18th International Electronics Recycling Congress IERC 2019
January 16 – 18, 2019, Salzburg, Austria

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
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 important 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

WELCOME ADDRESS
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 Hohensalzburg Castle.

IERC 2019 will be our 18th congress and on behalf of the Steering Committee 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 another, 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

JONATHAN PERRY
Vice Chairman of the Steering Committee
Dell
Environmental Affairs
United Kingdom

STEPHANE BURBAN
Chairman of the Lecture Group
Glencore International AG
Switzerland

DR MARCO BULETTI
Federal Office for the Environment (FOEN), Waste Management and Resources Division, Deputy Head of Division, Switzerland

ROGER BURRI
Metal Depot Zurich AG
CEO
Switzerland

DR SVEN GRIEGER
EARN Elektroaltgeräte Service GmbH
Manager WEEE Services
Germany

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

PASCAL LEROY
WEEE Forum
Secretary General
Belgium

VENKATESHA MURTHY
Vans Chemistry Pte. Ltd.
Managing Director
Singapore

MARTIJN REINTJES
Recycling International
Chief Editor
Netherlands

STEPHAN SCHWARZ
ALBA International Recycling GmbH
CEO
Germany

THIERRY VAN KERCKHOVEN
Umicore Precious Metals Refining
Head of Supply Recyclables
Belgium

SCOTT VENHAUS
Encore Repair Services
Vice President
Supply Chain
USA

JAN VLAK
WEEE Forum
President
Belgium

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.

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.

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

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.

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.

GEODIS Logistics Deutschland GmbH
phone: +49 (0) 6136 7663 1106 · e-mail: hightech-glde@geodis.com · www.geodis.de
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.

HOTEL ACCOMMODATION

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

Hotel Bristol Salzburg *****
Phone +43 662 873557
www.bristol-salzburg.at
5 minutes’ walking distance to Salzburg Congress

IMLAUER HOTEL PITTER Salzburg ****
(formerly Crowne Plaza – The Pitter)
Phone +43 662 889780
www.imlauer.com/hotels/hotel-pitter-salzburg/
2 minutes’ walking distance to Salzburg Congress

Hotel IMLAUER & Bräu Salzburg ****
(non smoking hotel)
(formerly Best Western Hotel Imlauer)
Phone +43 662 88992
www.imlauer.com//hotels/hotel-imlauer-salzburg
5 minutes’ walking distance to Salzburg Congress

Hotel Achat Plaza Zum Hirschen Salzburg ****
Phone +43 662 889030
www.zumhirschen.at
5 minutes’ walking distance to Salzburg Congress

Austria Trend Hotel Europa Salzburg ****
Phone +43 662 889930
www.austria-trend.at
10 minutes’ walking distance to Salzburg Congress

Motel One Salzburg-Mirabell ***
Phone +43 662 885200
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

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 or IERC. Please note that we have no affiliation with any housing coordination. If you have any concerns, contact us at info@icm.ch.
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.

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.

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.
KEYNOTE SPEAKER

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

"The Importance of Keeping Materials in the Circular Economy"

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 Councilor 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.

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
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

EQUIPMENT FOR PROFITABLE E-WASTE RECYCLING

- Customized systems - for your requirements and preferences
- Solutions developed based on long experience
- Handcrafted equipment of highest quality
- Production is growing with your needs
- Superior performance and result
- Attractive output fraction
- Minimum loss of metals
- From 800 to 7,000 kg/h
- Reliable after sales support

Eldan Recycling is recognized as a world leader in supplying equipment for profitable recycling. We are proud to offer you equipment developed based on 60 years’ experience, manufactured in our own factory and delivered to several hundred satisfied customers worldwide. We offer you equipment and recycling solutions for processing of e.g. tyres, cable, electronics (WEEE) and industrial waste.

CONGRESS SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Room “Europe” (2nd floor)</th>
<th>Room “Mozart” (ground floor)</th>
<th>Exhibition (1st floor)</th>
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<tbody>
<tr>
<td>Tuesday, January 15, 2019</td>
<td>17.00 – 19.00 Pre-registration in the exhibition hall</td>
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<td>Wednesday, January 16, 2019</td>
<td>08.00 – 09.30 Registration and welcome coffee in the exhibition hall</td>
<td>09.30 – 09.50 Welcome and Introduction</td>
<td>09.50 – 10.30 KEYNOTE SPEAKER</td>
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<td>10.30 – 11.10 KEYNOTE SPEAKER</td>
<td>11.10 – 11.45 SURPRISE GUEST SPEAKER</td>
<td>11.45 – 12.00 Presenting of the “IERC HONORARY AWARD”</td>
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<td>12.00 – 13.30 Lunch in the exhibition hall</td>
<td>13.30 – 14.30 KEYNOTE SPEAKER</td>
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<td>16.10 – 17.00 Towards a Circular Economy II Smart Separation &amp; Shredding</td>
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<td></td>
<td>from 17.00 Cocktail reception in the exhibition hall sponsored by “Pooling Partners”</td>
<td>from 19.30 Networking dinner “OKTOBERFEST”</td>
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<tr>
<td>Thursday, January 17, 2019</td>
<td>08.00 – 09.00 Welcome coffee in the exhibition hall</td>
<td>09.00 – 10.30 Country Reports: South Africa, India, Peru, Hong Kong</td>
<td>10.30 – 11.00 Coffee break in the exhibition hall</td>
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<td>11.00 – 12.30 E-Plastics – Challenges &amp; Opportunities Smart Recovery Solutions</td>
<td>12.30 – 14.00 Lunch in the exhibition hall</td>
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<td>14.00 – 15.00 Managing the Lithium Battery Wave EUROPE: Rules &amp; Regulations Update</td>
<td>15.00 – 15.30 Coffee break in the exhibition hall</td>
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<td>15.30 – 17.00 ROUND TABLE “Impacts &amp; Opportunities of China’s Scrap Import Restrictions”</td>
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<td>17.00 – 17.15 WRAP UP / CLOSING REMARKS</td>
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<td>from 17.15 Farewell cocktail in the exhibition hall sponsored by “Pooling Partners”</td>
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<td>Friday, January 18, 2019</td>
<td>Plant tours: (buses leaving from in front of the Hotel Sheraton)</td>
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<td>08.00 – 17.15</td>
<td>Müller-Guttenbrunn Group, Amstetten/Kematen</td>
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**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 – 10.50  **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

11.00 – 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 Potočnik, UN International Resource Panel / SYSTEMIQ

Moderator: Jonathan Perry, Dell, United Kingdom

14.30 – 14.50  **KEYNOTE SPEAKER**

“Collaborative Partnerships – The Solution to Closed-Loop Recycling”

Steve Skurnac, Sims Group, USA

Jean-Luc Lavergne, Lavergne Group, Canada, Dean Miller, HP Inc., USA

14.50 – 15.10  **KEYNOTE SPEAKER**

“Circular Economy in Practice”

Lars Koch, Sony Europe for DIGITAL-EUROPE, Belgium

15.10 – 15.30  **KEYNOTE SPEAKER**

“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

16.10 – 16.30  **KEYNOTE SPEAKER**

“Towards a Circular Economy – 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  **KEYNOTE SPEAKER**

“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**
**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, Comimtel Recycling, Peru

10.00 – 10.20 “The New Electrical and Electronic Waste Recycling Plant in Hong Kong”
Nigel Matttravers, ALBA Group, Hong Kong

10.20 – 10.30 Q & A

12.30 – 14.00 Lunch in the exhibition hall

**Managing the Lithium Battery Wave**

Session Chairman: Roger Burri, Metal Depot Zurich AG, Switzerland

Dr Marco Ottaviani, ANIE-CSI, Italy

14.00 – 14.30 “The GDPR and its Main Implications for the WEEE Industry”
Kyriakos Parpounas, Parpounas Sustainability Consultants, Cyprus

14.20 – 14.40 “ADR Safe Handling and Transport of Lithium Batteries”
Tobias Schulze Wetendorf, Stiftung GRS Batterien, Germany

14.40 – 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

**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 Sliekhuis, 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 Viak, WEEE Forum, Belgium

“Fluff Waste Treatments: Metals Recovery and Enhancement through Mechanical Recycling Plants”
Matteo Turatto, Panizollo 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

15.00 – 15.30 Coffee break in the exhibition hall

15.30 – 17.00 **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:

REDUCE
REUSE
RECYCLE
**CONGRESS PROGRAM**

**FRIDAY, JANUARY 18, 2019**

**Plant tours**

[buses leaving from in front of the Hotel Sheraton]

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**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

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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.

+46 455 30 28 70 | info@mrtsystem.com | mrtsystem.com
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.


* No guarantee of arrival time due to traffic conditions. The plant tour will only take place with a minimum of 8 participants.
PLANT TOUR
FRIDAY, JANUARY 18, 2019

MONTANWERKE BRIXLEGG AG, BRIXLEGG

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.15</td>
<td>Departure by bus to Montanwerke Brixlegg AG</td>
</tr>
<tr>
<td>10.15</td>
<td>Arrival at Montanwerke Brixlegg AG</td>
</tr>
<tr>
<td>10.15 – 12.30</td>
<td>Visit to the refinery and foundry</td>
</tr>
<tr>
<td>14.30*</td>
<td>Arrival at Salzburg Airport</td>
</tr>
<tr>
<td>14.45</td>
<td>Arrival at Salzburg Congress</td>
</tr>
</tbody>
</table>

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

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

Our products are the bases for a wide range of High Technology applications in several business fields as Emobility, Power Transmitting, IT or Sustainable Building Technologies.

Find more: www.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.
EXHIBITING AND ADVERTISING

Reach key industry decision-makers and promote your products to all congress attendees.

The fees are:

- **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!
EXHIBITORS
AS PER JANUARY 3, 2019

- Bunting Magnetics Co.
- Tomra Systems Solutions
- Geodis
- Sensorsys GmbH
- Fraunhofer UMSICHT
- Erdwich Engineering Solutions
- URT Systems
- Erema Plastic Recycling Systems
- Bromine Council
- Hein Lehmann
- Spaleck
- AD REM
- T & B Electrons
- Eldan Recycling
- Steinert
- Guidetti
- MTB Recycling Solutions
- UNISensor
- TA-PO Industry Inc.
- Binder & Co.
- EPOKA IT Distributor
- SESOTEC
- Tegos Group
- Hamos
- IFE Material Handling
- Stokkermill Recycling Machinery
- Secon Trade
- Balcan Lamp Recycling Systems
- Eeriez
- Longi The Experts in Magnesium Technology
- Pooling Partners Faber Halbertsma Group
- PP Lamp Recycling Systems
- Prodigentia
- REFIND Technologies
- Bolinder
ICM AG
International Congress & Marketing
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5708 Birrwil, Switzerland
+41 62 785 10 00
+41 79 124 08 50 (Japanese)
+86 182 176 289 10 (Chinese)
info@icm.ch
www.icm.ch

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.

**REGISTRATION FEES**

<table>
<thead>
<tr>
<th>Service</th>
<th>before Nov. 30, 2018</th>
<th>after Nov. 30, 2018</th>
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</thead>
<tbody>
<tr>
<td>Congress fee</td>
<td>EUR 1'690</td>
<td>EUR 1'790</td>
</tr>
<tr>
<td>Fee for participants</td>
<td>EUR 1'090</td>
<td>EUR 1'190</td>
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<tr>
<td>Fee for students</td>
<td>EUR 690</td>
<td>EUR 790</td>
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<tr>
<td>Networking dinner (Jan. 16, 2019)</td>
<td>EUR 100</td>
<td>EUR 130</td>
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<tr>
<td>Networking dinner for spouse (Jan. 16, 2019)</td>
<td>EUR 120</td>
<td>EUR 150</td>
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<tr>
<td>Plant tours (Jan. 18, 2019) Montanwerke Brixlegg AG</td>
<td>EUR 50</td>
<td>EUR 70</td>
</tr>
<tr>
<td>Müllerguttenbrunn Group</td>
<td>EUR 50</td>
<td>EUR 70</td>
</tr>
<tr>
<td>voestalpine Stahlwelt</td>
<td>EUR 50</td>
<td>EUR 70</td>
</tr>
</tbody>
</table>

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

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.

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.

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

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.

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 lifelong 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 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.

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).

DR 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.
ANDRITZ's Universal Cross-Flow Shredder QZ breaks down composite materials quickly and gently with rotating chains so that the individual fractions are exposed. Parts containing hazardous substances are left intact, while potentially harmful gases are collected in compliance with WEEELABEX/CENELEC requirements. This single-stage process is conducted in a fully encapsulated system warranting high throughput and rapid access to extremely clean fractions while reducing costs for energy consumption and maintenance.

recycling@andritz.com

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BLUBOX.ch
Upcoming ICM Events:

**19th International Automobile Recycling Congress**  IARC 2019
March 20 – 22, 2019
Vienna, Austria

**E-Mobility & Circular Economy**  EMCE 2019
July 1 – 3, 2019
Tokyo, Japan

**24th International Congress for Battery Recycling**  ICBR 2019
September 18 – 20, 2019
Lyon, France

**19th International Electronics Recycling Congress**  IERC 2020
January 22 – 24, 2020
Salzburg, Austria
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