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8th International Automobile Recycling Congress:



8th International Automobile Recycling Congress  
March 12 – 14, 2008  
Munich, Germany



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## Foreword of IARC 2008

### **Welcome to Munich!**

The Steering Committee has decided to hold the 8<sup>th</sup> International Automobile Recycling Congress in Munich. Of course the congress hotel is gorgeous, Bavarians are nice people, the town offers many attractions, the beer is famous and the historical and cultural background of the city is great, but there are also other reasons to be in Munich.

Germany hosts the largest European automotive, steel and scrap production companies. So we are in the right place. It is also the right time, because the ELV Directive is going to be revised now. The revision is of great importance for all stakeholders. The results may have impact to the car manufacturers worldwide and to the recycling industry in Europe. Additionally there are still a lot of disparities between the laws or administrative measures adopted by the Member states. Everybody does agree that a level playing field is required to ensure the legislation creates no market distortion. But it does NOT happen! Does the recycling industry continue to compete with low tech, environmentally bad processors and third world labor costs from Eastern and Southern countries within and outside EU?

***“We do not need more laws and regulations! We need law enforcement in order to protect the environment and the industry.”***

I look forward to discuss these issues with you in beautiful Munich.

### **Roger Burri**

Chairman of the Steering Committee  
International Automobile Recycling Congress



## Keynote Speakers



### **Horst Meierhofer**

Member of the German Parliament  
Fraction of the Free Democratic Party  
Spokesperson for Environmental Law  
Water Protection and Waste Disposal Industry  
Germany

***“Germany’s answer to the ELV Directive...”***



### **Rolf Willeke**

Association of German Steel  
Recycling Companies (BDSV)  
Executive Board Member  
Germany

***“Living or dying with new borders!”***



### **Manfred Beck**

Recycling International  
Magazine  
Editor  
Netherlands

***“Disappearing of cars from Europe”***



## Munich – an ideal and professional congress place

The 8<sup>th</sup> International Automobile Recycling Congress (IARC 2008) will be held at:

**The Westin Grand Munich**  
**Arbellapark\*\*\*\***  
**(formerly ArabellaSheraton Grand Hotel)**  
 Arabellastrasse 6  
 81925 Munich, Germany  
 Phone: + 49 89 926 40  
 Fax: + 49 89 926 486 99  
[www.sheraton.com/grandmuenchen](http://www.sheraton.com/grandmuenchen)



The Westin Grand Munich is located in the prestigious Munich district of Bogenhausen, the Bavarian capital city's publishing quarter. The city centre and central station are 10 minutes away by underground train.

## International Steering Committee



**Roger Burri, Chairman**  
 Air Mercury AG  
 President  
 Switzerland



**Julien Van Damme**  
**Vice-Chairman**  
 Honda Motor Europe Ltd.  
 Recycling Manager  
 Belgium



**Prof. Ir. Wijnand L. Dalmijn**  
**Chairman of the Scientific Committee**  
 Delft University of Technology  
 Netherlands



**Genkichi Ando**  
 Seinan Corporation  
 Director  
 Japan



**Dave Bebelaar**  
 Auto Recycling Nederland (ARN)  
 Managing Director  
 Netherlands



**Manfred Beck**  
 Recycling International Magazine  
 Editor  
 Netherlands



**Francesco Bonino**  
 FIAT Research Center  
 System for the Environment  
 Expert  
 Italy



**Olivier François**  
 GALLOO SA  
 Environmental Manager  
 Belgium  
 VAL-RB, Director  
 France



**Wolfgang Hang**  
 BMW Group  
 Department Manager  
 Recycling  
 Germany



**Joseph M. Holsten**  
 LKQ Corporation  
 CEO  
 USA



**Fede Karrer**  
 Foundation Auto Recycling  
 Switzerland  
 Delegate of the Board  
 Switzerland



**Ferdinand Kleppmann**  
 CEWEP President  
 ITAD Chairman  
 Germany



**Richard Paul**  
 Automotive Recycling  
 Consultant  
 USA



**Norbert Prüm**  
 ArcelorMittal  
 Corporate Environment  
 Luxembourg



**Willy Tomboy**  
 Toyota Motor Europe  
 Director / Environment  
 Officer  
 Environmental Affairs Group  
 Belgium



**Rolf Willeke**  
 Association of German Steel  
 Recycling Companies  
 Executive Board Member  
 Germany

# Congress Program IARC 2008

Wednesday, 12<sup>th</sup> March 2008

<b>Session 1:</b>	<b><u>Keynote Speakers from industry and government</u></b>
10.00 – 10.10	"Welcome and Introduction" <b>Roger Burri, Chairman of the Steering Committee</b>
10.10 – 10.30	"Welcome Address" <b>Horst Meierhofer, Member of the German Parliament, Fraction of the Free Democratic Party, Spokesperson for Environmental Law, Water Protection and Waste Disposal Industry, Germany</b>
10.30 – 11.00	"Living or dying with new borders" <b>Rolf Willeke, Association of German Steel Recycling Companies (BDSV), Germany</b>
11.00 – 11.30	"Disappearing of cars from Europe" <b>Manfred Beck, Recycling International, Netherlands</b>
<b>11.30 – 13.00</b>	<b>Lunch</b>
<b>Session 2:</b>	<b><u>How do countries close the recycling loop?</u></b>
<b>Session Chairman:</b>	<b>Julien Van Damme, Honda Motor Europe Ltd., Belgium</b>
13.00 – 13.30	"Poland as a reflection of car recycling system problems in United Europe" <b>Jerzy Izdebski, Forum Car Recycling Association in Poland, Poland</b>
13.30 – 14.00	"Opportunities and challenges for automobiles recycling in India" <b>Captain N S Mohanram &amp; Alok Jaitley, Society of Indian Automobile Manufacturers (SIAM), India</b>
14.00 – 14.30	"The ELV-recycling-rates and the trend for increased reuse and refurbishment in China" <b>Dr Ming Chen, Shanghai Jiao Tong University, China</b>
14.30 – 15.00	"ELV recycling system in Japan" <b>Masuo Kuremura, Ministry of Economy, Trade and Industry, Japan</b>
<b>15.00 – 15.30</b>	<b>Coffee break</b>
<b>Session 3:</b>	<b><u>New technologies and recycling equipment I</u></b>
<b>Session Chairman:</b>	<b>Olivier François, GALLOO SA, Belgium</b>
15.30 – 16.00	"SmooSteel™: A steel polymer / composite 100% recyclable" <b>Benoît Husson-Tissier, ArcelorMittal, France</b>
16.00 – 16.30	"ELV pyrotechnics treatment" <b>Max de Kok, Auto Recycling Nederland (ARN), Netherlands</b>
16.30 – 17.00	"Best available techniques (BAT) for scrap handling, treatment and dismantling" <b>Caroline Polders, Flemish Institute for Technological Research (VITO), Belgium</b>
<b>19.30</b>	<b>Networking dinner</b>

Thursday, 13<sup>th</sup> March 2008

<b>Session 4:</b>	<b><u>New technologies and recycling equipment II</u></b>
<b>Session Chairman:</b>	<b>Genkichi Ando, Seinan Corporation, Japan</b>
09.00 – 09.30	"A novel polymer recycling system by effective recovery of chloride free polymers from automobile shredder residue" <b>Dr Mallampati Srinivasa Reddy, Hiroshima University, Japan</b>
09.30 – 10.00	"PGM extraction processes for automobile catalytic converters" <b>Dr Raj K. Mishra, A-1 Specialized Services and Supplies, Inc., USA</b>
10.00 – 10.30	"Energy recovery from ASR: An industrial solution" <b>Roberto Tamma, MAIND Srl, Italy</b>
<b>10.30 – 11.00</b>	<b>Coffee break</b>
<b>Session 5:</b>	<b><u>How do car manufacturers close the recycling loop?</u></b>
<b>Session Chairman:</b>	<b>Richard Paul, Automotive Recycling Consultant, USA</b>
11.00 – 11.30	"Results of the BMW-Scholz-Galloo recycling trial" <b>Dr Frank Lehnert, BMW Group, Germany</b>
11.30 – 12.00	"ELV situation in Italy" <b>Salvatore Di Carlo, Fiat Group Automobiles S.p.A., Italy</b>
12.00 – 12.30	"Hybrid vehicles and hybrid battery recycling" <b>Dr Candace Wheeler, General Motors, USA</b>
<b>12.30 – 14.00</b>	<b>Lunch</b>
<b>Session 6:</b>	<b><u>Logistics and transboundary movements</u></b>
<b>Session Chairman:</b>	<b>Wolfgang Hang, BMW Group, Germany</b>
14.00 – 14.30	"International take back systems for workshop disposal and warranty part management – The operator's view" <b>Achim Winter, CCR Logistics Systems AG, Germany</b>
14.30 – 15.00	"Supervision and control of shipments of waste within Europe, in particular end-of-life vehicles" <b>Monika Czarnicka, Chief Inspectorate for Environmental Protection, Poland</b>
<b>15.00 – 15.30</b>	<b>Coffee break</b>
<b>15.30 – 17.00</b>	<b><u>ROUND TABLE DISCUSSION:</u></b> <b>Recycling or recovery? Bitten by the dog or the cat?</b> <b>Moderator: Prof. Wijnand Dalmijn, Delft University of Technology, Netherlands</b> <b>Participants:</b> <b>European Commission (invited)</b> <b>Auto Recycling Nederland (ARN), Netherlands</b> <b>CFF Recycling / Derichebourg, France (invited)</b> <b>Confederation of European Waste-to-Energy Plants e.V. (CEWEP)</b> <b>Gemini Corporation, Belgium</b> <b>Toyota Motor Europe, Belgium</b>
<b>17.00</b>	<b>Cocktail reception in the exhibition hall</b>

Friday, 14<sup>th</sup> March 2008

## Plant tours

Leaving in front of the Westin Grand Munich (formerly ArabellaSheraton Grand Hotel)

**Plant tour 1: Car manufacturing plant of BMW  
BMW World  
Recycling and Dismantling Centre (RDC) of BMW**

08.00	Departure by bus from the Westin Grand Munich
08.30	Arrival at BMW
08.30 – 11.00	Visit of the car manufacturing plant of BMW
11.00 – 11.30	Visit of BMW World
11.30	Travel by bus to the recycling and dismantling centre (RDC) of BMW
12.00	Arrival at the RDC of BMW
12.00 – 14.00	Visit of the RDC of BMW
15.00*	Arrival at the airport Munich
15.30	Arrival at the Westin Grand Munich

**Plant tour 2: BMW World  
Car manufacturing plant of BMW**

09.00	Departure by bus from the Westin Grand Munich
09.30	Arrival at BMW World
10.00 – 12.30	Visit of the car manufacturing plant of BMW
13.30*	Arrival at the airport Munich
14.00	Arrival at the Westin Grand Munich

With its brands BMW, MINI and Rolls-Royce, the BMW Group concentrates exclusively on the premium segments of the international automobile and motorcycle markets. Founded in 1916 as "Bayerische Flugzeugwerke AG" and later changed to "Bayerische Motoren Werke AG", the company is now one of the world's leading premium manufacturer in the automotive industry. Under the BMW brand the company currently offers eight model series. It has a presence with its own sales subsidiaries in 41 countries around the world. With 23 production sites, the BMW Group is active in 12 countries. 100,000 employees all over the world enable customers to experience the benefits of the company's premium claim.

In order not only to ensure continual improvement of the vehicle recycling process in terms of economy and environmental compatibility, but also to achieve the highest degree of new vehicle recyclability, the BMW Group established one of the world's leading facilities in this field: the Recycling and Dismantling Centre (RDC). The RDC is both a certified waste treatment facility and a laboratory for basic research, development work and specialised basic and advanced training. The integration of a recycling centre like RDC in the new vehicle development process sets a standard for the automotive industry worldwide. New material combinations or components for new BMW Group models are evaluated here for recyclability before series development even begins.

**More information at: [www.bmwgroup.com](http://www.bmwgroup.com) and [www.bmw.com](http://www.bmw.com)**

**Plant tour 3:  
Car dismantling plant of Schindelar**



09.00	Departure by bus from the Westin Grand Munich
09.30	Arrival at Schindelar
09.30 – 11.30	Visit of the car dismantling plant
12.30*	Arrival at the airport Munich
13.00	Arrival at the Westin Grand Munich

The Schindelar corporation is one of the top leading car-recycling organisations companies in Germany.

As our long lasting business philosophy, we stress on a high economical disposal of car waste.

Toxic substances are being disposed currently. Still valuable materials and usable spare parts will be reused.

Including 3 locations in Munich, Schindelar as well operates with new car parts and all sorts of offers, all to do with the topic car.

**More information at: [www.schindelar.de](http://www.schindelar.de)**

**Plant tour 4:  
Waste utilization plant of Augsburg**



08.00	Departure by bus from the Westin Grand Munich
09.30	Arrival at the waste utilization plant of Augsburg
09.30 – 11.30	Visit of the waste utilization plant
13.30*	Arrival at the airport Munich
14.00	Arrival at the Westin Grand Munich

The AVA GmbH (Waste Utilization Plant, Augsburg, Ltd.) is a young company that operates one of Europe's most modern waste utilization facilities. The plant also treats shredder residues from car shredder plants. The thermal power plant for the thermal treatment (= incineration) of non-recyclable waste has an annual capacity of approx. 200'000 tons, with a thermal value of approx. 10'000 KJ/kg. Approximately 120'000 tons of materials can be treated annually in the composting and sorting units. Approximately 240 employees work at this site. In 2005, 200'365 tons of mixed waste were delivered to the plant and thermally treated, 1'909 tons of hospital wastes were incinerated, 50'405 tons brought to the composting facility 27'633 tons light packaging materials and 44'313 tons paper, cardboard and carton delivered to the sorting unit.

**More information at: [www.ava-augsburg.de](http://www.ava-augsburg.de)**

\*No guarantee on arrival time due to traffic condition

## Hotel Accommodation

For the participants of the congress a number of rooms are held **until February 8, 2008 at a special rate** in the Hotel Westin Grand Munich (formerly ArabellaSheraton Grand Hotel) and Sheraton Munich (formerly ArabellaSheraton Bogenhausen Hotel). Reservation after this date will be subject to space and rate availability. If you wish, you may also extend your stay at the same rate.



### The Westin Grand Munich Arbellapark\*\*\*\* (ArabellaSheraton Grand Hotel Munich)

Arabellastrasse 6  
81925 Munich  
Phone: +49 89 926 40  
Fax: +49 89 926 486 99

[www.sheraton.com/grandmuenchen](http://www.sheraton.com/grandmuenchen)

Congress place



### Sheraton Munich, Arabellapark\*\*\*\* (ArabellaSheraton Bogenhausen Hotel)

Arabellastrasse 5  
81925 Munich  
Phone: +49 89 923 20  
Fax: +49 89 923 244 49

[www.sheraton.com/bogenhausen](http://www.sheraton.com/bogenhausen)

Next to the congress place

## Registration Fees

Registration for the congress should be made by means of the registration form. Participants registering and paying **before January 31, 2008** will benefit from a reduced registration fee. The registration fee includes congress, entrance to the exhibition, networking dinner, meals and proceedings.

Congress Fee	before January 31, 2008	after January 31, 2008
Fee for participants	€ 1'390.-	€ 1'490.-
Fee for speakers	€ 850.-	€ 890.-
Fee for students	€ 550.-	€ 590.-
Plant tours on March 14:		
No. 1: BMW & RDC	€ 30.-	€ 50.-
No. 2: BMW	€ 30.-	€ 50.-
No. 3: Dismantling company Schindelar	€ 30.-	€ 50.-
No. 4: Waste utilization plant of Augsburg	€ 30.-	€ 50.-
Networking dinner for accompanying persons (March 12)	€ 110.-	€ 120.-
Registration on site	€ 100.- surcharge	

### Additional Proceedings

If it is not possible for you to attend the congress, you can purchase the complete proceedings at EUR 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:

Bank: Neue Aargauer Bank, 5400 Baden, Switzerland  
Beneficiary: ICM AG  
Account number: 447941-72  
IBAN: CH41 0588 1044 7941 7200 0  
Clearing number: 5881  
Swift code: AHHBCH22XXX

## “Meet your clients” Networking Dinner

On Wednesday, March 12, a special networking dinner will be organized. For participants, the networking dinner is included in the registration fee.

Don't miss this perfect possibility to meet your business partners and enjoy a lovely evening.



## Exhibition

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

The fee for a standard exhibition stand 6 m<sup>2</sup> (2 m x 3 m) is EUR 2'500.- and for 12 m<sup>2</sup> (3 m x 4 m) is EUR 4'000.- for the full time of the congress.

Space is limited, so please take your chance now and book your exhibition stand within today!



## Who should attend?

- Automobile manufacturers
- Automotive parts and materials suppliers
- Automobile importers and dealers
  
- Recycling and dismantling companies
- Shredding companies
- Steel industry
- Collectors of ELV
  
- Financing organizations for ELV recycling
  
- Environmental authorities
- Universities and research institutes
- Laboratories for material science
- Consultants

## Organizer of the IARC

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International Congress & Marketing  
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Jeanette Duttlinger  
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Sandra Ammann  
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Susann Schmid  
Congress Assistant



Yvonne Steiner  
Congress Assistant

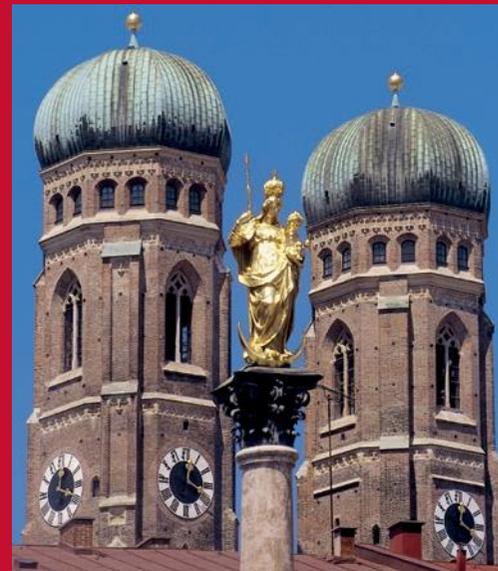


Petra Fiorentin  
Congress Assistant



Claudia Gerstendörfer  
Congress Assistant

# Beautiful Munich



Munich, which means "Home of the Monks," was originally established as a Benedictine Monastery.

Today, it's the flourishing capital of Bavaria, known worldwide for its dining, culture, and entertainment. But Munich may be best known for its annual Oktoberfest celebration, a 16-day festival attracting some six million people. Visitors should check out Residenz, a 14<sup>th</sup> century royal palace; Frauenkirche, a 15<sup>th</sup> century church sporting onion-domed towers; Alte Pinakothek, one of the world's finest art galleries; and Schloss Nymphenburg, a Bavarian palace that houses Munich's Botanical Gardens. Be sure to visit some of Munich's many beer halls, especially Hofbräuhaus, which is arguably the most famous pub in the world.



[www.muenchen.de](http://www.muenchen.de)

## The BMW Munich Plant



**The BMW Munich Plant is the original BMW Group Plant, combining the highest level of engineering and human innovation with genuine passion for the brand.**



Forming Part of the BMW Group's global production network, BMW Munich Plant builds more than 900 cars and more than 1,400 engines per day. BMW Munich Plant employs some 9,000 associates from more than 50 countries the world over, among them approximately 700 apprentices.

Last but certainly not least, BMW Munich Plant incorporates all technologies in automobile production: Press Shop, Body Shop, Paintshop, Engine Production and Assembly, as well as a Tool Shop, Interior Fittings Manufacture and a Laboratory. BMW Munich Plant serves as a "window to the world of BMW production", individualised guided tours offering a unique and authentic insight into automobile production.

## Recycling and Dismantling Centre Research lab and recycling facility



**Ecological responsibility: The BMW Group Recycling and Dismantling Centre.**

In its mission statement, the BMW Group is committed to reduce the environmental effects of its vehicles across the entire lifecycle. As early as

the development of the Recycling and Dismantling Centre which was opened in Unterschleißheim in 1994. Next to the implementation of the dismantling process and the development of BMW recycling technologies, test and concept vehicles are also being recycled to derive their maximum added value.



1990, BMW was the first automobile manufacturer to open up its own pilot dismantling facility and it was developed on an ongoing basis. This finally led to

**"Design for Recycling": After all saving resources starts with the process of vehicle development.** Thinking ahead and process improvements – this is also part of the responsibilities of the staff at the Recycling and Dismantling Centre. Design for Recycling is even a significant part of the product development process and results in environmentally compatible product design. Continuously improving the resource-saving design of BMW Group vehicles throughout their entire lifecycle will also continue to be the Centre Recycling and Dismantling Centre's task in the future.



**With us the environment is  
in good hands**



**AVA Abfallverwertung Augsburg GmbH**  
Am Mittleren Moos 60  
86167 Augsburg / Germany

**Service Phone Number:**  
0049 821 / 74 09-3 33  
[www.ava-augsburg.de](http://www.ava-augsburg.de)  
[info@ava-augsburg.de](mailto:info@ava-augsburg.de)

**Bavarians most modern recycling installation  
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with 1,000,000 new and used parts.**



Here we deconstruct and examine expertly every usably car for recyclable carparts. Every year we are recycling until 10,000 end-of-life vehicles.

*bumpers  
headlamps  
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rear lights  
wind screens  
exterior mirrors  
rear view mirrors  
suspension struds  
car interior linings  
exhaust systems  
clutches  
drive shafts  
pneus, rims  
steering wheels  
all other parts*

**Car-recycling  
at Schindelar –  
for environment's  
sake!**



**pick up and  
acceptance of  
end-of-life vehicles**

At Schindelar you find every thing you need. From care products to service parts until tuning parts. Schindelar have one of the biggest store of brakeparts in best quality. And also a great assortment for batteries and about 3000 exhaust mufflers.



**Schindelar®**  
**...3 locations in Munich**

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Baumbachstr. 5

**Neuaubing**  
Bodenseestr. 275

**Am Moosfeld**  
Valentin-Linhof-Str.14

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