



25th International Congress for Battery Recycling ICBR 2020

September 16 – 18, 2020, Salzburg, Austria





PATRONAGE:

- Australian Battery Recycling Initiative (ABRI)
- Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)
- Call2Recycle, Inc.
- EUCOBAT
- European Battery Recycling Association (EBRA)
- European Electronics Recyclers Association (EERA)
- European Portable Battery Association (EPBA)
- Federal Ministry for Climate Action, Environment, Energy, Mobility. Innovation and Technology, Austria
- Light Electric Vehicle Association (LEVA-EU)
- The Advanced Rechargeable & Lithium Batteries Association (RECHARGE)
- The Rechargeable Battery Association (PRBA)



























WELCOME ADDRESS

LEONORE GEWESSLER, BA Federal Minister for Climate Action, Environment, Energy, Mobility, Innovation and Technoloay

European Commission adopted a new Circular Economy Action Plan, which is one of the main building blocks of the European Green Deal, Europe's new agenda for sustainable economic development. With measures along the entire life cycle of products, the new Action Plan focuses on the design and production for a circular economy making sustainable products the norm in the EU, fostering sustainable consumption and ensuring less waste by transforming it into high-quality secondary resources. Aiming to ensure that the resources used are kept in the EU economy for as long as possible the new Circular Economy Plan presents measures to the sectors that use most resources and where the potential for circularity is high. This includes for instance electronics and informa-

On 11th March 2020, the

tion and communication technology, vehicles and batteries.

The import of batteries into the EU brings significant quantities of chemicals and engineered substances used in the manufacture of batteries to the EU market. Their management at endof-life is at the origin of the Batteries Directive 2006/66/EC. Years after its implementation, the Directive is considered to have delivered positive results in terms of a better environment, promoted recycling and improved the functioning of the internal market for batteries and recycled materials. However, the review of the Directive has also identified a number of key issues that require adaptation of the Directive.

In addition, the European Commission will continue to implement the Strategic Action Plan on Batteries and support the European Battery Alliance. The Commission's first progress report on the implementation of the Strategic Action Plan on Batteries shows that a variety of actions have been launched to develop a significant battery industry in the EU. To progress swiftly on enhancing sustainability of the emerging battery value chain for e-mobility and boost the circular potential of all batteries, this year the Commission will propose a new regulatory framework of batteries.

The International Congress for Battery Recycling has become a major event in the European waste community. The 25th anniversary in Salzburg will particularly focus on battery recycling technologies. The three days are going to be enriching for the international community of experts and decision makers of the battery recycling value chain. We can look forward to many interesting presentations, exhibitions and plant tour, as well as mutually fruitful discussions and collaborations.

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



FOREWORD

DR JEAN-POL

WIAUX Chairman of the Steering Committee International Congress for Battery Recycling

On October 10, 2019, Nobel Prize in Chemistry laureate **Akira Yoshino** declared:

"Battery Recycling is Key to Meeting Electric Car Demand..."

Advanced Battery Technology became one of the leading intermediate storage technologies for electrical power. Hence, another industrial revolution similar to the development of electricity a century ago is expected. Battery Recycling is key for the development of the battery industry as it will significantly impact the battery supply chain.

The media is now closely following battery technology development. Newspapers inform their readers about local and international developments in e-mobility; policy makers support the use of EVs in major cities; citizens vote to eliminate "thermal engine cars" by 2050 and in line with this transport policy the moratorium on Coal Fired plants in Germany by 2038 appears to promote the shift to electrical energy production by renewable sources.

The Covid19 pandemic crisis has revealed the weaknesses of a linear economy based on the concept of "too big to fail", leading to a return of concepts such as selfsufficiency (lower alobal dependence) or rebuilding strategic autonomy, in the field of health care. food and energy supply, among others. These precautionary measures were preoccupations after WW2 and have been progressively abandoned over the last 50 years.

In the 20th Century, industrial battery recycling activities developed close to battery production plants, motivated by the value of recovered materials and the increasing cost of waste management. Manufacturing rejects were the daily feedstock of recycling plant capacity. Today the development of global markets creates an environment where industrial actors are looking for secondary sources of raw materials all around the world.

The current business slowdown may be an opportunity for Europe to reinforce its expertise in the production and recycling of batteries in a modern circular economy context while shortening supply chains.

To better integrate the circular economy, the battery (recycling) industry need to cooperate with OEMs to secure collection of materials, to deliver them to recycling plants and to reintegrate the recovered commercial grade materials such as metals or chemicals into the value chain. The EU Battery Value Chain funding program is aiming at supporting this approach.

Salzbura and Austria are offering a diversified panel of battery related activities: from mining of lithium-containing Spodumene rocks to research on advanced processes for battery material recycling as well as the sustainable development of NF metals applications. Finally EV developments of one of the most famous brand names of the European Car Industry "Porsche" is also contributing to the fame of the city of Salzburg.

Join us at the 25th anni-

versary of ICBR. It will

give you the opportunity

to forge your personal

opinion on the above

questions and more: EU battery policy, Circular Economy, EU Green Deal, EU Battery Alliance, battery second life, recycling technologies...

It will offer you a unique networking opportunity as ICBR has been "the place to be" to meet the experts of the battery recycling business world for a quarter of a century.

INTERNATIONAL STEERING COMMITTEE



DR JEAN-POL WIAUX Chairman Consultant Switzerland



JACQUES DAVID Consultant France



GEORGIOS CHRYSSOS Chairman of the Lecture Group Stiftung GRS Batterien Managing Director Germany

ARIE DE JONG STIBAT Services General Manager Netherlands



DR DIETER OFFENTHALER Batrec Industrie AG Managing Director Switzerland



VAN PEPERZEEL Van Peperzeel B.V. Managing Director Netherlands

JOHAN



CARL E. SMITH Call2Recycle, Inc. CEO/President USA



DR ALAIN VASSART EBRA General Secretary Belgium



LIBBY CHAPLIN Australian Battery Recycling Initiative (ABRI) Chief Executive Director Australia

PATRICK DE METZ Saft Corporate Environmental and Governmental Affairs Director France



HANS CRAEN European Portable Battery Association (EPBA) Secretary General Belgium

USA

GEORGE A. KERCHNER PRBA – The Rechargeable Battery Association Executive Director



DR REINER TH. SOJKA ACCUREC Recycling GmbH Managing Partner Germany



HIROHITO TERAOKA FDK Corporation Senior Director Product Business Promotion Office Japan



KEYNOTE SPEAKERS



LEOPOLD FELLINGER

Porsche Austria GmbH & Co OG Chief Creative Officer Head of MOONCITY Austria

MATTIA PELLEGRINI

European Commission Head of Waste Management & Secondary Materials Belgium



"The New Batteries Directive Framework"



ROMAN STIFTNER

Austrian Non-Ferrous Metals Federation Managing Director Austria

"Battery Materials in a Circular Economy: Case of Austria"

"MOONCITY: On a Mission to the Future"

PROF. VEENA SAHAJWALLA

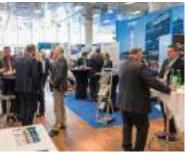
Centre for Sustainable Materials Research & Technology University of New South Wales Director Australia

"SMaRT Microfactories[™] Adding Value by Creating Circular Economies for Battery Materials"



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

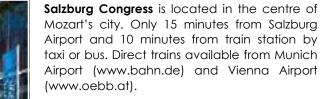
LOCATION OF THE CONGRESS



Salzburg Congress Auerspergstrasse 6 5020 Salzburg, Austria



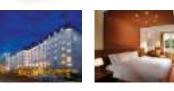
Phone +43 662 889870 Fax +43 662 88987210 www.salzburgcongress.at



The 25th International Congress for Battery Recy-

cling ICBR 2020 will be held at the:













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

ACCOMMODATION

HOTEL

Hotel ACHAT Plaza Zum Hirschen Salzburg **** Phone +43 662 889030 www.zumhirschen.at 5 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





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.

The question as to what Salzburg has to offer in autumn is easily answered: It's all about the sounds of jazz on the streets, folk culture and leisurely walks without having to fight the throngs. Now is the best time to discover Salzburg's rich beer culture, either enjoyed in authentic folk costume or simply just the way you are. And as the temperatures slowly drop, many expeditions inevitably turn indoors.





www.salzburg.info/en

Rich harvest – colorful leaves

Autumn time is harvest time. It is now that Salzburg's markets show off the abundance of their crops. Fresh fruit and vegetables as far as the eye can see. But it isn't just the market stands that treat us to a brilliant display of color. Nature becomes every bit as vivid, inviting you to go hiking and walking. There is definitely no shortage of opportunities to do so here in Salzburg – both right in the heart of the city, as well as on the nearby Untersberg.



Musical Autumn

Anyone who expects Salzburg to turn quiet upon conclusion of the summer festival, couldn't be more wrong. That merely marks the beginning of a season filled with diversity: The sounds of classical music can be heard, for example, during Salzburger Kulturtage, while international and Austrian musicians perform at the coolest locations in Salzburg during Jazz & The City – and admission is free. In autumn, much of the music you hear is performed in public spaces, truly transforming the whole city into a stage.





CONGRESS PROGRAM ICBR 2020

TUESDAY, SEPTEMBER 15, 2020

17.00-19.00 Pre-registration

WEDNESDAY, SEPTEMBER 16, 2020

08.00 - 09.00 Registration and welcome coffee in the exhibition area

Session 1: Opening & Keynote Speakers

09.00 - 10.45 "Welcome and Introduction" Dr Jean-Pol Wiaux, Chairman of the Steering Committee

> "MOONCITY: On a Mission to the Future" Leopold Fellinger, Porsche Austria GmbH & Co OG, MOONCITY, Austria

"Battery Materials in a Circular Economy: Case of Austria" Roman Stiftner, Austrian Non-Ferrous Metals Federation, Austria

"The New Batteries Directive Framework" Mattia Pellegrini, European Commission, Belgium

"SMaRT MicrofactoriesTM Adding Value by Creating Circular Economies for Battery Materials" Prof. Veena Sahajwalla, Centre for Sustainable Materials Research & Technology, University of New South Wales, Australia

- 10.45 11.00 Presenting of the "ICBR Honorary Award"
- 11.00 11.30 Coffee break in the exhibition area

Session 2: Recycling Strategy & Innovation Session Chairman: Georgios Chryssos, Stiftung GRS Batterien, Germany

- "Increasing Added-Value in Diversified End-of-Life Strategies for Li-Ion Battery 11.30 - 12.00 Systems" Max Weeber, Fraunhofer IPA, Germany
- 12.00 12.30 "From Security of Supply to Risk Control: Global Emergence of the Li-Ion Battery Recycling Industry" Michel Siemon, SMS Group GmbH, Germany
- 12.30 13.00 "Battery Raw Materials and the Financial Markets: A Critical Evolution" Martim Facada, SCB Group, United Kingdom

13.00 - 14.30	Lunch in the	exhibition	area

	<u>Session 3: Hazard, Risk & Safety</u> Session Chairman: Dr Claude Chanson RECHARGE, Belgium	<u>Session 4: Recycling: Commercial</u> <u>Projects</u> Session Chairman: Dr Julia Hobohm, Stiftung GRS Batterien, Germany TBC
14.30 - 15.00	"ADR 2021 – How to Transport Safely Waste Batteries and Equipment" Dr Marco Ottaviani, ANIE-CSI, Italy	"Eramet Vision and ReLieVe Project for the Li-ion Batteries Recycling" Dr Sophie Lebouil, Eramet Ideas, France
15.00 – 15.30	"Lithium Batteries: Hazard Prevention During Transport and Storage" Johan van Peperzeel, Van Peperzeel B.V., Netherlands	"Innovative Closed-Loop for Lithium-Ion Batteries" Dr Farouk Tedjar, TES-AMM Central Europe GmbH, Germany
15.30 – 16.00	"Re-Use of EV-Batteries – View of an Insurance Company" Sebastian Hunold, Allianz Automotive, Germany	"How Sustainability is Transforming Markets Around the Globe" Danielle Spalding, Battery Solutions, USA
16.00 - 16.30	Coffee break in the exhibition area	
16.30 - 17.40	Session 5: Panel Discussion Assessment of Options to Improve the Moderator: Patrick de Metz, Saft, Fran	
	Participants: Dr Alain Vassart EBPA Belgium	

Dr Alain Vassart, EBRA, Belgium Hans Craen, EPBA, Belgium Frédéric Hédouin, EUCOBAT, Belgium Dr Georg Mehlhart, Mehlhart Consulting, Germany Dr Claude Chanson, RECHARGE, Belgium

19.00 Cocktail reception in Piano Bar & Terrace in Sheraton Hotel

19.45 Departure by bus for the Mozart Night to St. Peter Stiftskulinarium in Salzburg Meeting point: Lobby of the Hotel Sheraton

CONGRESS PROGRAM ICBR 2020

THURSDAY, SEPTEMBER 17, 2020

08.00 - 09.00 Welcome coffee in the exhibition area

	<u>Session 6: Recycling: Lab & Pilot</u> <u>Projects</u> Session Chairman: Arie de Jong, STIBAT Services, Netherlands	Session 7: Battery Materials Separation Session Chairman: Johan van Peper- zeel, Van Peperzeel B.V., Netherlands
09.00 – 09.30	"Li-Ion Batteries: Requirements for Future Recycling Processes" Alexandra Holzer & Stefan Windisch, Montanuniversität Leoben, Austria	"Mechanical Method for Delamination of Electrodes from Spent Li-B / Quality of Materials Recovered" Denis Werner, TU Bergakademie Freiberg, Germany
09.30 – 10.00	"Li-ion Battery Recycling – A Hydro- Mechanical Process" Dr Jörg Zimmermann, Fraunhofer Institution IWKS, Alzenau and Hanau, Germany	"Application of Magnetic Processing in Li-Ion Battery Recycling" Dr Robert Sommerville, University of Birmingham, United Kingdom
10.00 – 10.30	"Lithion's Hydrometallurgical Pilot Plant – Building The Sustainable Solution" Jean-Christophe Lambert, Lithion Recycling, Canada	"Sensor Based Sorting Technology for Single Use Batteries" Gavin Russell, TOMRA Sorting UK Ltd., United Kingdom

10.30 - 11.00 Coffee break in the exhibition area



	<u>Session 8: "2nd Life": Current Status</u> Session Chairman: Arie de Jong, STIBAT Services, Netherlands	Session 9: Recycling Technologies Development Session Chairman: Johan van Peper- zeel, Van Peperzeel B.V., Netherlands
11.00 – 11.30	"Second Life of Industrial Batteries for E-Mobility: The Regulatory Aspects" Willy Tomboy, Detomserve, Belgium	"Recovery of Graphite from Spent Lithium Ion Batteries" Anna Vanderbruggen, Helmholtz Institute Freiberg, Germany
11.30 – 12.00	"Recycling of E-Mobility Batteries from Authorized Treatment Facilities (ATF)" Fredericq Peigneux, Febelauto, Belgium	"Li-primary Batteries, the 'Great Ignore' in Recycling" Dr Juan Manuel Pérez, Envirobat España, Spain
12.00 - 12.30	"e-Brick, The Upcycled Lithium Battery" Stefan Bahamonde, Libattion GmbH, Switzerland	"The ReCell Center: Working Toward a Cost Effective Battery Recycling Process" Jeffrey Spangenberger, Argonne National Laboratory, USA

12.30 – 14.30 Lunch in the exhibition area

<u>Session 10: Circular Economy</u> Session Chairman: Georgios Chryssos, Stiftung GRS Batterien, Germany

- 14.30 15.00 "Creating a Secondary Source of Critical Battery Materials" Ajay Kochhar, Li-Cycle Corp., Canada
- 15.00 15.30 "Circular Economy: Battery Waste and Transport" Pia Alina Lange & Dr Claude Chanson, RECHARGE, Belgium
- 15.30 15.45 "Wrap-up / Closing Remarks"
- from 15.45 Farewell Cocktail









Experience an amazing candlelight evening that takes you back in time to the year 1790...

Join us on Wednesday evening, September 16, to celebrate the 25th anniversary of ICBR and listen to the greatest compositions of the city's most well-known son, Wolfgang Amadeus Mozart.

We would be happy to enjoy with you the cocktail reception in the beautiful Piano Bar & Terrace of the Sheraton hotel from 19.00.

At 19.45 we will meet in the lobby of the Sheraton hotel and head together towards Europe's oldest restaurant, St. Peter Stiftskulinarium, for the delightful dinner.

We look forward to celebrating this special day with you!

WORKSHOP WASTE LI-BATTERIES:



CLASSIFICATIONS AND TRANSPORT

CASE STUDIES and RECOMMENDATIONS

Date	Friday, September 18, 2020
Time	08.45 – 12.30
Location	Salzburg Congress

1. Workshop Objective

The purpose of the workshop is to review the classification of Waste Lithium Batteries (WLiB) and to recommend a harmonized approach for their classification when transported on a worldwide basis.

The workshop will propose a review of the existing classification of batteries as waste in EU and North America and pave the way for future improvements, particularly the selection of criteria to be considered for the waste classification.

During the workshop, practical cases will be illustrated where operators have difficulties to implement the Transport Regulation for certain categories of waste batteries and to select the required packaging and shipping instructions mainly taking into consideration the composition of waste batteries and their physical status prior to shipment.

3. Participants and Case Studies

Registered participants to the workshop are invited to prepare their own case study in advance and to communicate to the organizer in order to share knowledge among the audience and increase the level of practical recommendations.

The Workshop will be moderated by Dr Alain Vassart (EBRA) and Dr Claude Chanson (RECHARGE).

The workshop will be held with a minimum of 10 participants and will be limited to 40 participants. A certificate of attendance will be delivered after the workshop.

To register, please contact ICM AG at info@icm.ch

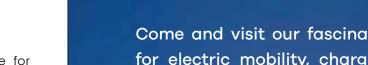


Hotspot for new and electric mobility

MOONCITY

Come and visit our fascinating experience centre for electric mobility, charging infrastructure and sustainable forms of energy in Salzburg. Join us into the future.

Sterneckstrasse 28-30, 5020 Salzburg, Austria www.mooncity-salzburg.at



Arrival at Salzbura airport **MOONCITY** in Salzburg, an exciting experience and discovery centre for e-mobility, charging infrastructure and sustainable forms of energy is opening its

doors. The opening of the centre that is vet another Porsche milestone marks the 70th anniversary of Porsche Austria, and will help shape upcoming changes in mobility and energy, which constitute the most dramatic transition in the history of the automobile.

Departure by bus from the Sheraton Hotel in Salzburg

Guided tour in the innovation and competence center for electric

Achieving the CO₂ targets in the Paris Agreement on climate change will be vital, and e-mobility must therefore play a central role: battery-based e-mobility is at present the most promising technology for rapid implementation on a large scale. To help ensure that it achieves a breakthrough, a fully-fledged charging infrastructure will be needed.

Porsche Holding Salzburg has therefore established the MOON brand. MOON's mission is to make e-mobility an everyday reality for broad seaments of the population. MOON covers all areas of energy management, including the supply, storage and consumption of energy, mainly for mobility purposes. MOON is an enabler for e-mobility, offering consumers and business customers tailored solutions for embarking on this new era. As a system provider with an overarching approach, MOON covers the full spectrum in the field of e-mobility.

Don't miss this exciting opportunity!

https://www.mooncity-salzburg.at/

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

TOUR ICBR 2020

13.00

13.15

15.15*

15.30*

13.15 - 15.00

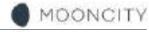
FRIDAY, SEPTEMBER 18, 2020

MOONCITY, SALZBURG, AUSTRIA

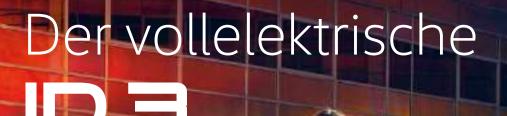
Arrival at MOONCITY

mobility and sustainable energy

Arrival at the Sheraton Hotel in Salzburg



Now you can





Stibat facilitates all actors in the circular economy of batteries in realizing reuse of products and materials and ensuring a safe, sound and environmentally friendly treatment of batteries and accumulators. We offer sustainable services and solutions ensuring compliance with national and European law and regulations with regard to batteries and accumulators.

> Safe and responsible, ISO certified.

In depth knowledge, over 20 years of experience.

STIBAT

Offering both collective and customized services and solutions.

Test Drive at ICBR 2020

Ab sofort bestellbar

Stromverbrauch: 15,4 kWh/100 km (kombiniert). CO₂-Emission: 0 g/km. Symbolfoto. Stand 08/2020.

volkswagen.at

Stibat | Röntgenlaan 7 | 2719 DX | Zoetermeer | The Netherlands www.stibat.nl | Phone: +31 (0)79 - 363 20 90 | E-mail: info@stibat.nl



You and us: **Collection and recycling for portable** and industrial batteries

GRS Batterien guarantees you professional collecting, sorting and recycling of spent batteries. Many years of experience in the handling of portable batteries has made it possible to implement the first nationwide collection system for industrial batteries, in particular industrial lithium accumulators from e-bikes.

We offer individual solutions for eco-friendly recycling to all producers and distributors in Germany.



RECOVERY: > Black mass > Electrolyte

> Ferrous particles > Aluminum foil > Aluminum granulate > Plastics foil > Plastics granulate > Copper foil



INVESTING IN THE DEVELOPMENT OF BATTERY RECYCLING TECHNOLOGY

Working with the University of Birmingham

High Intensity Magnetic Separation

Electrostatic Separation

Eddy Current Separation









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YOUR PLATFORM FOR BATTERY-SPECIFIC TRANSPORT INFORMATION



The professional shipment of cells, batteries and battery-containing equipment is subject to international, national and regional transport regulation. BatteriesTransport.org offers free and easy-to-understand information on all battery-related testing, packaging, labeling and reporting instructions - per transport mode.

BatteriesTransport.org is a non-profit industry initiative with the aim of raising awareness of the legal requirements for the safe transport of batteries and battery-containing equipment. For more information, visit www.batteriestransport.org.

RECHARGE EUROBAT



THINK GREEN. THINK CIRCULAR. THINK TES.

E-waste is still the fastest growing waste stream on the planet and the challenges around it are evolving. Device types are getting more diverse (ex. IoT devices), device lifespans are getting shorter, and deeper restrictions on transboundary movement are just a few of the seismic shifts in the market. Rising to these challenges means we need to start thinking differently about how to solve them. Thinking differently about e-waste starts with TES.



For more information, visit our website at www.tes-amm.com

EXHIBITION & ADVERTISING

EXHIBITORS





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

The fees are:

Booth 6 m² (2 m x 3 m) Booth 12 m² (3 m x 4 m)	-	3'290 4'790
Display board (1 m x 2 m) Poster presentation (wall rental)		690 390

Space is limited, book today!





As per August 28, 2020:	
BATTERY SAFETY Solutions	Battery Safety Solutions BV, Netherlands
BHS	BHS-Sonthofen GmbH, Germany
GLENCORE	Glencore AG, Switzerland
NICKELHÜTTE AUE	Nickelhütte Aue GmbH, Germany
TES	TES, Australia
URT	URT Umwelt- und Recyclingtechnik GmbH, Germany
	Volkswagen, Austria
WATT4EVER BATTERIES FOR LIFE	Watt4ever, Belgium

WHO SHOULD ATTEND?

Participants registering and paying **before July 31, 2020** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

REGISTRATION FEES

after





- Battery manufacturers
- Battery recycling companies
- Waste management companies
- Electric & hybrid car manufacturers
- Electric car dismantling & recycling companies
- Battery collection schemes
- Battery collection & transportation companies
- Non ferrous metal traders
- Non ferrous metal industry
- Associations in the field of battery waste management
- Financing organization for battery recycling
- Environmental authorities
- Experts in the field of safe transportation & storage



		-		
Congress fee	July 3	31, 2020	July 3	1, 2020
Fee for participants	EUR	1'590	EUR	1'690
Fee for speakers	EUR	990	EUR	1'090
Fee for students*	EUR	690	EUR	790
*only with valid student card and age below 30				
Networking disper (Sept 14)	ELID	120	EUR	140
Networking dinner (Sept. 16)	EUR			
Networking dinner spouse (Sept. 16)	EUR	140	EUR	160
Tour (Sept. 18)				
MOONCITY	EUR	30	EUR	50
	2011		2011	
Workshop (Sept. 18)				
Waste Li-batteries: Classifications and Transport	EUR	150	EUR	190

before

All Prices excl. 20% Austrian VAT

Congress registration on site EUR 100 surcharge

Online registration

You may also register online at: https://icbr.icm.ch/

Virtual Event

If you can't attend the congress, you can be a part of the action from any place in the world for only EUR 480. All presentations, workshop and interviews with exhibitors will be available by live broadcast and on demand, so you can stay up to date with all the recent industry insights and developments brought to you directly from Salzburg.

Payment

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

Please note, that any attendees, sponsors or exhibitors who have registered for ICBR 2020 would be fully reimbursed if ICBR 2020 was cancelled due to a change in the pandemic situation.



ORGANIZER



JEANETTE DUTTLINGER Congress Organizer



SUSANN SCHMID Congress Assistant

Congress & Marketing

5708 Birrwil, Switzerland

+41 62 785 10 00 (English) +86 182 176 289 10 (Chinese) +41 79 124 08 50 (Japanese)

Schwaderhof 7

info@icm.ch

www.icm.ch

ICM AG International











20th International **Electronics Recycling Congress IERC 2021**

January 20 - 22, 2021 Salzburg, Austria



www.icm.ch





YING LIU REICHENBACH Congress Assistant



SANDRA MANNHART Congress Assistant









HIKARU BHEND Congress Assistant



ANGELA DORNBIERER Congress Assistant



ALEKSANDRA BLOCH Congress Assistant



KARIN BIEDERMANN Congress Assistant





MIRU is an information site that provides daily information on the trends of various batteries including lead (lead-acid / lead-based)batteries, NEWS & REPORT nickel-metal hydride batteries, nickel-cadmium batteries, lithium-ion batteries as well as their raw materials.

516101 0 V T=

We also hold battery-related conferences.

The Battery Summit 2020, New-year's commemorative forum

01/31/2020 18:15

"All presentations were extremely good. The audience were also guite excited, too", Raputaka Kitapume of Rever Holdings Co., Ltd. mercioned with his honest voice.

"I think this is because professor Yoshino influenced", he added When more than 200 business persons, company executives and researchers dathered in Tokyo to foin another forum of IRRSG, it was not just adout pattery out with higher interest on Dr. Akra Yoshing, the latest Nobel price awardee and one of usual speakers at IRRSG. There was another co-incident to detectate his 72nd birthday (30 January) who happens to de a "man-of-the-year-Mice", which reciprocates every 12 years in pursuant to the Chinese zodiac



Mr.Teraoka of FDK

Nobel prize lecture

Last but not least, of course, DV Akira Vishino presented again his Nobel prize lecture in Stockholm but in Japanese language, where It was impressive to know that his invention was imprired by Professor Shirakawa's polyacetylene which was predicted by Professor Fukul both of whom were awarded the Nobel prize in chemistry in 1981 and 2000, respectably with 19 years of interval



Dr.Nishi offormer SONY

Dr. Yoshino referred to another co-incidence to be awarded the same prize after another 19 years. What's been even more impressive was that his vision on future mobility was crystal clear. with visual material, and his firm commitment to go further beyond was obviously the message to the whole audience today

For more details, please refer to the link below, : https://www.iru-miru.com/en/article_detail.php?id=32930



IRuniverse Co., Ltd.

3-3-7-4F, Kayabacho, Nihombashi Chuo city, Tokyo 103-0025, Japan E-mail : info@iru-miru.com



25th International Congress for **Battery Recycling ICBR 2020** September 16 – 18, 2020, Salzburg, Austria

ICBR 2020 IS TAKING PLACE BOTH IN SALZBURG & ONLINE







WiFi Login WiFi: ICM AG Password: ICBR2020



a direction economy













































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CCUREC®



