

IARC 2021

Onsite & Virtual

20th International Automobile Recycling Congress IARC 2021

June 23 – 25, 2021, Geneva, Switzerland



Patronage:

- Alliance of Automobile Manufacturers
- Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)
- 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)
- Fédération des entreprises du recyclage (FEDEREC)
- Federal Office for the Environment FOEN, Switzerland
- Japan Automobile Manufacturers Association (JAMA)
- Japan Automotive Recyclers Association (JARA)
- PlasticsEurope
- The Advanced Rechargeable & Lithium Batteries Association (RECHARGE)

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FOREWORD



MANFRED BECK

Chairman of
the Steering Committee
International Automobile
Recycling Congress

In 2001, the first International Automobile Recycling Congress was held in Geneva, Switzerland and now, two decades later, it is returning to the city. As last year's conference was postponed, IARC will celebrate its 20th anniversary edition in 2021.

The annual IARC gathering is recognised by all those involved in the vehicle recycling chain as the most important and informative meeting in the world, attracting hundreds of recyclers and manufacturers as well as local, European and international policy makers and other stakeholders.

Keynote Speakers

For 2021, IARC is proud to announce two excellent keynote speakers. On the Wednesday Jean-Philippe Hermine, Vice-President Environmental Strategy of Renault, who will give an insight into the company's e-mobility

strategy, with a special focus on end-of-life batteries. Artemis Hatzi-Hull from the EU Commission will present one of the hottest topics on the auto recycling industry's agenda, the revision of the End of Life Vehicle Directive and its impact on the entire sector.

Panel Discussion

The panel discussion 'Revision of the EU End of Life Vehicles directive and the Green Deal: threat or opportunity?' will also focus on the most important issues the profession is currently facing. The participants will debate the potential impact of the ELV Directive revision on mobility, the recycling industry and producer responsibility organisations.

Hot Topics

During the three-day event, the delegates will have the opportunity to discuss these issues and more:

■ Circular economy and ELV challenges:

Green Deal – tax free environment and the new data base for substances of high concern; safety of electric ELVs at the authorised treatment facilities (ATF+); car recycling in Spain – new legislation will impact recyclers and car manufacturers alike.

■ Dismantling, depollution, recycling and reuse:

sorting of ELV scrap; used spare parts as a cornerstone of the economic balance of the sector; efficient recycling of ELVs with know-how and safety standards in Austria.

■ Battery safety and second life:

safety requirements and steel in Body-in-White designs; making e-mobility batteries circular; dismantling & shredding of lithium-ion batteries.

■ Recycling news from around the world:

A 'new' Irish compliance scheme; how Norway's Batteri-Retur and partners set up

a world leading collection system for high-voltage batteries; the death of the American junkyard – how U.S. recyclers are evolving to progressive recycling facilities.

■ The future for recycled polymers:

Next-generation recycling processes for plastics containing flame retardants in automotive, challenges for recycled plastics and rubber.

■ Best available process technologies:

Innovative air emission control for ELV recycling plants; harmony of total recovery and profitability within shredder residue processing; LIBS, the newest generation, chemistry based, precise sensor sorting technology for aluminium recyclers.

Exclusive plant tour

On June 25 IARC is offering an exclusive opportunity to see first-hand the work of leading Swiss company in the recycling industry.

Thévenaz-Leduc is one of the largest metal, paper and plastic recycling companies in Switzerland. You will visit the 'INDRA' car depollution factory with SEDA equipment, a shredder and shear plant of METSO, the flat screen and lamp recycling plant of BLUBOX and MSS optical sort system, and the aluminium coffee capsule recycling facility of NESPRESSO.

Networking

Of course, all ICM congresses are famous for their extensive networking opportunities. IARC 2021 has an exciting array of coffee breaks, lunches, cocktail receptions and a memorable 20th anniversary networking dinner where you can enjoy great food and wine in a wonderful atmosphere!

I look forward to welcoming you to IARC 2021 in Geneva.

INTERNATIONAL STEERING COMMITTEE



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Chairman
Recycling Consultant
Netherlands



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Stellantis, VS&RC – Vehicle
Environmental Compliance
LCA & ELV Management
Italy



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KEYNOTE SPEAKERS

JEAN-PHILIPPE HERMINE

Renault SAS
VP Environmental Strategy
France

“End of life vehicles and batteries, a systemic environmental and business approach”



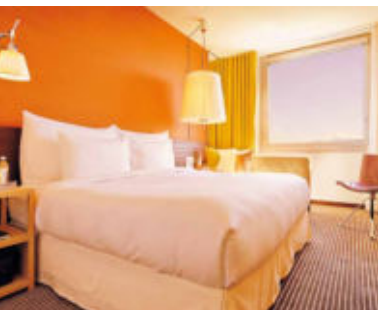
ARTEMIS HATZI-HULL

European Commission
Directorate General for the Environment
Belgium

“Review and renew: what the new ELV directive aims to change”



LOCATION & ACCOMMODATION



The 20th International Automobile Recycling Congress IARC 2021 will be held from June 23 – 25, 2021 at the:

Hotel InterContinental Geneva
7–9 Chemin du Petit Saconnex
1209 Geneva
Switzerland

Phone +41 22 919 39 39
www.geneva-intercontinental.com

The Hotel InterContinental Geneva is only 10 minutes by public transport from the city center and the airport. The hotel offers the city's highest point of view on Lake Geneva, Mont Blanc, the Alps and Jura mountain.

Connection from Geneva Airport:

Only 6 minutes by taxi or public bus.
Bus N°5 stops in front of the hotel InterContinental.

IMPORTANT NOTICE:

The health and well-being of our participants is our top priority. ICM guarantees that all necessary measures are in place to protect us all and enable our conferences to take place in safe and enjoyable conditions. All our partners respect and update local rules and regulations. For further information on the current situation please click [here](#). For any other questions please contact the ICM team.



BIENVENUE À GENÈVE! WELCOME TO GENEVA!

Situated along the banks of Lake Geneva at the foot of the Alps, Geneva sparkles as one of Europe's most beautiful cities. It boasts some stunning landscapes, plus an incredibly diverse cultural scene!

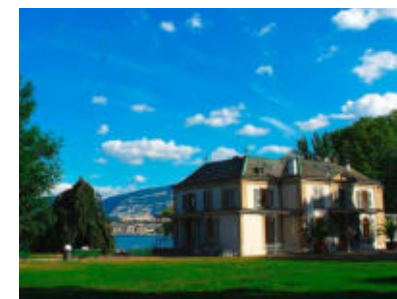
Geneva is the epicenter of watchmaking expertise and the home to the European headquarters of the United Nations and the Red Cross. A cultural center featuring world class entertainment, sixty art galleries and forty museums, top rated restaurants and unlimited opportunities for recreation.

The "Jet d'Eau", Geneva's most famous monument, is the world's tallest water fountain and provides a constant landmark for exploring the city and the Old Town.

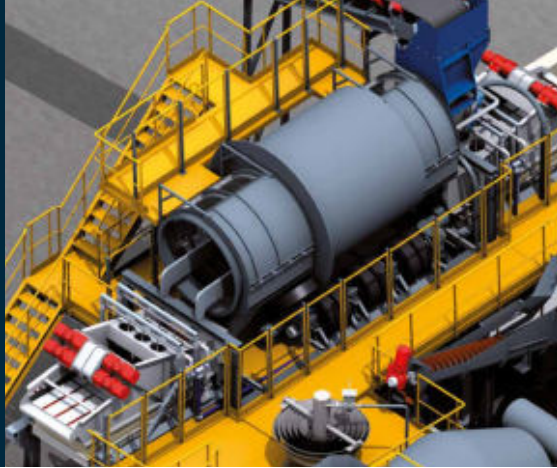
As well, be sure to check out Geneva's famed Market Street to buy a Swiss watch or just window shop. Enjoy lake "Léman", take a cruise on the lake or relax in one of Geneva's main waterfront parks.

Extend your stay and enjoy the energy of a big city but with the tranquility of a small town.

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China has imposed tougher restrictions on the import of mixed metal fractions, demanding additional process flexibility from recycling companies worldwide.

The VULTURE, a compact and highly efficient installation for the separation of Zorba and IBA, was developed by Ad Rem to empower recyclers with this flexibility, enabling them to obtain a clean heavy fraction while maintaining an exceptional aluminum quality for domestic consumption.

WHO SHOULD ATTEND?

EU Commission & national authorities

The update of the ELV Directive which will be presented shortly by the EU Commission to the EU Parliament will have a significant impact on all stakeholders.

Direct stakeholders

- Car manufacturers & car importers
- Dismantlers
- Shredders

Circular Economy businesses

- Material & component manufacturers
- New players involved in extending product life cycles

Electro-mobility industry

- Market impact
- New component businesses: batteries, motors, plastics
- Critical material recyclers
- Safety experts in prevention, storage, transport

Academics & Research Institutes

- Eco-design
- New recycling technologies & processes

Recycling news from around the world

- Best practices
- Is each national authority up to the challenges of new developments in mobility?



CONGRESS PROGRAM IARC 2021

TUESDAY, JUNE 22, 2021

17.00 – 19.00 Pre-registration

WEDNESDAY, JUNE 23, 2021

08.00 – 09.00 Registration and welcome coffee in the exhibition area

09.00 – 10.30 Welcome & Introduction
Manfred Beck, Chairman of the Steering Committee

KEYNOTE SPEAKERS

End of life vehicles and batteries, a systemic environmental and business approach
Jean-Philippe Hermine, VP Environmental Strategy, Renault SAS, France

Review and renew: what the new ELV directive aims to change
Artemis Hatzi-Hull, European Commission, Belgium

10.30 – 11.00 Coffee break in the exhibition area

11.00 – 12.30 **PANEL DISCUSSION**

Revision of the End of Life Vehicles directive and the Green Deal: threat or opportunity?

Moderator: Willy Tomboy, Detomserve, Belgium

Participants: Olivier François, Group GALLOO, France
Artemis Hatzi-Hull, European Commission, Belgium
Alejandro Novazas, EuRIC, Belgium
Amélie Sophie Salau, ACEA, Belgium

12.30 – 14.00 Lunch in the exhibition area

13.30 – 14.00 Live Demo of the FireBox safety system (outside). Meeting Point: FireBox booth

FireBox



Car display –
TESLA Model 3



Car display –
TOYOTA Mirai

Session 1: Circular economy and ELV challenges

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

14.00 – 14.30 The Green Deal and the strategy Tox-Free-Environment – chances or risks for recyclers?

Beate Kummer, Kummer:Umweltkommunikation GmbH, Germany

14.30 – 15.00 Safety of the End-of-Life electric cars at the ATF+

Catherine Lenaerts, Febelauto & Willy Tomboy, Detomserve, Belgium

15.00 – 15.30 Car recycling in Spain: Solid network and well thought-out legislation and regulation

Manuel Kindelan, SIGRAUTO, Spain

15.30 – 16.00 Coffee break in the exhibition area

Session 2: Dismantling, depollution, recycling and reuse

Session Chair: Catherine Lenaerts, Febelauto, Belgium

16.00 – 16.30 ELV scrap: is ever deeper sorting necessary and what is the benefit?

Christian Pak, STEINERT GmbH, Germany

16.30 – 17.00 IDIS – high voltage information for end-of-life -vehicle treatment

Johannes Chatzis, IDIS Management / tec4U -Ingenieurgesellschaft mbH, Germany

17.00 – 17.30 Electric vehicle recycling for ATFs – changes and opportunities?

Sebastian Raubinger, SEDA-Umwelttechnik GmbH, Austria

19.30 Cocktail reception in the exhibition area

20.00 20th anniversary networking dinner in the Hotel InterContinental

CONGRESS PROGRAM IARC 2021

THURSDAY, JUNE 24, 2021

08.00 – 09.00 Welcome coffee in the exhibition area

Session 3: Battery safety and second life

Session Chair: Janet Kes, ARN Holding B.V., Netherlands

09.00 – 09.30 Safety requirements of e-mobility will increase the amount of steel in the Body-in-White designs
Jérôme Favero, ArcelorMittal Europe, Belgium

09.30 – 10.00 Watt4Ever, making e-mobility batteries circular
Fredericq Peigneux, Watt4Ever, Belgium

10.00 – 10.30 Dismantling & shredding – (R)eUse, (R)epurposing, (R)ecycling, (R)ecovery – Where a(R)e we in terms of lithium-ion-batteries?
Christian Winkler, TES-AMM Central Europe GmbH, Germany

10.30 – 11.00 Coffee break in the exhibition area

Session 4: Recycling news from around the world

Session Chair: Roger Burri, Air Mercury AG, Switzerland

11.00 – 11.30 Closed-loop & lowest cost e-car battery collection and recycling in Switzerland
Jodok Reinhardt, LIBREC AG, Switzerland

11.30 – 12.00 Pioneers and innovation, Batterireturs establishment of a global leading circular system for HV batteries
Fredrik Andresen, AS Batteriretur, Norway

12.00 – 12.30 Screens and filters for the recycling industry
Glenn Vercruyce, Trisol N.V., Belgium

12.30 – 14.00 Lunch in the exhibition area

13.30 – 14.00 Live Demo of the FireBox safety system (outside). Meeting Point: FireBox booth

FireBox



Car display –
TESLA Model 3



Car display –
TOYOTA Mirai

Session 5: The future for recycled polymers

Session Chair: Olivier François, Group GALLOO, France

14.00 – 14.30 Automotive rubber – back to black
Thomas Sorensson, Scandinavian Enviro Systems AB, Sweden

14.30 – 15.00 Next-generation recycling processes for plastics containing flame retardants in automotive as part of a circular economy
Lein Tange, ICL-IP, Netherlands

15.00 – 15.30 Creating a Circular Economy for automotive plastics: a polyolefin producer approach
Georg Grestenberger, Borealis Services S.A.S., France

15.30 – 16.00 Coffee break in the exhibition area

Session 6: Best available process technologies

Session Chair: Jan Bollen, ArcelorMittal Europe, Belgium

16.00 – 16.30 Air emissions control innovative process for ELV plant
Rik Debaere, Group GALLOO, Belgium-France and Frederick Thoma, Keller Lufttechnik Benelux, Belgium

16.30 – 17.00 Harmony of total recovery and profitability within shredder residue processing by generation of quality products
Heiner Guschall, SICON, Germany

17.00 – 17.30 Why do aluminium recyclers need LIBS, the newest generation, chemistry based, precise sensor sorting technology
Rick Comtois, Austin AI, Inc., USA

17.30 – 17.45 Closing Remarks by Jill Ledger-Bompard

from 17.45 Farewell reception in the exhibition area

PROGRAM FOR VIRTUAL SESSIONS IARC 2021

VIRTUAL SESSION 1: TECH BOX

- The Green Deal and the challenges for the automotive industry
Murat Bayram and Roger Morton, EMR European Metal Recycling GmbH, Germany
- Used spare parts as a corner stone of the economic balance of the sector
Chrystelle Drevon, INDRA SAS, France
- The role of recycling in the supply chain of critical battery materials
Kunal Phalpher, Li-Cycle Corp., Canada
- Automated sorting of plastics from shredded electronics scrap
Felix Hoffenstein, MSS, Inc., USA
- The phase characterization of black mass and its commercial implications in the circular economy
Laurance Donnelly, Alfred H Knight Group, United Kingdom
- Feasibility of aluminium components dismantling from ELV
Benedetta Nucci, European Aluminium, Belgium
- Investigation of fires with electric vehicles in underground traffic areas
Lukas Fast, FOGTEC Brandschutz GmbH, Germany
- New methods for fragmentation of battery packs and magnets from electric car components
Johannes Öhl, Fraunhofer IWKS, Germany
- Increased resource efficiency by robot-based automated disassembly of electric powertrains
Florian Hansen and Jan Seelig, CUTECH Clausthaler Umwelttechnik Forschungszentrum, Germany
- On the path to a Circular Economy: we are increasing the global recycling rate
LINETECHNOLOGY GmbH, Austria
- Materials for a better life
Umicore Precious Metals Refining, Belgium
- Hensel Recycling – your first choice in auto-catalyst recycling
Hensel Recycling GmbH, Germany
- Flat panel display and lamp recycling system
BLUBOX Trading AG, Switzerland
- Salvage and quarantine containers for lithium batteries and electric vehicles
FIREBOX Swiss AG, Switzerland
- STEINERT Test and Development center – our focus is finding customized solutions
STEINERT GmbH, Germany
- Metal recovery: sensor sorting or flotation
AD REM N.V., Belgium
- REDWAVE – Your expert on sorting solutions in the recycling industry
REDWAVE, Austria
- High efficient mixed plastic sortation with laser spectroscopy
UNISENSOR Sensorsysteme GmbH, Germany
- Recycling and recovery of electronic waste from ELV's
Stokermills/Seltek Srl, Italy
- 25 years of car recycling in pictures
ARN, Netherlands
- LKQ, USA
- METSO Austria GmbH, Austria (TBC)
- Group Barec / Thévenaz, Switzerland (TBC)
- Scholz Recycling GmbH, Germany (TBC)
- TSR Recycling GmbH & Co. KG, Germany (TBC)

VIRTUAL SESSION 2: BUSINESS BOX

- CEBRA: Integrated Circular Economy – business model for decoupling Europe from PGM supply
Davide Seia, CRF – Stellantis, Italy
- Notes from a small island – ELVES, the Irish compliance scheme
Elena Wrefton, Elves, Ireland
- The death of the American junkyard: how United States recyclers are evolving from junkyards to progressive recycling facilities
Bill Stevens, Fenix Parts Inc., USA
- Towards carbon neutral steel
XCarb, Luxembourg
- Circular economy for end-of-life vehicles
Kerstin Kuchta, TUHH – Hamburg University of Technology, Germany (TBC)
- ADEME study: "Global overview of financial incentive schemes aiming to bring ELVs through authorized processing channels"
Victoire Escalon, In Extenso Innovation Croissance, France
- Toyota Mirai – Let's go beyond zero
Toyota
- Reneos, Belgium

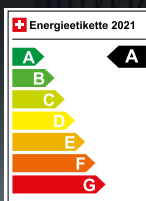
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PLANT TOUR

FRIDAY, JUNE 25, 2021

THEVENAZ-LEDUC SA, ECUBLENS-LAUSANNE /
PAPIREC SA, MOUDON, SWITZERLAND

08.00	Departure by bus to Thévenaz-Leduc SA, Ecublens
09.00	Arrival at Thévenaz-Leduc SA, Ecublens
09.00 – 11.00	Visit to the "INDRA" car dismantling factory with "SEDA" equipment Visit to the shredder and shear plant of "METSO"
11.00 – 12.00	Lunch
12.00	Departure by bus to Papirec SA, Moudon
13.00 – 14.30	Visit to the flat screen & lamp recycling plant of "BLUBOX" and "MSS" optical sort system Visit to the coffee caps recycling facility of "NESPRESSO"
	Departure by bus
16.15*	Arrival at the airport Geneva
16.30*	Arrival at the Hotel InterContinental Geneva

Today the **BAREC Group** is one of the largest metals, papers and plastics recycling group in Switzerland. In 1954 the **family Balmelli** acquired the metal scrap recycling company **Thévenaz-Leduc SA**, which has already been founded in 1865.

Today, the BAREC Group (BAlmelli RECycling) owns 15 recycling companies in the western part of Switzerland with a total of 200 employees. **Papirec SA** and **Alpabern AG** are today's leaders for paper recycling in Switzerland, as well as **Datarec SA** for data destruction in cooperation with **Securitas SA**.

The scrap iron, metals, cables and electronics waste are going to be recycled and traded by **Thévenaz-Leduc SA**, **Abbé SA** and **Trottel SA**. **Thévenaz-Leduc SA** is operating the only shredder and post shredder machineries in western Switzerland. The 2'000-horsepower shredder recycles 100'000t of light ferrous and non-ferrous metals annually.

Another milestone in the history of **Thévenaz-Leduc SA** has been the recycling and partnership with **Nespresso SA** to recycle all coffee capsules in Switzerland. In 2019 **Thévenaz-Leduc SA** inaugurated Switzerland's first car depollution plant, as well as the first fully integrated recycling machine for hazardous materials such as lamps and flat TVs and monitors.

www.barec.ch

* No guarantee of arrival time due to traffic conditions.
The plant tour is limited to 40 participants.



*We collect,
dismantle and sort
for better recycling*



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Networking Dinner

Dress code:
business casual/
semi-formal attire

Do not miss the perfect opportunity to socialise with your business partners, enjoying a cocktail at the pool bar followed by a delicious dinner and live music in a beautiful poolside setting on Wednesday, June 23, 2021!

Celebrate with us the 20th anniversary of IARC!



The registration fee includes entrance to the congress and exhibition, virtual event package, proceedings and luncheons.

REGISTRATION FEES

Congress registration fee, incl. virtual event package

Fee for participants	EUR	1'890
Fee for speakers	EUR	1'190
Fee for students*	EUR	790

*only with valid student card and age below 30

Networking dinner (June 23, 2021)

EUR 140

Networking dinner guest (June 23, 2021)

EUR 150

Plant tour (June 25, 2021)

Thévenaz-Leduc SA, Ecublens-Lausanne EUR 70

Virtual event package

EUR 590

All prices excl. 7,7% Swiss VAT.

Registration on site EUR 100 surcharge.

Online registration

You may register online at: www.icm.ch/iarc-2021

Payment

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

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Geneva, Switzerland
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