Switzerland**	"Conflict Minerals – The New European Legislation Affecting your Products", **Dr Ir Alain Vassart, ARCADIS Belgium nv, Belgium**
09.30 – 10.00	"ADR 2017 – How the Changes Affect the Collection of Dangerous WEEE", **Dan Cronin, Pooling Partners, Netherlands**	"The E-Waste Supply Chain: An Australian Perspective", **Carmel Dollisson, Australia and New Zealand Recycling Platform Ltd (ANZRP), Australia**
10.00 – 10.30	"Safety Challenges in the Processing of Hazardous WEEE" **Andreas Krebs, BLUBOX Trading AG, Switzerland**	"E-Trash Transparency Project – Using Geo-Location Devices to Track E-Waste Flows", **Jim Puckett, Basel Action Network, USA**

10.30 – 11.00 Coffee break in the exhibition hall

	Country Reports **Session Chairman: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore**	**Does the Present WEEE Business Model Work? What Needs to be Changed?** Interactive Session. Share your Views with the Experts and Give them Feedback on their Questions. **Moderators:** **Norbert Zonneveld & Lida Stengs, EERA**
11.00 – 11.30	"Chile – Upcoming EPR Regulation for Priority Waste Streams Including Electronics", **Daniel Ott, Reverse Logistics Group Americas, Colombia**	**Participants:** **Jaco Huisman, UNU – Scientist** **Niall McLoughlin, Government of Ireland – Legislator (invited)** **Johanna Terry, 1cc GmbH – Legal Compliance Expert** **Jan Vlak, President WEEE Forum – PRO Expert** **Françoise Weber, Veolia – WEEE Recycler (invited)**
11.30 – 12.00	"E-Scrap in Germany" **Axel Riemann, NOEX AG, Germany**	
12.00 – 12.30	"Success Stories from E-Waste Management in Latin-America: The Cases Colombia and Peru" **Heinz Böni, Empa, Switzerland & Edgar Fernando Erazo Camacho, Ecocomputo, Colombia**	

12.30 – 14.00 Lunch in the exhibition hall

	Sorting Technology **Session Chairman: Manfred Fahrner, ALBA Electronics Recycling GmbH, Germany**	**Reuse & Refurbishment** **Session Chairman: Sarah Cade, PC Rebuilders & Recyclers, USA**
14.00 – 14.20	"Processing to Win… Using Sensor-Based Sorting" **Eckhard Zeiger, TOMRA Sorting GmbH, Germany**	"Recyclers Information Center: Product Information as a Key to New Revenue Streams" **Thomas Opsomer, iFixit Europe, Germany**
14.20 – 14.40	"Is More Technology Really the Solution to the Challenges within Circular Economy?", **Johanna Reimers, Refind Technologies AB, Sweden**	"Global EEE Reuse and Recycling Challenges" **Gary Griffiths, Arrow Electronics, Inc., United Kingdom**
14.40 – 15.00	"Generating Value: Polymer Sorting of the WEEE-Shredder Residue with High-Capacity Laser Spectroscopy" **Jan Meyer, UNISENSOR Sensorsysteme GmbH, Germany**	

15.00 – 15.30 Coffee break in the exhibition hall

15.30 – 17.00 **Podium Discussion**

"Transboundary Movement of Waste – Helping or Hindering the Development of a Circular Economy?"

Moderator:
Stefan-Georg Fuchs, Aurubis AG, Germany

Participants:
Robin Ingenthron, WR3A – World Reuse, Repair and Recycling Association, USA
Jim Puckett, Basel Action Network (BAN), USA
Chris Slijkhuis, Müller-Guttenbrunn GmbH, Austria
Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium
Scott Venhaus, Arrow Electronics, Inc., USA

from 17.00 **Farewell cocktail in the exhibition hall sponsored by** POOLING PARTNERS FABER HALBERTSMA GROUP

CONGRESS PROGRAM

FRIDAY, JANUARY 20, 2017

09.00 – 12.30	**Workshop**	"Lithium Batteries Transport & Safety Issues" **Moderator: Jean-Pol Wiaux, Consultant, Switzerland**

	Plant Tours
08.00 – 17.15	**Müller-Guttenbrunn, Metran and MBA Polymers, Amstetten/Kematen**
08.15 – 15.00	**EREMA Engineering Recycling Maschinen und Anlagen GmbH, Ansfelden**
08.30 – 14.45	**Montanwerke Brixlegg AG, Brixlegg**

ANDRITZ

ANDRITZ MeWa at IERC
Leading WEEE recycling technologies





Innovative solutions for successful recycling projects. All kinds of electrical and electronic scrap – white and brown goods, computers, refrigerators or simply only cables – are catered for by ANDRITZ MeWa. At a very early stage we paved the way with recycling technology in accordance with the European WEEE Directive.

http://bit.ly/1POYzgt

Our recycling solutions for WEEE, refrigerators, cable crap, oil filters, tires, bio-waste and the production of RDF on YouTube.

ANDRITZ MeWa GmbH
Gechingen, Germany
Phone: +49 (7056) 925 0

info.mewa@andritz.com
www.andritz.com/mewa

WEDNESDAY NIGHT FEVER





Let us revive the age of disco!
So join us on **Wednesday, January 18** at a colourful networking dinner accompanied by a fantastic live band and show act.

Do not miss this perfect opportunity to socialize with your business partners and register for this evening!

Meet friends and business partners in a relaxed atmosphere!

WEEE Sorting Solutions

sesotec

New VARISORT

- multi-sensor sorting system
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- new features specially designed for WEEE applications





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protects environment and resources with environmentally friendly recycling over 20 years. Recycling is not an easy task, since recyclable materials and pollutants are often connected to each other. Therefore trust the recycling of electrical appliances to Saubermacher as a competent partner.

WORKSHOP







Lithium Batteries Transport & Safety Issues

Moderator	Jean-Pol Wiaux, Consultant, Switzerland
Contributors (Preliminary list)	Johan Van Peperzeel, Van Peperzeel bv, NL Claude Chanson, Recharge, Belgium Alois Grinschgl, Saubermacher, Austria
Date	Friday, January 20, 2017
Time	09.00 – 12.30
Location	Hotel Sheraton, Salzburg
Price	EUR 150.– per person EUR 190.– per person after November 30, 2016 (incl. coffee break)

Agenda: Subjects covered

INTRODUCTION

1. Inventory of Incidents
2. Lithium Batteries Properties and Safety Aspects

PREVENTION

3. Communication Tools as Preventive Measures: Good Practice Guidance
4. Electrical & Chemical Hazards Control: Technical Solutions

RESPONSE

5. Fire Protection: Active and Passive
6. Regulatory Issues during Transport and Storage: Packaging Requirements
7. Conclusions

The workshop will concentrate on Lithium Batteries used in Electrical and Electronic Equipment.
It will review the major characteristics of a Lithium Battery (primary and rechargeable) that may lead to thermal runaway and development of a fire.
It will inform the participants about the hazards and risks associated with the handling, the storage and the transport of Lithium Batteries and for these contained in equipment.
The objective of the workshop is also to supply Good Practices Guidance to the participants in order for them to take the appropriate measures to prevent an incident.
It will also describe the various means of first response in case of fire.

The workshop will be held with a minimum of 8 participants.

Participants will receive a certificate of attendance.

To register, please contact ICM AG.

EXHIBITING AND ADVERTISING







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 are:

Booth 6 m² (2 m x 3 m)	**EUR 3'650.–**
Booth 12 m² (3 m x 4 m)	**EUR 4'990.–**
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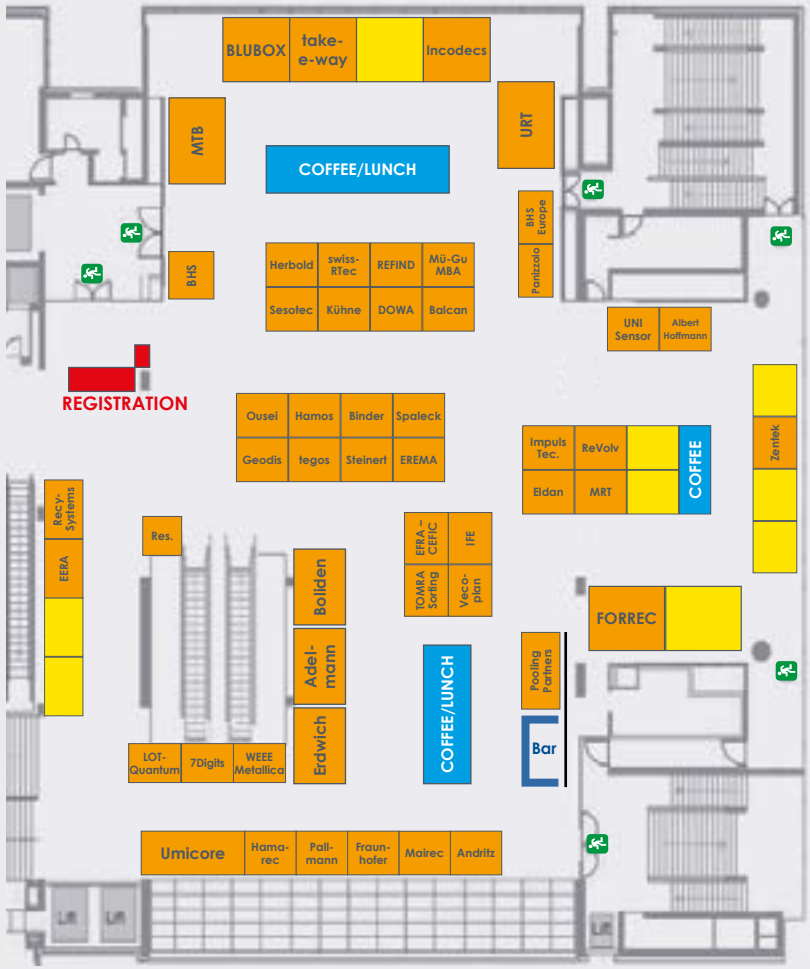
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LAYOUT EXHIBITION

AS PER SEPTEMBER 30, 2016



EXHIBITORS

AS PER SEPTEMBER 30, 2016



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umicore Precious Metals Refining
INCODECS EMCAM Sorting Technologies
zentek
weee
iFE Erfahrung, die bewegt
binder+co
Wm Weee Metallica

TOMRA SORTING SOLUTIONS | RECYCLING
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EREMA PLASTIC RECYCLING SYSTEMS
UNISENSOR Sensorsysteme GmbH
MRT SYSTEM
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Vecoplan
EERA European Electronics Recyclers Association

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MGG Müller-Guttenbrunn Gruppe
FOR REC RECYCLING SYSTEMS
MTB RECYCLING MANUFACTURING ENGINEERING
MBA POLYMERS BECAUSE SUSTAINABILITY MATTERS
HAMAREC EDELMETALLRECYCLING

PLANT TOUR

FRIDAY, JANUARY 20, 2017

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

08.00	Departure by bus to Müller-Guttenbrunn Group
10.30	Arrival at Müller-Guttenbrunn Group
10.30 – 15.00	**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 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 and since 2016 even PC/ABS 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 $C0_2$ emissions, compared to the production of one ton of "virgin" plastics from petrochemicals. The MBA Polymers plastics recycling facility covers approximately 20'000 m^2, 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.
The plant tour will only take place with a minimum of 8 participants.

MGG
Müller-Guttenbrunn Group

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

MBAPOLYMERS
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 TOUR

FRIDAY, JANUARY 20, 2017

EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GMBH, ANSFELDEN

08.15	Departure by bus to EREMA Engineering Recycling Maschinen und Anlagen GmbH
10.00	Arrival at EREMA Engineering Recycling Maschinen und Anlagen GmbH
10.00 – 12.30	**Visit of the EREMA Customer Centre**
14.45*	Arrival at Salzburg Airport
15.00	Arrival at Salzburg Congress

Since it was founded in 1983, **EREMA Engineering Recycling Maschinen und Anlagen GmbH** has specialised in the development and production of plastics recycling systems and technologies for the plastics processing industry.

Product portfolio

- Plastics recycling systems for standard applications and production waste
- Plastic recycling systems for heavily printed/contaminated post-consumer waste
- FDA-approved PET recycling systems, VACUREMA®, efsa approval requested via customers (e.g. for bottle to bottle recycling)
- Inline PET applications (e.g. for fibre, film and strapping)
- COREMA® plastic recycling system for the production of highly filled and customised compounds
- Fully automatic, self-cleaning melt filters
- Pelletising systems

www.erema.at



* No guarantee on arrival time due to traffic conditions.
The plant tour will only take place with a minimum of 8 participants.



WE CLOSE THE LOOP.

Efficiency in plastic recycling.

CHOOSE THE NUMBER ONE.

EREMA®
PLASTIC RECYCLING SYSTEMS

PLANT TOUR

FRIDAY, JANUARY 20, 2017

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 140'000 tons per year.

www.montanwerke-brixlegg.com

* No guarantee on arrival time due to traffic conditions.
The plant tour will only take place with a minimum of 8 participants.

MONTANWERKE BRIXLEGG

THE HIGH QUALITY STANDARD IS RECOGNISED ALL OVER THE WORLD









Montanwerke Brixlegg AG is a secondary smelter and processes more than 160'000 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
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REGISTER BY NOV. 30, 2016 AND PROFIT FROM DISCOUNTED RATES

Participants registering and paying **before November 30, 2016** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

REGISTRATION FEES

Congress fee		**before Nov. 30, 2016**		**after Nov. 30, 2016**
Fee for participants	EUR	1'590.–	EUR	1'690.–
Fee for speakers	EUR	990.–	EUR	1'090.–
Fee for students	EUR	690.–	EUR	790.–
Networking dinner (Jan. 18)	EUR	100.–	EUR	120.–
Networking dinner for spouse (Jan. 18)	EUR	120.–	EUR	150.–
Workshops				
Implementing Management Systems (Jan. 17)	EUR	150.–	EUR	190.–
Li Batteries Transport & Safety Issues (Jan. 20)	EUR	150.–	EUR	190.–
Plant tours, you may choose one (Jan. 20)				
EREMA GmbH	EUR	50.–	EUR	70.–
Montanwerke Brixlegg AG	EUR	50.–	EUR	70.–
Müller-Guttenbrunn, Metran and MBA Polymers	EUR	50.–	EUR	70.–

All prices excl. 20% Austrian VAT

Congress registration on site EUR 100.– surcharge

Online registration
You may also register online at: www.icm.ch/ierc-2017/ierc-2017-registration

Proceedings
If you cannot attend the congress, you may purchase the complete proceedings at EUR 350.–. Participants will get the proceedings free of charge.

Payment
Payment should be made in EUR by bank transfer or by credit card.

IERC HONORARY AWARD WINNERS SINCE 2007



STEVE SKURNAC

January 2016

Global President of Sims Recycling Solutions, USA

Steve receives this award for his achievements, support and dedication to the E-recycling industry. With a career spanning more than a quarter of a century, working in markets around the globe Steve has become a figurehead of an industry which historically managed waste but is now known as resource recovery or urban mining.



RON GARAN

January 2015

Impact CoLab, Retired NASA Astronaut, USA

Ron receives this award in recognition of his humanitarian spirit and work to improve our planet fostering collaborative efforts across global humanitarian organisations. He lived and worked in space for 178 days and has a unique perspective of our impact on the earth from space. He believes that appropriately designed and targeted social enterprise can solve many of the problems facing our world.



DR BERTRAND PICCARD

January 2014

Psychiatrist, Balloonist and Explorer
Initiator and Chairman of Solar Impulse Project, Switzerland

Bertrand receives this award in recognition of his pioneering spirit to go beyond todays human and technical limits to fly around the world without fuel and without pollution. His remarkable commitments to save energy, to demonstrate the importance of clean technologies, to place dreams and emotions create great impact also to the young generation.



JIM PUCKETT

January 2013

Basel Action Network, USA

Jim receives this award in recognition of his pioneering and breathless work to prevent the globalization of toxic wastes. The Steering Committee of IERC also honours his dedication to contribute comprehensive strategies for proper treatment of E-waste across the globe.

DR MIKE BIDDLE

January 2012

Founder of MBA Polymers, Inc., USA

Today, MBA recycles 1 million pounds of plastics waste a day! Mike receives this award in recognition of his powerful spirit and lifetime work to develop a genius, very low energy consuming process to recycle plastics waste in order to drive industry and society towards a better, cleaner and fair world.



MANFRED BECK

January 2011

Recycling International, Netherlands

Manfred receives this award in recognition of his lifetime work and editorial skills in promoting sustainability, inspiring entrepreneurs to invest in environmental technologies and businesses, in order to drive industry and society towards a better and cleaner world.



KARL-HEINZ FLORENZ

January 2010

the Father of the WEEE Directive, European Parliament

Karl-Heinz receives this award in recognition of his outstanding commitment, leadership and fighting for a sustainable world, which resulted in the creation of the most important regulation regarding Electronics Waste Recycling on the European continent.



DR MARCO BULETTI

January 2009

Federal Office for the Environment, Switzerland

Marco receives this award in recognition of his outstanding commitment and leadership which resulted in the creation of the Mobile Phone Partnership Initiative (MPPI).



PROF. DR IR. AB STEVELS

January 2008

Philips Consumer Electronics, Netherlands

Ab receives this award in recognition of his outstanding commitment to preserving our environment by developing and promoting efficient recycling technologies.



PROF. THEO LEHNER

January 2007

Boliden Mineral AB, Sweden

Theo receives this award in recognition of his outstanding commitment to preserve our environment by developing and promoting efficient recycling technologies.



Upcoming ICM Events:

www.icm.ch

Electronics & Cars Recycling WRF 2016

WRF 2016





16th International Electronics Recycling Congress IERC 2017

IERC 2017





17th International Automobile Recycling Congress IARC 2017

IARC 2017





22nd International Congress for Battery Recycling ICBR 2017

ICBR 2017





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GLENCORE

Innovative concepts in toner cartridge recycling

- Your plant manufacturer for toner cartridge recycling
- References are existing
- Explosion proof recycling plants
- Reusable fractions



WEEE KNOW HOW

URT

URT Umwelt- und Recyclingtechnik GmbH
Am Hammersteig 5a, 97753 Karlstadt, Germany
Fon +49 93 53 / 90 68 -0, Fax +49 93 53 / 90 68 -68
www.urt-recycling.com, info@urt-recycling.de







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One tiny device can reduce the cost of recycling refrigerators by 7.5% and we bet you didn't know it.



The fact is, the recycling industry is not the most transparent in the world. We are not so good at sharing what we know. If one technique is developed in, say, Indonesia, chances are that it won't be implemented in Bulgaria for another ten years.

There are many reasons for this. The main one is that jurisdictional laws governing the recycling industry vary from country to country. Also, because waste treatment technologies are big and cumbersome, it's assumed that transferring knowledge is too complicated and costly.

But what is really costing us is not sharing our knowledge. Not sharing best practices or the challenges we are facing and not engaging in networking and open communication with each other. If other industries behaved like ours, we'd still be using rotary phones and driving Ford T.

We are E-Reciklaza, a recycling company that specializes in electronic waste management. We are based in Serbia and have strong regional contacts, but our aspirations are global.

Through years of experience, we have developed efficient and environmentally sound ways of recycling WEEE, PET and sorting communal waste, and think we have valuable experiences to share. The controller shown here is one of them.

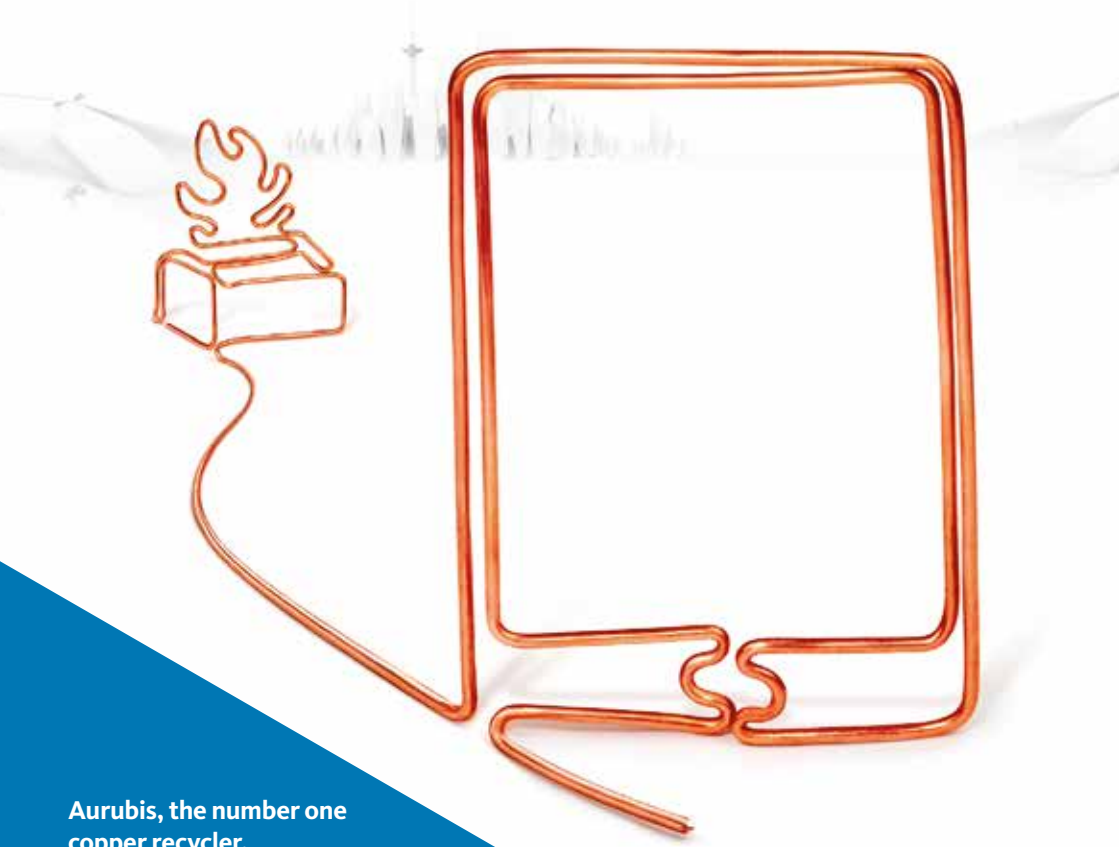


We'd love to hear from you. Perhaps it will lead to a successful partnership, joint venture or consulting engagement. I am Ninoslav Milenković, CEO, and would be interested to personally speak with you. You can reach me on +381 63 1085231 (including Wapp) or at ninoslav@ereciklaza.com.

CE

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Reciklaža električnog i elektronskog otpada

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Aurubis, the number one copper recycler.

From toaster to tablet: copper can be found in every electrical device. We recycle copper and other metals without a loss of quality so that they can be recycled into new products. As a multi-metal recycler, we make a significant contribution to environmental protection and secure a long-term supply of valuable resources.

You can find more about our recycling services at www.aurubis.com/recycling

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