

# WRF 2010

## 5th World Recycling Forum WRF 2010 International Conference & Exhibition on Electronics, Battery & Car Recycling

November 15 – 18, 2010, Hong Kong



### Supported by:

Call2Recycle®, USA  
China Automotive Technology & Research Center (CATARC)  
China Industrial Association of Power Sources (CIAPS)  
Electronic Recyclers' Association (eRA), India  
Institute of Scrap Recycling Industries, Inc. (ISRI), USA  
Japan Automobile Manufacturers Association (JAMA)  
Korea Automobile Manufacturers Association (KAMA)  
Korea Institute of Geoscience & Mineral Resource (KIGAM)  
The Rechargeable Battery Association (PRBA), USA  
WEEE Forum, Belgium

**GEVI 格林美**  
资源有限 循环无限  
Limited resources Unlimited recycling





## FOREWORD

### **PROFESSOR DUAN WENG** Hong Kong – a place where “East meets West”

Chairman of  
the Steering Committee  
5<sup>th</sup> World Recycling Forum  
Hong Kong

We welcome you in one of the most booming cities in Asia. It is known as one of the Four Asian Tigers for its high growth rates and rapid development. Hong Kong has many attractions. It is a charming city; it is famous for the very efficient capital services and very well known for its industrial and trading power. More than 7 million people live in Hong Kong with a population density of about 6500 people per square kilometer. Despite of the small territory Hong Kong is a very green city with parks, beaches and forests.

The industry of Hong Kong has a great history in the field of manufacturing of all kind of products, recycling and trading of raw materials. The very interesting history of the city created also

a totally different law system. In contrast to mainland China's civil law system, Hong Kong continues to follow the English Common Law tradition established during British rule. Its legal system is independent from the legal system of China. Hong Kong's courts are permitted to refer to decisions rendered by courts of other common law jurisdictions. The history, the law system and also the English language makes business easier in Hong Kong than in any other Asian cities.

The 5<sup>th</sup> World Recycling Forum (WRF 2010) will be another successful event. Speakers from all over the world tell about the news and challenges of the industry regarding recycling and the circular economy. With the support of many

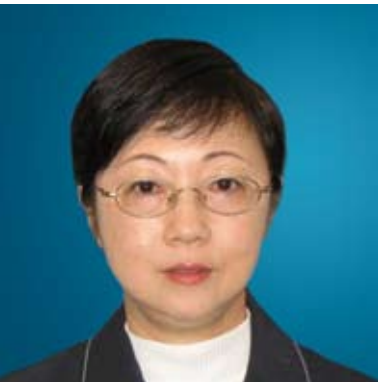
associations, of a diversified Steering Committee, powerful sponsors and interesting exhibitors at a wonderful place, a great and professional forum will be guaranteed. Meet your clients, friends and partners in a nice atmosphere. An excellent networking dinner, cocktail parties and the heartbeat of the city will help you to share your experience among other leaders from the recycling sector. Learn from the others and get the latest information from the markets.

As usual, the organizer of World Recycling Forum is offering many plant tours in the vicinity of Hong Kong. Take the chance and visit outstanding manufacturing and recycling companies. It is a gorgeous program.

I wish all participants an interesting and pleasant stay and look forward to meeting you in beautiful Hong Kong!



## KEYNOTE SPEAKERS



**DR ELLEN CHAN**

Environmental Protection Department  
Hong Kong SAR Government  
Assistant Director of Environmental Protection  
China

“HONG KONG’S WASTE MANAGEMENT  
STRATEGY”

**PROFESSOR C. C. CHAN**

World Electric Vehicle Association  
President

University of Hong Kong  
Honorary Professor  
China

“GLOBAL OUTLOOK OF ELECTRIC VEHICLES  
AND SMART GRID”



**DOUGLAS SMITH**

Sony Electronics Inc.  
Director  
Corporate Environment  
Safety and Health  
USA

„THE REAL RESULTS OF EXTENDED  
PRODUCER RESPONSIBILITY PROGRAMS  
IN THE USA”





## INTERNATIONAL STEERING COMMITTEE

### CHAIRMAN



**PROF. DUAN WENG**  
Tsinghua University, Institute  
for Energy & Environment  
Materials, Director  
China



**PROF. HUANZHENG DU**  
Institute of Recycling Economic  
Technology of the Yangtze Delta  
Area Zhejiang Province, Director  
China



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



**JILL LEDGER**  
SAFT  
Corporate Communication and  
Investor Relations Director  
France

### CO-CHAIRMAN



**ROGER BURRI**  
Air Mercury AG  
President  
Switzerland



**JEAN-PHILIPPE FUSIER**  
MTB Recycling  
General Manager  
France



**SONG JIANG**  
China Nonferrous Metal Industry  
Resource Regenerating Co., Ltd.  
General Manager  
China



**DR JAE-CHUN LEE**  
Korea Institute of Geoscience  
and Mineral Resources  
(KIGAM), Principal Researcher  
Korea

### MEMBERS



**GENKICHI ANDO**  
Seinan Corporation  
President  
Japan



**ALFRED HAMBSCH**  
GEEP – Global Electric  
Electronic Processing Inc.  
President & Chairman  
Canada



**GERARD R. KILLEN**  
Oxigen Group  
Managing Director  
Ireland



**PROF. THEO LEHNER**  
Boliden Mineral AB  
Manager Business Development  
Sweden



**VINCENT BARTIN**  
Bel A Venture s.p.r.l.  
Manager  
Belgium



**ERIC HARRIS**  
ISRI, Inc.  
Director of Government  
and International Affairs  
USA



**ANDREAS KREBS**  
Batrec Industrie AG  
Managing Director  
Switzerland



**PROF. JINHUI LI**  
Tsinghua University  
China



**TODD COY**  
Kinsbursky Brothers, Inc.  
Executive Vice President  
USA



**PAUL HEALEY**  
Xstrata Copper  
Senior Director  
Recycling  
Canada



**FONS KRIST**  
GEEP Asia  
Vice President  
Singapore



**FUKUAN LU**  
Shanghai Society of Environment  
Sciences (SSES)  
Vice Chairman  
China

## INTERNATIONAL STEERING COMMITTEE



**PROF. HSIAO-KANG MA**  
National Taiwan University  
Department of Mechanical  
Engineering  
Taiwan



**STEPHAN SCHWARZ**  
environplasma  
Managing Director  
Germany



**MARK TOMASZEWSKI**  
Inmetco Inc.  
President  
USA



**JOE ZHOU**  
Global Metals Co., Ltd.  
President  
China



**SCOTT NEWELL**  
The Shredder Company, LLC  
Chairman and CEO  
USA



**PROF. BRUNO SCROSATI**  
Chairman of ICBR  
University La Sapienza (Rome)  
Department of Chemistry  
Italy



**DR JAN TYTGAT**  
Umicore Recycling Solutions  
General Manager  
Belgium

### MEDIA PARTNERS



**MANFRED BECK**  
Recycling International Magazine  
Publisher & Editor  
Netherlands



**KAZUMI NOZAWA**  
IBM Corporation, Manager,  
IBM Corporate Environmental  
Affairs Japan (Responsible for  
Japan, ASEAN), Japan



**CHRIS SLIJKHUIS**  
MBA Polymers, Inc.  
Director Sourcing Europe  
USA/Austria



**DR JEAN-POL WIAUX**  
RECHARGE  
Manager  
Belgium



**STEPHAN PETER KRAFZIK**  
Recycling Magazin  
Senior Editor  
Germany



**RICHARD PAUL**  
LKQ Corporation  
Manager Environmental  
and Sustainability Programs  
USA



**CARL E. SMITH**  
Call2Recycle®, operated by RBRC  
CEO/President  
USA



**DR KAIHUA XU**  
Shenzhen GEM High-Tech Co.,  
Ltd.  
President  
China



**XIN ZHAI**  
Resource Recycling  
Chief Editor  
China



**KUMAR RADHAKRISHNAN**  
Sims Recycling Solutions  
Senior Vice President – Recycling  
Solutions – Asia Pacific  
Australia



**DOUGLAS SMITH**  
Sony Electronics Inc.  
Director, Corporate Environment,  
Safety and Health  
USA



**JOSEPH YOB**  
Creative Recycling Systems, Inc.  
Business Development Manager  
USA



**NAIJIN ZHENG**  
China Automotive, Technology &  
Research Center, Automotive Data  
Center, Deputy Chief Engineer /  
Senior Engineer, China



**MIKE THIRD**  
Auto Recycling Australia Magazine  
Publisher  
Australia



## LOCATION OF THE FORUM

## HONG KONG – THE PEARL OF ORIENT



The 5<sup>th</sup> World Recycling Forum will be held from **November 15 – 18, 2010** in the beautiful hotel Harbour Grand Kowloon in exciting Hong Kong.

**Hotel Harbour Grand Kowloon \*\*\*\*\***  
20 Tak Fung Street, Whampoa Garden  
Hungghom, Kowloon, Hong Kong

Phone +852 2621 3188  
Fax +852 2621 3311  
[www.harbourgrand.com/kowloon](http://www.harbourgrand.com/kowloon)



Hong Kong is a city that works. It has a solid infrastructure and efficient transportation network. Thousands of lovely restaurants and tastes. A beautiful concentration and diversity of cultures. Vegetation, country parks, and exotic outlying islands. And one of the world's great skylines and waterways – the Victoria Harbour.

Hong Kong is the regional hub for business in Asia. With 7 million residents in just

1,000 square kilometres (400 square miles), this vibrant city possesses an amazing network of the cleanest and most convenient modes of transport and of course a world-class airport. A bustling metropolis? Yes, but Hong Kong is also 70% vegetation, where hikers, climbers and travel groups traverse the land for recreation and relaxation. And its outlying islands prove lovely tropical getaways for residents and visitors.

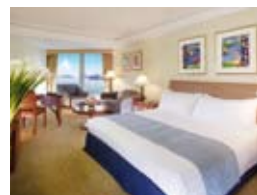


[www.discoverhongkong.com](http://www.discoverhongkong.com)

## FORUM STRUCTURE

## HOTEL ACCOMMODATION

For the participants of the forum a number of rooms are held at a special rate if you register **before October 15, 2010**. If you wish, you may also extend your stay at this lovely hotel at the same special rate.



**Hotel Harbour Grand Kowloon \*\*\*\*\***  
20 Tak Fung Street, Whampoa Garden  
Hung Hom, Kowloon  
Hong Kong

Phone +852 2621 3188  
Fax +852 2621 3311  
[www.harbourgrand.com/kowloon](http://www.harbourgrand.com/kowloon)



(Forum place)



MONDAY, NOVEMBER 15, 2010 / PLANT TOURS			
11.00 – 19.00	Registration		
13.00 – 17.00	<b>Plant tour 1</b> Electronics recycling plant <b>Li Tong Group</b> , Hong Kong	13.00 – 17.00	<b>Plant tour 2</b> Chemical waste treatment centre <b>Ecospace</b> , Hong Kong
17.00 – 19.00	Welcome Reception		
19.00	Steering Committee Meeting (I)		

TUESDAY, NOVEMBER 16, 2010 / CONFERENCE & EXHIBITION			
08.00 – 09.00	Registration, welcome coffee and tea		
09.00 – 12.30	<b>Keynote Speakers &amp; Panel Discussion:</b> "Recycling: What are the business drivers in Asia?"		
12.30 – 14.00	Lunch		
14.00 – 17.00	Overview of global recycling business		
19.00	Networking Dinner		

WEDNESDAY, NOVEMBER 17, 2010 / CONFERENCE & EXHIBITION			
08.00 – 09.00	Coffee and tea		
09.00 – 11.30	<b>Electronics &amp; Battery Recycling (I)</b> "How do OEMs close the recycling loop?"	09.00 – 11.30	<b>Electronics &amp; Battery Recycling (III)</b> "Update on battery recycling"
		09.00 – 11.30	<b>Car Recycling (I)</b> "Update of worldwide markets & legislations"
11.30 – 13.00	Lunch		
13.00 – 16.00	<b>Electronics &amp; Battery Recycling (II)</b> "New plants, processes & equipments"	13.00 – 16.00	<b>Electronics &amp; Battery Recycling (IV)</b> "New plants, processes & equipments"
		13.00 – 16.00	<b>Car Recycling (II)</b> "New plants, processes & equipments"
16.00	Cocktail Reception		
17.00	Steering Committee Meeting (II)		

THURSDAY, NOVEMBER 18, 2010 / PLANT TOURS			
07.00 – 19.00	<b>Plant tour 3*</b> Plastics recycling plant <b>GISE-MBA</b> , Guangzhou	07.00 – 19.00	<b>Plant tour 4*</b> Electronics manufacturing plant <b>Wistron South China</b> , Zhongshan
		07.00 – 19.00	<b>Plant tour 5*</b> Metal recycling plant <b>Global Metals</b> , Foshan
07.00 – 21.00	<b>Plant tour 6*</b> Electronics recycling plant & Car manufacturing plant <b>Shenzhen GEM &amp; BYD</b> , Shenzhen		

\* China visa is required to attend these plant tours!

## PLANT TOUR 1

MONDAY, NOVEMBER 15, 2010



LI TONG GROUP, HONG KONG

### Visit of an electronics recycling plant

13.00	Departure by bus from the hotel Harbour Grand Kowloon to Li Tong
14.00	Arrival at Li Tong
14.00 – 15.30	Visit of the electronics recycling plant
17.00*	Arrival at the hotel Harbour Grand Kowloon

Since its establishment in 2000, **Li Tong Group** strives to provide professional solutions for Product Life-Cycle Management (PLM) that enables products that entering into the phrase of "End of Life" are handled in an appropriately controlled way and products can be reborn and asset recovered.

Services:

#### 1. Reverse Supply Chain Management:

We provide "Reverse Logistics and Supply Chain Management" platform which complies with the WEEE directive and other related legislations. Additional service including Asset Management and Recovery Service.

#### 2. E-Waste Management & Electronics Recycling:

We provide Government, Corporations: B2B, B2C and OEM/EMS manufacturers with one stop solution for take-back, dismantling and destruction of their EOL, obsolete products for materials recycling and downstream management.

#### 3. "Data-wipe" and "Degaussing" services for all types of storage media.

More information at: [www.litong.com](http://www.litong.com)

\* No guarantee on arrival time due to traffic conditions.

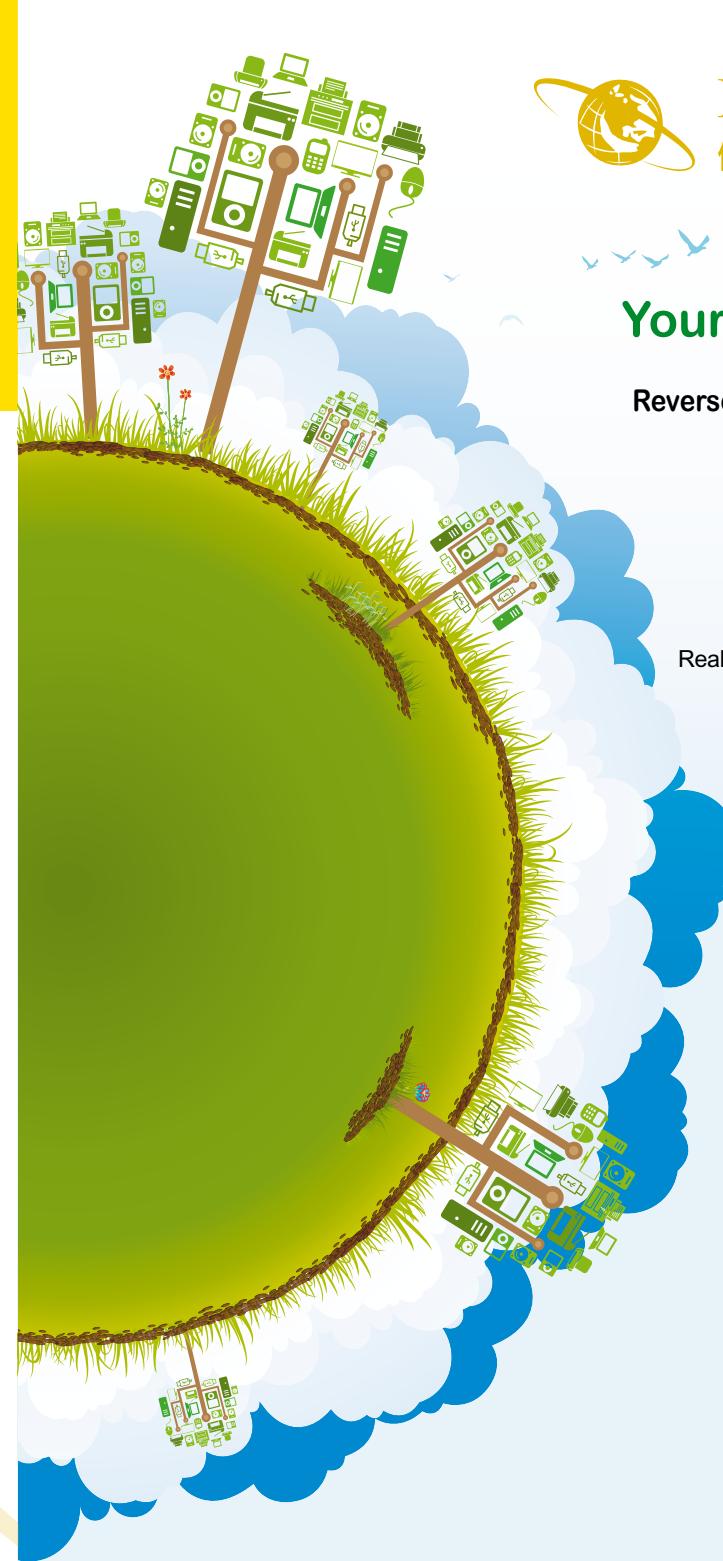


**Your Global Partner**  
Electronics Recycling and  
Reverse Supply Chain Management

Over 10 years Global Experience  
Global Locations & Collection Hubs  
ISO 9001 & ISO 14001 Certified  
Real-time On-line Web Based Reporting

Blk N, 4/F, International Industrial Ctr.,  
2-8 Kwei Tei Street, Fotan,  
Shatin, N.T., Hong Kong  
Telephone: (852) 2690 9976  
Fax: (852) 2690 9120

Website: <http://www.litong.com>  
Email: [info@litong.com.hk](mailto:info@litong.com.hk)





## PLANT TOUR 2

MONDAY, NOVEMBER 15, 2010

**ECOSPACE LIMITED, HONG KONG**

**ECOSPACE LIMITED**

衛力化學廢料處理有限公司

### Visit of a waste management plant

13.00	Departure by bus from the hotel Harbour Grand Kowloon to Ecospace
14.00	Arrival at Ecospace
14.00 – 15.30	Visit of the waste management plant
17.00*	Arrival at the hotel Harbour Grand Kowloon

**Ecospace Limited** is the contractor appointed by the Hong Kong SAR Government Environmental Protection Department to operate the Chemical Waste Treatment Centre (CWTC) for 10 years starting from 2009, upgrade the Facility to meet emission standards of the European Union, and construct a reception and storage building for the management of clinical waste.

Located at Tsing Yi Island, the Facility occupies an area of about 2 hectares. It is the only facility of its kind in Hong Kong that provides collection as well as various treatment services for land-based chemical waste generated by local industries and the marine pollutants (MARPOL waste Annex I and II) generated from ocean-going and local vessels. The designed treatment capacity is 100,000 metric tonnes per year. Major treatment processes include incineration, physical/chemical treatment, oil-water separation, chemical stabilization and mercury recovery.

# ECOSP

# 衛力化學

\* No guarantee on arrival time due to traffic conditions.



Ecospace offers a cradle-to-grave solution to help the industries comply with applicable chemical waste regulations with minimal disruption to their operations.

- We collect and treat land-based and sea-based chemical waste according to the strictest standards of the world.
- We turn waste into resources, recover and reuse materials at every possible step.
- We manage our environmental performance through a comprehensive monitoring program.

### Ecospace Limited

51 Tsing Yi Road South  
Tsing Yi, New Territories, Hong Kong  
Phone: (852) 2435 7700 Fax: (852) 2497 4290

# CONFERENCE PROGRAM WRF 2010

TUESDAY, NOVEMBER 16, 2010

**08.00 – 09.00** Registration, welcome coffee and tea

09.00 – 09.15 “Welcome & Introduction” by  
**Prof. Duan Weng, Chairman of the Steering Committee**  
**Roger Burri, Co-Chairman of the Steering Committee**

## Keynote Speakers and Panel Discussion

09.15 – 10.45 **Keynote Speakers:**  
“Hong Kong’s waste management strategy”  
**Dr Ellen Chan, Environmental Protection Department of Hong Kong SAR Government, China**  
“The real results of Extended Producer Responsibility programs in the USA”  
**Douglas Smith, Sony Electronics Inc., USA**  
“Global outlook of electric vehicles and smart grid”  
**Prof. C.C. Chan, World Electric Vehicle Association**

**10.45 – 11.15** Coffee break

11.15 – 12.30 **Panel Discussion: “Recycling: What are the business drivers in Asia?”**

**Moderator: Roger Burri, Air Mercury AG, Switzerland**

**Participants:**  
**Fons Krist, GEEP Asia, Singapore**  
**Prof. Jinhui Li, Tsinghua University, China**  
**Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan**  
**Adam Minter, Shanghai Scrap.com, China**  
**Kumar Radhakrishnan, Sims Recycling Solutions, Australia**  
**Dr Lakshmi Raghupathy, Electronics Recyclers’ Association (eRA), India**

**12.30 – 14.00** Lunch

## Overview of global recycling business

**Session Chairman: Prof. Jinhui Li, Tsinghua University, China**

14.00 – 14.30 “Update & challenges of Chinese recycling business”  
**Prof. Duan Weng, Tsinghua University, China**

14.30 – 15.00 “Challenges in global trade of ferrous and non-ferrous scrap”  
**Francis Veys, BIR Bureau of International Recycling, Belgium**

15.00 – 15.30 “Major challenges in transboundary movement of scrap”  
**Eric Harris, Institute of Scrap Recycling Industries, Inc., USA**

**15.30 – 16.00** Coffee break

16.00 – 16.30 “WEEELABEX – Producer responsibility, standards and certification in the WEEE management process”  
**Dr Andreas Röthlisberger, WEEE Forum, Belgium**

16.30 – 17.00 “How to stop illegal imports of E-scrap into Asia”  
**James Wood, Recyclecology.com, Inc., USA**

**19.00** Networking dinner

# CONFERENCE PROGRAM WRF 2010

WEDNESDAY, NOVEMBER 17, 2010

08.00 – 09.00 Coffee and tea


## Room 1: Electronics & Battery Recycling I

**Session I:** How do OEMs close the recycling loop?  
**Session Chairman:** Douglas Smith, Sony Electronics Inc., USA

- 09.00 – 09.30 "Overview & results of take back systems in Japan"  
**Kazumi Nozawa, IBM Corporation, Japan** (invited)
- 09.30 – 10.00 "Developing effective takeback programs"  
**Anne Cheong, Dell Global Business Centre, Malaysia**
- 10.00 – 10.30 Coffee break**
- 10.30 – 11.00 "Managing WEEE in Asia – Can European experiences be applied in different regions"  
**Nils de Caluwe, Philips Consumer Lifestyle, Netherlands**
- 11.00 – 11.30 "Do manufacturers need to care about raw materials?"  
**Klaus Hieronymi, Hewlett-Packard GmbH, Germany**
- 11.30 – 13.00 Lunch**

## Room 1: Electronics & Battery Recycling II

**Session II:** New plants, processes & equipments  
**Session Chairman:** Kumar Radhakrishnan, Sims Recycling Solutions, Australia

- 13.00 – 13.30 "The evolution within lamp recycling & mercury recovery technology"  
**Christer Sundberg, MRT System International AB, Sweden**
- 13.30 – 14.00 "Sustainability risk factors in the Asian recycling industry – Drivers and opportunities"  
**James Pearson, Li Tong Group, China**
- 14.00 – 14.30 "Cradle to cradle technology and global footprint"  
**Alfred Hambsch, GEEP – Global Electric Electronic Processing Inc., Canada**
- 14.30 – 15.00 Coffee break**
- 15.00 – 15.30 "Turning WEEE into raw materials"  
**Phär Oscár, Stena Technoworld AB, Sweden**
- 15.30 – 16.00 "Major challenges of refrigerator recycling"  
**Peter Hessler, UNTHA Recyclingtechnik GmbH, Germany**
- 16.00 Cocktail reception sponsored by **



# CONFERENCE PROGRAM WRF 2010

WEDNESDAY, NOVEMBER 17, 2010

08.00 – 09.00 Coffee and tea

## Room 2: Electronics & Battery Recycling III

**Session III:** Update on battery recycling  
**Session Chairman:** Jill Ledger, SAFT, France

09.00 – 09.30 "Recovery of valuable metals from spent hybrid electric vehicle battery module by hydrometallurgical process"  
**Dr Jeong-Soo Sohn, Korea Institute of Geoscience and Mineral Resources, Korea**

09.30 – 10.00 "Keeping pace with North American transportation challenges"  
**Carl E. Smith, Call2Recycle®, USA**

10.00 – 10.30 Coffee break

10.30 – 11.00 "New vision-based automatic sorting system for low and mid volume battery sorting"  
**Hans Eric Melin, Optisort AB, Sweden**

11.00 – 11.30 "Managing hybrid electric batteries at end of life"  
**Todd Coy, Kinsbursky Brothers, Inc. / Toxco, USA**

11.30 – 13.00 Lunch

## Room 2: Electronics & Battery Recycling IV

**Session IV:** New plants, processes & equipments  
**Session Chairman:** Dr Jae-chun Lee, Korea Institute of Geoscience and Mineral Resources, Korea

13.00 – 13.30 "Recycling system and technologies of E-scrap in Japan"  
**Takashi Nakamura, Tohoku University, Japan**

13.30 – 14.00 "environplasma – first results of our two-stage gasification and subsequent plasma conditioning"  
**Stephan Schwarz, environplasma, Germany**

14.00 – 14.30 "Recovery of gold from electronic waste and reuse in electroplating"  
**Peethambaram Parthasarathy, E-Parisaraa Pvt Ltd., India**

14.30 – 15.00 Coffee break

15.00 – 15.30 "A 'Zero Waste' policy for establishing a sound WEEE Material-cycle Society in Taiwan"  
**Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan**

15.30 – 16.00 "Recycling of liquid crystal displays: Manual or automated processes?"  
**Timothy McDonnell & Dr Karl Williams, University of Central Lancashire, United Kingdom**

16.00 Cocktail reception sponsored by 

# CONFERENCE PROGRAM WRF 2010

WEDNESDAY, NOVEMBER 17, 2010

08.00 – 09.00 Coffee and tea

## Room 3: Car Recycling I

**Session I:** Update of worldwide markets & legislations  
**Session Chairman:** Prof. Duan Weng, Tsinghua University, China

09.00 – 09.30 "Newest technical developments in Chinese automotive recycling industry"  
**Naijin Zheng, China Automotive Technology & Research Center, China**

09.30 – 10.00 "10 years ELV-Directive in Europe"  
**Anja Tomazic, General Motors / Adam Opel AG, Germany**

10.00 – 10.30 Coffee break

10.30 – 11.00 "The potential impact of RoHS II on the recycling business and especially on the plastics recycling business"  
**Chris Slijkhuis, MBA Polymers, USA / Austria**

11.00 – 11.30 "Recommendations for China ELV policy"  
**Richard Paul, LKQ Corporation, USA**

11.30 – 13.00 Lunch

## Room 3: Car Recycling II

**Session II:** New plants, processes & equipments  
**Session Chairman:** Richard Paul, LKQ Corporation, USA

13.00 – 13.30 "Why shred?"  
**Scott Newell, The Shredder Company, USA**

13.30 – 14.00 "High-quality recycled polymers in automotive applications – From ELV into new cars"  
**Prof. Achim Schmiemann, Ostfalia – Hochschule für angewandte Wissenschaften, Germany**

14.00 – 14.30 "Best available recycling technology for ferrous and non-ferrous scrap"  
**Mark Ridall, Wendt Corp., USA**

14.30 – 15.00 Coffee break

15.00 – 15.30 "Recycling of automobiles and industrial batteries"  
**Salam Al Sharif, Sharif Metals Int'l., United Arab Emirates**

15.30 – 16.00 "The current situation of recycle of package waste in China"  
**Dr Li Li, Chinese Research Academy of Environmental Sciences (CRAES), China**

16.00 Cocktail reception sponsored by 

**[CHINA VISA IS REQUIRED!]**

## PLANT TOUR 3

THURSDAY, NOVEMBER 18, 2010

### GUANGZHOU GISE-MBA NEW PLASTICS TECHNOLOGY CO., LTD. (GMP), GUANGZHOU



#### Visit of a plastics recycling plant

07.00	Departure by bus from the hotel Harbour Grand Kowloon to GMP
11.00	Arrival at GMP
11.00 – 14.30	Visit of the plastic recycling plant
19.00*	Arrival at the hotel Harbour Grand Kowloon

**Guangzhou GISE-MBA New Plastics Technology Co., Ltd (GMP)** is a Sino-US Joint Venture between Guangzhou Iron & Steel Enterprise Group (GISE) and MBA Polymers Inc. (MBA) with a total investment of US \$17 million. GMP is located in the Nansha District of Guangzhou, China. It produces high quality, recycled plastics of ABS, HIPS and PP from 100% post-consumer plastic from durable goods (appliances, electronics and automobiles). Operations began in the 3<sup>rd</sup> quarter of 2005. GMP has the capacity to processes 40,000 tons of mixed scrap plastics per year.

GMP utilizes MBA technology which is entirely mechanical using no chemicals and thus entirely safe environmentally. MBA technology offers a revolutionary solution to post-consumer plastic (PCR) recycling. It shifts the recycling of mixed plastics from impossible to possible, from environmentally dangerous to environmentally safe, from traditionally labor-intensive (and inaccurate manual) sorting to high-tech based automated separation.

GMP produces consistent virgin-like quality PCR plastic resin. Its EvoSource™ premier finished goods are UL certified and are widely applied to electronic OEM products. Compared to producing virgin plastic, GMP consumes less than 10% of the energy and reduces production of CO<sub>2</sub> from 1.5 kilo to 2.5 kilo for each kilo of PCR resin produced. GMP is proud to contribute to global CO<sub>2</sub> reduction and to play a leading role in the growing global plastic recycling industry.

More information at: [www.gisemba.com](http://www.gisemba.com)

\* No guarantee on arrival time due to traffic conditions.



**广州广钢MBA塑料新技术有限公司**  
Guangzhou GISE-MBA New Plastics Technology Co., Ltd(GMP)



**“世界領先科技，**

**完全再生塑料，媲美新料品質，大規模工業化生產”**

“World leading technology, post consumer recycled plastic, virgin quality, industrialized production”

#### 產品種類及其適用產業與產品

廣州廣鋼MBA塑料新技术有限公司向客户提供高质量的再生ABS/HIPS/PP, 廣泛应用于家電, 電腦, 汽車等用途。

Guangzhou GISE-MBA New Plastics Technology Co., Ltd(GMP) provides the high quality recycled ABS/HIPS/PP to the customers, multi application in home appliance, computer, autos, etc.



#### 技術應用與發展

MBA Polymers has developed a number of revolutionary processes where it is possible to economically recover distinct types and even grades of plastics from highly mixed post consumer. MBA聚合物公司研發了數種革命性的塑料分離技術，能够經濟地從非常混雜的塑料混合物中按塑料種類甚至塑料的級別將它們分離出來。

MBA Polymers has received international recognition and awards:



Intel Tech Laureate for 2006

Best Model of 'Best Promising Company' Award Tech Ventures

Best of Breed Award Innovation Company 2007

My Hero Award Richard S. Gibb and MBA Polymers



**[CHINA VISA  
IS REQUIRED!]**

## PLANT TOUR 4

THURSDAY, NOVEMBER 18, 2010

WISTRON SOUTH CHINA OPERATION,  
ZHONGSHAN

**wistron**

### Visit of an electronics manufacturing plant

07.00	Departure by bus from the hotel Harbour Grand Kowloon to Wistron
11.00	Arrival at Wistron
11.00 – 14.30	Visit of the electronics manufacturing plant
19.00*	Arrival at the hotel Harbour Grand Kowloon

Founded in 1999 **Wistron South China Operation** is one of six manufacturing campuses operated by Wistron Corporation in North America, Europe and Asia. Wistron is among the world's largest original design manufacturer (ODM) companies producing information and communication technology (ICT) products-including mobile and handheld devices, servers and storage, information appliances, LCD TVs and monitors, networking, and communication products. Wistron is a leader in the delivery of a broad range of ICT services to globally recognized companies, aligning extensive engineering resources to develop leading products and services.

Utilizing comprehensive product development experience, as well as partnerships with leading technology companies, Wistron incorporates the latest technology platforms into product offerings for OEM customers. Design teams cover all pre-manufacturing areas from initial product conceptualization and prototyping to design-for-manufacturing, test and service. Manufacturing teams assist with all aspects of product development from PCB layout to full system integration, including CTO. After-sales service teams collaborate with customers' service teams or customers' outsourced service partners to develop customized service business models and integrated reverse logistics programs.

Wistron was included in Forbes magazines' Asia FAB 50 (Asia Pacific's best big public listed companies) in 2007, 2008, and 2009. Wistron employs 40,000 people in 14 offices worldwide with revenue of US\$ 17.1 billion.

More information at: [www.wistron.com](http://www.wistron.com)

\* No guarantee on arrival time due to traffic conditions.

# Welcome to the 5<sup>th</sup> World Recycling Forum

Wistron welcomes all the participants to the World Recycling Forum.

## Wistron Designing the programs to protect our planet

Wistron is a top three ODM supplier to leading branded electronics companies. In 2009 we produced over 25M notebook PCs, 10M TVs/monitors, and 8.5M desktop/server PCs. As a major designer, manufacturer, and after-sales service provider for electronics products we are in a prime position to support product's entire life cycle. In partnership with leading recyclers, Wistron is creating the cradle-to-cradle closed-loop solutions needed to protect our planet.

Providing services worldwide, Wistron is a US\$17B company with 45,000 employees. To learn more about Wistron visit: [www.wistron.com](http://www.wistron.com). For information about Wistron's recycling life cycle solutions contact: [Frank\\_Sun@wistron.com](mailto:Frank_Sun@wistron.com).

**wistron**



**[CHINA VISA  
IS REQUIRED!]**

## PLANT TOUR 5

THURSDAY, NOVEMBER 18, 2010

### GLOBAL METALS CO., LTD., FOSHAN



#### Visit of a metal recycling plant

07.00	Departure by bus from the hotel Harbour Grand Kowloon to Global Metals
11.00	Arrival at Global Metals
11.00 – 14.00	Visit of the metal recycling plant
19.00*	Arrival at the hotel Harbour Grand Kowloon

**Global Metals Co., Ltd.** is the biggest recycling company located in southern China, member of BIR, ISRI & Chinese Non Ferrous Industry Association, importing more than 150,000 mt per year of all kinds of non-ferrous metal scrap including Copper, Brass, Aluminum, Zinc, Stainless Steel, Lead, Silicon Steel and Plastic from all over the world. We buy from low grade to high grade material. Such as Insulated Copper Wire, Electric Motor, Transformer, Extrusion, Insulated Alum Wire, etc. The majority of the scrap flows through our yards in China where it is sorted and processes into value-added commodities in readiness for recycling.

We have in excess of 1,500 employees all over the world. Office and largest recycling facility in Nanhai, China; additional recycling facilities in Tianjin, Qiyun and Ningbo, China; combination trading office and recycling facility in Wingfield, Australia, trading offices in Boston and financial office in Hong Kong.

More information at: [www.globalmetals.cn](http://www.globalmetals.cn)

\* No guarantee on arrival time due to traffic conditions.

## GLOBAL METALS CO., LTD.

A leading importer & processor in China

**Get direct contact with  
the end user market!**

Fast expanding with high  
demand of sourcing agents.

We purchase: Insulated cable,  
Copper scrap, Shredded material,  
Other Non-ferrous scrap

Phone: +86 75785530978

Fax: +86 757 85598780

Email: [info@globalmetals.cn](mailto:info@globalmetals.cn)

[www.globalmetals.cn](http://www.globalmetals.cn)



[CHINA VISA  
IS REQUIRED!]

## PLANT TOUR 6

THURSDAY, NOVEMBER 18, 2010

SHENZHEN GEM HIGH-TECH CO., LTD. &  
BYD AUTO COMPANY LIMITED,  
SHENZHEN

**GEM** 格林美  
资源有限 循环无限  
Limited resources Unlimited recycling

### Visit of an electronics recycling plant & a car manufacturing plant

07.00	Departure by bus from the hotel Harbour Grand Kowloon to Shenzhen GEM
10.00	Arrival at Shenzhen GEM
10.00 – 13.00	Visit of the electronics recycling plant
13.00	Departure to BYD
14.30	Arrival at BYD
14.30 – 16.30	Visit of the car manufacturing plant
21.00*	Arrival at the hotel Harbour Grand Kowloon

**GEM (Green Eco-Manufacturer)**, headquartered in Shenzhen, China, was founded in 2002. It is a national high-tech enterprise in recycling industry and was successfully listed in Shenzhen A-share in Jan. 2010. It is a practitioner and one of the leading enterprises in low carbon manufacturing.

Confronted with scarce resources and environmental degradation, GEM always follows its philosophy of "eliminating pollution, recycling resources", and is committed to the recycling of e-wastes, used batteries and all kinds of scraps. It is now establishing a recycling network of used batteries & e-wastes, installing more than 15,000 recycling bins and more than 30 e-waste recycling centers. GEM builds a high-end recycling mode of the unlimited waste resources "urban mines", and processes more than 50,000 tons of e-wastes, used batteries and other used cobalt & nickel resources. It produces more than 20 kinds of high-tech materials, such as WPC, ultrafine cobalt & nickel powder and battery materials, with an annual output of RMB 600 million. GEM has been awarded National High-tech Enterprise, Pilot Enterprise of National Circular Economy and Pilot Enterprise of National Innovation.

More information at: [www.gemhi-tech.com](http://www.gemhi-tech.com)

\* No guarantee on arrival time due to traffic conditions.

**GEM**

### BYD COMPANY LIMITED



Established in 1995, **BYD Company Limited** (BYD for short) is a high-tech enterprise listed on the Hong Kong Stock Exchange. It is a top high-tech enterprise in China specializing in IT, automobile, and new energy. BYD has the largest market share for Nickel-batteries, handset Li-ion batteries, cell-phone chargers and keypads worldwide. It is the largest supplier of rechargeable batteries and has the second largest market share for cell-phone shells in the globe. BYD Auto becomes the most innovative independent national auto brand with a growth rate of over 100% for recent consecutive 5 years and leads the field of electric vehicles with unique technologies. In the field of new energy, BYD has developed green products such as Electric Vehicles, Energy Storage Stations and Solar Power Stations. It will continue to lead the new energy revolution in the world!

More information at: [www.byd.com](http://www.byd.com)





# Green Eco-Manufacturer

Environment-friendly recycling & processing of batteries and electronic wastes!

Establishing a recycling network of batteries and e-wastes, exploring the exploiting mode of "urban mines"

Green recycling system based on centralized collection and centralized transaction



Classify, centralized collection



Centralized transaction

Typical e-wastes recycled by GEM



科技·绿色明天  
For Tomorrow

新能源汽车领导者

我们在新能源汽车领域不断创新，我们以比亚迪插电式混合动力汽车为标志，成为人类共同梦想！Build Your Dreams!

Leader of New Energy Vehicle

We have breakthrough in new energy vehicle field.  
We use DM Hybrid engine models for high-tech and promising tomorrow.  
Long have striven to make your dreams come true! Build Your Dreams!





## NETWORKING DINNER

## EXHIBITION

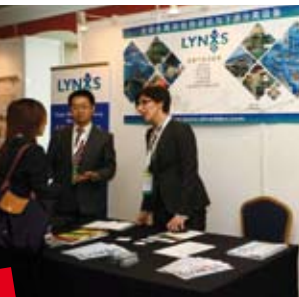


On Tuesday, November 16, a special networking dinner will be organized in exciting Hong Kong.

Do not miss this perfect possibility to meet your business partners and register to this evening now!



Meet friends and business partners in a nice atmosphere!



	<b>Eldan Recycling A/S, Denmark</b>
	<b>Foshan Winner Metal Co., Ltd., China</b>
	<b>GEEP – Global Electric Electronic Processing Inc., Canada</b>
	<b>Hamos GmbH, Germany</b>
	<b>Hangzhou Fuxing Environmental Protection Machinery Co., Ltd., China</b>
	<b>Li Tong Group, China</b>
	<b>Loyalty Equipment-Making (Sichuan) Co., Ltd., China</b>
	<b>LYNXS Shredder (Project Design) Ltd., United Kingdom</b>
	<b>MRT System AB, Sweden</b>
	<b>Shenzhen GEM High-Tech Co., Ltd., China</b>
	<b>Stena Technoworld AB, Sweden</b>
	<b>UNTHA Recyclingtechnik GmbH, Germany</b>
	<b>Wendt Corp., USA</b>



REGISTER BY  
SEP. 30, 2010  
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?

- Electronics, battery and car manufacturers (OEMs)
- Components & parts suppliers
- Ferrous & non ferrous traders
- Shredding companies
- Recycling and dismantling companies
- Collection and transportation companies
- Financing organizations for WEEE, used batteries and ELV
- Plastic industry
- Steel industry
- Non ferrous metal industry
- Ferrous and stainless steel industry
- Environmental authorities
- Universities and research institutes
- Laboratories for materials science
- Consultants

## ORGANIZER OF WRF 2010



**JEANETTE DUTTLINGER**  
Forum Organizer



**YING LIU REICHENBACH**  
Forum Assistant



**CLAUDIA GERSTENDÖRFER**  
Forum Assistant



**SUSANN SCHMID**  
Forum Assistant



**SIBYLLE ZIMMERLI**  
Forum Assistant



**SANDRA MANNHART**  
Forum Assistant

Registration for the forum should be made by means of the registration form. Participants registering and paying **before September 30, 2010** will benefit from a reduced registration fee. The registration fee includes conference, entrance to the exhibition, proceedings and luncheons.

## REGISTRATION FEES

Forum Fee	before Sep. 30, 2010	after Sep. 30, 2010
Participants	US\$ 1'390.-	US\$ 1'490.-
Speakers	US\$ 990.-	US\$ 1'090.-
Universities, government & authorities	US\$ 590.-	US\$ 690.-
Networking dinner (Nov. 16, 2010)	US\$ 100.-	US\$ 120.-
Networking dinner for accompanying persons (Nov. 16, 2010)	US\$ 120.-	US\$ 150.-

Forum registration on site US\$ 100.- surcharge

### Plant tours on Monday (Nov. 15, 2010):

Tour 1: Li Tong Group, Hong Kong	US\$ 70.-	US\$ 90.-
Tour 2: Veolia, Hong Kong	US\$ 70.-	US\$ 90.-

### Plant tours on Thursday (Nov. 18, 2010):

Tour 3: GISE-MBA, Guangzhou*	US\$ 120.-	US\$ 150.-
Tour 4: Wistron South China, Zhongshan*	US\$ 120.-	US\$ 150.-
Tour 5: Global Metals, Foshan*	US\$ 120.-	US\$ 150.-
Tour 6: Shenzhen GEM & BYD, Shenzhen*	US\$ 150.-	US\$ 180.-

### \* China visa is required to attend these plant tours!

Visa is the responsibility of individual delegates.

### Conference language and additional proceedings

The language of the conference is English. If it is not possible for you to attend the forum, you may purchase the complete proceedings at US\$ 250.-. Participants will get the proceedings free of charge.

### Payment

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

Beneficiary: ICM AG  
Bank: Neue Aargauer Bank, 5400 Baden, Switzerland  
Account number: 447941-72-1  
IBAN: CH41 0588 1044 7941 7200 1  
Clearing number: 5881  
Swift code: AHHBCH22XXX



SPONSORED BY:

