

IARC 2019

www.icm.ch

19th International Automobile Recycling Congress IARC 2019

March 20 – 22, 2019, Vienna, Austria



Patronage:

Alliance of Automobile Manufacturers
Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)
Austrian Federal Ministry of Sustainability and Tourism
Automotive Recyclers Association (ARA)
Automotive Recyclers of Canada (ARC)
Confederation of European Waste-to-Energy Plants (CEWEP)
European Association of Automotive Suppliers (CLEPA)
European Automobile Manufacturers' Association (ACEA)
European Group of Automotive Recycling Associations (EGARA)
European Recycling Industries' Confederation (EuRIC)
Japan Automobile Manufacturers Association (JAMA)
Japan Automotive Recyclers Association (JARA)
Malaysia Automotive Recyclers Association (MAARA)
PlasticsEurope
RECHARGE

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GROUP

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RECYCLING & METAL TRADING

Recycling
International

LKQ
OEM Recycled - Aftermarket by Keystone

TSR
THE METAL COMPANY

HYUNDAI

WELCOME ADDRESS



ELISABETH KÖSTINGER

Federal Minister for
Sustainability and
Tourism, Austria

We live in exciting times as regards economic and technological developments. Technological change is associated with considerable changes in many areas of our life. This is particularly true of societal mobility and the automotive industry. Electromobility, autonomous driving and the increasing shared use of automobiles are outstanding examples of this.

In view of global trends and the rising dependence on imported raw materials, our current economic system is not sustainable. The linear economic system, in which raw materials are extracted, processed and mostly used only once before they are disposed of, cannot be pursued forever. The circular economic model differs fundamentally from this approach; to be even more precise, it is obvious that the circu-

lar economy has become a necessity rather than an option.

In terms of recycling, the automotive sector – in conjunction with the recycling industry – has been exemplary for years. In compliance with the EU End-of-Life Vehicles (ELV) Directive, high recycling rates are being achieved in most European countries. Recycling rates of 85% and recovery rates of 95% are impressive given the complex mix of materials. Automobiles are among the most recycled consumer products; to ensure that this remains the case and to implement a circular economy in this sector, a multitude of tasks must be mastered.

The circular economy goes beyond recycling. Intelligent product design is crucial when it comes to recyclability and a reduction of environmental pol-

lution. To date, however, life-cycle thinking and the recyclability of materials and products have barely been taken into account in design and production.


Electromobility is regarded as one of the technology fields of the future. The recycling of electric vehicles will definitely gain in importance. The dismantling and recycling of lithium-ion batteries still pose a particular challenge. New solutions need to be found and current research work is being dedicated to this topic. From a waste management perspective, significant changes can be expected in the field of ELV treatment.

The 19th International Automobile Recycling Congress will address all these topics and, for the first time, turns the spotlight on the issue of electromobility. The benefits of a circular economy in the field of

vehicles will also be presented during the congress.

Attending this conference will enable you to access unique, high-quality content, to learn from experts about the latest developments in the management of ELVs, and to network with an interdisciplinary group from around the world. You can certainly expect a full and interesting agenda. I am convinced that this conference will make a significant contribution to meeting the challenges ahead.

I wish you a remarkable and enjoyable stay in Vienna!

 **Federal Ministry**
Sustainability and Tourism

FOREWORD



MANFRED BECK

Chairman of
the Steering Committee
International Automobile
Recycling Congress

"Never change a winning team" is a common expression in the English language. The International Automobile Recycling Congress IARC 2019 is sticking to this maxim and will once again take place in the Austrian capital of Vienna.

The IARC is recognised by all of those involved in the car recycling chain as the most important and informative meeting in the world. Once again, IARC 2019 is expected to attract hundreds of car recyclers and manufacturers, as well as local, European and global politicians among many others. Attendees will gather in Vienna to hear about the latest relevant developments from leading policy-makers and experts in the vehicle manufacturing and recycling arenas.

Opening & Keynote speakers

For its 2019 edition, IARC is proud that the congress will be opened by DI Christian Holzer of the Austrian Federal Ministry of Sustainability and Tourism. He will make a short welcome speech.

As Chairman of the Steering Committee of the IARC, I will look back on what the EU ELV Directive has – or has not – brought the industry since it was introduced in 2000.

On the second day, Johann Prammer of Austrian steelmaker voestalpine will offer his insights on "Steel Industry – Technology Trends for Processors and Materials for 2050".

Panel discussion

A panel discussion entitled "Opportunities of the Circular Economy" will shed light on the benefits and pitfalls of the circular economy for the car recycling industries. A 20-minute keynote intro-

ductory presentation entitled "Mobility's Circular Economy Potential" will be delivered by Andreas Tschiesner of McKinsey & Company, Inc., Germany. During the discussion, moderated by Roger Burri and Steve Hope, five experts will discuss the challenges of a circular economy. Expect fireworks and controversial points of view.

Hot topics

During the three-day event, the following topics will be among those to be addressed:

Reuse & Recycling: Closed-loop recycling at car manufacturer Renault of France; From ELV to valuable plastic compounds; Demands for more reuse and recycling according to metals recycler Scholz Recycling

Legislation & Regulation: Review of the ELV Directive; Car makers' views on ELV Directive changes; Waste and chemical legislation - a new challenge

Car dismantling: Hybrid & electric vehicles: risks and rewards for recyclers

Technology: The importance of recycling in the growth of electric vehicles; Volvo's response to the EU's plastics strategy

Sorting & Classification: Classification of scrap in an automated scrapyard using artificial intelligence; The unstoppable advance of XRF-based sorting; The risks of chemicals in end-of-life tyres

E-Mobility & Battery Recycling: Life-cycle management of xEV batteries in practice; FIREBOX: a Safe Solution for Transportation of Lithium-Containing Devices; Recycling of Lithium-ion Batteries in Electric Vehicles – Opportunities and Challenges

Country Reports: ELV recycling in Argentina under siege; ELV recycling in Germany and ELV recycling in India.

Plant Tours

For the day after the congress, the organisers are offering interesting tours to leading companies in the recycling industry: Scholz Austria Group, voestalpine Stahlwelt and ISOVOLTA AG.

Networking

And, of course, no congress can succeed without extensive networking opportunities. IARC 2019 has an exciting array of coffee breaks, lunches, cocktail receptions and a networking dinner in the famous Kursalon – only a 5-minute walk from the congress hotel.

I look forward to welcoming you to IARC 2019 in Vienna.

INTERNATIONAL STEERING COMMITTEE



MANFRED BECK
Chairman
Recycling Consultant
Netherlands



JAN BOLLEN
ArcelorMittal Europe
Environmental &
Climate Change Affairs
Manager
Belgium



STEVE HOPE
Toyota Motor Europe NV/SA
General Manager
Environmental Affairs and
Corporate Citizenship
Belgium



RICHARD PAUL
Environmental
Management
Consultant
USA



OLIVIER FRANÇOIS
Vice-Chairman
Group GALLOO
Market Development Officer
France



**DR FRANCESCO
BONINO**
Fiat Chrysler Automobiles
Vehicle Safety & Regulatory
Compliance, LCA & ELV Expert
Italy



JANET KES
ARN Holding B.V.
Manager Public &
Corporate Affairs
Netherlands



WILLY TOMBOY
RECHARGE
Chairman of the
Industrial Battery
Working Group
Belgium



JULIEN VAN DAMME
Chairman of the Lecture Group
Honda Motor Europe Ltd.
Recycling Manager
Belgium



ROGER BURRI
Air Mercury AG
President
Switzerland



**FERDINAND
KLEPPMANN**
CEWEP
Honorary President
Germany



DR JENS WARSEN
European Automobile
Manufacturers'
Association – ACEA
Environmental Policy Director
Belgium



DR RUGGERO ALOCCI
Alocci Rappresentanze
Industriali
President
Italy



DANIEL CHRISTEN
Foundation Auto
Recycling Switzerland
Managing Director
Switzerland



WALTER KLETZMAYR
Österreichische Shredder -
Altautoentsorgungs- und
Entwicklungs-GmbH & Co KG
General Manager
Austria



ROGER BLESİ
Thévenaz-Leduc SA
CEO
Switzerland



JOSEPH M. HOLSTEN
LKQ Corporation
Chairman of the Board
USA



**CATHERINE
LENAERTS**
Febelauto
Managing Director
Belgium

OPENING & KEYNOTE SPEAKERS



DI CHRISTIAN HOLZER

Federal Ministry of Sustainability and Tourism
Director General
Department V – Waste Management, Chemicals
Policy and Environmental Technology
Austria

“Welcome Speech”

ANDREAS TSCHIESNER

McKinsey & Company, Inc.
Senior Partner
Germany

“Mobility’s Circular Economy Potential”



MANFRED BECK

Chairman of the Steering Committee of IARC
Recycling Consultant
Netherlands

“Introduction: Looking Back on 19 Years
of ELV Directive – What has it Brought
the Industry?”

JOHANN PRAMMER

voestalpine AG
Head of Strategic Environmental Management
Austria

“Steel Industry – Technology Trends
for Processes and Materials for 2050”



A number of rooms are held at a discounted rate for the participants by registering by **January 31, 2019**. If you wish, you may also extend your stay at the same rates.

Vienna International Airport is located about 16 km east of Vienna in Schwechat. The city center can be reached within a 20-minute ride by public transport or taxi.

With more than 1.8 million inhabitants Vienna is situated on the Danube and is the seventh largest city of the European Union. Architecturally Vienna is stamped by the "Baroque and Jugendstil" with the wonderful buildings around the Viennese ring road which derived from the period of promoterism.

Vienna Marriott Hotel*****
Parkring 12a
1010 Vienna
Austria

Phone +43 1 515 180
www.viennamarriott.com

IMPORTANT NOTICE:

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

**VIENNA – A CITY OF PROUD PALACES AND
PEACEFUL PARKS, A HOME TO EMPERORS
AND ART, STRAUSS AND SISSI**

There are many good reasons to travel to Vienna: The city is world famous for its magnificent imperial heritage, for Schönbrunn Palace, Belvedere Palace and for Hofburg Palace.

Vienna scores like no other city with its exceptional music and cultural programme in concert halls, museums and on stages from the Golden Hall in the Musikverein to the renowned Kunsthistorische Museum (Museum of Art History) right up to the Vienna State Opera. Vienna is also synonymous with a tradition of refined tasteful enjoyment which has established itself over centuries in the coffee houses and wine taverns.

And last but not least, over half of Vienna's urban area is made up of relaxing green spaces, parks and gardens, the Vienna Woods and the Danube Floodplains.

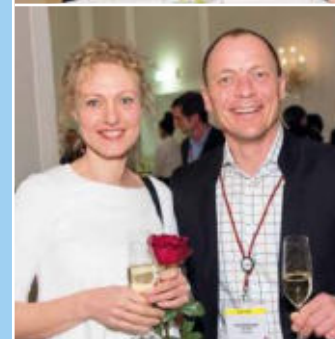
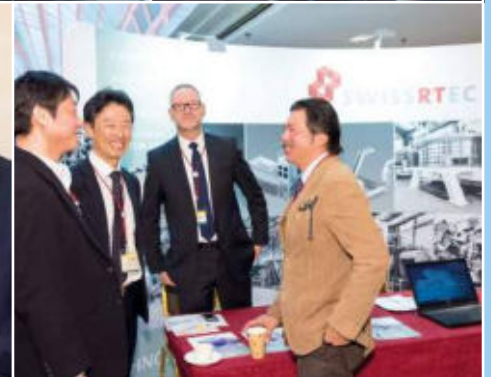
A walk through Vienna is like going on a journey through time to the imperial past. No wonder the historical city centre was named a world heritage site by UNESCO. Vienna boasts more than 27 castles and 163 palaces. On every corner you can discover valuable cultural artefacts or dream of the good old imperial period in a coffee house.

www.vienna.convention.at



WHO SHOULD ATTEND?

- Automobile importers and dealers
- Automobile manufacturers
- Automotive parts and materials suppliers
- Battery manufacturers
- Collection and transportation companies
- Environmental authorities
- Ferrous and non ferrous metal traders
- Ferrous and stainless steel industry
- Financing organizations for ELV recycling
- Laboratories for material science
- Non ferrous metal industry
- Plastics industry
- Recycling and dismantling companies
- Shredding companies
- Universities and research institutes





CONGRESS PROGRAM IARC 2019

TUESDAY, MARCH 19, 2019

17.00 – 19.00 Pre-registration

WEDNESDAY, MARCH 20, 2019

08.00 – 09.00 Registration and welcome coffee in the exhibition area

OPENING AND KEYNOTE SPEAKERS

09.00 – 09.20 "Welcome"
Manfred Beck, Chairman of the Steering Committee

DI Christian Holzer, Federal Ministry of Sustainability and Tourism, Austria

09.20 – 09.40 "Introduction: Looking Back on 19 Years of ELV Directive – What has it Brought the Industry?"
Manfred Beck, Chairman of the Steering Committee

09.40 – 11.00 Panel Discussion: "Opportunities of the Circular Economy"

Moderators:

Roger Burri, Air Mercury AG, Switzerland
Steve Hope, Toyota Motor Europe NV/SA, Belgium

Keynote Introduction:

"Mobility's Circular Economy Potential"
Andreas Tschiesner, McKinsey & Company, Inc., Germany

Participants:

Pierre Gaudillat, European Commission Joint Research Centre, Spain
Henk Jan Nix, EGARA, Netherlands
Olivier François, Group Galloo, France
Andreas Tschiesner, McKinsey & Company, Inc., Germany
Johann Prammer, voestalpine Stahl GmbH, Austria

11.00 – 11.30 Coffee break in the exhibition area

Session 1: Legislation & Regulation

Session Chairman: Willy Tomboy, RECHARGE, Belgium

11.30 – 12.00 "The Upcoming Review of the ELV Directive"
Artemis Hatzi-Hull, European Commission, Belgium

12.00 – 12.30 "Potential Changes of the ELV Directive – Challenges from the Automotive Perspective"
Jens Warsen, ACEA, Belgium

12.30 – 13.00 "The Interface of Waste and Chemical Legislation – A New Challenge"
Chris Slijkhuis, Müller-Guttenbrunn Group, Austria

13.00 – 14.15 Lunch in the exhibition area

Session 2: Reuse & Recycling

Session Chairman: Julien Van Damme, Honda Motor Europe Ltd., Belgium

14.15 – 14.45 "The Circular Ecosystem and Closed Recycling Loops set up by Groupe Renault"
Jean-Denis Curt, Groupe Renault, France

14.45 – 15.15 "Demands for more Reuse and Recycling"
Dr Klaus Hauschulte, Scholz Recycling GmbH, Germany

15.15 – 15.45 "From ELV to Valuable Plastic Compounds"
Jannick Sercu, GALLOO Plastics S.A., France

15.45 – 16.15 Coffee break in the exhibition area

Session 3: Dismantling

Session Chairman: Joseph M. Holsten, LKQ Corporation, USA

16.15 – 16.45 "Telematics, Data Sharing and Transparency of Vehicle Repair & Motor Claims Process – How this will Impact the Use of Recycled Parts in Vehicle Repair?"
Andy Latham, Salvage Wire Ltd., United Kingdom

16.45 – 17.15 "The Green Repair: Used Parts are Easy to Order and Make the Automotive Circle Round"
Henk Jan Nix, EGARA, Netherlands

17.15 – 17.45 "Hybrid & Electric Vehicles – The Risks and Rewards for Vehicle Recyclers"
Jason Cross, FAB Recycling Ltd., United Kingdom

19.00 Meeting point in the hotel lobby of the Vienna Marriott Hotel

19.15 Cocktail reception & networking dinner at the famous Kursalon
(5-minute walk from the congress hotel)



CONGRESS PROGRAM IARC 2019

THURSDAY, MARCH 21, 2019

08.00 – 09.00 Welcome coffee in the exhibition area

Session 4: Country Reports

Session Chairman: Richard Paul, Environmental Management Consultant, USA

- 09.00 – 09.30 "Argentina Automotive Recycling Industry in Danger – Could it be Expanded to the Region and the World?"
Maximiliano Marques, Nuevo Horizonte SA, Argentina
- 09.30 – 10.00 "End-Of-Life Vehicle (ELV) Recycling in Germany – Challenges and Opportunities"
Olaf Pusch, TSR Recycling GmbH & Co. KG, Germany
- 10.00 – 10.30 "Resource Recovery through Recycling Automobiles in India"
Dr Lakshmi Raghupathy, Former Director, Ministry of Environment & Forests, Advisor / Consultant Environment & Waste Management, India

10.30 – 11.00 Coffee break in the exhibition area

KEYNOTE SPEAKER

- 11.00 – 11.30 "Steel Industry – Technology Trends for Processes and Materials for 2050"
Johann Prammer, voestalpine Stahl GmbH, Austria

Session 5: Materials & Technology

Session Chairman: Jan Bollen, ArcelorMittal Europe, Belgium

- 11.30 – 12.00 "Importance of Recycling to Support the Growth of EVs"
Maarten Quix, Umicore Battery Recycling, Belgium
- 12.00 – 12.30 "Volvo Cars Sustainable Future and Approach to Plastic"
Niklas Kilberg, Volvo Car Corporation, Sweden

12.30 – 14.00 Lunch in the exhibition area

Session 6: Sorting & Classification

Session Chairman: Jan Bollen, ArcelorMittal Europe, Belgium

- 14.00 – 14.30 "QSYM2: Automatic Scrap Yard with Classification of Scrap via Artificial Intelligence"
Daniele Stelluto, Danieli Centro Cranes, Italy
- 14.30 – 15.00 "What the Eddy Current was 10 Years ago will XRF-Based Sorting be in 2 Years from Now?"
Martin Weiss, REDWAVE / BT-Wolfgang Binder GmbH, Austria
- 15.00 – 15.30 "The Risks of Chemicals in End-Of-Life Tyres"
Barend ten Bruggencate, Chairman of the BIR's Tyres & Rubber Committee, Netherlands

15.30 – 16.00 Coffee break in the exhibition area

Session 7: E-Mobility & Battery Recycling

Session Chairman: Catherine Lenaerts, Febelauto, Belgium

- 16.00 – 16.30 "Life Cycle Management of xEV Batteries in Practice"
Dirk Spiers, Spiers New Technologies, USA
- 16.30 – 17.00 "FIREBOX – A Safe Solution for Transport of Lithium Containing Devices"
Andreas Krebs, BLUBOX Trading AG, Switzerland
- 17.00 – 17.30 "Recycling of Lithium-ion Batteries in Electric Vehicles: Opportunities and Challenges"
Zhangqi Wang, ACCUREC Recycling GmbH, Germany

17.30 – 17.45 "Wrap-up / Closing Remarks"
Manfred Beck, Chairman of the Steering Committee

from 17.45 Farewell reception in the exhibition area

"ROCK ME AMADEUS" FALCO-NIGHT



Join us on Wednesday, March 20, 2019 at a memorable networking dinner at the historical location "Kursalon", one of the most exclusive and splendid buildings of Vienna – accompanied by a "Tribute to Falco show" in the beautiful "Vienna Ballroom".



Have a great time
with friends and business
partners in a nice
atmosphere!



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Participants registering and paying **before January 31, 2019** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

REGISTRATION FEES

Congress fee

Fee for participants

Fee for speakers

Fee for students*

*only with valid student card and age below 30

**before
Jan. 31, 2019**

EUR 1'590

EUR 990

EUR 690

after

Jan. 31, 2019

EUR 1'690

EUR 1'090

EUR 790

Networking dinner (March 20, 2019)

EUR 100

EUR 120

Networking dinner spouse (March 20, 2019)

EUR 120

EUR 150

Plant tours (March 22, 2019)

ISOVOLTA AG, Werndorf

EUR 50

EUR 70

Scholz Austria Group, Laxenburg

EUR 50

EUR 70

voestalpine Stahlwelt, Linz

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/iarc-2019

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.

REGISTER BY
JAN. 31, 2019
AND PROFIT FROM
DISCOUNTED RATES

EXHIBITION AND POSTER PRESENTATIONS

EXHIBITORS
AS PER NOVEMBER 26, 2018



The exhibition area provides your company with the perfect opportunity to reach key industry decision-makers. Promote your products and services to all congress attendees. The fees are:

Booth 6 m² (2 m x 3 m)	EUR 3'690
Poster presentation (wall rental)	EUR 390
Display board (1 m x 2 m)	EUR 690

Space is limited, book today!



Feels like the future.

TEST DRIVE THE FUTURE AT
IARC 2019!



The new Hyundai NEXO.

We all have a vision for a better tomorrow.
Ours is to make the world a better place.
NEXO produces zero emissions, purifying
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TOYOTA

ALWAYS A
BETTER WAY



**TEST DRIVE
THE FUTURE
AT IARC 2019**
TOYOTA MIRAI
**THE WORLD'S FIRST MASS PRODUCED
HYDROGEN FUEL CELL SEDAN**

Official Hydrogen Consumption Figures for the Toyota Mirai in kg/100 km: Urban 0.69, Extra Urban 0.80, combined 0.76. Power Consumption 0 kWh/100 km. CO₂ Emissions combined 0 g/km.

PLANT TOUR

FRIDAY, MARCH 22, 2019

SCHOLZ AUSTRIA GROUP, LAXENBURG



08.30	Departure by bus to Scholz Austria Group
09.15	Arrival at Scholz Austria Group
09.15 – 12.45	Visit to the shredder plant
13.30*	Arrival at the airport Vienna (Schwechat)
14.15	Arrival at the Vienna Marriott Hotel

Scholz Austria is a market leader in recycling of steel scrap and nonferrous metal scrap. Especially when it comes to end-of-life vehicle (ELV) recycling Scholz Austria has a powerful network and considerable knowledge. The process engineering concepts developed in close cooperation with universities for the processing of light and heavy shredder fractions, as well as plastics, lead to a rate of nearly 90% in material recycling only. It stands to reason that Scholz's engineering activities include recycling concepts for future electro ELV recycling, as well as the processing and recycling of electrical appliances.

This sense of forward-thinking and quality for our processes and products is the reason why Scholz Austria has cooperated with one of the leading steel mills in the world. In 2007 Voestalpine and Scholz formed a joint venture to guarantee compliance to the highest standards of steel production. Scholz Austria performs as a reliable and flexible partner with tailor-made solutions customers require.

Hundreds of skilled employees are taking care of household and industrial metal recycling every day in Austria. Additionally an efficient logistic network makes Scholz Austria cooperate globally within the German-based Scholz Recycling and the Asian Chiho Environmental Group. Together the Group is a global leader in the metal recycling and environmental protection industry. The Group currently has a presence in over 30 countries and regions spanning Europe, Greater China, and North America, operating more than 250 sites including metals processing facilities equipped with the one-stop system for collecting, gathering, sorting and processing.

www.scholz-austria.at/en

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



Austria's number 1
in recycling of steel
and nonferrous metal scrap.



www.scholz-austria.at

PLANT TOUR

FRIDAY, MARCH 22, 2019

ISOVOLTA AG, WERNDORF



08.00	Departure by bus to ISOVOLTA AG, Werndorf
10.30	Arrival at ISOVOLTA AG, Werndorf
10.30 – 14.00	Visit to a production plant of preregs, laminates and composite material
17.00*	Arrival at the airport Vienna (Schwechat)
17.45	Arrival at the Vienna Marriott Hotel

Since 1949 partners from more than 20 industries have relied on **ISOVOLTA's** broad product portfolio with customized product developments.

The passion for the combination of various materials with unique properties to superior technical laminates and composites has enabled the ISOVOLTA Group to become a leading international player of the industry.

ISOVOLTA's laminates allow the uniting of required properties of various materials in one product, e.g. electrical insulation + thermal conductivity + mechanical strength.

www.isovolta.com



Combination of properties

ISOVOLTA's laminates allow to unite required properties of various materials in one product, e.g. electrical insulation + thermal conductivity + mechanical strength.

Electrical Insulation Layer
Thermal Conductive Layer
Mechanical Strength Layer

ONE STOP SHOP

1 Semi-finished materials

- Lamination
- Impregnation
- Coating
- Composites

2 Converting

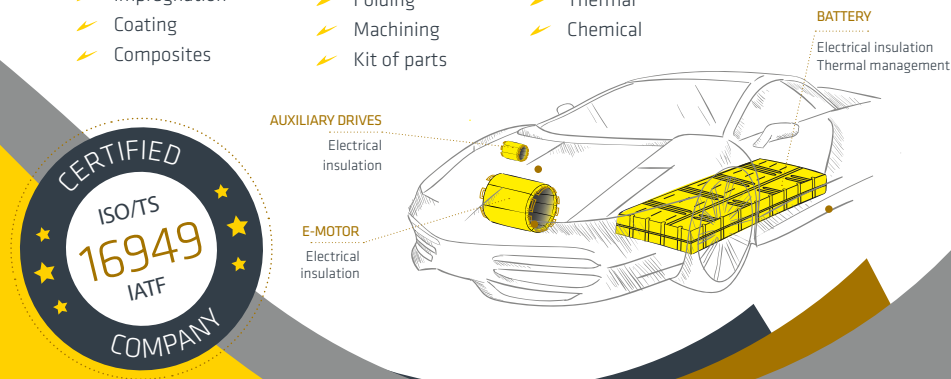
- Punching
- Slitting
- Folding
- Machining
- Kit of parts

3 Testing

- Electrical
- Mechanical
- Thermal
- Chemical

4 Training

- Insulation material
- Insulation systems



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

PLANT TOUR

FRIDAY, MARCH 22, 2019

VOESTALPINE STAHLWELT, LINZ



08.30	Departure by bus to voestalpine Stahlwelt
11.00	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
16.30*	Arrival at the airport Vienna (Schwechat)
17.15	Arrival at the Vienna Marriott Hotel

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.

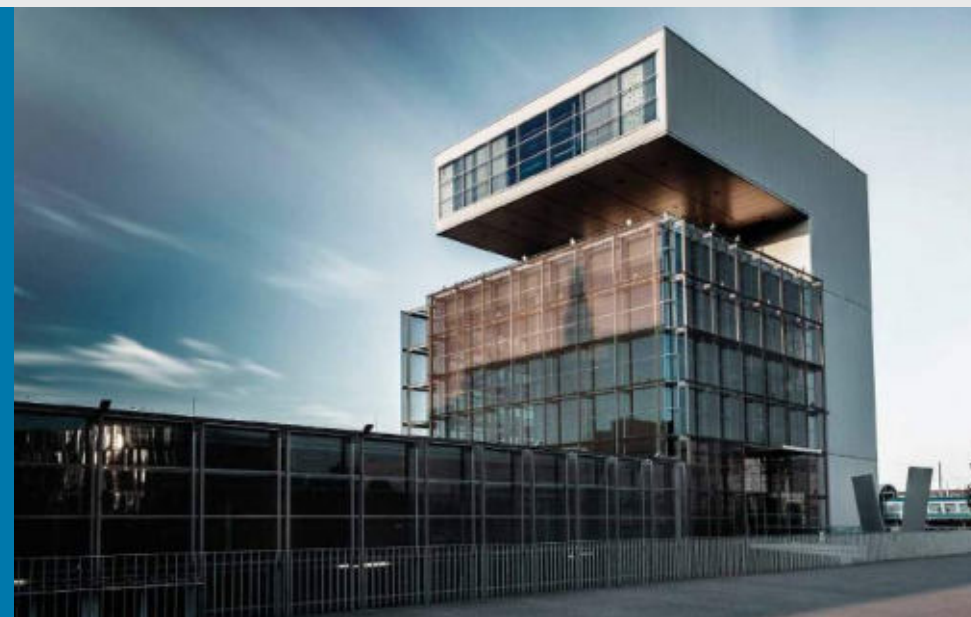
The voestalpine steel plant is one of the cleanest and most innovative in the world. A claim many steel plants make – but how many allow a glimpse of what is on the other side of the factory gate? voestalpine does and even goes one step further: After you visit the exhibition in the voestalpine Stahlwelt,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

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



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

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- Stainless steel
- Cables
- Copper
- Brass
- Aluminium

IMRO increases your recycling output.
DSS Falcon - a selective multi-spectral and optical sensation. The newest sensor-based system DSS Falcon is raising the bar of your recycling processes.

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Air Management System
Independent Sensor for Metals and Carbon



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EFFICIENT SEPARATION OF ZORBA AND IBA



THE VULTURE

The global market for aluminum scrap is vastly expanding and is expected to grow at an annual rate of 7% over the next five years.

To tackle the ever increasing demand for aluminum scrap Ad Rem has developed the VULTURE, a compact and highly efficient installation for the separation of Zorba and IBA. During design of the VULTURE the Ad Rem team has focused on reducing running costs while maintaining an exceptional aluminum quality.



- + Low running costs
- + High grade aluminum
- + For Zorba and IBA

reneos

Tailor-made solutions for the afterlife of EV batteries

by a.o. Batteriretur (Norway), Bebat (Belgium), Cobat (Italy), Corepile (France), Ecobatterien (Luxemburg), Ecopilas (Spain), G&P (UK), GRS (Germany), Stibat (The Netherlands).

- Collection, storage, recycling solutions
- Online software platform including track & trace system and dashboard
- Single point of contact
- ADR compliant
- Years of battery experience and market leadership

Ad Rem — Krommebeekstraat 14, Menen
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ICM AG
International
Congress & Marketing
Schwaderhof 7
5708 Birrwil, Switzerland

+41 62 785 10 00
+86 182 176 289 10 (Chinese)

info@icm.ch
www.icm.ch

ORGANIZER



**JEANETTE
DUTTLINGER**
Congress Organizer



**SANDRA
MANNHART**
Congress Assistant



**ANGELA
DORNBIERER**
Congress Assistant



**ANNA ROSA
BAUMANN**
Congress Assistant



**YING
LIU REICHENBACH**
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**MICHAL
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Congress Assistant



**SUSANN
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Upcoming ICM Events:

www.icm.ch

18th International Electronics Recycling Congress IERC 2019

IERC
2019

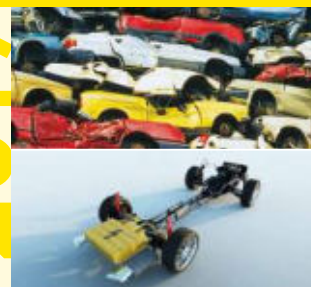


January 16 – 18, 2019
Salzburg, Austria



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



FireBox SECURE YOUR LOGISTICS FOR LITHIUM BATTERIES AND ELECTRIC VEHICLES

STORAGE



20- or 40-foot-container

EV-SALVAGE



LOGISTICS



Integrated FirePro fire alarm and Aerosol extinguishing system



BASIC EQUIPMENT

- 20- or 40-foot-container
- Fire alarm and Aerosol extinguishing system
- Light

AEROSOL EXTINGUISHING SYSTEM

- For fire classes A/B/C and F
- FirePro technology extinguishes fires at a molecular level by interrupting the chemical chain reaction in the source of the fire without depriving it of oxygen

OPTIONS

- Sprinkler system with Storz connection
- Collection tray for liquids
- Battery power supply
- Sliding platform
- Winch
- Hook system for use as roll-off container
- Side doors
- Fire extinguishers

FireBox protects you and your business. Do not run the risk of a lithium battery setting your business on fire.



BLUBOX Trading AG
Schwaderhof 7, 5708 Birrwil, Switzerland
P +41 62 785 1003, M +41 79 208 93 09
info@blubox.ch

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