

# IARC 2013

www.icm.ch

## 13<sup>th</sup> International Automobile Recycling Congress IARC 2013

March 13 – 15, 2013, Brussels, Belgium



### Patronage:

Alliance of Automobile Manufacturers  
Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)  
Automotive Recyclers Association (ARA)  
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)  
Japan Automobile Manufacturers Association (JAMA)  
Japan Automotive Recyclers Association (JARA)  
PlasticsEurope



TOYOTA



## FOREWORD



### PROFESSOR WIJNAND DALMIJN

Chairman of  
the Steering Committee  
International Automobile  
Recycling Congress

#### Welcome to Brussels!

In Brussels the recycling targets for automobiles, E-scrap, batteries and other consumer product goods were defined and the targets to be met for 2015 set. The day the recycling quotas have to be realized is approaching fast. On the way to 2015 to meet the quotas set a combination of legislation, economy and technology is needed. Since the EC legislation has been adopted there have been large changes in the automobile cycle with an impact on the export of ELVs to Asia, Eastern Europe, Africa and other countries and this has steadily increased since 2000. Also the export of car scrap to Asia for hand sorting has been growing steadily since the end of the nineties. At the moment large shredder plants are built in China and automated sensor sorting of the nonfer-

rous metals on a large scale with Chinese equipment is the next step. In Europe the total export of old cars and ELVs has reached in some countries a level of about 70% from which most ELVs go East and to Africa. In Germany and the Netherlands the depolluted ELV feed to the shredders has been reduced to about 20% to 25% ELVs seriously affecting the economy of the shredder operations, the dismantling and spare parts industry. Also the nonferrous smelters in Europe and in the USA are having problems with scrap volume and profitability because large amounts of scrap have changed destination. Per year the changes have not been dramatic but the trend over the last decade is indicating that drastic changes are needed for a sustainable global automobile cycle business model. During the implementation of the EC recycling legisla-

tion the recycling quota is slowly approaching in some countries the 95% but at the same time however the volume has dropped from almost a 100% to 25%. The 95% recycling rate might be a political success but the 25% is a disaster for the business, maybe the focus has to be adapted by the legislators in Brussels.

During the congress the following topics will be addressed:

- How do car manufacturers and the industry close the recycling loop?
- New cars and new recycling technologies
- Best available recycling technologies
- Reports about illegal export of wrecks
- European ELV Directive towards 2015
- E-mobility – influence on car recycling and dismantling

- Rare earth recycling – what does it mean for the car industry
- CO<sub>2</sub> reductions and emissions trading potential of car recycling activities
- Implementing new laws and regulation
- Design for recycling – failing or a success?

During the congress commercial presentations will be held in the exhibition area with a focus on the recycling industry and those interested in the technology and facts for the automobile cycle.

I am looking forward to welcoming you at IARC 2013!



## KEYNOTE SPEAKERS



**KARL FALKENBERG**

European Commission  
DG Environment  
Director General  
Belgium

“EU COMMISSION ENVIRONMENTAL POLICY –  
THE WAY FORWARD / LEADING THE WORLD”

**MATTHEW LYNCH**

World Business Council for Sustainable Development (WBCSD)  
Urban Infrastructure Initiative  
Project Director  
Switzerland

“WBCSD: VISION 2050”



**DR LUIGI PELAGGI**

Ministry of the Environment, Land and Sea  
Counselor of Minister  
President of the ELV public agreement  
Italy

“END OF LIFE VEHICLES PUBLIC  
AGREEMENT IN ITALY”

**CHRISTINA MESKERS**

Umicore Precious Metals Refining  
Marketing and Business Development Manager  
Belgium

“RECOVERY OF SCARCE METALS FROM  
ELV – A BUMPY ROAD AHEAD?”



## INTERNATIONAL STEERING COMMITTEE



**PROFESSOR  
WIJNAND DALMIJN**  
**Chairman**  
Emeritus Professor  
Delft University of Technology  
Netherlands



**MANFRED BECK**  
**Vice-Chairman**  
Recycling International  
Editor  
Netherlands



**JULIEN VAN DAMME**  
**Chairman of the Scientific  
Committee**  
Honda Motor Europe Ltd.  
Recycling Manager  
Belgium



**DR RUGGERO ALOCCI**  
Alocchi Rappresentanze  
Industriali  
President  
Italy



**DR MICHAEL BIDDLE**  
MBA Polymers, Inc.  
President and Founder  
USA



**JAN BOLLEN**  
ArcelorMittal Technology  
Environment Product Manager  
Belgium



**DR FRANCESCO BONINO**  
FIAT Research Center  
Materials and Process Technologies  
Head of Interiors Materials &  
Technologies Unit  
Italy



**CORINE BUFFONI**  
Ecore Luxembourg SA  
Assistant Director  
Luxembourg



**ROGER BURRI**  
Air Mercury AG  
President  
Switzerland



**ARIE DE JONG**  
ARN Holding B.V.  
CEO  
Netherlands



**OLIVIER FRANÇOIS**  
Group GALLOO Recycling  
Market Development Officer  
France



**WOLFGANG HANG**  
BMW Group  
Department Manager  
Recycling  
Germany



**JOSEPH M. HOLSTEN**  
LKQ Corporation  
CEO  
USA



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



**FEDE KARRER**  
Foundation Auto Recycling  
Switzerland  
Delegate of the Board  
Switzerland



**FERDINAND KLEPPMANN**  
CEWEP President  
ITAD Chairman  
Germany



**PETER KUNZE**  
ACEA  
Director Environmental Policy  
Belgium



**RICHARD PAUL**  
Environmental Management  
Consultant  
USA



**WILLY TOMBOY**  
RECHARGE  
Chairman of the  
Industrial Battery  
Working Group  
Belgium

## LOCATION OF THE CONGRESS



The 13<sup>th</sup> International Automobile Recycling Congress will be held from **March 13 – 15, 2013** in the hotel Dolce La Hulpe near charming Brussels.

The hotel Dolce La Hulpe, Brussels is located in the heart of the ancient Sonain forest only 15 km away from Brussels center and Brussels International Airport Zaventem and 40 km away from Charleroi Airport. The hotel offers a premier on-site conference location with a lot of benefits: The hotel can easily be reached by car and there are enough parking spaces available at no charges. High speed WiFi is provided free of charge in the whole property.

### **Hotel Dolce La Hulpe Brussels\*\*\*\***

135, Chaussée de Bruxelles

1310 La Hulpe, Belgium

Phone +32 2 290 98 00

Fax +32 2 290 99 00

[www.dolcelahulpe.com](http://www.dolcelahulpe.com)



## CHARMING BRUSSELS

Today the name Brussels stands for an agglomeration of 19 communes forming one of the three Regions of the federal Belgian state; the capital of the Kingdom of Belgium; the headquarters of the French and Flemish Communities.

The metropolitan area has a population of over 1.8 million, making it the largest in Belgium. Both French and Dutch are the official languages of the city. Street names and traffic signs are always in these two languages.

Since the end of the Second World War, Brussels has been a main center for international politics. As the European capital the city is home to the European Commission and to the Council of ministers of the European Union (EU).

Notable culinary specialties include Brussels waffles (gaufres) and mussels (usually as "moules frites", served with fries). The city is a stronghold of chocolate and pralines manufacturers with renowned companies like Godiva, Neuhaus and Leonidas.

The heart of Brussels and the place to start getting to know the city is the Grand Place (Grote Markt). This historic market square with its splendid guild houses and the impressive Gothic beauty of the Town Hall, is widely considered to be one of the most beautiful town squares in Europe.



[www.visitbrussels.be](http://www.visitbrussels.be)

## ACCOMMODATION

For the participants of the congress a number of rooms are held at a special rate if you register **before January 31, 2013**. If you wish, you may also extend your stay at this lovely hotel at the same special rate.



### Hotel Dolce La Hulpe Brussels \*\*\*\*

135, Chaussée de Bruxelles  
1310 La Hulpe, Belgium

Phone +32 2 290 98 00  
Fax +32 2 290 99 00  
[www.dolcelahulpe.com](http://www.dolcelahulpe.com)



## Prius Plug-in Hybrid Test Drive at the IARC March 13-14, 2013



ALWAYS A  
BETTER WAY



## CONGRESS PROGRAM IARC 2013



### TUESDAY, MARCH 12, 2013

17.00 – 19.00 **Registration**

### WEDNESDAY, MARCH 13, 2013

08.00 – 09.30 **Registration and welcome coffee in the exhibition area**

#### **Session 1: OPENING AND KEYNOTE SPEAKERS**

09.30 – 09.45 "Welcome and Introduction"  
**Prof. Wijnand Dalmijn, Chairman of the Steering Committee**

09.45 – 11.00 "EU Commission Environmental Policy – The way forward / leading the world"  
**Karl Falkenberg, European Commission, Belgium**

"End of Life vehicles public agreement in Italy"  
**Dr Luigi Pelaggi, Ministry of the Environment, Italy**

11.00 – 11.30 **Coffee break in the exhibition area**

11.30 – 12.30 **Panel Discussion: "Phasing out criminal export"**  
**Moderator: Arie de Jong, ARN, Netherlands**  
**Participants:**  
**Karl Falkenberg, European Commission, Belgium**  
**Paul Fox, Egara, United Kingdom**  
**David Higgins, INTERPOL Environmental Crime Programme, France**  
**Representative of IMPEL, Belgium**  
**Hans van der Bruggen, Association of European Vehicle and Driver Registration Authorities (EReg), Netherlands**

12.30 – 14.00 **Lunch in the exhibition area**

#### **Session 2: Country reports I** **Session Chairman: Corine Buffoni, Ecore, Luxembourg**

14.00 – 14.30 "Toyota Tsusho role in car recycling and material management"  
**Kazutaka Kitazume, Toyota Tsusho Corporation, Japan**

14.30 – 15.00 "Shredder results in France"  
**Eric Lecointre, ADEME, France**


15.00 – 15.30 "The benefits and importance of ELV Recycling: A case study from Iran"  
**Hosein Kazemi, Tarbiat Modares University, Iran**

15.30 – 16.00 **Coffee break in the exhibition area**

#### **Session 3: Country reports II** **Session Chairman: Julien Van Damme, Honda Motor Europe Ltd., Belgium**

16.00 – 16.30 "End-of-Life vehicles management in Italy"  
**Dr Alessandro Santini, Gruppo Fiori, Italy**

16.30 – 17.00 "Nigeria: Vehicle recycling plant set to take off in Abuja"  
**Norihiko Kondo, Kaiho Sangyo Co. Ltd., Japan**

17.00 – 18.30 "Bierfass" reception in the exhibition area  
**sponsored by **

19.30 **Cocktail reception and networking dinner at AUTOWORLD Brussels**

## CONGRESS PROGRAM IARC 2013

### THURSDAY, MARCH 14, 2013

08.00 – 09.00 Welcome coffee in the exhibition area

**Session 4:** KEYNOTE SPEAKERS

**Session Chairman:** Manfred Beck, Recycling International, Netherlands

09.00 – 09.30 "WBCSD: Vision 2050"  
**Matthew Lynch, World Business Council for Sustainable Development (WBCSD), Switzerland**

09.30 – 10.00 "Recovery of scarce metals from ELV – A bumpy road ahead?"  
**Christina Meskers, Umicore Precious Metals Refining, Belgium**

10.00 – 10.30 Coffee break in the exhibition area

**Session 5:** Best available recycling technologies

**Session Chairman:** Richard Paul, Environmental Management Consultant, USA

10.30 – 11.00 "Rare earth containing components of e-mobility"  
**Peter Willis, Oakdene Hollins, United Kingdom**

11.00 – 11.30 "Sorting plastics from shredder residue"  
**Dr Pal Lukacs, ALCUFER Kft, Hungary**

11.30 – 12.00 "Glass study in Belgium"  
**Marc Bosmans, Interfek RDC, Belgium**  
**Saskia Manshoven, VITO NV, Belgium**

12.00 – 13.30 Lunch in the exhibition area

**Session 6:** Implementing new laws and regulations

**Session Chairman:** Steve Hope, Toyota Motor Europe NV/SA, Belgium

13.30 – 14.00 "The new guidance document of the EC on how to perform a shredder campaign"  
**Knut Sander, Ökopool GmbH, Germany**

14.00 – 14.30 "Reaching 95% recycling and recovery at acceptable chain cost by industrialization of post-shredding processes"  
**Hans van de Greef, ARN, Netherlands**

14.30 – 15.00 "The Commission's ongoing ex post evaluation of waste stream directives – The case of ELV"  
**Julius Langendorff, European Commission, Belgium**

15.00 – 15.30 Coffee break in the exhibition area

**Session 7:** E-mobility

**Session Chairman:** Willy Tomboy, RECHARGE, Belgium

15.30 – 16.00 "Recycling efficiencies for E-mobility batteries"  
**Alain Vassart, EBRA, Belgium**

16.00 – 16.30 "Traceability of batteries from collection point to the recycling certificate into an European recycling company"  
**Eric Nottez, SNAM, France**

16.30 – 17.00 "Transport and recycling of HEV and EV batteries – Results of German safety study"  
**Tobias Schulze Wettendorf, Stiftung GRS Batterien, Germany**

from 17.00 "Bierfass" reception in the exhibition area

sponsored by  **mairec**  
Precious Metals Recycling



## TOOL BOX TALKS SCHEDULE

THESE PRESENTATIONS ARE HELD IN THE EXHIBITION AREA

### WEDNESDAY, MARCH 13, 2013

14.00 – 15.30

#### Technology solutions & equipment providers I



"Recycling for the automobile recycling – Real life examples"  
**Elfriede Hell, Starlinger & Co. Gesellschaft m.b.H., Austria**



"Sensor-based sorting of Zorba"  
**Tom Jansen, TOMRA Sorting GmbH, Germany**



"Next generation of sensor sorting technology – Application in ELV shredder plants"  
**Karl Hoffmann, Steinert Elektromagnetbau GmbH, Germany**



"Breakthrough technology for recycling automotive shredder residue (ASR) using Eutectic Conditions"  
**Prof. Farouk Tedjar, RECUPYL SAS, France**

### THURSDAY, MARCH 14, 2013

10.30 – 12.00

#### Technology solutions & equipment providers II



"Recovery of metals from automobile spent catalysts using DC plasma arc technology"  
**Dr Tim Johnson, Tetronics International, United Kingdom**



"20 years pioneering ELV de-pollution equipment"  
**Andreas Rieser, SEDA-Umwelttechnik GmbH, Austria**



"Clean stream process"  
**Carlton Hicks, Eriez Magnetics Europe Ltd., United Kingdom**



"Recycling of composite plastics from ELV's: Innovation and achievements in recycling of PVC & Polyamides"  
**Christian Thamm, SolVin SA, Belgium**  
**Richard Bourdon, Solvay SA, France**

**NEW!**  
**TOOL BOX**  
**TALKS**

# PLANT TOURS IARC 2013

FRIDAY, MARCH 15, 2013

## ARN, TIEL (NETHERLANDS)



### Visit of the post shredder technology plant

<b>08.45</b>	Departure by bus to ARN, Tiel, Netherlands
11.30	Arrival at ARN, Tiel, Netherlands
<b>11.30 – 14.00</b>	<b>Visit of the post shredder technology plant</b>
16.30*	Arrival at the Brussels International Airport (Zaventem), Belgium
17.45	Arrival at the hotel Dolce La Hulpe Brussels, Belgium

In 2015, 95% of End-of-Life vehicles must be recycled, in line with the EU directive 2000/53/EG. How can countries comply with this guideline? **ARN's** answer to the question includes the post shredder technology (PST) plant in Tiel, which should make an important contribution towards achieving 95%. ARN received financial contribution through Life+ for this solution, the intention is that ARN should be a role model for other countries.

The Life+ financing programme is intended to promote the development and execution of European nature and environmental policy. The application for financing this extensive project was successful since the PST plant can make a real contribution to achieve the end-of-life vehicle recycling guideline.

In April 2011, ARN opened a new PST facility in Tiel, aiming at 95% recycling. The facility processes shredder residue to a further stage. Since February 2012, the latest module of the production line was put into operation.

Shredder waste is transformed into useful material flows, using PST. By the end of 2012 the annual production of the facility was increased from an annual production of 30'000 tons to 60'000 tons. Additional employees were hired in order to facilitate a two-shift operation.

[www.arn.nl](http://www.arn.nl)

\* No guarantee on arrival due to traffic conditions.



## PLANT TOURS IARC 2013

FRIDAY, MARCH 15, 2013

### AUDI BRUSSELS



#### Visit of the car manufacturing plant

<b>09.00</b>	Departure by bus to Audi Brussels, Belgium
10.00	Arrival at Audi Brussels, Belgium
<b>10.00 – 12.30</b>	<b>Visit of the car manufacturing plant</b>
13.45*	Arrival at the Brussels International Airport (Zaventem), Belgium
15.00	Arrival at the hotel Dolce La Hulpe Brussels, Belgium

**Audi Brussels** – In June 2007, AUDI AG took over the former Volkswagen site in Brussels. Since then, nearly 410 Mio. € have been invested in new infrastructure, production systems, practical education and training. For the first time in its 60-year history, the plant has been entrusted with the exclusive production of a single model, the Audi A1. Audi Brussels is the most urban site of AUDI AG and it is not by hazard that the most urban model with its multiple customizing possibilities is produced in Brussels. In this plant we create mobility for cities all over the world. The next generation – With the Audi A1, AUDI AG enlarges its range of products; thereby a new target group gets attracted by the Audi experience. Audi Brussels is not only the newest member in the Audi family, it also invests in the next generation of employees. In November 2012 the pilot training project "Dual Track" starts in cooperation with two Belgian schools. The students get the possibility to attend classes in automation and laser techniques inside the factory. Moreover, they will get practical training in the halls of the bodyshop. Environmental protection at the Brussels site – At Audi, protection of the environment is an objective that ranks alongside quality and productivity, and therefore forms part of the corporate strategy. The same applies to technology and production processes. The Audi site in Brussels upholds the strictest of environmental protection standards. For example, the region of Brussels once again recognized the plant as an "Ecodynamic Company," a regional environmental certificate awarded every three years. Audi Brussels obtained the certificate with three stars, the highest rating possible. Since 2001, the Brussels site has furthermore been certified each year in accordance with the Eco-Management and Audit Scheme (EMAS) run by the European Commission.

[www.audibrussels.com](http://www.audibrussels.com)

\* No guarantee on arrival due to traffic conditions.



## PLANT TOURS IARC 2013

FRIDAY, MARCH 15, 2013

### GALLOO, MENEN



**Visit to the ELV depollution plant, shredder, ASR (automotive shredder residue) treatment and the Galloo Plastics recycling plant**

<b>08.15</b>	Departure by bus to GALLOO, Menen, Belgium
10.30	Arrival at GALLOO, Menen, Belgium
<b>10.30 – 15.00</b>	<b>Visit to the ELV depollution plant, shredder, ASR (automotive shredder residue) treatment and the Galloo Plastics recycling plant</b>
17.15*	Arrival at the Brussels International Airport (Zaventem), Belgium
18.30	Arrival at the hotel Dolce La Hulpe Brussels, Belgium

"No access for competitors"

**Galloo** was first established over 70 years ago. Since then, it has grown to become one of Europe's leading ferrous and non-ferrous metal recycling companies. Currently, the company has 19 divisions in Belgium, 32 in France and 2 in the Netherlands. Galloo has several plants that specialize in the collection, depollution and processing of end-of-life-vehicles, in compliance with the strictest European regulations.

Over the years, Galloo has developed an industrial process, which is used to recycle scrap from consumer goods, cars and factories in an environment-friendly way. This enables us to guarantee to car manufacturers that end-of-life-vehicles are processed while respecting the environment. By converting waste products into secondary raw materials, we contribute to a cleaner environment.

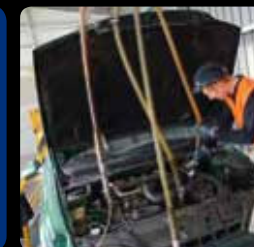
Every year, Galloo recycles 1'700'000 tonnes of ferrous metals, 80'000 tonnes of non-ferrous metals, 25'000 tonnes of plastics and 200'000 tonnes of shredder residue. By continuously investing in new technologies, the group strives to achieve its goal of 100% recycling.

[www.galloo.com](http://www.galloo.com)

\* No guarantee on arrival due to traffic conditions.



“ Galloo is one of Europe's leading recycling firms of ferrous and non-ferrous metals. The group recycles over 150,000 end-of-life-vehicles per year. In addition, Galloo recycles 1,700,000 tonnes of ferrous metals, 80,000 tonnes of non-ferrous metals, 25,000 tonnes of plastics and 200,000 tonnes of shredder residue every year. By continuously investing in new technologies, the group strives to achieve its goal of 100% recycling. ”



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giving earth its second nature

## PLANT TOURS IARC 2013

FRIDAY, MARCH 15, 2013

### UMICORE PRECIOUS METALS REFINING, HOBOKEN



#### Visit of Umicore Precious Metals Refining

<b>09.15</b>	Departure by bus to Umicore Precious Metals Refining, Hoboken, Belgium
10.30	Arrival at Umicore Precious Metals Refining, Hoboken, Belgium
<b>10.30 – 13.30</b>	<b>Visit of Umicore Precious Metals Refining</b>
15.15*	Arrival at the Brussels International Airport (Zaventem), Belgium
16.30	Arrival at the hotel Dolce La Hulpe Brussels, Belgium

**Umicore** is a global materials technology group. It focuses on application areas where its expertise in materials science, chemistry and metallurgy makes a real difference. Its activities are centred on four business areas: Catalysis, Energy Materials, Performance Materials and Recycling. Each business area is divided into market focused business units offering materials and solutions that are at the cutting edge of new technological developments and essential to everyday life.

Umicore's overriding goal of sustainable value creation is based on an ambition to develop, produce and recycle materials in a way that fulfils its mission: materials for a better life.

Umicore Precious Metals Refining offers eco-efficient recycling and refining services for precious metal bearing materials like (automotive) catalysts, electronic scrap and by-products from non-ferrous industries.

[www.autocatalyst-recycling.umicore.com](http://www.autocatalyst-recycling.umicore.com)

\* No guarantee on arrival due to traffic conditions.

# There are cats we wouldn't dream of touching



### All the others we recycle with excellence

Umicore Precious Metals Refining, as one of the world's largest companies in spent auto catalysts recycling, is proud to offer its clients the best overall value in recycling and refining of precious metals. With processing locations in both Europe and USA, we provide service that includes high-quality customized options.

(early metal pricing, financing, metal account management, ...)

Our high business standards and ethics provide the basis for a beneficial long-term relationship.

[www.autocatalyst-recycling.umicore.com](http://www.autocatalyst-recycling.umicore.com)

Contact: [preciousmetals@umicore.com](mailto:preciousmetals@umicore.com)

## NETWORKING DINNER



On Wednesday, March 13, 2013 a memorable networking dinner in the famous automobile museum AUTOWORLD Brussels will be organized.

Do not miss this perfect possibility to meet your friends and business partners in a nice atmosphere and register to this evening now! Space is limited!



Meet friends and business partners in a nice atmosphere!



## SPONSORS



**TOYOTA**



## EXHIBITION AND POSTER PRESENTATIONS

EXHIBITION  
AS PER NOVEMBER 30, 2012



A special exhibition area will be organized for companies wishing to display their products or advertising materials.

The fee for an exhibition stand (2 m x 3 m) throughout the whole conference is € 3'500.- and for a poster presentation € 350.-.

Space is limited, so take the chance and book your exhibition booth or your poster presentation today!



Ing. BONFIGLIOLI S.p.A.



TOYOTA



REGISTER BY  
JAN. 31, 2013  
TO RECEIVE  
DISCOUNT RATE

## WHO SHOULD ATTEND?

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

### ORGANIZER OF IARC 2013



**JEANETTE DUTTLINGER**  
Congress Organizer



**SABRINA BOLLIGER**  
Congress Assistant



**CLAUDIA GERSTENDÖRFER**  
Congress Assistant



**SUSANN SCHMID**  
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**MIRJAM WAGNER**  
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Registration for the congress should be made by means of the registration form or online. Participants registering and paying **before January 31, 2013** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

## REGISTRATION FEES

Congress Fee	before January 31, 2013	after January 31, 2013
Fee for participants	€ 1'490.-	€ 1'590.-
Fee for speakers	€ 890.-	€ 990.-
Fee for students	€ 590.-	€ 690.-
Networking dinner (March 13, 2013)	€ 100.-	€ 120.-
Networking dinner spouse (March 13, 2013)	€ 120.-	€ 140.-
<b>Plant tours (March 15, 2013):</b>		
– ARN (Netherlands)	€ 40.-	€ 60.-
– Audi Brussels	€ 40.-	€ 60.-
– GALLOO	€ 40.-	€ 60.-
– Umicore Precious Metals Refining	€ 40.-	€ 60.-

Congress registration on site € 100.- surcharge

Online registration

**NEW!**

You may also register online at: [www.icm.ch/iarc-2013](http://www.icm.ch/iarc-2013)

### Additional Proceedings

If it is not possible for you to attend the congress, you may purchase the complete proceedings at € 350.-. Participants will get the proceedings free of charge.

### Payment

Payment should be made in EUR by bank transfer or by credit card. Wire payment to:

Beneficiary: ICM AG  
Bank: Neue Aargauer Bank, 5400 Baden, Switzerland  
IBAN: CH41 0588 1044 7941 7200 0  
Swift code: AHHBCH22XXX



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.

[www.grs-batterien.de](http://www.grs-batterien.de)

GRS BATTERIEN  
**GEMEINSAMES  
RÜCKNAHME  
SYSTEM**

