

IARC 2013

13th 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



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
- CO₂ 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



JAN BOLLEN
ArcelorMittal Technology
Environment Product Manager
Belgium



OLIVIER FRANÇOIS
Group GALLOO Recycling
Market Development Officer
France



FERDINAND KLEPPMANN
CEWEP President
ITAD Chairman
Germany



MANFRED BECK
Vice-Chairman
Recycling International
Editor
Netherlands



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



WOLFGANG HANG
BMW Group
Department Manager
Recycling
Germany



PETER KUNZE
ACEA
Director Environmental Policy
Belgium



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



CORINE BUFFONI
Ecore Luxembourg SA
Assistant Director
Luxembourg



JOSEPH M. HOLSTEN
LKQ Corporation
CEO
USA



RICHARD PAUL
Environmental Management
Consultant
USA



DR RUGGERO ALOCCI
Alocci Rappresentanze
Industriali
President
Italy



ROGER BURRI
Air Mercury AG
President
Switzerland



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



WILLY TOMBOY
RECHARGE
Chairman of the
Industrial Battery
Working Group
Belgium



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



ARIE DE JONG
ARN Holding B.V.
CEO
Netherlands



FEDE KARRER
Foundation Auto Recycling
Switzerland
Delegate of the Board
Switzerland

LOCATION OF THE CONGRESS



The 13th 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



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

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

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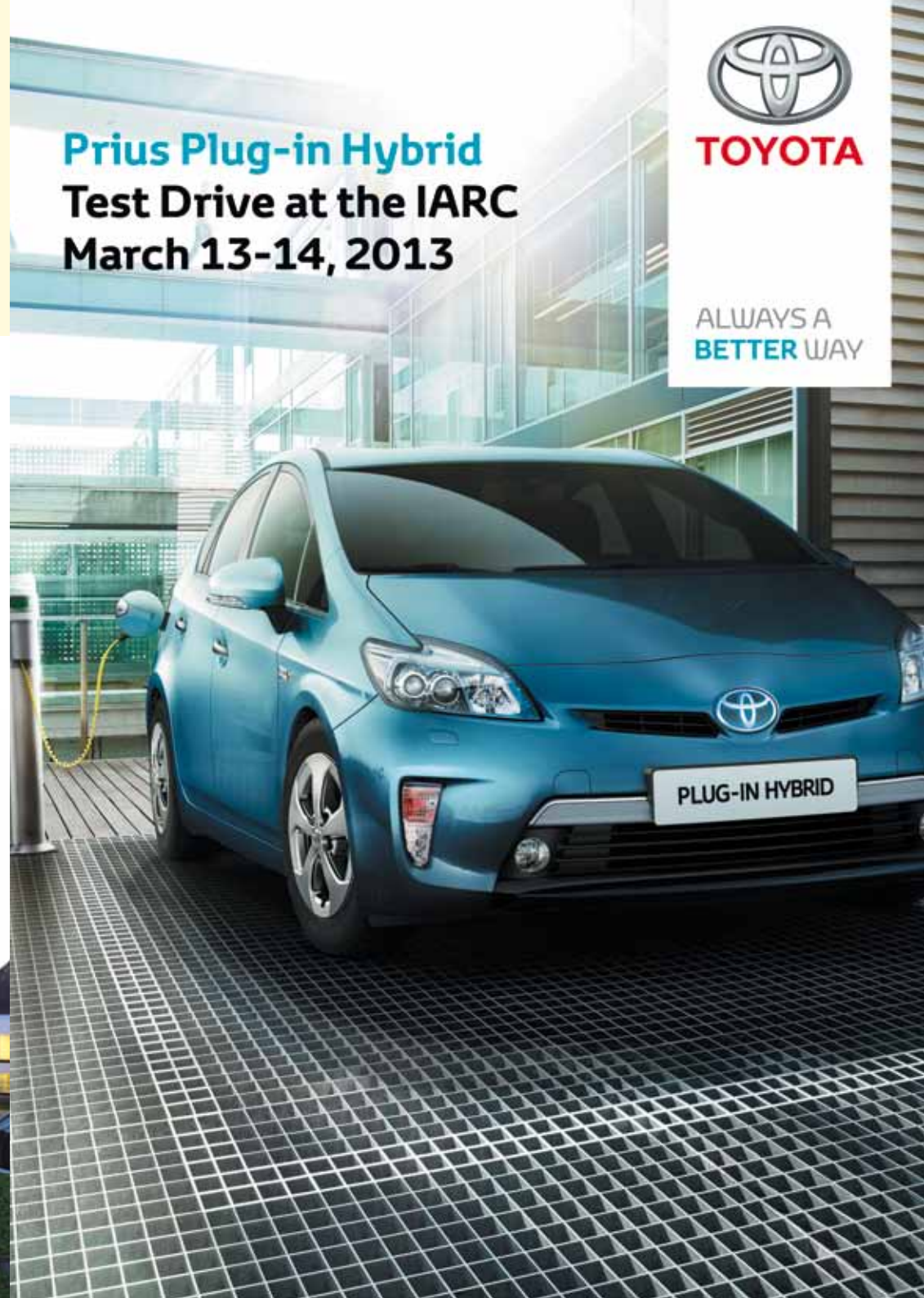


Prius Plug-in Hybrid Test Drive at the IARC March 13-14, 2013



TOYOTA

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, EGAR, 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, Intertek 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, Ökopol 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 
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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

- 08.45** Departure by bus to ARN, Tiel, Netherlands
- 11.30** Arrival at ARN, Tiel, Netherlands
- 11.30 – 14.00** **Visit of the post shredder technology plant**
- 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

* No guarantee on arrival due to traffic conditions.



PLANT TOURS IARC 2013

FRIDAY, MARCH 15, 2013

AUDI BRUSSELS



Visit of the car manufacturing plant

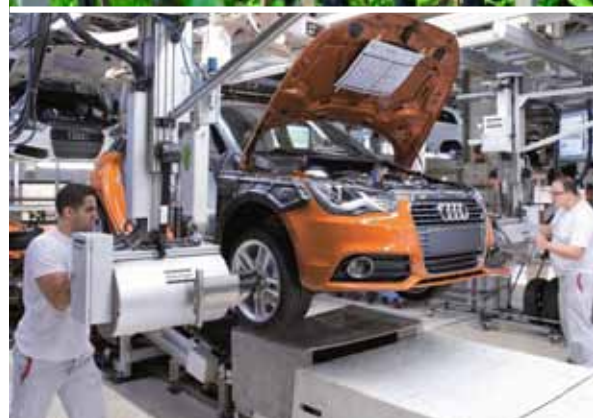
09.00	Departure by bus to Audi Brussels, Belgium
10.00	Arrival at Audi Brussels, Belgium
10.00 – 12.30	Visit of the car manufacturing plant
13.45*	Arrival at the Brussels International Airport (Zaventem), Belgium
15.00	Arrival at the hotel Dolce La Hulpe Brussels, Belgium

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

* 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

- 08.15** Departure by bus to GALLOO, Menen, Belgium
10.30 Arrival at GALLOO, Menen, Belgium
10.30 – 15.00 **Visit to the ELV depollution plant, shredder, ASR (automotive shredder residue) treatment and the Galloo Plastics recycling plant**
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"

Galoo 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.galoo.com

* No guarantee on arrival due to traffic conditions.



let's recycle cars

“ 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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www.galoo.com

giving earth its second nature

PLANT TOURS IARC 2013

FRIDAY, MARCH 15, 2013

UMICORE PRECIOUS METALS REFINING, HOBOKEN



Visit of Umicore Precious Metals Refining

- 09.15** Departure by bus to Umicore Precious Metals Refining, Hoboken, Belgium
10.30 Arrival at Umicore Precious Metals Refining, Hoboken, Belgium
- 10.30 – 13.30** **Visit of Umicore Precious Metals Refining**
- 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

* 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

Contact: 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



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.



REGISTER BY
JAN. 31, 2013
TO RECEIVE
DISCOUNT RATE

ICM AG
International
Congress & Marketing
Schwaderhof 7
5708 Birrwil, Switzerland

Phone +41 62 785 10 00
Fax +41 62 785 10 05

info@icm.ch
www.icm.ch

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
Congress Assistant



MIRJAM WAGNER
Congress Assistant



NADINE MÜLLER
Congress Assistant

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

	before January 31, 2013	after January 31, 2013
Congress Fee		
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.-
Plant tours (March 15, 2013):		
- 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

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