

WRF 2011

6th World Recycling Forum WRF 2011 International Conference & Exhibition on Electronics, Battery & Car Recycling

November 15 – 18, 2011, Hong Kong



Supported by:

- Call2Recycle®, USA
- China Automotive Technology and Research Center (CATARC)
- China Industrial Association of Power Sources (CIAPS)
- Japan Automobile Manufacturers Association (JAMA)
- Japan Automotive Recyclers Association (JARA)
- Korea Automobile Manufacturers Association (KAMA)
- Korea Institute of Geoscience & Mineral Resource (KIGAM)
- The Rechargeable Battery Association (PRBA), USA
- WEEE Forum, Belgium



FOREWORD



PROFESSOR DUAN WENG

Chairman of
the Steering Committee
6th World Recycling Forum
Hong Kong

**Hong Kong – the door into
the Pacific Rim – a place
where business leaders and
investors meet**

The 6th World Recycling Forum (WRF 2011) 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.

Many associations, a diversified Steering Committee, powerful sponsors and interesting exhibitors welcome the Forum Participants from all over the world. Meet your clients, friends and partners at a beautiful place in booming Hong Kong. An excellent networking dinner, cocktail receptions and the heartbeat of the city will give you the floor to share your experience among other leaders from the recycling sector. Learn from the oth-

ers and get the latest information from the markets.

Hong Kong is known as one of the Four Asian Tigers for its high growth rates and rapid development. More than 7 Million people live in Hong Kong with a population density of about 6,500 people per square kilometer!

The excellent infrastructure such as a modern airport, one of the world largest container ports, international banks and the multilingual business opportunities with China, India and Malaysia make Hong Kong as the number one hub for business for foreigners.

Huge tonnages of raw materials, products and semi products are traded between China and the world markets via Hong Kong. On the other hand also huge tonnages of raw materials

and valuable wastes are imported into China for recovery and recycling. China is on the way to become the world's largest recycling nation. The technical standards and levels get better very rapidly. Chinese electronics, battery and car producers want to keep the recycling and of course the whole raw materials chain in their own hands. This is totally different than in the USA and Europe!

The organizer of WRF is offering once more very interesting plant tours in the vicinity of Hong Kong and in Mainland China. 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



PROF. DUAN WENG

Tsinghua University
Institute for Energy & Environment Materials
Director
China

“IMPACT OF CHINA’S INCREASE
OF POPULATION ON THE RECYCLING
INDUSTRY”

ANNUKKA DICKENS

Hewlett-Packard
Head of Environmental Management
Asia Pacific and Japan

“E-WASTE LEGISLATION IN ASIA PACIFIC”



STEPHEN HARTWELL GREER

Hartwell Pacific/Oaktree Capital
Hong Kong

“STARTING FROM SCRAP: A HONG KONG
ENTREPRENEUR’S STORY”



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



PROF. THEO LEHNER
Boliden Mineral AB
Manager Business Development
Sweden

CO-CHAIRMAN



ROGER BURRI
Air Mercury AG
President
Switzerland



JEAN-PHILIPPE FUSIER
MTB Recycling
President
France



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



PROF. JINHUI LI
Tsinghua University
China

MEMBERS



GENKICHI ANDO
Seinan Corporation
President
Japan



ALFRED HAMBSCH
GEEP – Global Electric
Electronic Processing Inc.
Vice President
Canada



ANDREAS KREBS
Batrec Industrie AG
Managing Director
Switzerland



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



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



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



JILL LEDGER
SAFT
Corporate Communication and
Investor Relations Director
France



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



TODD COY
Kinsbursky Brothers, Inc.
Executive Vice President
USA



PAUL HEALEY
Xstrata Copper
Senior Director
Recycling
Canada



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



SCOTT NEWELL
The Shredder Company, LLC
Chairman and CEO
USA

INTERNATIONAL STEERING COMMITTEE



KAZUMI NOZAWA
IBM Corporation, Program Manager,
Environmental Policy & Programs
Japan and ASEAN countries
Japan



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



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



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



RICHARD PAUL
LKQ Corporation
Manager Environmental
and Sustainability Programs
USA



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



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



JOE ZHOU
Global Metals Co., Ltd.
President
China



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



MARK TOMASZEWSKI
Inmetco Inc.
President
USA



STEPHAN SCHWARZ
environplasma
Managing Director
Germany



ANJA TOMAZIC
General Motors / Adam Opel AG
ELV, Manager Business Relations
Germany



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



DR JAN TYTGAT
Umicore Battery Recycling
General Manager
Belgium



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



DR JEAN-POL WIAUX
RECHARGE
Manager
Belgium

MEDIA PARTNERS



MANFRED BECK
Recycling International Magazine
Publisher & Editor
Netherlands



BRIAN TAYLOR
Recycling Today
Associate Publisher/Editorial
Director
USA



STEPHAN PETER KRAFZIK
Recycling Magazin
Senior Editor
Germany



MIKE THIRD
Auto Recycling Australia Magazine
Publisher
Australia



ADAM MINTER
Shanghai Scrap
Freelance Recycling
Industry Journalist
China



XIN ZHAI
Resource Recycling
Chief Editor
China



LOCATION OF THE FORUM



HONG KONG – PEARL OF THE ORIENT



The 6th World Recycling Forum will be held from **November 15 – 18, 2011** 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



Hong Kong is a city that works. It has a solid infrastructure and efficient transportation network as well as thousands of fine restaurants and tastes. It holds a beautiful concentration and diversity of cultures. One can explore plenty of vegetation, country parks, and exotic outlying islands plus one of the world's greatest 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 kilometers (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



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 14, 2011**. 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



(Forum place)



TUESDAY, NOVEMBER 15, 2011 / PLANT TOURS

11.00 – 19.00 Registration					
13.00 – 17.00	Plant tour 1	13.00 – 17.00	Plant tour 2	13.00 – 17.00	Plant tour 3
Oil recycling & treatment centre Dunwell Group, Hong Kong		Electronics recycling plant E.T.M., Hong Kong		Chemical Waste Treatment Centre Ecospace Ltd., Hong Kong	
17.00 – 19.00 Welcome reception					
19.00 Steering Committee Meeting (I)					

WEDNESDAY, NOVEMBER 16, 2011 / CONFERENCE & EXHIBITION

08.00 – 09.00 Registration, welcome coffee and tea	
09.00 – 12.30 Keynote Speakers & Panel Discussion	
12.30 – 14.00 Lunch	
14.00 – 15.30 Electronics & Battery Recycling Session (I)	14.00 – 15.30 Electric Vehicle & Battery Recycling Session (I)
16.00 – 17.00 Electronics & Battery Recycling Session (II)	16.00 – 17.00 Car Recycling Session (II)
19.00 Cocktail reception & networking dinner	

THURSDAY, NOVEMBER 17, 2011 / CONFERENCE & EXHIBITION

08.00 – 09.00 Coffee and tea	
09.00 – 10.00 Electronics & Battery Recycling Session (III)	09.00 – 10.00 Car Recycling Session (III)
10.30 – 11.30 Electronics & Battery Recycling Session (IV)	10.30 – 11.30 Car Recycling Session (IV)
11.30 – 13.00 Lunch	
13.00 – 14.30 Electronics & Battery Recycling Session (V)	13.00 – 14.30 Car Recycling Session (V)
15.00 – 16.00 Electronics & Battery Recycling Session (VI)	
16.00 – 17.00 Cocktail reception	
17.00 Steering Committee Meeting (II)	

FRIDAY, NOVEMBER 18, 2011 / PLANT TOURS

07.00 – 19.00	Plant tour 4*	07.00 – 19.00	Plant tour 5*
Electronics manufacturing plant Wistron South China, Zhongshan		Plastics recycling plant GISE-MBA, Guangzhou	
07.00 – 21.00 Plant tour 6*			
Alkaline and Li-ion battery recycling plant & car manufacturing plant Tele Battery Recycle & BYD, Shenzhen			

*China visa is required to attend these plant tours!

PLANT TOUR 1

TUESDAY, NOVEMBER 15, 2011

DUNWELL GROUP, HONG KONG



Visit of the oil recycling and treatment centre

13.00	Departure by bus from the hotel Harbour Grand Kowloon to Dunwell Group
14.00	Arrival at Dunwell Group
14.00 – 16.00	Visit of the oil recycling and treatment centre
17.00*	Arrival at the hotel Harbour Grand Kowloon

In 1993, Dunwell acquired an Australian bankrupted operation that lost USD 10 million from used oil re-refining activities. With much forward looking management and investment in innovative technologies, Dunwell has turned around this 100,000 sq. ft. used lubricant recycling facility to handle about 85% of used lubricant generated in Hong Kong and become an environmental pioneer within Asia Pacific.

From recycling, Dunwell has been able to turn the waste lubricants into high quality, green lubricants and market to clients such as the local government, construction industries, power utility, different manufacturers and vehicle users locally and overseas.

Apart from used lubricants recycling, Dunwell especially serves the auto dealers in Hong Kong for waste oily effluent treatment, solvent recovery and lead acid battery handling, treatment and recycling. These are all classified by the Environmental Protection Department of HKSAR Government as chemical wastes that have to be properly handled only by licensed facilities.

Realizing the high temperature (350°C), high operation cost and limitation of wiped film evaporation (WFE) process, Dunwell has developed a proprietary vibratory membrane technology into Vibratory Membrane Advanced Treatment (VMAT) which is a highly effective, low cost, low temperature (90°C) process for used lubricant recycling.

More information at: www.dunwellgroup.com

* No guarantee on arrival time due to traffic conditions.

Your Asian Partner lubricant recycling & wastewater treatment



The technological breakthrough of VMAT used lubricant recycling system has enabled Dunwell to win four important international awards:

- 2008 PRC National Environmental Science Award – The Silver Prize (at Beijing, China)
- 2006 IChemE Awards – Environment Award (at London, U.K.)
- 2006 Wall Street Journal Asian Innovation Award – Bronze Medalist (at Singapore)
- 2005 Hong Kong Awards for Industry: Machinery & Equipment Design Category – Grand Award (at Hong Kong)

These different award organizers (representing world class expertise in the areas of technological advancement and financial/commercial achievements) recognized Dunwell's restless effort in practicing Corporate Social Responsibility (CSR), and in particular, the engineering capability, innovative design, as well as the commercial sensibility of Dunwell's VMAT, the world's first commercialized vibrating membrane used oil recycling system.

8 Wang Lee Street,
Yuen Long Industrial Estate,
N.T., Hong Kong

Tel: (852) 2443 8188
Fax: (852) 2789 3346

Website: <http://www.dunwellgroup.com>
Email: Info@dunwellgroup.com

PLANT TOUR 2

TUESDAY, NOVEMBER 15, 2011

E. TECH MANAGEMENT (HK) LTD., HONG KONG



Visit of the electronics recycling plant

- 13.00 Departure by bus from the hotel Harbour Grand Kowloon to E.T.M.
14.00 Arrival at E.T.M.
14.00 – 15.30 Visit of the electronics recycling plant
17.00* Arrival at the hotel Harbour Grand Kowloon

Recycle Today, Save Tomorrow

E.T.M. (E. Tech Management Ltd.) is a leader of electronic recycling based in Hong Kong and North America. As a local electronic recycler and raw materials supplier in Asia, top security recycling and environmental protection are our prioritized considerations. We also strongly believe that our 3R mission "reduce", "reuse", "recycling" is the best way for us to keep the economy growing and minimize destruction to the environment. In our 100,000 SQF recycling plant, E.T.M. is able to handle any kind of E-Waste over 1000 ton in a month, through sorting, separating, dismantling, baling and data-secure removing. To further improve our service, any positive comments and suggestion from you would be highly appreciated.

More information at: www.e-techmanagement.com



Recycle Today Save Tomorrow

E.Tech Management (HK) Ltd.

is a business specializing in sourcing, processing and exporting of various productive raw materials to different industry manufacturers. We are interested in collecting various kinds of computer, plastic, non ferrous and E-scrap materials from many qualified recyclers around the world.

We also offer professional disposal of telecom, computer, electronic equipments. We ensure all those obsolete equipments are disposed in an environmentally friendly manner.



E.Tech Management (HK) Ltd.

Unit 1-3, 29/F, CEO Tower, 77 Wing Hong Street, Lai Chi Kok, Kowloon, Hong Kong
Tel: 852-24462566 Fax: 852-24160266 e-mail: info.etmhk@gmail.com
website: www.e-techmanagement.com

* No guarantee on arrival time due to traffic conditions.

PLANT TOUR 3

TUESDAY, NOVEMBER 15, 2011

ECOSPACE LIMITED

衛力化學廢料處理有限公司

ECOSPACE LTD., HONG KONG

Visit of the Chemical Waste Treatment Centre and the mercury recovery facility

13.00	Departure by bus from the hotel Harbour Grand Kowloon to Ecospace Ltd.
14.00	Arrival at Ecospace Ltd.
14.00 – 15.30	Visit of the Chemical Waste Treatment Centre & the mercury recovery facility
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 all 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.

Upcoming ICM Events:

www.icm.ch

16th International Congress for Battery Recycling ICBR 2011

ICBR
2011



September 21 – 23, 2011
Venice, Italy



11th International Electronics Recycling Congress IERC 2012

IERC
2012



January 18 – 20, 2012
Salzburg, Austria



12th International Automobile Recycling Congress IARC 2012

IARC
2012



March 21 – 23, 2012
Budapest, Hungary



FORUM PROGRAM WRF 2011

TUESDAY, NOVEMBER 15, 2011

- 11.00 – 19.00 Registration in the exhibition area
13.00 – 17.00 Plant tours 1 & 2 & 3
17.00 – 19.00 Welcome reception

WEDNESDAY, NOVEMBER 16, 2011

- 08.00 – 09.00 Registration, welcome coffee and tea
09.00 – 09.15 "Welcome and Introduction" by
Roger Burri, Co-Chairman of the Steering Committee

09.15 – 11.00 KEYNOTE SPEAKERS

"Impact of China's increase of population on the recycling industry"
Prof. Duan Weng, Tsinghua University, China

"Starting from scrap: A Hong Kong entrepreneur's story"
Stephen Hartwell Greer, Hartwell Pacific/Oaktree Capital, Hong Kong

"E-Waste Legislation in Asia Pacific"
Anukka Dickens, Hewlett-Packard, Asia Pacific and Japan

- 11.00 – 11.30 Coffee break in the exhibition area

11.30 – 12.30 PANEL DISCUSSION

"Is China becoming the world's leading recycling nation?"

Moderator: **Adam Minter, Shanghai Scrap, China**

Participants:

Michel Dubois, Recylux Group, Luxembourg
Stephen Hartwell Greer, Hartwell Pacific/Oaktree Capital, Hong Kong
Prof. Jinhui Li, Tsinghua University, China
Joe Yob, Creative Recycling Systems, Inc., USA

- 12.30 – 14.00 Lunch in the exhibition area

Session 1: Electronics & Battery Recycling Session Chairman: **Kazumi Nozawa, IBM Japan Ltd., Japan**

14.00 – 14.30 "Closing the loop at Philips Consumer Lifestyle"
Eelco Smit, Philips Consumer Lifestyle (CL), Netherlands

14.30 – 15.00 "8 years of WEEE in Europe... moving some of the myth"
Klaus Hieronymi, Hewlett-Packard, Europe – Middle East – Africa

15.00 – 15.30 "Update of development on electronics recycling in China"
Prof. Jinhui Li, Tsinghua University, China

- 15.30 – 16.00 Coffee break in the exhibition area

Session 2: Electronics & Battery Recycling Session Chairman: **Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan**

16.00 – 16.30 "Update and challenges of the electronics and lamps recycling business in USA"
Jon Yob, Creative Recycling Systems, Inc., USA

16.30 – 17.00 "Sustainable development via recovery of copper and precious metals from recycled electronics at Xstrata Copper's Horne Smelter"
Paul J. Healey, Xstrata Copper, Canada

- 19.00 Cocktail reception & networking dinner

Parallel Session 1: Electric Vehicle & Battery Recycling, Session Chairman: **Dr Andreas Röthlisberger, WEEE Forum, Belgium**

"Recycling of future electric vehicles: Recycling technologies follow the product"
Anja Tomazic, General Motors/Adam Opel AG, Germany

"Smartgrids and eMobility: Purpose and impact on recycling from European & Global perspectives"
Alfons Westgeest, EUROBAT, Belgium

"Characterization of used electrical vehicle lithium ion batteries for recycling of valuable metals"
Sravaya Kosaraju, Chalmers University of Technology, Sweden

Parallel Session 2: Car Recycling Session Chairman: **Genkichi Ando, Seinan Corporation, Japan**

"Undertaking of derelict end of life vehicles (ELV) in developing countries"
Minoru Goko, Japan Automotive Recyclers Association (JARA), Japan

"The opportunity and challenge of ELV recycling in China"
Jing Chai, CATARC, China

FORUM PROGRAM WRF 2011

THURSDAY, NOVEMBER 17, 2011

08.00 – 09.00 Coffee and tea

Session 3:	Electronics & Battery Recycling Session Chairman: Jill Ledger, SAFT, France	Parallel Session 3: Car Recycling Session Chairman: Scott Newell, The Shredder Company, LLC, USA
09.00 – 09.30	"North America's capacity to recycle consumer batteries" Carl E. Smith, Call2Recycle®, USA	"Application of HARDOX wear plate in car recycling" Dr Fenwei Su, SSAB Swedish Steel Ltd. SSAB APAC, China
09.30 – 10.00	"Separation technologies for mixed WEEE plastics" Dr Rainer Koehnlechner, Hamos GmbH, Germany	"Used engine oil recycling development & challenges in Hong Kong and Asian regions" Ir. Daniel M. Cheng, Dunwell Group, Hong Kong

10.00 – 10.30 Coffee break in the exhibition area

Session 4:	Electronics & Battery Recycling Session Chairman: Dr Jae-Chun Lee, Korea Institute of Geoscience and Mineral Resources (KIGAM), Korea	Parallel Session 4: Car Recycling Session Chairman: Richard Paul, LKQ Corporation, USA
10.30 – 11.00	"Manufacturers interstate takeback system – MITS – the complete administrative solution" Bob Erie, E-World Recyclers, USA	"The evolution within the car recycling industry" Christer Sundberg, Scandinavia EcoTech, LLC, China
11.00 – 11.30	"Solvent extraction indium and removal of mercury: A potential application for recycling of LCD" Jiaxu Yang, Chalmers University of Technology, Sweden	"Why we shred: An investigation of the evolving benefits of shredding in the recycling, steel, and nonferrous industries" Scott Newell, The Shredder Company, LLC, USA

11.30 – 13.00 Lunch in the exhibition area

Session 5:	Electronics & Battery Recycling Session Chairman: Chris Slijkhuis, MBA Polymers Austria GmbH, Austria	Parallel Session 5: Car Recycling Session Chairman: Scott Horne, Institute of Scrap Recycling Industries, Inc. (ISRI), USA
13.00 – 13.30	"One year on, the experience with certifying electronics recyclers in the e-Stewards program" Jim Puckett, BAN, USA	"CO2 – certification from recycling processes?" Dr Beate Kummer, Kummer Umwelt-kommunikation GmbH, Germany
13.30 – 14.00	"Improving the end-of-life for electronic materials via sustainable recycling methods" Michael Korzenski, ATMI, USA	"Automobile shredding 101: Choosing equipment for long term success" Mark Ridall, Wendt Corp., USA
14.00 – 14.30	"Update on worldwide recycling laws and regulations to use the WEEE legislation in Europe as a mirror to look upon the opportunities (and challenges) in particularly China" Phär Oscár, Stena Technoworld AB, Sweden	"Cutting edge technology – the HAMMEL scrap metal processing plant" Siegfried Lohmeier, Hammel Recycling-technik GmbH, Germany

14.30 – 15.00 Coffee break in the exhibition area

Session 6:	Electronics & Battery Recycling Session Chairman: Stephan Schwarz, environplasma Verwertungszentrum GmbH, Germany
15.00 – 15.30	"Disposal and recycling of small appliances" Peter Hessler, UNTHA Recycling GmbH, Germany
15.30 – 16.00	"Post consumer recycled (PCR) plastic makes OEMs greener" Eric Wang, MBA Polymers, Inc., China

16.00 – 17.00 Cocktail reception in the exhibition area

FRIDAY, NOVEMBER 18, 2011

07.00 – 19.00 Plant tours 4 & 5 (China visa is required!)

07.00 – 21.00 Plant tour 6 (China visa is required!)

**[CHINA VISA
IS REQUIRED!]**

PLANT TOUR 4

FRIDAY, NOVEMBER 18, 2011

WISTRON SOUTH CHINA OPERATION,
ZHONGSHAN



Visit of the 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 50,000 people in 18 offices worldwide with revenue of over US\$ 21 billion.

More information at: www.wistron.com

* No guarantee on arrival time due to traffic conditions.

Welcome to the 6th World Recycling Forum

Wistron welcomes all the participants to the World Recycling Forum

Wistron Designing the programs to protect our planet

Wistron is an engineering-based technical service provider delivering end-to-end product services to leading branded electronics companies. In 2010 we produced over 27M notebook PCs, 12M TVs/monitors, and 11M 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\$21B company with 50,000 employees. To learn more about Wistron visit: www.wistron.com. For information about Wistron's recycling life cycle solutions contact: Frank_Sun@wistron.com.



wistron

[CHINA VISA IS REQUIRED!]

PLANT TOUR 5

FRIDAY, NOVEMBER 18, 2011

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



Visit of the 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 plastics 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 3rd 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 CO₂ from 1.5 kilo to 2.5 kilo for each kilo of PCR resin produced. GMP is proud to contribute to global CO₂ reduction and to play a leading role in the growing global plastic recycling industry.

More information at: 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，

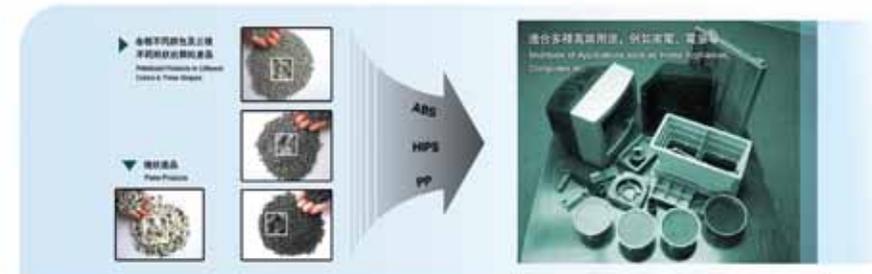
完全再生塑料，媲美新料品質，大規模工業化生產”

“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，廣泛應用於家電，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，能夠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 2008

Dr. Greg Barrett, Intel Chairman, presents the award and gifts Dr. Biddle over dinner all night about MBA's technology. Bill Gates also gets the Punkedout Award the same night.



The World of "Waste Processing Company" Award Clean Tech Reviews



Forbes Top 100 Most Innovative Companies 2007



Entrepreneur Magazine's "MY HERO" Award

**[CHINA VISA
IS REQUIRED!]**

PLANT TOUR 6

FRIDAY, NOVEMBER 18, 2011

TELE BATTERY RECYCLE &
BYD AUTO COMPANY LIMITED, SHENZHEN



Visit of the alkaline and Li-ion battery plant and the car manufacturing plant

07.00	Departure by bus from the hotel Harbour Grand Kowloon to Tele Battery Recycle
10.00	Arrival at Tele Battery Recycle
10.00 – 13.00	Visit of the alkaline and Li-ion battery 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

Tele Battery Recycle Technology Co., Ltd., headquartered in the Bao'an District in Shenzhen, with the facility located in Shaoguan, is a high and new technology company, experted in the reclaiming technology of rechargeable batteries, such as Li-ion, Li-polymer, Ni-MH, Ni-Cd, and reuse the substance in the batteries, including lithium, Cobalt, Nickel, Zinc etc.

The R&D team in Tele is leading in the battery reclaimed technology and we have strong ability and rich experience in converting new technology to commercial scale.

Relying on the corporate culture stressing on "Science & Technology innovates green life", and advanced technology and equipment, capable manpower and scientific management mode, our company has grown to be one of China's largest recycling enterprises integrating recovery, processing and sales of lithium, nickel and cobalt. We are chasing the objective of "Battery makes our life smart and environment-friendly" and contributing in energy recycling and environmental protection to the society.

More information at: www.telerecycle.com

* No guarantee on arrival time due to traffic conditions.

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



Battery we collect



- ① Li-ion battery
- ② Ni-MH battery
- ③ Ni-Cd battery

Battery we recycle

- ① Li-ion battery used in Mobile phone, Notebook, EV, Digital camera and power tool
- ② Alkaline battery

Recycling Flow Chart



TELE BATTERY RECYCLE CO.,LTD



科技·绿色明天
For Tomorrow

新能源车领导者

我们在新能源车领域取得突破，我们以DM双模电动车引领绿色潮流，愿您人类共同梦想！Build Your Dreams!

Leader of New Energy Vehicle

DM, Dual mode through a new energy vehicle fuel.
We will 200 hybrid motor vehicle, bring the new power system.
Long time driving to make your dreams come true. Build Your Dreams.





NETWORKING DINNER



EXHIBITION



On Wednesday, 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 relaxed atmosphere!



As per August 2, 2011:



Albert Hoffmann GmbH, Germany



Hamos GmbH Recycling- und Separationstechnik, Germany



HAMMEL Recyclingtechnik GmbH, Germany



Li Tong Group, China



Logan Oil Inc., USA



MRT System International AB, Sweden



Scandinavia EcoTech LLC, China



The Shredder Company LLC, USA



TiTech GmbH, Germany



TradeScrap.com, USA



UNTHA Recyclingtechnik GmbH, Germany



Vecoplan AG, Germany



Wendt Corp., USA

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SEPT. 30, 2011
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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 2011



JEANETTE DUTTLINGER
Forum Organizer



CORINNE KONRAD
Forum Assistant



CLAUDIA GERSTENDÖRFER
Forum Assistant



YING LIU REICHENBACH
Forum Assistant



SUSANN SCHMID
Forum Assistant



SIBYLLE ZIMMERLI
Forum Assistant



MIRJAM WAGNER
Forum Assistant

Registration for the forum should be made by means of the registration form. Participants registering and paying **before September 30, 2011** will benefit from a reduced registration fee. The registration fee includes conference, entrance to the exhibition, proceedings and luncheons.

REGISTRATION FEES

Forum Fee	before Sept. 30, 2011	after Sept. 30, 2011
Participants	US\$ 1'490.-	US\$ 1'590.-
Speakers	US\$ 990.-	US\$ 1'090.-
Universities, government & authorities	US\$ 590.-	US\$ 690.-
Networking dinner (Nov. 16, 2011)	US\$ 100.-	US\$ 120.-
Networking dinner for accompanying person (Nov. 16, 2011)	US\$ 120.-	US\$ 150.-
Forum registration on site	US\$ 100.- surcharge	
Plant tours on Tuesday (Nov. 15, 2011):		
Tour 1: Dunwell Group, Hong Kong	US\$ 70.-	US\$ 90.-
Tour 2: E. Tech Management (HK) Ltd., Hong Kong	US\$ 70.-	US\$ 90.-
Tour 3: Ecospace Ltd., Hong Kong	US\$ 70.-	US\$ 90.-
Plant tours on Friday (Nov. 18, 2011):		
Tour 4: Wistron South China, Zhongshan*	US\$ 130.-	US\$ 160.-
Tour 5: GISE-MBA, Guangzhou*	US\$ 130.-	US\$ 160.-
Tour 6: Tele Battery Recycle & BYD, Shenzhen*	US\$ 160.-	US\$ 190.-

* 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
IBAN: CH41 0588 1044 7941 7200 1
Swift code: AHHBCH22XXX

