

EMCE 2019

E-Mobility & Circular Economy EMCE 2019

International conference, exhibition,
plant tours & workshops

July 1 – 3, 2019, Tokyo, Japan



Supported by:

Alliance of Automobile Manufacturers, USA
Association of European Automotive and Industrial Battery
Manufacturers (EUROBAT)
Battery Association of Japan (BAJ)
China Association of Electronics Equipments For Technology Development
Embassy of Switzerland in Japan
Institute of Scrap Recycling Industries, Inc. (ISRI), USA
Japan Automobile Manufacturers Association, Inc. (JAMA)
Japan Automotive Recyclers Association (JARA)
Pinfa European Chemistry Council (cefic)
PlasticsEurope



FOREWORD

PROF. EIJI HOSODA

Chairman of the
Steering Committee
E-Mobility &
Circular Economy

“Let the worldwide markets know that E-Mobility goes green and follows the strategies of Circular Economy concepts”

Welcome to Tokyo!

It is a great honor and pleasure to welcome you on behalf of the International Steering Committee to our first Congress on E-Mobility & Circular Economy EMCE 2019 in Tokyo.

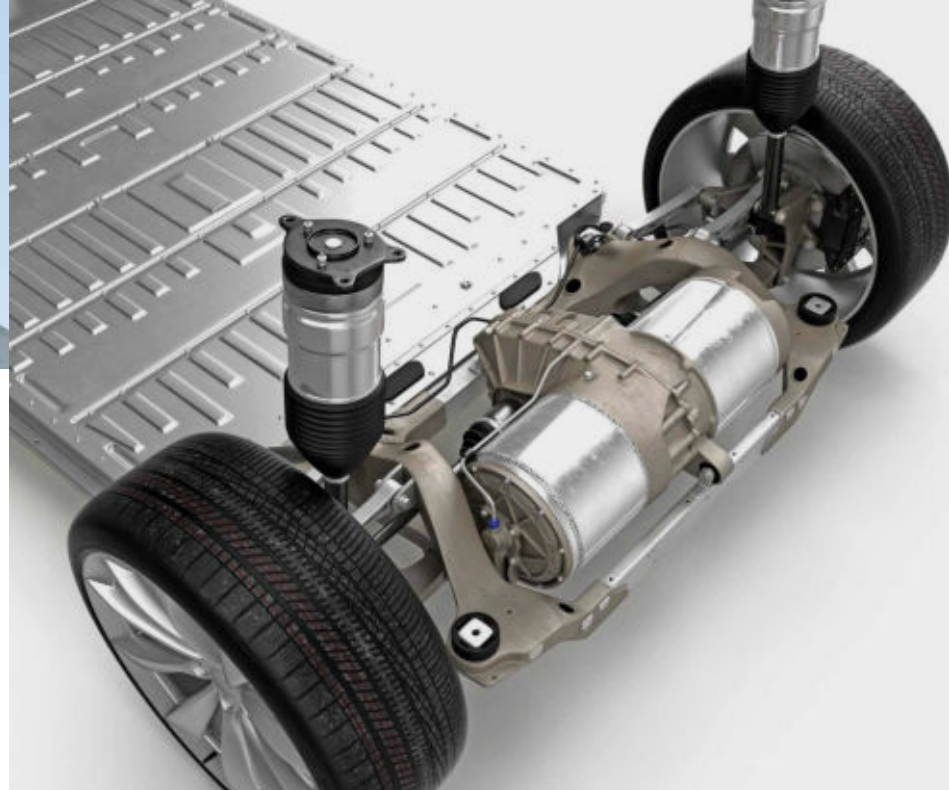
The E-Mobility revolution is undeniable. The International Energy Agency expects the number of electric cars on the road to increase from 2 million in 2016 to 70 million in 2025. Which impact will this have on Ecodesign, the Circular Economy, Recycling and Raw Materials Supply?

At EMCE 2019, the industry will present its latest services, technologies and future designs in the field of E-Mobility, Power Distribution and Energy Storage.

Meet all the industry's stakeholders in a spacious Exhibition parallel to the Conference and experience Demo Rides with participants and media on Tokyo's roads.

Display your products and services. Show the hottest innovations in E-Mobility: cars, trucks, bikes, drones, toys, planes, helicopters, power storage and distribution.

I wish you a pleasant stay in Tokyo and enjoy the E-Mobility & Circular Economy EMCE 2019. I am looking forward to welcoming you in Tokyo!



OPENING & KEYNOTE SPEAKERS



ROGER BURRI

Conference Director
Metal Depot Zurich AG
CEO
Switzerland

“E-Mobility Goes Green”



PROF. EIJI HOSODA

Chairman of the Steering Committee
Chubu University
Japan

“Importance of E-Mobility in our Society”



PROF. DUAN WENG

Tsinghua University
Institute for Energy & Environment Materials
Director
China

“Circular Economy of Alternative Fuel Vehicle in China”

DIDIER MARGINÈDES

Blue Solutions – Bolloré Group
CEO
France

“What E-Mobility will Look Like in 2030”



TAKASHI SHIMAMURA

Japan Automobile Manufacturers Association, Inc.
(JAMA)
Chairman, Recycling & Waste Reduction Subcommittee
Japan

“JAMA Lithium-ion Battery Joint Collection System in Japan”



INTERNATIONAL STEERING COMMITTEE



PROF. EIJI HOSODA
Chairman of the Steering Committee
Chubu University
Japan



GENKICHI ANDO
Co-Chairman of the Steering Committee
Seinan Corporation
President
Japan



PROF. JINHUI LI
Co-Chairman of the Steering Committee
Basel Convention Coordinating Center for Asia and the Pacific, Executive Director
Tsinghua University, China



ROGER BURRI
Conference Director
Metal Depot Zurich AG
CEO
Switzerland



MASASHI FUJITA
Honda Motor Co., Ltd.
Cyclical Resource Promotion Division
Manager, Japan



TAKASHI IKARI
Anchor Network Service, Inc.
President and CEO
Japan



CHANGDONG LI
Guangdong Brup Recycling Technology Co., Ltd.
CEO
China



LONGHUI LI
China Automotive Technology and Research Center (CATARC) A.D.C., Recycle & Utilization Dept.
Vice Director, China



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



DIDIER MARGINÈDES
Blue Solutions – Bolloré Group
CEO
France



KAZUMI NOZAWA
Perry Johnson Holding Inc.
Director of Asia Pacific Recycling Initiatives
Japan



CHRISTOPHE PILLOT
AVICENNE ENERGY
Director
France



STEPHAN SCHWARZ
ALBA International Recycling
CEO
Germany/Asia



WEI SUN
Volkswagen Group China
Environment & Sustainability
China



VIVIAN TAI
DELL Technologies
Head of Environmental Affairs & Producer Responsibility
Asia Pacific & Japan, Taiwan



WILLY TOMBOY
Detomserve Mobility GCV
CEO
Belgium



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



PROF. DUAN WENG
Tsinghua University, Institute for Energy & Environment Materials
Director
China

MEDIA PARTNERS



XU DENG
Resource Recycling Magazine
Operation Director
China



BRIAN TAYLOR
Recycling Today Media Group
Associate Publisher / Editorial Director, Hong Kong

LOCATION & ACCOMODATION



E-Mobility & Circular Economy EMCE 2019 will be held in the Westin Tokyo. The hotel thrives on its location in the heart of Tokyo. Convenient access to major business districts and tourist attractions such as the Tsukiji Fish Market, Kabuki Theatre, and the Imperial Palace make this an ideal base for every type of traveller. Popular shopping areas near the hotel, such as Shibuya, Ginza, Shinjuku, Akihabara, as well as Roppongi for evening entertainment, are accessible by foot, taxi, and train. Major rail and subway stations such as Ebisu Station are also within walking distance.



The journey from **Haneda Airport (HND)** to The Westin Tokyo is about 50 minutes by taxi (it costs approximately JPY 8'000 / USD 72), or by train (JPY 570/USD 5).

From **Narita International Airport (NRT)**, the best and most convenient mode of transportation to the hotel is the **Airport Limousine Bus** (JPY 3'100/USD 27), offering door-to-door service (about two hours). You can also use rail transportation from Narita International airport for a slightly shorter travel time.



The Westin Tokyo*****
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Tokyo 153-8580
Phone +81 3-5423-7000
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westin.com/Tokyo

IMPORTANT NOTICE REGARDING HOTEL BOOKING

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

ABOUT TOKYO

Tokyo (東京, Tōkyō) is Japan's capital and the world's most populous metropolis. It is also one of Japan's 47 prefectures, consisting of 23 central city wards and multiple cities, towns and villages west of the city center.

Tokyo has a total land area of 2'195 square km and is home to about 10% of the population of Japan.

Tokyo has the largest metropolitan economy in the world. According to a study conducted by Price-waterhouseCoopers, the Tokyo urban area of 38 million people had a total GDP of \$2 trillion in 2012 (at purchasing power parity),

which topped that list. 51 of the companies listed on the Fortune Global 500 are based in Tokyo, almost twice that of the second-placed city (Paris).

The city offers a seemingly unlimited choice of shopping, entertainment, culture and dining to its visitors. The city's history can be appreciated in districts such as Asakusa and in many excellent museums, historic temples and gardens. Contrary to common perception, Tokyo also offers a number of attractive green spaces in the city center and within relatively short train rides at its outskirts.





CONFERENCE PROGRAM

MONDAY, JULY 1, 2019

07.30 – 09.00 Registration
12.00 – 14.00 Registration

SIDE EVENTS WORKSHOPS

WORKSHOP How to handle defect or unstable Lithium High Voltage Car Batteries

09.00 – 12.00 Moderator: Andreas Krebs, BLUBOX, Switzerland

WORKSHOP E-Mobility in Japan: Fire Safety challenges in Automotive Plastics

14.00 – 17.30 Moderator: Jonathan Crozier, Pinfa European Chemistry Council (cefic), Belgium

SIDE EVENTS PLANT TOURS

PLANT TOUR East Japan Recycling of Resources Co., Ltd. (EARC), Futttsu-shi, Chiba Prefecture Phoenix Metal Corporation (Rever group), Ichihara-shi, Chiba Prefecture

08.15 Departure by bus from the Westin Tokyo to Futttsu-shi, Chiba Prefecture
09.45 Arrival
10.00 – 11.00 Visit to car dismantling plant of East Japan Recycling of Resources Co., Ltd. (EARC)
11.00 Departure by bus to Phoenix Metal Corporation (Rever group's shredding plant)
12.30 – 13.30 Arrival & Lunch
13.30 – 15.00 Visit to shredding plant of Phoenix Metal Corporation (Rever group)
17.00 Arrival at the Westin Tokyo

PLANT TOUR HYPER CYCLE SYSTEMS, Ichikawa-shi, Chiba Prefecture

13.00 Departure by bus from the Westin Tokyo to Ichikawa-shi, Chiba Prefecture
14.30 Arrival
14.30 – 16.30 Visit to plant of reclaiming resources from end-of-life cycle products of HYPER CYCLE SYSTEMS
18.00 Arrival at the Westin Tokyo

The workshops and plant tours will only take place with a minimum of 8 participants
Buses for the plant tours will leave from in front of the Westin Tokyo



PLANT TOUR

MONDAY, JULY 1, 2019

**EAST JAPAN RECYCLING OF RESOURCES CO., LTD. (EARC),
FUTTSU-SHI, CHIBA PREFECTURE & PHOENIX METAL CORPORATION (REVER GROUP),
ICHIHARA-SHI, CHIBA PREFECTURE**



- 08.15** Departure by bus from the Westin Tokyo to Futttsu-shi, Chiba Prefecture
09.45 Arrival
10.00 – 11.00 **Visit to car dismantling plant of East Japan Recycling of Resources Co., Ltd. (EARC)**
11.00 Departure by bus to Phoenix Metal Corporation (Rever group's shredding plant)
12.30 – 13.30 Arrival & Lunch
13.30 – 15.00 **Visit to shredding plant of Phoenix Metal Corporation (Rever group)**
17.00* Arrival at the Westin Tokyo

Rever Holdings Corporation is a holding company of eight group companies with more than twenty plants in mainly Kanto area, Japan, which perform various recycling and waste treatment processes with a focus on metal. Our group originated from Suzutoku Co. Ltd. established in 1904, one of the most experienced companies in recycling industry in Japan.

East Japan Recycling of Resources Co., Ltd. (EARC) was established in 2005, by Yoshikawa Kogyo Co., Ltd. and Nippon Steel group (today, Nippon Steel and Sumikin Metal Corporation/NSSMC group). That was the year Automotive Recycling Law came into force, since then EARC has developed unique detailed dismantling system to supply raw materials for NSSMC's high quality steel products as well as promoted recycling automotive parts.

This time, both of us are pleased to welcome members of global recycling business society to our plants.

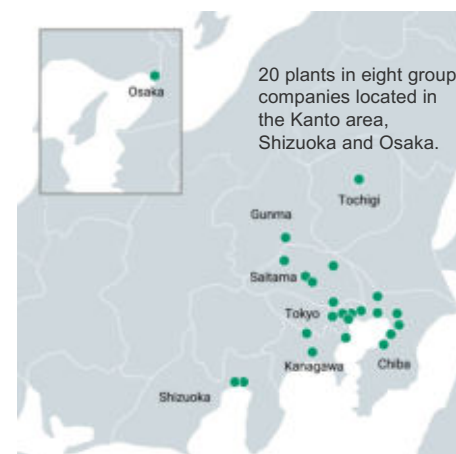
re-ver.co.jp/about-rever-holdings

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



About Rever Holdings www.re-ver.co.jp

We are a holding company supervising a number of group companies, which in turn perform various recycling and waste treatment processes with a focus on metal. Our group originates from Suzutoku Co. Ltd., which was established in 1904, and we have expanded in recent years. We are now composed of about twenty plants and eight group companies located in the Kanto area, Osaka and Shizuoka. In recent years, the business environment around us has undergone rapid changes, including new initiatives in recycling aimed at creating a sustainable society, the development of environment-related laws and regulations, and the internationalization of the scrap resources market as an export commodity. These changes press us to develop different ways of thinking, knowledge, and technology. Our company was established in July of 2007 in order to create a system capable of responding to the demands of society and the needs of customers, which have increased in sophistication.



Original company Suzutoku, founded in 1904.



About Phoenix Metal Corp. www.phoenixmetal.co.jp

We are the proud owners of one of the largest metal shredding plants in Japan. We are involved in a variety of operations, including the recycling of ferrous and non-ferrous metals, industrial waste and home appliances.

PLANT TOUR

MONDAY, JULY 1, 2019

HYPER CYCLE SYSTEMS CORPORATION,
ICHIKAWA-SHI, CHIBA PREFECTURE



- 13.00** Departure by bus from the Westin Tokyo to Ichikawa-shi, Chiba Prefecture
- 14.30** Arrival
- 14.30 – 16.00** **Visit to plant of reclaiming resources from end-of-life cycle products of HYPER CYCLE SYSTEMS**
- 18.00*** Arrival at the Westin Tokyo

Hyper Cycle Systems Corporation, which began operations in April, 1999 to comply with the enactment of Japan's Home Appliance Recycling Law, is the foundry of a new, sustainable recycling industry, crafting the production technologies and systems for producing pure, industrial-grade materials from the metal and plastic materials reclaimed from old electrical appliances.

Plastic taken from end-of-lifecycle products by manual labor consists of about 6% of all recycled plastics Hyper Cycle Systems deals with annually. The remainder includes metal and plastic fragments. Green Cycle Systems uses automated processes to separate the metals from so-called plastic excess.

www.h-rc.co.jp

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



HYPER CYCLE SYSTEMS CORPORATION

1-2-4 Higashihama, Ichikawa Shi, Chiba Ken, 272-0003, Japan
TEL 047-327-5510 FAX 047-327-5861

www.h-rc.co.jp

WORKSHOP



How to handle defect or unstable Lithium High Voltage Car Batteries

The workshop will cover all questions around safety aspects of High Voltage car batteries. Composition and hazardous components used in batteries. Safety assessment and check of batteries after a car crash or failure. Storage and transport advice and precautions. Car recycling challenges and changes. Fire extinguishing agents and safety measures in case of emergency.

Moderator Andreas Krebs, Blubox, Switzerland

Date Monday, July 1, 2019

Time 09.00 – 12.00

Location The Westin Tokyo

Price 90 USD (incl. coffee break)

Presentations

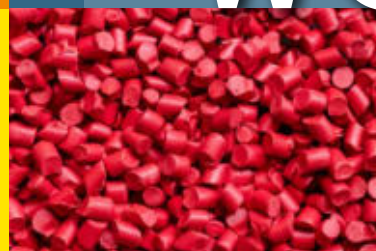
- "The Lithium Market and the Needs of the Automotive Industry"
Michael Schmidt, German Mineral Resources Agency DERA at Federal Institute of Geosciences BGR, Germany
- "Salvage and Storage of damaged EV and the Fire Fighting and the Hazardous Components released during a Fire"
Andreas Krebs, BLUBOX Trading AG, Switzerland

Participants will receive a certificate of attendance.

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

Workshop will take place with a minimum of 8 participants.

WORKSHOP



E-Mobility in Japan: Fire Safety Challenges in Automotive Plastics

The automotive value chain is facing E-Mobility challenges such as compliance with standards and requirements of materials, choice of flame retardants and compliance with fire safety regulations. While the global momentum on E-Mobility is strong, the Phosphorus, Inorganic and Nitrogen Flame Retardants Association wishes to catalyze discussions and offer support to the Japanese market.

Moderator Jonathan Crozier, Pinfa European Chemistry Council (cefic), Belgium

Date Monday, July 1, 2019

Time 14.00 – 17.30

Location The Westin Tokyo

Price 90 USD (incl. coffee break)

Presentations

- "Phosphorus, Inorganic and Nitrogen based Flame Retardants at a Glance: Global Trends & Perspectives"
Jonathan Crozier, Pinfa European Chemistry Council (cefic), Belgium
- "Flame Retardant Technology of Automotive and Fire Safety in Japan"
Prof. Masayuki Okoshi, Society of Flameretardant Materials, Japan
- "Technical Overlooking of Fiber Reinforced Plastic in Automobiles"
Yuta Urushiyama, Honda R&D, Japan
- "Multi-Material for Electric Vehicle and Flame Retardance"
Hiroshi Okuyama, Nissan, Japan
- "Expansion of Polyolefin Application via Intumescent Halogen-Free Flame Retardant Technology"
Yutaka Yonezawa, Adeka Corporation, Japan
- "Clariant Flame Retardant Solutions for Electromobility with the Focus on Thermoplastic and Thermoset Resins"
Christian Schmidt, Clariant Plastics & Coatings GmbH, Germany
- "DuPont Tailored Solutions for Electromobility"
Narumi Une, DuPont, Japan

Participants will receive a certificate of attendance.

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

Workshop will take place with a minimum of 8 participants.



A sector group of Cefic
European Chemical Industry Council - Cefic aisbl
EU Transparency Register n° 64879142323-90



CONFERENCE PROGRAM

TUESDAY, JULY 2, 2019

08.00 – 09.00 Registration and welcome coffee in the exhibition area

09.00 – 10.30 **OPENING AND KEYNOTE SPEAKERS**

"E-Mobility Goes Green"

Roger Burri, Conference Director EMCE

"Importance of E-Mobility in our Society"

Prof. Eiji Hosoda, Chairman of EMCE, Chubu University, Japan

"JAMA Lithium-ion Battery Joint Collection System in Japan"

Takashi Shimamura, Japan Automobile Manufacturers Association, Inc. (JAMA), Japan

10.30 – 11.00 Coffee break in the exhibition area

11.00 – 12.00 **KEYNOTE SPEAKERS**

"What E-Mobility will Look Like in 2030"

Didier Marginèdes, Blue Solutions – Bolloré Group, France

"Circular Economy of Alternative Fuel Vehicle in China"

Prof. Duan Weng, Tsinghua University, China

12.00 – 13.30 Lunch in the exhibition area

13.30 – 15.00 **Session 1: Impact of Circular Economy to the Industry** **Session Chairman: Brian Taylor, Recycling Today Media Group, Hong Kong**

"Advancing Circular Economy – Dell's Perspectives"

Vivian Tai, DELL Technologies, Taiwan

"Chances of Circular Economy in Japan"

Kazunori Kitagawa, Japan Productivity Center, Japan

"CarE-Service – a Holistic Approach to E-Mobility and Circular Economy"

Markus Wagner, Circular Economy Solutions GmbH (C-ECO), Germany

15.00 – 15.30 Coffee break in the exhibition area

15.30 – 17.00 **Session 2: Innovation Automotive Industry I** **Session Chairman: Willy Tomboy, Defomserve Mobility GCV, Belgium**

"The Intelligent Connected Vehicle (ICV)"

Rasmus Wiedmann, Volkswagen Group China, China

"High Performance Catalysts for Fuel Cells"

Fabrice Stassin, Umicore, Belgium

"Overview of the Most Advanced Battery Technologies in Automotive Industry"

Christophe Pillot, AVICENNE ENERGY, France

As from 17.00 "Meet your clients" reception in the exhibition area





CONFERENCE PROGRAM

WEDNESDAY, JULY 3, 2019

08.00 – 09.00 Welcome coffee in the exhibition area

09.00 – 10.00 **Session 3: Innovation in Automotive Industry II**
Session Chairman: Wei Sun, Volkswagen Group China, China

"Life Cycle Management of xEV Batteries in Practice"
Dirk Spiers, Spiers New Technologies, USA

"LIB Market and EV Reuse, Refabrication Battery"
Yu-Tack Kim, Korea Battery Industry Association / Battery R&D Association of Korea, South Korea

10.00 – 10.30 Coffee break in the exhibition area

10.30 – 11.30 **Session 4: Innovation in Recycling & Material Supply Industry I**
Session Chairman: Kazumi Nozawa, Perry Johnson Holding Inc., Japan

"Impact of Booming E-mobility to the North American Recycling Industry"
Adina Renee Adler, Institute of Scrap Recycling Industries, Inc. (ISRI), USA

"E-Mobility – Where Car-Recycling Meets Electronics-Recycling and Circular Economy"
Makoto Harita, Harita Metal Co., Ltd., Japan

11.30 – 13.00 Lunch in the exhibition area

13.00 – 14.30 **Session 5: Innovation in Recycling & Material Supply Industry II**
Session Chairman: Genkichi Ando, Seinan Corporation, Japan

"Closing the Loop of E-Mobility – Opportunities and Challenges"
Rasmus Bergström, Stena Recycling, Sweden

"Exporting, Reusing and Recycling of Used Hybrid Electric Vehicles in Japan"
Prof. Kenichi Togawa, Kumamoto University, Japan & Prof. Arata Abe, Yamaguchi University, Japan

"What about Carbon, Plastics and Glass? – It's not just about Recovering Strategic Metals"
Alvin Piadasa, TES Group, Australia

14.30 – 15.00 Coffee break in the exhibition area

15.00 – 17.00 **Session 6: Automotive Batteries & Raw Materials Supply**
Session Chairman: Christophe Pillot, AVICENNE ENERGY, France

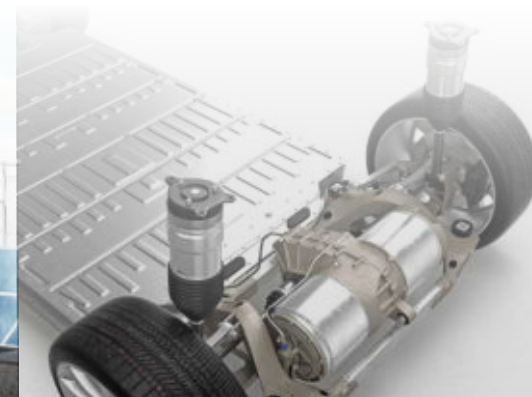
"Update on China Regulations of Power Batteries Recycling"
Shuanghe Wu, China Automotive Technology and Research Center (CATARC), China

"Results of Active Material Recovery from Lithium Battery Waste"
Daniel Horn, Fraunhofer Institute, Germany

"Waste Lithium-Ion Battery Recycling in JX Nippon Mining & Metals Corporation"
Hirotaka Ariyoshi, JX Nippon Mining & Metals, Japan

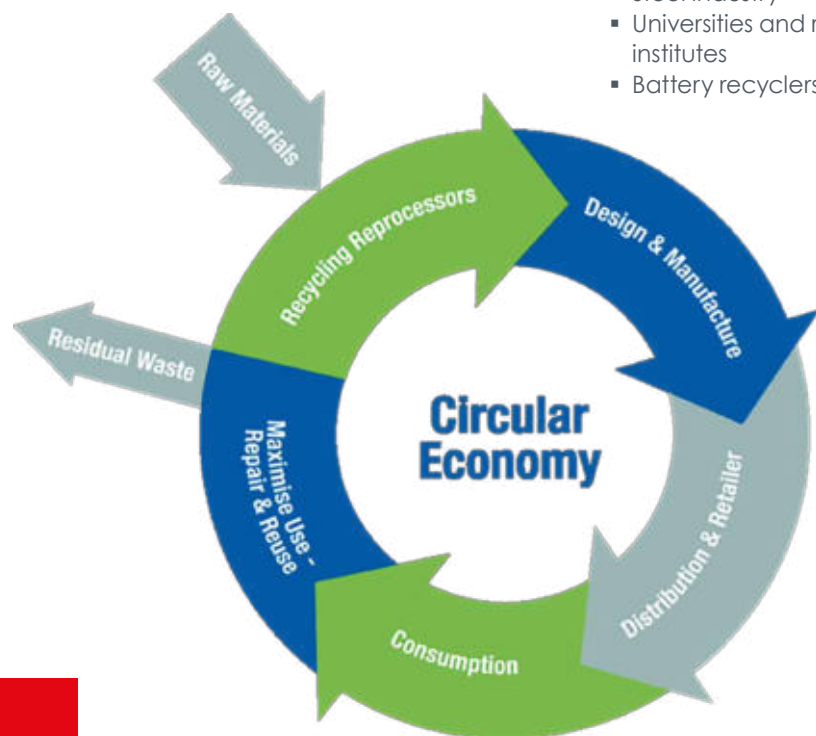
"Circular Economy for EV Segment around Sustainability and Strategic Metal Recovery"
Prof. Farouk Tedjar, RECUPYL SAS, France

17.00 Closing Remarks



WHO SHOULD ATTEND?

- Car manufacturers (OEMs)
- Battery manufacturers
- Electronics and power supply companies
- Eco-designers & engineers
- Best available technology suppliers
- Collection and transportation companies
- Ferrous and stainless steel industry
- Recycling and dismantling companies
- Collection schemes and take back organizations
- Components and parts suppliers
- Consultants
- Environmental authorities
- Ferrous and non ferrous traders
- Laboratories for material science
- Non ferrous metal industry
- Plastic industry
- Refurbishers
- Reuse and refurbishment organizations
- Steel industry
- Universities and research institutes
- Battery recyclers



“MEET YOUR CLIENTS” RECEPTION

On Tuesday, July 2, 2019, a “meet your clients” reception will be organized for the participants at the Westin Tokyo.

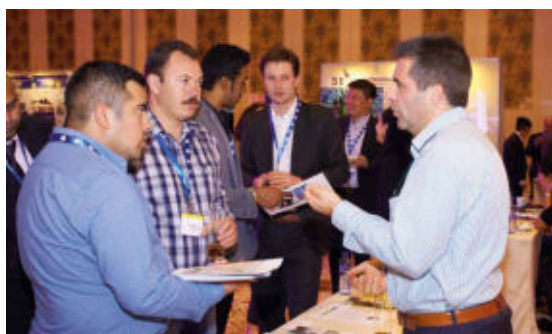
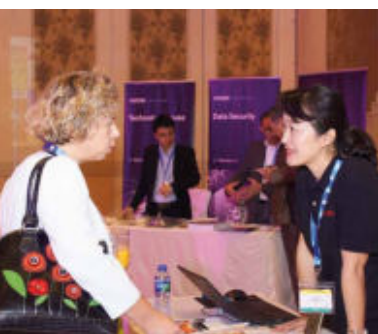
Do not miss this perfect opportunity to socialize and network with your business partners.



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EXHIBITING & ADVERTISING



The exhibition area provides your company with the perfect opportunity to reach key industry decision makers. Promote your products to all conference attendees.

The fees are:

Booth 6 m² (2 m x 3 m)	USD	3'200
Display board (board printing)	USD	790
Poster presentation (wall rental)	USD	350

Space is limited, so take your chance and book today!



EXHIBITORS

As per June 3, 2019:



Albert Hoffmann GmbH, Germany



Anchor Network Service, Inc., Japan



Dolav Asia Pacific Co., Ltd., Hong Kong



FIREBOX, Switzerland



Guangzhou 3E Machinery Co., Ltd., China



MTB Recycling, France



TES Group, Australia



Perry Johnson Holding Inc., Japan



Shonan Trading Co., Ltd, Japan



URT Umwelt- und Recyclingtechnik GmbH, Germany



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www.icm.ch

Participants registering and paying **before May 15, 2019** will benefit from a reduced registration fee. The registration fee includes conference, entrance to the exhibition, proceedings and luncheons.

REGISTER BY
MAY 15, 2019
AND PROFIT FROM
DISCOUNTED RATES

ORGANIZER



JEANETTE
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Congress Assistant



SANDRA
Congress Assistant



SUSANN
Congress Assistant



ANNA ROSA
Congress Assistant



ANGELA
Congress Assistant



MICHAL
Congress Assistant

REGISTRATION FEES

Registration fee	before May 15, 2019	after May 15, 2019
Participants	USD 1'590	USD 1'690
Speakers	USD 990	USD 1'090
Universities, Government & Authorities	USD 690	USD 790

Monday, July 1, 2019 – Plant tours and Workshops

Please note the time schedule to make your choices.

Plant tours

East Japan Recycling of Resources Co., Ltd. (EARC) & Phoenix Metal Corporation (Rever group), Chiba (08.15 – 17.00)	USD 90	USD 150
HYPER CYCLE SYSTEMS CORPORATION, Chiba (13.00 – 18.00)	USD 90	USD 150

Workshops

How to handle defect or unstable Lithium HighVoltage Car Batteries (09.00 – 12.00)	USD 90	USD 150
E-Mobility in Japan: Fire Safety Challenges in Automotive Plastics (14.00 – 17.30)	USD 90	USD 150

Conference registration on site USD 100.– surcharge

Online registration

You may also register online at: www.icm.ch/emce-2019

Conference language and additional proceedings

The language of the conference is English and Japanese. Simultaneous interpretation in English and Japanese will be offered at the conference.

If you cannot attend the conference, you may purchase the complete proceedings at USD 350. Participants will get the proceedings free of charge.

Payment

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

Experts in WEEE Engineering



FRIDGE DISPOSAL



- VFC and VHC recovery
- Selective VHC treatment
- Best fraction resulting
- VHC and VFC online destruction

PRINTED CIRCUIT BOARDS



- Shredding, sorting, sampling
- Pyrolysis concepts
- Minimized losses of precious metals
- Added value from low grade PCBs

IT & SMALL DOMESTIC APPLIANCES



- Optimized fractions resulting
- Worldwide references
- Tailor-made solutions
- Plastics sorting

TONER CARTRIDGES



- Explosion proof treatment
- Fraction recovery
- Low man-power
- References available

**WEEE
KNOW HOW**



URT Umwelt- und Recyclingtechnik GmbH
Am Hammersteig 5a • 97753 Karlstadt, Germany
☎ +49 (0) 9353 90 68-0 • www.urt-recycling.com



广州市滨一塑料机械设备有限公司
GUANGZHOU BINYI PLASTICS MACHINERY CO.,LTD

» 18650&21700锂电池回收处理技术 18650&21700 Lithium Batteries recycling technologies



» 废旧家用干电池回收处理技术 Household dry Batteries recycling technologies



Address: Area C, 1st Floor, Building 6, Chuangxing Industrial Park, No.22 Lixin 10th Road, Shapu, Xintang Town, Zengcheng District, Guangzhou, China.
Tel: 0086-020-82521801 020-82574365 Fax: 0086-020-82574355
William Chong HP: 0086-13924103457
E-mail: binyiplastics@gzbinyi.cn binyijixie@gzbinyi.cn
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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

BLUBOX.ch

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.



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.

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

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

assumed that transferring knowledge is too complicated and costly.

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

We are E-Reciklaža, a recycling company that



Upcoming ICM Events:

www.icm.ch

E-Mobility & Circular Economy

EMCE 2019

EMCE
2019



July 1 – 3, 2019
Tokyo, Japan



24th International Congress for Battery Recycling

ICBR 2019

ICBR
2019



September 18 – 20, 2019
Lyon, France



19th International Electronics Recycling Congress

IERC 2020

IERC
2020



January 22 – 24, 2020
Salzburg, Austria



20th International Automobile Recycling Congress

IARC 2020

IARC
2020



March 11 – 13, 2020
Geneva, Switzerland



