

12th International Automobile Recycling Congress

(IARC 2012)

**Budapest, Hungary
21-23 March 2012**

ISBN: 978-1-62748-622-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by ICM AG-International Congress & Marketing
All rights reserved.

Printed by Curran Associates, Inc. (2013)

For permission requests, please contact ICM AG-International Congress & Marketing
at the address below.

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

Phone: 41 62 785 1000
Fax: 41 62 785 1005

info@icm.ch

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

SESSION 1: KEYNOTE SPEAKERS

| | |
|--|---|
| Recycling: A Way Out of the Global Economic Crisis? | 1 |
| <i>Andor Nagy</i> | |
| Resource Efficiency and Sustainable Consumption and Production is Key | 2 |
| <i>Michel B. Monteil</i> | |

SESSION 2: THE CASE OF THE DISAPPEARING CARS I

| | |
|--|----|
| U.S Automotive Salvage Sales and Export | 9 |
| <i>Joe Holsten, Richard Paul</i> | |
| The Role of the Registration Authorities in the Process of Deregistration and Recycling of End-of-Life Vehicles | 20 |
| <i>Johan Hakkenberg</i> | |

SESSION 3: THE CASE OF THE DISAPPEARING CARS II

| | |
|--|----|
| End of Life Vehicles (ELV) in Mexico: A Management Plan | 28 |
| <i>César Rafael Chávez</i> | |

SESSION 5: COUNTRY REPORTS

| | |
|--|----|
| KEYNOTE SPEAKER: How Can a Modern ATF bring Value and Solutions to the Recycling Chain? | 34 |
| <i>Paul Fox</i> | |
| ELV Management in Turkey | 43 |
| <i>Mine Koç</i> | |
| Current State of the Art of Shredding | 59 |
| <i>Scott Newell</i> | |

SESSION 6: POST SHREDDER TREATMENT – THE IMPACT

| | |
|--|-----|
| Treatment of Low Value Shredder Residues | 113 |
| <i>Luc Waignein</i> | |
| Use of Inductive-, Color- and Shape-Sensor Sorting Technology in Shredder Residues | 130 |
| <i>Hendrik Beel</i> | |
| Auditing the Shredder – The Belgian Calculation Model for Recycling Percentages for ELV by Shredder | 140 |
| <i>Catherine Lenaerts</i> | |

SESSION 7: BATTERY-MOBILITY: A RECYCLING CHALLENGE?

| | |
|---|-----|
| Nationwide Take-Back System for Industrial Batteries | 149 |
| <i>Bernhard Hennings</i> | |
| Hybrid Vehicle Dismantling: Recycling the Future | 158 |
| <i>Ed Macdonald</i> | |

ADDITIONAL PAPER

| | |
|--|-----|
| Recycle Shredder Residues in Waste-to-Energy Plants in Europe and Germany | 171 |
| <i>Ferdinand Kleppmann</i> | |
| Author Index | |