

IERC 2019

www.icm.ch

18th International Electronics Recycling Congress IERC 2019

January 16 – 18, 2019, Salzburg, Austria



REDUCE
REUSE
RECYCLE

Patronage:

- APPLiA – Home Appliance Europe
- Austrian Federal Ministry for Sustainability and Tourism
- DIGITALEUROPE
- European Electronics Recyclers Association (EERA)
- European Recycling Industries' Confederation (EuRIC)
- Eurometaux – European Association of Metals
- Japan Electronics and Information Technology Industries Association (JEITA)
- PlasticsEurope
- Verband Deutscher Metallhändler e.V. (VDM)
- WEEE Forum

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ELISABETH KÖSTINGER

Federal Minister for
Sustainability and
Tourism

As the market continues to expand and innovation cycles become even shorter, the replacement of equipment accelerates, making EEE a fast-growing source of waste. While Directives 2002/95/EC and 2011/65/EU have contributed effectively to reducing hazardous substances contained in new EEE, including mercury, cadmium, lead, hexavalent chromium, phthalates, polychlorinated biphenyls (PCBs) and ozone-depleting substances, and these will still be present in WEEE for many years. Hazardous components in EEE are a major concern during the waste management phase, and recycling of WEEE is not undertaken to a sufficient extent. A lack of recycling results in the loss of valuable resources.

The material recovery and the closed resource loop – known as the “Circular Economy” – will become more and more impor-

tant for the whole industry and producer countries. Therefore, the purpose of Directive 2012/19/EU is to contribute to sustainable production and consumption by, as a first priority, the prevention of WEEE and, in addition, by the re-use, recycling, and other forms of recovery of such wastes as to reduce the disposal of waste and to contribute to the different use of resources and the retrieval of valuable secondary raw materials. It also seeks to improve the environmental performance of all operators involved in the life cycle of EEE, e.g. producers, distributors and consumers and, in particular, those operators directly involved in the collection and treatment of WEEE.

Implementing the Directive, efforts must be reinforced to fulfill the WEEE minimum collection target rates which will become effective in 2019. Improved

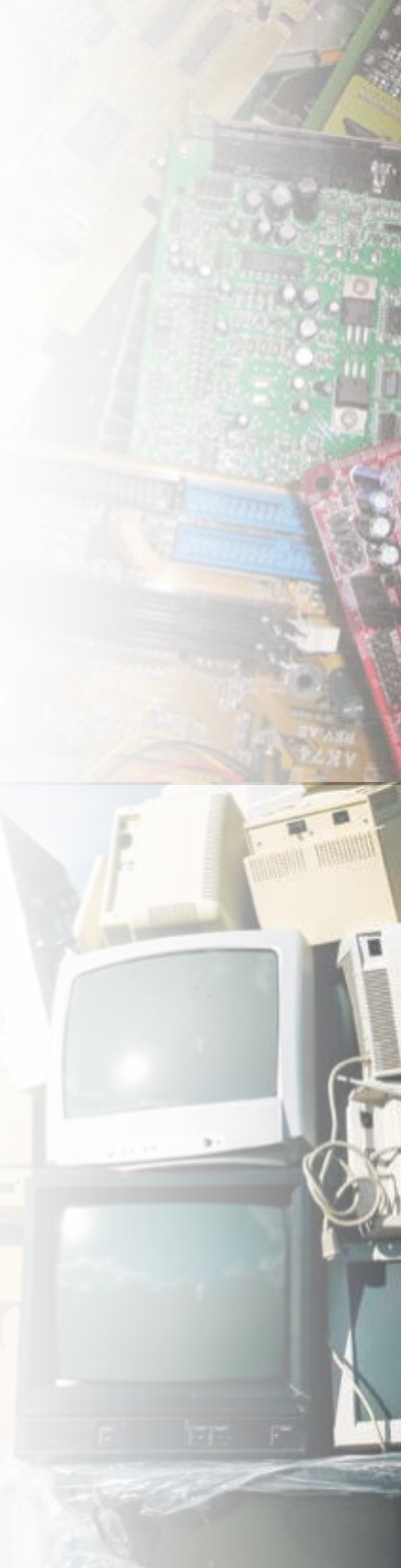
national and international efforts will support the implementation of the environmentally compatible management of WEEE in accordance with the obligations of the Basel Convention resulting in a more effective prevention of illegal shipment of WEEE as well.

The WEEE Directive set reliable standards and also formed a good basis for investment. In the meantime, a whole secondary industry has evolved with recycling systems and the creation of different treatment standard. However, the dynamic of industrial developments constantly poses new challenges. For instance the increasingly widespread use of high energy batteries – lithium-ion-batteries in particular – in EEE is a driving force to adapt safety requirements on collection, storage, transport and treatment of WEEE containing these batteries.

The IERC has become the most important and effective platform for WEEE in Europe, creating an environment that fosters dialogue on the many issues facing the recycling industry. We can look forward to many interesting presentations, exhibitions and plant tours, as well as mutually fruitful discussions and collaborations.

I wish everybody a successful and a nice stay in Salzburg.

 **Federal Ministry**
Sustainability and Tourism



FOREWORD

JEAN COX-KEARNS
Chairman of the Steering
Committee IERC

Getting ready for 2019 and the IERC congress? Well, it is in Salzburg again, and as 2019 will be the 12th time we are hosted there, we have come to accept that our congress is at times referred to as the “Salzburg” Congress. To our returning guests, as always, a big welcome. To our new attendees, please note that this is the Mozart City and a UNESCO World Heritage site and it is also the home of Red Bull. Our congress also offers the perfect opportunity for an early 2019 skiing break!

The Congress Centre in Salzburg is located just beside the Salzach river and just a short stroll from the historic city, which is overlooked by the Hohen-salzburg Castle.

IERC 2019 will be our 18th congress and on behalf of the Steering Commit-

tee and congress organizers, we wish you all a big welcome to Salzburg.

We expect to see conference delegates who come from all around the world representing electronics recycling, equipment manufacturers, the makers of recycling equipment, associations, standards bodies and NGOs. We also expect to have representatives from governments and regulatory bodies from where much of the regulation we work with originates.

IERC offers a location where our delegates can come together, learn from one other, forge alliances and partnerships, explore new solutions for recycling, identify gaps in their organisations or processes and make improvements either through something shared at the congress or through successful meetings or purchases made during the congress.

IERC is a meeting place where the leading voices for organization in the recycling industry come once a year. It promotes quality presentations and panel sessions in addition to providing an expansive meeting space and lots of exhibitors. It allows attendees to gain maximum efficiency in discussions and decisions.

This year we will have excellent keynote presentations that focus on the Circular Economy and the challenges and opportunities of shipments of WEEE.

One of the biggest changes in the recycling world in the past year has been the Chinese National Sword Initiative which is placing restrictions on the ability to ship materials to China. This has led to recyclers needing to develop solutions that can deliver higher quality recycled materials to

sustain their businesses. In January 2018 there was a 99% reduction from the previous year in plastics exported to China. This action by China is being followed by similar import restrictions in other Asian countries. During this congress we will have a panel discussion on what this means for the Industry and even the processes for recycling.

We will also share the latest news on recycling technologies, continuing to focus on the challenges and successes of the Circular Economy initiatives as it relates to WEEE and reuse. We will look at the role of recycling as it relates to the sustainable development goals, business opportunities and regulatory models emerging in developing markets and how to recycle electronics from cars. This is the first time that we will look at the role of GDPR in the context of

recycling. The GDPR became effective in May 2018 and it offers both challenges and opportunities for the recycling industry.

As always, we will look at developments that are happening around the world with country reports from South Africa, India, Peru and Hong Kong.

We continue to see very little activity in countries on new recycling regulations. However, we are seeing regulations and developments that are not focused on our industry, but impact it. IERC in Salzburg is an event that offers an effective and trusted meeting place. It always also offers an opportunity for fun. I look forward to an informative conference and to seeing you there.



INTERNATIONAL STEERING COMMITTEE



JEAN COX-KEARNS
Chairman of the Steering Committee
camara education
CEO
Ireland



DR SVEN GRIEGER
EARN Elektroaltgeräte
Service GmbH
Manager WEEE Services
Germany



STEPHAN SCHWARZ
ALBA International Recycling GmbH
CEO
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JONATHAN PERRY
Vice Chairman of the Steering Committee
Dell
Environmental Affairs
United Kingdom



STEPHAN KRAFZIK
Online-Magazin 320°
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Umicore Precious Metals Refining
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WEEE Forum
President
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ROGER BURRI
Metal Depot Zurich AG
CEO
Switzerland



MARTIJN REINTJES
Recycling International
Chief Editor
Netherlands



NORBERT ZONNEVELD
EERA
Executive Secretary
Netherlands

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-Reciklaža, 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.



Reciklaža električnog i elektronskog otpada



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IT Rollout & Repair

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Spare Parts

Dresden
Repair

Nieder-Olm
Recycling

LOCATION OF THE CONGRESS



The 18th International Electronics Recycling Congress IERC 2019 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.

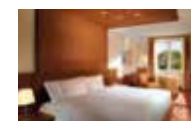
www.salzburg.info

A number of rooms are held at a discounted rate for the participants by registering **by December 15, 2018**. 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



Hotel Sheraton Grand Salzburg *****
Phone +43 662 889990
www.sheratongrandsalzburg.com
Next to Salzburg Congress



Hotel Bristol Salzburg *****
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www.bristol-salzburg.at
5 minutes' walking distance to Salzburg Congress



IMLAUER HOTEL PITTER Salzburg ****
(formerly Crowne Plaza – The Pitter)
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2 minutes' walking distance to Salzburg Congress



Hotel IMLAUER & Bräu Salzburg **** (non smoking hotel)
(formerly Best Western Hotel Imlauer)
Phone +43 662 88992
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Hotel Achat Plaza Zum Hirschen Salzburg ****
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www.zumhirschen.at
5 minutes' walking distance to Salzburg Congress



Austria Trend Hotel Europa Salzburg ****
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www.austria-trend.at
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www.motel-one.com
10 minutes' walking distance to Salzburg Congress



Star Inn Hotel Premium Salzburg Gablerbräu ***
Phone +43 662 879662
www.starinnhotels.com
5 minutes' walking distance to Salzburg Congress

KEYNOTE SPEAKER



PAUL E. HAGEN
Beveridge & Diamond P.C.
Principal
USA

Paul Hagen is a Principal at Beveridge & Diamond in Washington, DC and a leading legal advisor on U.S. and international environmental law. He counsels a diverse group of multinational corporations and trade associations on responsible sourcing, market access and extended producer responsibility legislation in the U.S. and in key markets worldwide. He also advises leading manufacturers on strategies to reduce legal risks related to new circular economy business models.

**“The Basel Convention at 30:
Opportunities to Scale the
Circular Economy”**

For many years, Paul has represented the U.S. electronics industry on the negotiation and implementation of the Basel Convention and OECD Council Decision governing the classification and transboundary movement of used electronic products for repair, refurbishment, and recycling. He currently serves as an observer on the Basel expert working group (EWG) reviewing annexes.

Paul and his colleagues advise leading equipment manufacturers on RoHS compliance and supply chain communication worldwide. He has also helped equipment manufacturers develop and implement national and global product repair, take-back and recycling programs. His firm has advised leading electronics recyclers on national and international legal measures governing the classification, transport and transboundary movement of e-waste.

Active in conservation, Paul currently serves on the board of the Conservation Fund, a leading U.S. land and water conservation NGO. He is a former board member of the Environmental Law Institute and World Environment Center. In addition, he has taught as an adjunct professor at the Washington College of Law at the American University (Washington, D.C. and Geneva). His environmental practice has been prominently recognized in Chambers USA. Best Lawyers has named him 2019 “Lawyer of the Year” for Environmental Law in Washington, DC.

KEYNOTE SPEAKER

STEVEN CLAYTON
Samsung Electronics (Europe)
Regulatory Affairs Manager
United Kingdom



Steven Clayton has been with Samsung for 5 years and works as a regulatory affairs manager for Samsung Electronics (Europe), focusing on chemical and waste legislation. He is well versed in the European regulatory framework, having previously held roles in quality, regulatory and toxicology within the pharmaceutical, medical device and FMCG industries.

Covering both operational and policy development activities at Samsung, Steven’s current priorities include working on the EU circular economy action plan, enhancing recycling efficiencies and standards, internal chemical management standards and global regulatory developments with respect to EU regulation roll-out and uptake.

As a key opportunity and challenge regarding the recyclability of electronics, Steven sees the chemicals and waste interface as a current hot topic. Creating better platforms for the exchange of material information in the waste stream will greatly improve product recyclability.

Steven holds a degree in Biological Sciences from the University of Lancaster.

**“Sustainable Products
and the Circular Economy
Journey”**

KEYNOTE SPEAKER



DR JANEZ POTOČNIK
Co-Chair of the UN International Resource Panel and
Partner SYSTEMIQ

Dr. Janez Potočnik (1958) graduated from the Faculty of Economics at the University of Ljubljana, Slovenia (Ph.D. degree 1993). After a successful career starting in 1989 in Slovenia as a researcher at the Institute of Economic Research, he was appointed Director of the Institute of Macroeconomic Analysis and Development (1994) and Head of Negotiating Team for Accession of Slovenia to the EU (1998).

He was also Director of Government Office for European Affairs (2000), Minister Council-

lor at the Office of the Prime Minister (2001) and Minister responsible for European Affairs (2002). In 2004 he joined the European Commission, first as shadow Commissioner for Enlargement and then as Commissioner responsible for Science and Research. In 2010 Dr Potočnik became Commissioner for Environment. His term ended on November 1, 2014.

In November 2014 he was appointed as a Co-Chair of the UN Environment International Resource Panel. In the same month he was also appointed as Chairman of The Forum for the Future of Agriculture and the RISE Foundation and a Member of the European Policy Centre's Advisory Council. In April 2016 he was also appointed as partner in SYSTEMIQ.

In January 2015, during World Economic Forum, he was awarded the Fortune Award for Circular Economy Leadership by the Circulars 2015, an initiative of the Forum of Young Global Leaders. In November 2015, the Carlowitz Society awarded him the Hans-Carl-Von-Carlowitz Award 2015 for courageous, open minded, and international work for the idea of the circular economy in Europe.

**"The Importance of
Keeping Materials in the
Circular Economy"**

WHO SHOULD ATTEND?

- Original electronic equipment manufacturers (OEMs)
- Reuse & refurbishment organizations
- Schemes and take back companies
- Ferrous & non-ferrous metal traders
- Collection and transportation companies
- Recycling and dismantling companies
- Shredding companies
- Plastics industry
- Battery industry and recyclers
- Non-ferrous metal industry
- Ferrous and stainless steel industry
- Eco-designers and engineers
- Environmental authorities
- Universities and research institutes





URT Umwelt- und Recyclingtechnik GmbH
Am Hammersteig 5a, 97753 Karlstadt, Germany
Fon: +49 (0) 9353 9068-0, www.urt-recycling.com, info@urt-recycling.de



Pyrolysis plant for printed circuit boards

Core competence

For more than 20 years, URT has been planning and developing disposal and recycling plants for electrical and electronic end-of-life appliances. Customers are supported from the project planning and approval stage through to project realisation and also during operation through our after-sales-team.

By focusing on electrical and electronic equipment (or WEEE), URT has become an established specialist in this field. In addition to the core business of refrigerator disposal, the disposal of printed circuit boards has become increasingly important during recent years.

For printed circuit boards, URT offers different treatment concepts. Its scope extends to mechanical treatment and pyrolysis plants, as well as production of metal concentrates containing precious metals.

Products and services

URT delivers processing plants for the following materials:

- Cooling devices and air-conditioning units
- Small household appliances
- IT equipment
- Printed circuit boards
- Toner cartridges
- CRT display devices
- Flat-screen devices with mercury-containing backlights

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CONGRESS SCHEDULE



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Time	Room "Europe" (2 nd floor)	Room "Mozart" (ground floor)	Exhibition (1 st floor)
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Tuesday, January 15, 2019

17.00 – 19.00	Pre-registration in the exhibition hall		
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Wednesday, January 16, 2019

08.00 – 09.30	Registration and welcome coffee in the exhibition hall			Exhibition
09.30 – 09.50	Welcome and Introduction			
09.50 – 10.30	KEYNOTE SPEAKER			
10.30 – 11.10	KEYNOTE SPEAKER			
11.10 – 11.45	SURPRISE GUEST SPEAKER			
11.45 – 12.00	Presenting of the "IERC HONORARY AWARD"			
12.00 – 13.30	Lunch in the exhibition hall			
13.30 – 14.30	KEYNOTE SPEAKER			
14.30 – 15.40	Towards a Circular Economy I	Advanced Sorting Solutions		
15.40 – 16.10	Coffee break in the exhibition hall			
16.10 – 17.00	Towards a Circular Economy II	Smart Separation & Shredding		
from 17.00	Cocktail reception in the exhibition hall sponsored by "Pooling Partners"		 POOLING PARTNERS PAPER-PALESTROM GROUP	
from 19.30	Networking dinner "OKTOBERFEST"			

Thursday, January 17, 2019

08.00 – 09.00	Welcome coffee in the exhibition hall			Exhibition
09.00 – 10.30	Country Reports: South Africa, India, Peru, Hong Kong			
10.30 – 11.00	Coffee break in the exhibition hall			
11.00 – 12.30	E-Plastics – Challenges & Opportunities	Smart Recovery Solutions		
12.30 – 14.00	Lunch in the exhibition hall			
14.00 – 15.00	Managing the Lithium Battery Wave	EUROPE: Rules & Regulations Update		
15.00 – 15.30	Coffee break in the exhibition hall			
15.30 – 17.00	ROUND TABLE “Impacts & Opportunities of China’s Scrap Import Restrictions”			
17.00 – 17.15	WRAP UP / CLOSING REMARKS			
from 17.15	Farewell cocktail in the exhibition hall sponsored by “Pooling Partners”		 POOLING PARTNERS PAPER VALUE STREAM GROUP	

Friday, January 18, 2019

	Plant tours: (buses leaving from in front of the Hotel Sheraton)		
08.00 – 17.15	Müller-Guttenbrunn Group, Amstetten/Kematen		
08.15 – 14.45	Montanwerke Brixlegg AG, Brixlegg		
08.45 – 16.30	voestalpine Stahlwelt, Linz		

REDUCE
REUSE
RECYCLE

CONGRESS PROGRAM

TUESDAY, JANUARY 15, 2019

17.00 – 19.00 Pre-registration in the exhibition hall

WEDNESDAY, JANUARY 16, 2019

08.00 – 09.30 Registration and welcome coffee in the exhibition hall

09.30 – 09.50 Welcome and Introduction

Jean Cox-Kearns, Chairman of the Steering Committee

09.50 – 10.30 **KEYNOTE SPEAKER**

"The Basel Convention at 30: Opportunities to Scale the Circular Economy"
Paul E. Hagen, Beveridge & Diamond P.C., USA

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

10.30 – 11.10 **KEYNOTE SPEAKER**

"Sustainable Products and the Circular Economy Journey"
Steven Clayton, Samsung Electronics (Europe), United Kingdom

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

11.10 – 11.45 **SURPRISE GUEST SPEAKER**

11.45 – 12.00 **PRESENTING OF THE "IERC HONORARY AWARD"**

12.00 – 13.30 Lunch in the exhibition hall

13.30 – 14.30 **KEYNOTE SPEAKER**

"The Importance of Keeping Materials in the Circular Economy"
Dr Janez Poščnik, UN International Resource Panel / SYSTEMIQ

Moderator: Jonathan Perry, Dell, United Kingdom

Towards a Circular Economy I **Session Chairman: Jonathan Perry, Dell, United Kingdom**

14.30 – 14.50 "Collaborative Partnerships – The Solution to Closed-Loop Recycling"
Steve Skurnac, Sims Group, USA
Jean-Luc Lavergne, Lavergne Groupe, Canada, Dean Miller, HP Inc., USA

14.50 – 15.10 "Circular Economy in Practice"
Lars Koch, Sony Europe for DIGITAL-EUROPE, Belgium

15.10 – 15.30 "Where are the Real Rewards in the Circular Economy?"
Jim Sheehan, Wisetek Solutions, United Arab Emirates

15.30 – 15.40 **Q & A**

15.40 – 16.10 Coffee break in the exhibition hall

Towards a Circular Economy II **Session Chairman: Pascal Leroy, WEEE Forum, Belgium**

16.10 – 16.30 "Circular Economy in Practice – How Reuse is a Part of the Business Model for the EPR Company Norsirk in Norway"
Guro K. Husby, NORSIRK AS, Norway

16.30 – 16.50 "Towards Circular Economy – Setting Up a National Framework for Lifetime Extension of Large Household Appliances in Denmark"
Klaus Bystrup, Aalborg Forsyning, Denmark

16.50 – 17.00 **Q & A**

from 17.00 Cocktail reception in the exhibition hall sponsored by:

from 19.30 Networking dinner "Oktoberfest"

Advanced Sorting Solutions **Session Chairman: Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium**

"Magnetic Separation of Stainless Steels"
Don Suderman, Bunting Magnetics Co., USA and Simon Ayling, Bunting Magnetics Europe Ltd., United Kingdom

"Combining Existing Technologies to Turn WEEE Plastic Waste into Virgin Material", **Jelle Saint-Germain, AD REM N.V., Belgium**

"Smart Sorting Solutions for WEEE"
Michael Perl and Franz Schaab, Sesotec GmbH, Germany

Q & A

Smart Separation & Shredding **Session Chairman: Dr Sven Grieger, EARN Elektroaltgeräte Service GmbH, Germany**

"Increasing Shredder Capacity Because of Cleaner Input"
Bart de Rooij, TA-PO industries BV, Netherlands

"Innovations in Eddy Current Separation Technique"
Helmut Tröbinger, IFE Aufbereitungs-technik GmbH, Austria

Q & A

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CONGRESS PROGRAM

THURSDAY, JANUARY 17, 2019

08.00 – 09.00 Welcome coffee in the exhibition hall

Country Reports: South Africa, India, Peru, Hong Kong

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

- 09.00 – 09.20 "The Development of Producer Responsibility in South Africa"
Jonathan Perry, DELL UK, for E-Waste Recycling Authority NPC, South Africa
- 09.20 – 09.40 "Digital India: Future Opportunities for E-Waste in India"
Vijay M. Mandora, ECS Corporation, India
- 09.40 – 10.00 "Blue Ocean Strategy in WEEE"
Joseph Espejo, Comintel Recycling, Peru
- 10.00 – 10.20 "The New Electrical and Electronic Waste Recycling Plant in Hong Kong"
Nigel Mattravers, ALBA Group, Hong Kong
- 10.20 – 10.30 **Q & A**

10.30 – 11.00 Coffee break in the exhibition hall

E-Plastics – Challenges & Opportunities **Session Chairman: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore**

- 11.00 – 11.30 "Recycling of Plastics from WEEE at Risk"
Chris Slijkhuis, EERA – European Electronics Recyclers Association, Netherlands
- 11.30 – 12.00 "Recycling Mixed Plastics in the REACh Perspective"
Olivier François, Group GALLOO, Belgium
- 12.00 – 12.30 "Integration of Life Cycle Thinking into Product Design – The Case of Post-Consumer WEEE Plastics"
Arthur Schwesig, MGG Polymers GmbH, Austria and Anton Berwald, Fraunhofer Institute for Reliability and Microintegration IZM, Germany

Smart Recovery Solutions **Session Chairman: Dr Jan Vlak, WEEE Forum, Belgium**

- "Fluff Waste Treatments: Metals Recovery and Enhancement through Mechanical Recycling Plants", **Matteo Turatto, Panizzolo Recycling Systems, Italy**
- "How Efficient is the Dry Separation Technology of Flame-Retardant WEEE Plastics?", **Christian Pak, TOMRA Sorting GmbH, Germany**
- "Targeting the Maximum Material Value, Reducing the Costs"
Emanuele Bonaldi, FORREC SRL, Italy



12.30 – 14.00 Lunch in the exhibition hall

Managing the Lithium Battery Wave **Session Chairman: Roger Burri, Metal Depot Zurich AG, Switzerland**

- 14.00 – 14.20 "ADR 2019 – New Rules for the Transport of Lithium Batteries and Lithium Batteries Contained in Equipment"
Dr Marco Ottaviani, ANIE-CSI, Italy
- 14.20 – 14.40 "ADR Safe Handling and Transport of Lithium Batteries"
Tobias Schulze Wettendorf, Stiftung GRS Batterien, Germany
- 14.40 – 15.00 "New UN Classification for Transport of Lithium Batteries, according to their Hazards", **Dr Claude Chanson, RECHARGE, Belgium**

EUROPE: Rules & Regulations Update **Session Chairman: Stephan Krafzik, Online-Magazin 320°, Germany**

- 14.00 – 14.30
"The GDPR and its Main Implications for the WEEE Industry"
Kyriakos Parpounas, Parpounas Sustainability Consultants, Cyprus
- 14.30 – 15.00
"Implementation of the 'WEEE Open Scope' Approach – Current Status and Impacts"
Solveig Legler, 1cc GmbH, Germany

15.00 – 15.30 Coffee break in the exhibition hall

ROUND TABLE

"Impacts & Opportunities of China's Scrap Import Restrictions"

Moderators:

Stephane Burban, Glencore International AG, Switzerland
Martijn Reintjes, Recycling International, Netherlands

Participants:

Olivier François, Group GALLOO, Belgium
Steve Graham, TES, United Kingdom
Paul E. Hagen, Beveridge & Diamond P.C., USA
Jim Puckett, Basel Action Network (BAN), USA
Representative of Bureau of International Recycling (BIR), Belgium (tbc)

17.00 – 17.15 WRAP UP / CLOSING REMARKS

Presented by Jean Cox-Kearns, Chairman of the Steering Committee

from 17.15 Farewell cocktail in the exhibition hall sponsored by:



CONGRESS PROGRAM

FRIDAY, JANUARY 18, 2019

Plant tours

(buses leaving from in front of the Hotel Sheraton)

08.00 – 17.15 **Müller-Guttenbrunn Group, Amstetten/Kematen**



08.15 – 14.45 **Montanwerke Brixlegg AG, Brixlegg**



08.45 – 16.30 **voestalpine Stahlwelt, Linz**



Curious about the buzz?

There nothing as good as exciting news.
As market leading developer MRT is now taking Mercury Recovery Technology Solutions to the next level.
World News will be presented at the IER Congress in January 2019 – stay tuned at mrtsystems.com



MRT System has been business leader and driver of development in Mercury Recovery Technology over four decades. With more than 300 successful installations worldwide MRT System is present on all continents.
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Oktoberfest

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at an exciting networking dinner accompanied
by an amusing live band. You are very welcome to dress up
with Dirndl or Lederhosen. Do not miss this perfect
opportunity to socialize with your friends and
register for this evening today!

Meet friends and
business partners in a
nice atmosphere!



PLANT TOUR

FRIDAY, JANUARY 18, 2019

MÜLLER-GUTTENBRUNN GROUP,
AMSTETTEN/KEMATEN



08.00	Departure by bus to Müller-Guttenbrunn Group
10.30	Arrival at Müller-Guttenbrunn Group
10.30 – 15.00	Visit to the shredder plant of MGG Metrec Visit to the post-shredder treatment plant of MGG Metran Visit to the plastic recycling plant of MGG 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 **MGG Metrec** facility in Amstetten de-pollutes the e-waste with the patented Smasher™. After the de-pollution step a new and specialized shredder with a design capacity of 80,000 MT 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 MGG Metran.

MGG Metran combines a large number of innovative separation technologies to further process these electronic shredder residues into a range of non-ferrous metal concentrates as well as printed circuit boards. Even metals <1 mm can thus be extracted from these residues to be re-introduced into the material cycle. In these processes a valuable plastics fraction is created, which is delivered to MGG Polymers for further processing.

MGG Polymers recovers a high quality post-consumer ABS, HIPS, PP and even PC-ABS resins for use in demanding applications. Premium grades are UL-HB recognized, impact modified and/or available in different colours – replacing virgin plastics and closing the circle for tech-plastics from WEEE. These 100% Post-Consumer Recycled (PCR) plastics reduce energy consumption by over 80–90% and protect the environment by reducing up to four tonnes of CO₂ emissions per tonne of plastics produced, compared to the production of one tonne of "virgin" plastics from petrochemicals. The MGG Polymers plastics recycling facility covers approximately 20,000 m² and has a processing capacity of well over 50,000 tonnes per annum with a workforce of over 100 employees.

www.mgg-recycling.com, www.mgg-polymers.com

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

www.mgg-recycling.com



Unprecedented recycling depth

Patented smasher
de-pollution technology

Latest shredding and
separation technologies

Highly innovative
post-shredder technologies

Presence in central
and south eastern europe



Responsibility starts with the raw material



Long experience in
WEEE plastic recycling

RoHS and REACH
compliant PCR plastics

ABS, HIPS, PP and
PC/ABS

Raw material for new
high-tech equipment

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MGG METRAN
MGG POLYMERS

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office@mgg-recycling.com
metran@mgg-recycling.com
office@mgg-polymers.com

PLANT TOUR

FRIDAY, JANUARY 18, 2019

MONTANWERKE BRIXLEGG AG,
BRIXLEGG



08.15 Departure by bus to Montanwerke Brixlegg AG
10.15 Arrival at Montanwerke Brixlegg AG
10.15 – 12.30 **Visit to the refinery and foundry**
14.30* Arrival at Salzburg Airport
14.45 Arrival at Salzburg Congress

Montanwerke Brixlegg AG is Austria's leading copper processor. With 555 years of experience in upcycling copper today the organization is one of the leading copper refining works.

Copper and precious metals as well are the main part of the value chain. The annual output of Grade-A cathodes and cast billets in various specifications is more than 150,000 tonnes per year.

www.montanwerke-brixlegg.com

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Find more:

www.montanwerke-brixlegg.com



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

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

PLANT TOUR

FRIDAY, JANUARY 18, 2019

VOESTALPINE STAHLWELT, LINZ



08.45	Departure by bus to voestalpine Stahlwelt
10.45	Arrival at voestalpine Stahlwelt
11.00 – 14.00	Visit to voestalpine Stahlwelt and plant tour through the factory premises, live production areas, e.g. blast furnace, hot-rolling mill
16.15*	Arrival at Salzburg Airport
16.30	Arrival at Salzburg Congress

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

The **voestalpine steel plant** is one of the cleanest and most innovative in the world. A claim many steel plants make – but how many allow a glimpse of what is on the other side of the factory gate? **voestalpine** does and even goes one step further: After you visit the exhibition in the **voestalpine Stahlwelt**, you're in for an exciting plant tour.

The multimedia buses will take 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 various steps in the steel making process up to the finished product.

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

www.voestalpine.com/stahlwelt/en

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



voestalpine Stahlwelt GmbH | voestalpine-Straße 4 | 4020 Linz, Austria T. +43/50304/15-9538 | www.voestalpine.com/stahlwelt

EXHIBITING AND ADVERTISING



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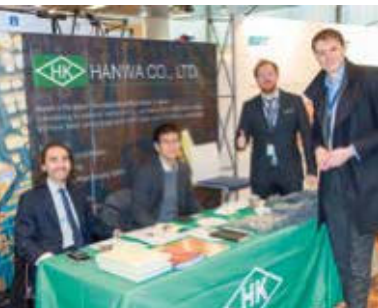
Booth 6 m² (2 m x 3 m) **EUR 3'690**

Booth 12 m² (3 m x 4 m) **EUR 4'990**

Poster presentation (wall rental) **EUR 390**

Display board (1 m x 2 m) **EUR 690**

Space is limited, book today!



LAYOUT EXHIBITION AS PER JANUARY 3, 2019



EXHIBITORS

AS PER JANUARY 3, 2019





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Participants registering and paying **before November 30, 2018** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

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REGISTRATION FEES

Congress fee

Fee for participants
Fee for speakers
Fee for students

	before Nov. 30, 2018	after Nov. 30, 2018
EUR	1'690	EUR 1'790
EUR	1'090	EUR 1'190
EUR	690	EUR 790

Networking dinner (Jan. 16, 2019)
Networking dinner for spouse (Jan. 16, 2019)

EUR	100	EUR 130
EUR	120	EUR 150

Plant tours (Jan. 18, 2019)
Montanwerke Brixlegg AG
Müller-Guttenbrunn Group
voestalpine Stahlwelt

EUR	50	EUR 70
EUR	50	EUR 70
EUR	50	EUR 70

Prices do not include 20% Austrian VAT.

Congress registration on site EUR 100 surcharge

Online registration

You may also register online at: <https://ierc.icm.ch>

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



MANFRED FAHRNER
ALBA Electronics Recycling GmbH, Germany

January 2018

Manfred receives this award in recognition of his lifetime contribution and personal commitment to developing the recycling industry and especially the WEEE recycling business. He was one of the founding fathers of the European Electronics Recyclers Association – EERA and was the first President for a period of 10 years. His practical knowledge and sober style of sharing his insights with others in the business is unrivalled and well appreciated.



CHRISTIAN MÜLLER-GUTTENBRUNN January 2017
CEO of Müller-Guttenbrunn Group, Austria

Christian receives this award in recognition of his work Developing new recycling processes and founding new Cleantech companies in Austria and Eastern Europe in various sectors such as plastics recycling and metal sorting.



STEVE SKURNAC
Global President of Sims Recycling Solutions, USA

January 2016

Steve receives this award for his achievements, support and dedication to the e-waste 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
Impact CoLab, Retired NASA Astronaut, USA

January 2015

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.

DR BERTRAND PICCARD
Initiator and Chairman of the Solar Impulse Project, Switzerland

January 2014

Bertrand receives this award in recognition of his pioneering spirit to go beyond today's 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 and to place dreams and emotions.



JIM PUCKETT
Basel Action Network, USA

January 2013

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 contributing comprehensive strategies for the proper treatment of e-waste across the globe.



DR MIKE BIDDLE
Founder of MBA Polymers, Inc., USA

January 2012

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 fairer world.



MANFRED BECK
Recycling International, Netherlands

January 2011

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
the Father of the WEEE Directive, European Parliament

January 2010

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
Federal Office for the Environment, Switzerland

January 2009

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
Philips Consumer Electronics, Netherlands

January 2008

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





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Upcoming ICM Events:

19th International Automobile Recycling Congress IARC 2019

IARC
2019



March 20 – 22, 2019
Vienna, Austria

E-Mobility & Circular Economy

EMCE 2019

EMCE
2019



July 1 – 3, 2019
Tokyo, Japan

24th International Congress for Battery Recycling ICBR 2019

ICBR
2019



September 18 – 20, 2019
Lyon, France

19th International Electronics Recycling Congress IERC 2020

IERC
2020

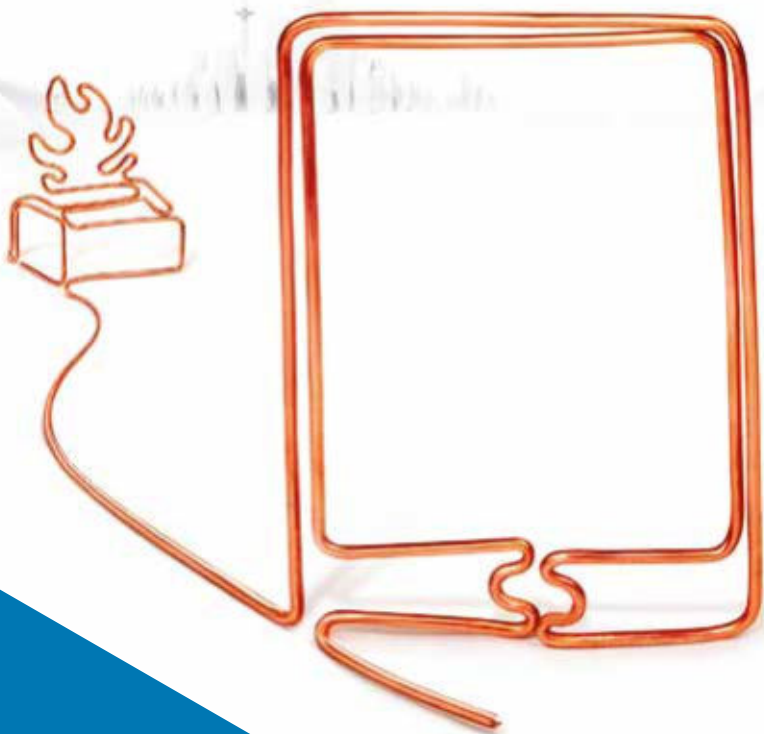


January 22 – 24, 2020
Salzburg, Austria

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