Patronage:
Association of European Automotive and Industrial Battery Manufacturers (EUROBAT)
Call 2 Recycle®
European Battery Recycling Association (EBRA)
The European Association for Advanced Rechargeable Battery Technologies (RECHARGE)
The Rechargeable Battery Association (PRBA)
The International Congress for Battery Recycling is worldwide recognized as the top conference in battery recycling technologies and marketing. These fortunate series, initially addressed to a European audience, are now events that cannot be missed by anyone interested in this important, constantly growing and demanding field. ICBRs provide a unique forum where scientists, engineers, producers and recyclers can meet to share their views and discuss their business.

This year’s edition will open with a session devoted to key aspects of battery recycling, science and technology. These topics include waste policy legislation, new demand in the battery market, new materials for advanced lithium batteries and believe for the first time, the challenges posed by the expected large diffusion in the road of hybrid and electric vehicles. After a general session where the impact of the legislation on the battery collection and recycling industry will be further discussed and evaluated in detail by a series of presentations of experts in the area, the program will be continued by two parallel sessions, both covering important aspects of battery recycling, one on resource efficiency and sustainability and the other on transport and safety.

In the morning session of the second day we will touch the market aspects by examining the status of battery collection, the characteristics and the achievements of recycling plants in Europe. The afternoon session will be focused on the presentation of the worldwide growing number of recycling plants and processes, as well as on the evaluation of future markets. The congress will be then closed by an exciting key note lecture where the challenges for transportation of dangerous goods will be discussed by an international company.

To put it simple – a very interesting and perhaps ambitious program. To make it a real and profitable experience for the participants, we have carefully selected the speakers among the top worldwide experts. Another qualifying aspect of the ICBRs is the choice of the location. Last year’s edition took place in Venice with much appreciation of the delegates. This year we move to Amsterdam, another sophisticated and very pleasant city. In addition, the well-known, traditional high class of the ICBR series will be guaranteed, if not even surpassed, in this edition by the high standard of the social activities that include a super networking dinner event, where the participants will enjoy excellent food and have a pleasant, relaxing site for establishing their business contacts. We are sure that you will not be disappointed by this conference and we expect that you will come to Amsterdam in order to break again the conference participation record!

Welcome to ICBR 2012, welcome to Amsterdam.
KEYNOTE SPEAKERS

JULIUS LANGENDORFF
European Commission
DG Environment
Unit Waste Management
Deputy Head of Unit
Belgium

“THE EU’S RESOURCE EFFICIENCY AGENDA AND ITS RELEVANCE TO EU WASTE POLICY AND LEGISLATION”

OLIVIER VALLÉE CFA
Natureo Finance
Senior Research Analyst
France

“BATTERY DEMAND IN THE MASS MARKETS OF GRID STORAGE AND HYBRID/ELECTRIC VEHICLES”

DOMINIC HOMBERGER
UMICORE Rechargeable Battery Materials
Sales & Product Manager
Belgium

“CATHODE MATERIALS FOR LI-ION CELLS TODAY AND TOMORROW - A MATERIALS ROADMAP FOR THE MAIN LI-ION MARKET SEGMENTS”

RUUD KOORNSTRA
Tendris
Founder
Netherlands

“E-MOBILITY IN THE NETHERLANDS – HORIZON 2020”

STEFAN SAUERBIER
DP DHL
Global Restricted Commodities Manager
Germany

“DANGEROUS GOODS AS PART OF THE SUPPLY CHAIN: THE VIEW OF AN INTERNATIONAL TRANSPORT COMPANY”
Although the seat of Nether-
lands government is in The
Hague, Amsterdam is the
nominal capital. Amsterdam
is the largest city of the
Netherlands. It has a popu-
lation of more than 750,000.
The city is the financial and
cultural capital of the Nether-
lands. Many large Dutch in-
stitutions have their head-
quartes there, and 7 of the
world's top 500 companies,
including Philips and ING,
are based in this city.

Amsterdam is a city of toler-
ance and diversity. It has all
the advantages of a big city:
culture, nightife, internation-
al restaurants, good trans-
port – but is quiet. Thanks
to its extensive canals it has
little road traffic.

Amsterdam's attractions, in-
cluding its historic canals,
the Rijksmuseum, the Van
Gogh Museum, Stedelijk
Museum, Hermitage Am-
sterdam, Anne Frank House,
Amsterdam Museum and its
redlight district, draw more
than 3.7 million international
visitors annually.

However, museums are the
main tourist attraction in
Amsterdam, there are over
fifty museums. A visit to the
Van Gogh Museum is a
unique experience. The mu-
seum contains the largest
collection of paintings by
Vincent Van Gogh in the
world.

www.amsterdam.info
For the participants of the congress a number of rooms are held at a special rate if you register before **July 31, 2012**. If you wish, you may also extend your stay at this lovely hotel at the same special rate.

**NH Grand Hotel Krasnapolsky *****
Dam, 9
1012 JS Amsterdam
Netherlands

Phone +31 20 554 91 11
Fax +31 20 622 86 07
www.nh-hotels.com

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Day trips
short drives
school runs
coffee runs
downtown run-arounds...
Who can know everything you'll get up to?
But with all the space
of the Jazz
plus the fuel economy
of a hybrid
you can take what you want
go where you will
but use less doing it.

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Model shown is the Jazz IMA Elegance grade. Fuel consumption figures in l/100km (mpg): Urban 4.5 (81.4) Extra Urban 4.4 (64.2) Combined 4.5 (62.8) CO₂: 104g/km. For more information on the Jazz please visit http://world.honda.com/Fit-Jazz/
CONGRESS PROGRAM ICBR 2012

TUESDAY, SEPTEMBER 11, 2012
17.00 – 19.00 Registration

WEDNESDAY, SEPTEMBER 12, 2012
08.00 – 09.30 Registration and welcome coffee in the exhibition area
09.30 – 09.45 “Welcome and Introduction”
   Prof. Bruno Scrosati, Chairman of the Steering Committee
09.45 – 12.00 KEYNOTE SPEAKERS
   “The EU’s Resource Efficiency Agenda and its relevance to EU waste policy and legislation”
   Julius Langendorff, European Commission, Belgium
   “Battery demand in the mass markets of grid storage and hybrid/electric vehicles”
   Olivier Vallée CFA, Natureo Finance, France
   “Cathode materials for Li-ion cells today and tomorrow – A materials roadmap for the main Li-ion market segments”
   Dominic Homberger, UMICORE Rechargeable Battery Materials, Belgium
   “E-mobility in the Netherlands – Horizon 2020”
   Ruud Koonstra, Tendris, Netherlands
12.00 – 13.30 Lunch
13.30 – 14.00 “Insights and challenges when calculating the recycling efficiency achieved with spent batteries”
   Dr Alain Vassart, EBRA, Belgium
14.00 – 14.30 “A new WEEE Directive, will it work in practice?”
   Norbert Zonneveld, EERA, Netherlands
14.30 – 15.00 “Future challenges for the battery recycling industry in a sustainable society”
   Dr Jean-Pol Wiaux, Recharge, Belgium
15.00 – 15.30 Coffee break in the exhibition area
14.00 – 14.30 Resource efficiency/Sustainability
   Session Chairman: Jill Ledger, SAFt, France
   15.30 – 16.00 “Market opportunities for recovery of critical raw materials from Li-Ion and NiMH batteries”
   Margaret Doherty, Environment Agency, United Kingdom
   16.00 – 16.30 “Energy storage in renewable energy systems”
   Michael Lippert, SAFt, France
   17.00 – 17.30 “Sustainability in the European portable power industry”
   Hans Craen, EPBA, Belgium
   Parallel Session 3: Transport & Safety
   Session Chairman: Johan Van Peperzeel, Van Peperzeel B.V., Netherlands
   15.30 – 16.00 “Conditions which could result in explosion and ignition during the collection and recycling of primary lithium cells and batteries”
   Dr Tim Snee and Ceri Petrie, Health and Safety Executive, United Kingdom
   16.00 – 16.30 “Lithium batteries transport regulation in 2013”
   Dr Marco Ottaviani, ANIE-CSI, Italy
   19.30 Cocktail reception on the boat sponsored by
20.15 Networking dinner
### Session 4: Batteries collection

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Name</th>
<th>Chairperson</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00 – 09.30</td>
<td>Portable battery recycling – The UK journey</td>
<td>Georgios Chryssos, Stiftung GRS Batterien, Germany</td>
<td>David Reynolds, BatteryBack Plc, United Kingdom</td>
</tr>
<tr>
<td>09.30 – 10.00</td>
<td>Battery collection in Austria</td>
<td></td>
<td>Alois Grinschgl, Saubermacher AG, Austria</td>
</tr>
<tr>
<td>10.00 – 10.30</td>
<td>Collection and disposal of waste batteries in Turkey during the period of 2009 – 2011</td>
<td>Savas Arna, Turkish Portable Battery Association (TAP), Turkey</td>
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</tbody>
</table>

### Session 5: Recycling plants & processes (Europe)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Name</th>
<th>Chairperson</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>11.00 – 11.30</td>
<td>Six years of development towards the BAT – The story of the Nordic battery recycler</td>
<td>Alain Vassart, EBRA, Belgium</td>
<td>Jarmo Pudas, AkkuSer Ltd., Finland</td>
</tr>
<tr>
<td>11.30 – 12.00</td>
<td>The BATREC process and its recycling efficiency</td>
<td></td>
<td>Dr Dieter Offenthaler, Batrec Industrie AG, Switzerland</td>
</tr>
<tr>
<td>12.00 – 12.30</td>
<td>A new way in the recycling of alkali-manganese batteries</td>
<td>Dr Klaus Nowak, UNI-CYC GmbH, Germany</td>
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### Session 6: Recycling plants & processes (international)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Name</th>
<th>Chairperson</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00 – 14.30</td>
<td>The South American battery recycling industry focused in Brazil</td>
<td>Andreas Krebs, Batrec Industrie AG, Switzerland</td>
<td>Almir dos Santos Trindade, Antares Recycling Ltd., Brazil</td>
</tr>
<tr>
<td>14.30 – 15.00</td>
<td>North American trends on battery applications, processing capacity and consumer behaviour</td>
<td></td>
<td>Carl E. Smith, Call2Recycle®, USA</td>
</tr>
<tr>
<td>15.00 – 15.30</td>
<td>Battery recycling and flow analysis of them in Japan</td>
<td>Dr Misuzu Asari, Kyoto University, Japan</td>
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### Session 7: Future markets and challenges

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<tr>
<th>Time</th>
<th>Session Name</th>
<th>Chairperson</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.00 – 16.30</td>
<td>The removal of traction batteries from crashed and end of life electric vehicle</td>
<td>Dr Jean-Pol Wiaux, RECHARGE, Belgium</td>
<td>Thomas Kindt, Renault, France</td>
</tr>
<tr>
<td>16.30 – 17.00</td>
<td>New markets where batteries could be used and also new recycling opportunities for technologies under development</td>
<td></td>
<td>Dr Virginia Gómez, PV CYCLE aisbl, Belgium</td>
</tr>
<tr>
<td>17.00 – 17.30</td>
<td>Recycling of batteries for low and ultra low carbon vehicles</td>
<td>Dr Valentina Gentili, Axeon Technologies Ltd., United Kingdom</td>
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</table>

## Keynote Speaker

**Dangerous goods as part of the supply chain: The view of an international transport company**

**Stefan Sauerbier, DP DHL, Germany**
DELA GMBH, DORSTEN, GERMANY

08.00    Departure by bus to DELA GmbH, Dorsten
11.00    Arrival at DELA GmbH, Dorsten
11.00 – 13.30 Visit of the recovery site for secondary goods
17.00*   Arrival at the airport Schiphol Amsterdam
17.30    Arrival at the NH Grand Hotel Krasnapolsky

DELA GmbH Recycling-Solutions Portrait

We are a waste management and recycling company as well as a supplier of high-quality raw materials. Founded in 1989, we specialize in economic and environmentally sound recycling solutions for our national and international customers in the field of petrochemistry, oil and gas exploration, chlorine producers as well as lamp recycling and battery recycling.

Our services include the efficient treatment and recovery of non ferrous (NF) metals and Fe-metals, mercury, black mass from battery recycling, lamp recycling and plastic sorting. The various technologies in use can be adapted to the customer’s needs as required.

Our range of services

- Recycling of filter materials such as spent catalysts and activated carbons
- Treatment of NF-metals and mercury containing wastes
- Stabilisation of metallic mercury by formation of mercury sulphide
- Production of high purity mercury
- Sorting of batteries and treatment of primary batteries
- Recycling of fluorescent tubes and lamps
- Sorting of plastics according to type and colours
- Treatment of luminescent paint
- Recovery of valuable secondary raw materials such as metal concentrates, high purity mercury and soda-lime glass

The DELA GmbH is operating leading technologies and innovative plants for the recovery of secondary raw materials at 4 sites in Germany.

www.dela-recycling.de

* No guarantee on arrival time due to traffic conditions.
Van Peperzeel was founded in 1978 starting as a small scrap dealer. Over the years the company has grown into an important player on the Dutch market. Not only because of their specialty of non-ferrous metals and non-ferrous residues, i.e. industrial waste such as skimming’s and turnings. Today the company is leading in the collection of lead acid batteries in the Netherlands. They work for nationally operating wholesalers in the automotive industry. The annual collecting amounts to many thousands of tons of old car batteries. The batteries are prepared for recycling and delivered to acknowledged processors in Europe.

Finally, Van Peperzeel is well known around the world for its expertise on all aspects of waste consumer batteries. Their modern premises in Lelystad houses the national sorting centre of waste consumer batteries in the Netherlands.

More and more products run on consumer batteries nowadays. Daily, hundreds of different brands and types of consumer batteries are thrown away, turned in or disposed by producers. Luckily, all consumer batteries can be recycled.

Van Peperzeel works closely together with Stibat (the Battery foundation). Stibat has been founded to help producers and importers to carry out their obligation to collect and process used consumer batteries. Van Peperzeel takes care of Stibat’s collecting, sorting and processing of all consumer batteries throughout the Netherlands.

Annually, more than 3'000 tons of consumer batteries are sorted with the help of specially designed machines. This means over 500’000 batteries each day are sorted. The experience in sorting these batteries over the years resulted in an unique knowledge about used batteries and its recycling possibilities. Van Peperzeel offers these knowledge through consultancy contracts, helping different European companies and/or countries setting up collecting schemes.

www.peperzeel.nl

* No guarantee on arrival time due to traffic conditions.
Meet friends and business partners in a nice atmosphere!

For the participants of the congress we have organized again an unforgettable networking dinner on Wednesday, September 12, 2012.

The cocktail will be served on a boat and we will take you on a romantic cruise through the beautiful channels of Amsterdam. You will then enjoy a nice networking dinner with excellent food and a fantastic show with your friends and business partners in the famous “Wintergarden” of the NH Grand Hotel Krasnapolsky.

Do not miss this perfect possibility to meet your business partners and friends and register to this networking dinner now.

Training Course

Directed by: Kristel Vermeersch, KVS & Partners bvba., Dangerous Goods Consulting, Belgium

When: Friday, September 14, 2012

Time: 09.00 h – 15.00 h

Location: NH Grand Hotel Krasnapolsky, Amsterdam, Netherlands

Price: 190 EUR per person (incl. documents & certificate)

Lunch and coffee breaks included

* Minimum number of participants: 15

Sponsor: RECHARGE

Who should attend the training course?

- Battery recycling companies
- Representatives of authorities
- Battery manufacturers
- Lawyers and consultants of the battery and recycling industry
- Transportation companies in the battery recycling industry
- Anyone shipping Lithium batteries

Course Description

The course will give you an overview of International Transport Regulations (UN/Road/Air/Sea) and the decision process. The classification and identification of Lithium batteries will be reviewed including the UN test criteria for Lithium batteries. The participants will learn how to use and interpret the information and special provisions provided in the lists of dangerous goods in the different transport regulations.

The course will also cover the packing requirements for Lithium batteries including the differences amongst the different transport modes.

A description of transport documents required for shipments of Lithium batteries will be supplied.

All attendants will get a certificate for attending the training course!

To attend this training course, please register at info@icm.ch before August 30, 2012. Thank you.
A special exhibition will be organized for companies wishing to display their products or advertising materials.

The fee for an exhibition booth (2m x 3m) is € 3'000.– and for a poster presentation € 290.– for the full time of the conference.

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

As per July 31, 2012:

<table>
<thead>
<tr>
<th>Company</th>
<th>Country</th>
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</thead>
<tbody>
<tr>
<td>Ecotest</td>
<td>Netherlands</td>
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<td>Euro Dieuze Industrie / Veolia Propreté</td>
<td>France</td>
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<td>Greenoffice</td>
<td>France</td>
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<td>Honda Nederland B.V.</td>
<td>Netherlands</td>
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<td>LAB23</td>
<td>Italy</td>
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<td>Optisort</td>
<td>Sweden</td>
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<tr>
<td>STIBAT</td>
<td>Netherlands</td>
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<td>Umicore Battery Recycling</td>
<td>Belgium</td>
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<td>UTHA shredding technology</td>
<td>Austria</td>
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<td>VALDI – ERAMET</td>
<td>France</td>
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<tr>
<td>Vecoplan AG</td>
<td>Germany</td>
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<tr>
<td>Xstrata Nickel International S.A.</td>
<td>Belgium</td>
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Registration for the congress should be made by means of the registration form. Participants registering and paying before July 31, 2012 will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, proceedings and luncheons.

### Registration Fees

<table>
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<tr>
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<th>before July 31, 2012</th>
<th>after July 31, 2012</th>
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<tbody>
<tr>
<td>Congress Fee</td>
<td>€ 1’390.–</td>
<td>€ 1’490.–</td>
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<tr>
<td>Fee for participants</td>
<td>€ 790.–</td>
<td>€ 890.–</td>
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<tr>
<td>Fee for speakers</td>
<td>€ 590.–</td>
<td>€ 690.–</td>
</tr>
<tr>
<td>Networking dinner (Sept. 12, 2012)</td>
<td>€ 100.–</td>
<td>€ 110.–</td>
</tr>
<tr>
<td>Networking dinner for spouse (Sept. 12, 2012)</td>
<td>€ 110.–</td>
<td>€ 120.–</td>
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<tr>
<td>Plant tours (Sept. 14, 2012):</td>
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<tr>
<td>– Dela GmbH, Germany</td>
<td>€ 40.–</td>
<td>€ 50.–</td>
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<tr>
<td>– Van Peperzeel B.V., Netherlands</td>
<td>€ 40.–</td>
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<tr>
<td>Training course (Sept. 14, 2012):</td>
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<tr>
<td>– Transport of dangerous goods (Li-batteries)</td>
<td>€ 190.–</td>
<td>€ 200.–</td>
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</table>

Registration on site € 100.– surcharge

### 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:

<table>
<thead>
<tr>
<th>Beneficiary:</th>
<th>ICM AG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank:</td>
<td>Neue Aargauer Bank, 5400 Baden, Switzerland</td>
</tr>
<tr>
<td>IBAN:</td>
<td>CH41 0588 1044 7941 7200 0</td>
</tr>
<tr>
<td>Swift code:</td>
<td>AHHBCH22XXX</td>
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**WHO SHOULD ATTEND?**

- Battery producers
- Recycling companies
- Waste management companies
- Battery collection schemes
- Battery collection and transportation companies
- Non ferrous metal traders
- Non ferrous metal industry
- Associations in the field of battery waste management
- Financing organization for battery recycling
- Environmental authorities
- Laboratories for material science
- Universities and research institutes
- Consultants

**ORGANIZER OF ICBR 2012**

- **JEANETTE DUTTLINGER**  
  Congress Organizer

- **MIRJAM WAGNER**  
  Congress Assistant

- **SUSANN SCHMID**  
  Congress Assistant

- **CLAUDIA GERSTENDÖRFER**  
  Congress Assistant

- **SABRINA BOLLIGER**  
  Congress Assistant

- **SANDRA MANNHART**  
  Congress Assistant
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.

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

www.grs-batterien.de