

# 金属资源再生国际论坛

Electronics Recycling Asia
November 13 – 16, 2012, Guangzhou, China
Conference, exhibition and plant tours organized
by World Recycling Forum





#### Supported by:

China Resource Recycling Association

Institute for Environmental Science and Technology (INEST), Vietnam

Institute of Scrap Recycling Industries, Inc. (ISRI), USA Japan Electronics and Information Technology Industries Association (JEITA)

Korea Institute of Geoscience & Mineral Resources (KIGAM) National Metallurgical Laboratory, Council of Scientific & Industrial Research (CSIR), India



































## **FOREWORD**

# PROFESSOR JINHUI LI

Chairman of Electronics Recycling Asia

#### Welcome to Guangzhou – the Pearl in Maritime Silk Route

On behalf of the Electronics Recycling Asia Steering Committee, I welcome you to the 7<sup>th</sup> World Recycling Forum WRF 2012 in Guangzhou. With your honorable participation, the WRF 2012 will be another successful event.

Hundreds of delegates from all over the world gather in the charming city Guangzhou where the Pearl River meets the sea, where the Maritime Silk Rout meets its starting point.

Ram City is the nickname of Guangzhou, and it's also known as the south gate of China. It has a long history and culture tradition where Cantonese originates. What's more, Guangzhou cuisine has its own seat in the world.

Guanazhou has always been an economy, finance, culture, technology, transport and education center of southern parts of China since ancient time. It is the largest open port and has the longest history in south China, and it is marked as one of the most famous harbor city in the world as well. Guangzhou, as the one of the most outstanding open city in China, is the golden window for foreign trading. Guangzhou attracts a great many of foreign friends to dwell and it is also a wellknown hometown for overseas Chinese.

With the repaid development of science and technology, human beings gradually step into a whole new digitalized world. A variety of advanced electronics and electric appliances are striding into people's life bringing convenience. The fast speed of updating electronics and electric appliances produces increasing electrical wastes, leaving harmful and tough environmental problems. The wastes not only contain valuable metal and plastic materials, but also hazardous composition threatening people's health. The recycling and reusing of wastes rouses the awareness and attracts high attention of the people from all over the world. Guangzhou, as one of the most crucial industrial base, is confronted with the challenge of how to efficiently utilize the recyclina material as well as recvclable resources which has already become a rapidly expanding business asset.

There will be many associations, a diversified Steering Committee, powerful sponsors and interesting exhibitors from all over the world. Many speakers from all over the world will present solutions to challenges in the

field of laws and regulations as well as technology and industrial projects. The exhibition and several visits to recycling and manufacturing companies are going to be offered to the participants.

The forum will give you the platform to share your experience among other leaders from the recycling sector. Learn from the others and get the latest information from the markets.

I wish all participants an interesting and pleasant stay and look forward to meeting you in charming Guangzhou!

# **KEYNOTE SPEAKERS**



PROF. JINHUI LI
Executive Secretary, Basel Convention
Coordinating Center for Asia and the Pacific
Professor, School of Environment, Tsinghua University
China

"RARE AND PRECIOUS METALS RECYCLING IN E-SCRAP"



PROF. YANGZU WANG

Member of Committee of Science & Technology

Ministry of Environmental Protection

(Former Vice Minister of Ministry of Environmental Protection)

China

"GLOBAL TRADE OF METALS AND WASTES"



LINDA LI Li Tong Group Vice President Hong Kong, China

"ELECTRONICS REMANUFACTURING & CLOSED-LOOP RECYCLING IN CHINA"



Head of Take Back Asia Pacific & Japan

"THE PRINCIPLES OF PROPER REGULATION"



DR PAEAN ZHANG

Hunan VARY Tech. Co., Ltd. Deputy General Manager China

"ENVIRONMENTAL PROTECTION EQUIPMENT IN THE FIELD OF RENEWABLE RESOURCE RECYCLING"





# INTERNATIONAL STEERING COMMITTEE

#### **CHAIRMAN**



PROF. JINHUI LI
Executive Secretary
Basel Convention, Coordinating
Center for Asia and the Pacific
Tsinghua University
China

#### **CO-CHAIRMAN**



ROGER BURRI Air Mercury AG President Switzerland

#### **MEMBERS**



DR MICHAEL BIDDLE MBA Polymers, Inc. President and Founder USA



ANNUKKA DICKENS Hewlett-Packard Head of Environmental Management Asia Pacific & Japan



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



CRYSTYNNA EWE Dell Head of Take Back Asia Pacific & Japan



JEAN-PHILIPPE FUSIER
MTB Recycling
President
France



PAUL HEALEY Xstrata Copper Senior Director Recycling Canada





PROF. TRUNG HAI HUYNH
Institute for Environment Science
and Technology (INEST), Hanoi
University of Science & Technology
(HUST), Director, Vietnam



DR MANIS KUMAR JHA
Metal Extraction & Forming Division
National Metallurgical Laboratory
Assistant Director / Senior Scientist
India



JEFFREY JERMYN
GEEP International Inc.
President
Canada



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



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



CHRISTINA MESKERS
Umicore Precious Metals Refining
Marketing and Business
Development Manager
Belgium



SCOTT NEWELL
The Shredder Company, LLC
Chairman and CEO
USA



KAZUMI NOZAWA

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

# INTERNATIONAL STEERING COMMITTEE



STEPHAN SCHWARZ
ALBA Group
Management Trading Plastics
Paper Southwest
Germany

STEVE SKURNAC Sims Recycling Solutions

CARL E. SMITH

North America

Call2Recycle®

CEO/President

President

USA

USA



PROF. DUAN WENG Chairman of WRF Tsinghua University, Institute for Energy & Environment Materials, Director, China



ROBIN WIENER
Institute of Scrap Recycling
Industries, Inc. (ISRI)
President
USA



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



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

#### **MEDIA PARTNERS**



MANFRED BECK
Recycling International Magazine
Publisher & Editor
Netherlands



BRIAN TAYLOR
Recycling Today Media Group
Associate Publisher/
Editorial Director
USA



STEPHAN PETER KRAFZIK Recycling Magazin Senior Editor Germany



XIN ZHAI Resource Recycling Chief Editor China



ADAM MINTER
Shanghai Scrap
Freelance Recycling
Industry Journalist
China



# LOCATION OF THE CONFERENCE



The Electronics Recycling Asia will be held from **November 13 – 16, 2012**, in the Shangri-La Hotel in Guangzhou, China.

It is one of Guangzhou's top luxury hotels, combining spectacular views of the Pearl River with elegant land-scaped gardens. This Guangzhou luxury hotel offers guests an oasis of warm comfort as they indulge in the lavish accommodation and dining options presented alongside the renowned Shangri-La hospitality.

For the participants of the conference a number of rooms are held at a special rate, if you register **before October 14**, **2012.** If you wish, you may also extend your stay at this beautiful hotel at the same special rate.



### Shangri-La Hotel Guangzhou\*\*\*\*\*

1 Hui Zhan Dong Road, Hai Zhu District Guangzhou 510308, China

Phone +86 20 8917 8888 Fax +86 20 8917 8899

www.shangri-la.com/en/guangzhou/shangrila





# **CONFERENCE STRUCTURE**

TUESDAY, NOVEMBER 13, 2012 / PLANT TOURS				
11.00 – 19.00	Registration			
12.30 – 17.00 Electronics dism Guangdong Mir	0 1	13.00 – 17.00 Plant tour 2 Plastics recycling plant Kingfa Sci. & Tech., Guangzhou	13.00 – 17.00 Plant tour 3 Plastics recycling plant MBA Polymers, Guangzhou	
17.00 – 19.00 Welcome reception				
19.00 Steering Committee Meeting (I)				

WEDNESDAY, NOVEMBER 14, 2012 / CONFERENCE & EXHIBITION			
08.00 - 09.00	Registration and welcome coffee in the exhibition area		
09.00 - 12.00	Keynote Speakers & Panel Discussion		
12.00 – 13.30	Lunch		
13.30 – 15.00	Today's cutting edge recycling technology		
15.30 – 17.00	New frontiers of recycling technology		
19.00	Cocktail reception & networking dinner		

THURSDAY, NOVEMBER 15, 2012 / CONFERENCE & EXHIBITION				
07.30 - 08.30	Coffee and tea			
08.30 - 10.00	Keynote Speakers			
10.30 – 12.00 How to recycle	strategic metals out of E-scrap	10.30 – 12.00 E-scrap country reports		
12.00 – 13.30	Lunch			
13.30 – 15.00 E-scrap collect	tions: The data	13.30 – 15.00 How to recycle lamps and other mercury containing waste		
15.30 – 17.00	E-scrap in Asia: Reports from the biggest players			
17.00 – 18.00	Cocktail reception			
18.00	Steering Committee Meeting (II)			
18.00	Steering Committee Meeting	(II)		

FRIDAT, NOVEMBER 16, 2012 / PLANT TOURS					
07.00 – 20.00 Plant tour 4*	08.00 – 16.30 Plant tour 5	08.30 – 17.00 Plant tour 6			
Electronics recycling plant	Electronics recycling plant	Electronics manufacturing plant			
E. Tech Management, Hong Kong	Qingyuan Dongjiang, Qingyuan	Wistron South China, Zhongshan			

<sup>\*</sup>Cross-boundary tour to Hong Kong: As you will leave mainland China for this tour, please make sure that you have a valid <u>multiple</u> visa to China, if you are returning to mainland China after this plant tour.

# TRAVELLING TO GUANGZHOU

# **EXCITING GUANGZHOU**

#### Visa for China

Foreigners who visit China are generally required to apply for a visa before departure. Please check with your local China embassy if you need a visa.

#### By plane

Guangzhou Baiyun International Airport (CAN) has been in operation since August 5, 2004 and is one of the three largest air hubs in China. Flights from this airport connect the city with more than 70 domestic cities and over 20 international cities. The airport is 28 km (17 mi) north from central Guangzhou and around 45–60 minutes from the conference hotel Shangri-La.

Flying to Hong Kong is another option. From the Hong Kong International Airport, you can take cross-boundary coach to Guangzhou and other cities in Guangdong province. The trip takes around 3 hours.

#### Weather

Guangzhou weather is generally warm and humid all year round without a clear division between the four seasons.

The average low and high temperatures are respectively 16°C (60°F) and 24°C (75°F) in November. A light sweater and a coat should be enough at the coolest of times.

Guangzhou, located at the north of the Pearl River delta, is an important trading center as well as a busy port and the capital city of the province of Guandong. The Canton faire has been held twice a year in the city since 1957. The city is renowned for its arts and crafts, namely the Guang Dong embroidery, ivory-carving and ceramics.

"Eating in Guangzhou" has become a popular saying both at home and abroad. Guangzhou ranks first in the number of restaurants and tea-houses in the country. Cantonese cuisine is good in color, fragrance, taste and presentation. Cantonese cuisine is among the most famous four in the country.

And then there is Shamian Island, a gazetted historical area that serves as a tranquil reminder of the colonial European period, with quiet pedestrian avenues flanked by trees and lined by historical buildings in various states of upkeep.







www.visitgz.com/en





TUESDAY, NOVEMBER 13, 2012



#### **GUANGDONG MINGJIE, FOSHAN**

#### Visit of the electronics dismantling plant

**12.30** Departure by bus from the Shangri-La Hotel Guangzhou

to Guangdong Mingjie

14.00 Arrival at Guangdong Mingjie

**14.00 – 15.30 Visit of the electronics dismantling plant**17.00\* Arrival at the Shangri-La Hotel Guangzhou

Guangdong Mingjie Environmental Protection Science & Technology Co., Ltd., a leading company in circular economy and an authorized pilot unit, has devoted itself to the green business of circular economic development since 1998. Our company carries out standard administration and excellent risk management, featuring international joint purchasing, automatic mass production and one-stop informatization marketing.

With the prominent advantage of capital management, our company has witnessed a continual dramatic growth for years and developed more than 20 professional subsidiaries. Every year we provide plenty of high-quality renewable resources and re-manufactured products for domestic and foreign companies in the circular economic industries. Up to the year 2011, our sales volume has outnumbered RMB 7 billion.

#### Our main business includes:

- Renewable resources import, recycling, & processing
- Domestic E-waste disassembling & recycling
- Scrap automobile disassembling & recycling
- Spare Parts re-manufacturing
- Establishment of the marketing system of urban renewable resources
- Research and development of environmental protection facilities

More information at: www.cmjr.cn

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



TUESDAY, NOVEMBER 13, 2012



KINGFA SCI. & TECH. CO., LTD., GUANGZHOU

#### Visit of the plastics recycling plant

13.00 Departure by bus from the Shangri-La Hotel Guangzhou to Kingfa

14.00 Arrival at Kingfa

14.00 – 16.00 Visit of the plastics recycling plant

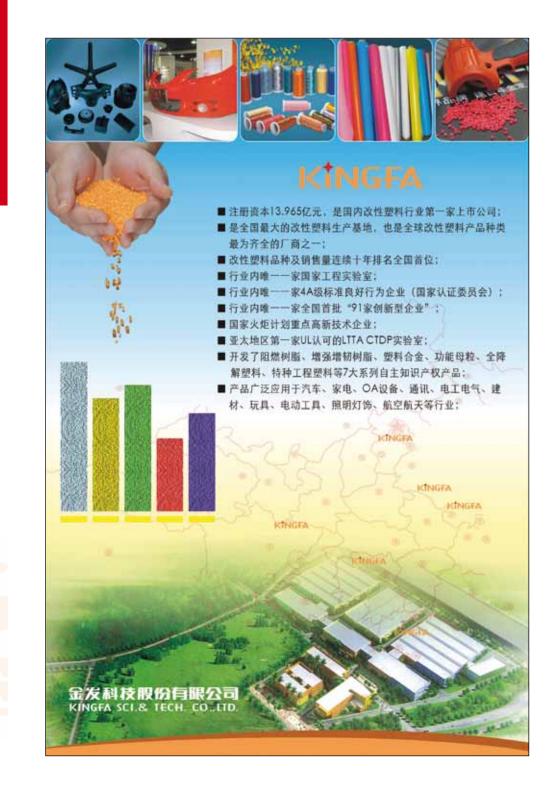
17.00\* Arrival at the Shangri-La Hotel Guangzhou

**Kingfa** was founded in 1993 with registered capital of 1'396 million Yuan. It is China's first listed company in the modified plastics industry.

Kingfa has qualified 600'000 tons of modified plastics production capacity. It is the most complete & the largest output production enterprise in China's modified plastics. In September 2004, Kingfa's production base in East China – Shanghai Kingfa was put into operation. At the same year, Kingfa established a production base in western China – Mianyang ChangXin New Materials Development Ltd. Thus, Kingfa has created allocation of production and manufacture across the East. South and West in China.

To further explore the international market, the company has registered "Kingfa" trademark in more than 30 countries including USA, Canada, Japan, Malaysia, Thailand, Mexico, India, South Korea etc. The company has a rapid product sales growth and accomplished sales volume which exceeded 7.51 billion Yuan (tax included) in 2007. In 2010, Kingfa reached on the basis of sales growth of 30% & its domestic market share reached 15–20%.

More information at: www.kingfa.com.cn



<sup>\*</sup> No guarantee on arrival time due to traffic conditions.

TUESDAY, NOVEMBER 13, 2012



#### MBA POLYMERS CHINA, GUANGZHOU

#### Visit of the plastics recycling plant

13.00 Departure by bus from the Shangri-La Hotel Guangzhou

to MBA Polymers China

14.00 Arrival at MBA Polymers China
14.00 – 16.00 Visit of the plastics recycling plant

17.00\* Arrival at the Shangri-La Hotel Guangzhou

**MBA Polymers China** is a Sino-US Joint Venture between Guangzhou Iron & Steel Enterprise Group (GISE) and MBA Polymers Inc. (MBA). MBA 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. MBA has the capacity to process 40'000 tons of mixed scrap plastics per year. The MBA Polymers technology is entirely mechanical using the physical characteristics of the plastics and it thus offers a revolutionary solution to post-consumer plastic (PCR) recycling of plastics from electronic scrap.

MBA Polymers China produces consistent high quality PCR (Post Consumer Recycled) plastic resin. Its EvoSourceTM premier finished goods are UL certified and are widely used for green electronic OEM products. Compared to producing virgin plastic, MBA consumes less than 10% of the energy and reduces CO2 emssions by 1,5 kilo to 2,5 kilo per kilo of PCR plastics produced. MBA is proud to contribute to the global CO2 emission reductions and by playing a leading role in the growth of the sustainable production of plastics.

More information at: www.mbapolymers.com





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

# MBA聚合物中国提供高质量的ABS、HIPS和PP再生塑料给客户。这些废旧 塑料经过再生后可以用于制造电子电器、汽车和办公设备等。

MBA Polymers China provides high quality recycled plastics ABS, HIPS and PP to its customers. These Post Consumer Plastics are used in high tech applications such as in electronics, automotive parts and in office products.







MBA Polymers has developed a number of revolutionary processes where it is possible to economically recover distinct types and even grades of plastics from complex post-consumer plastics mixtures generated from E-Waste recycling such as Electronic Shredder Residues.

MBA聚合物发展出一系列革命性的工艺,使从电子废料如ESR中的废旧塑料混合物中经济地再生出不同种类和不同等级的塑料。



#### **MBA** POLYMERS CHINA

No. 1 Guanggangjin Rd., Huandaoshixi Rd., West Industrial Zone, Nansha Development Zone District, Guangzhou 511458, China

Phone: +86 020-846823888
Fax: +86 020-84680038
Email: info@gisemba.com
Web: www.mbapolymers.com

<sup>\*</sup> No guarantee on arrival time due to traffic conditions.

# CONFERENCE PROGRAM

TUESDAY, NOVEMBER 13, 2012			
11.00 - 19.00 12.30 - 17.00 17.00 - 19.00	Registration Plant tours 1 & 2 & 3 Welcome reception in the exhibition area		
WEDNESDAY	, NOVEMBER 14, 2012		
08.00 - 09.00	Registration and welcome coffee & tea in the exhibition area		
Session 1:	OPENING AND KEYNOTE SPEAKERS		
09.00 – 09.15	"Welcome and introduction" Roger Burri, Co-Chairman of Electronics Recycling Asia Prof. Duan Weng, Chairman of World Recycling Forum Prof. Jinhhui Li, Chairman of Electronics Recycling Asia		
09.15 – 10.15	"Rare and precious metals recycling in E-scrap" Prof. Jinhui Li, Tsinghua University, China		
	"Global trade of metals and wastes"  Prof. Yangzu Wang, Committee of Science & Technology, Ministry of Environmental Protection, China		
10.15 – 10.45	Coffee break in the exhibition area		
10.45 – 12.00	PANEL DISCUSSION  "How rare is rare earth really?"		
	Moderator: Adam Minter, Shanghai Scrap, China		
	Participants: Christian Ekberg, Chalmers University of Technology, Sweden Crystynna Ewe, Dell, Asia Pacific & Japan Thomas Langer, OSRAM AG, Germany Prof. Jinhui Li, Tsinghua University, China Prof. Kaihua Xu, Shenzhen GEM High-Tech Co., Ltd., China		

12.00 - 13.30	Lunch
Session 2: Chairman:	Today's cutting edge recycling technology  Jeffrey Jermyn, GEEP International Inc., Canada
13.30 – 14.00	"Lamp and LCD recycling in India with Blubox" Joe Yob, Creative Recycling Systems, USA
14.00 – 14.30	"Sorting process of WEEE" Silvio Neumann, TOMRA Sorting GmbH (TITECH), Germany
14.30 – 15.00	"WEEE-treatment with impact shredding technology" Alfred Weber, BHS-Sonthofen GmbH, Germany
15.00 – 15.30	Coffee break in the exhibition area
Session 3: Chairman:	New frontiers of recycling technology Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium
15.30 – 16.00	"Evolution of machinery and processes for electronics recycling industry Nader Nejad, Electronics Recycling Services (ERS), Canada
16.00 – 16.30	"Rare earth recovery from Urban Mines: Recycling of luminescent powder from fluorescent lamps"  Thomas Langer, OSRAM AG, Germany
16.30 – 17.00	"Development of total recycling technology for flat panel display devices"  Dr Hyun Seon Hong, Institute for Advanced Engineering, Korea
17.00 – 17.30	"Sustaining electronics recycling globally: Key ingredients for a successful market" Robin Wiener, Institute of Scrap Recycling Industries, Inc. (ISRI)., USA
19.00 – 19.30	Cocktail reception in the exhibition area
19.30	Networking dinner

# **CONFERENCE PROGRAM**

### THURSDAY, NOVEMBER 15, 2012

**KEYNOTE SPEAKERS** 

Session 4:

Chairman:

07.30 – 08.30 Registration and welcome coffee & tea in the exhibition area

Paul Healey, Xstrata Copper, Canada

Thierry Van Kerckhoven, Umicore

Precious Metals Refining, Belgium

Ciraminan.	radifically, Ashara Copper, Canada			
08.30 – 09.00	"Environmental protection equipment in the field of renewable resource recycling"  Dr Paean Zhang, Hunan VARY Tech. Co., Ltd., China			
09.00 – 09.30	"The principles of proper regulation"  Crystynna Ewe, Dell, Singapore			
09.30 – 10.00	"Electronics remanufacturing & closed-loop recycling in China"  Linda Li, Li Tong Group, China			
10.00 – 10.30	Coffee break in the exhibition area			
Session 5:	How to recycle strategic metals out of E-scrap, Session Chairman: Steve Skurnac, Sims Recycling Solutions, USA	Parallel Session 5: E-scrap country reports Session Chairman: Hai Liu, IBM Corporate Environmental Affairs, China		
10.30 – 11.00	"Systematic approach on recyclability of complex waste mixtures" Christian Ekberg, Chalmers University of Technology, Sweden	"How does Taiwan recycle electronics waste?" Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan		
11.00 – 11.30	"Recovery of Nd as value added product from the magnets of hard-disk of PC's", <b>Amrita Kumari Jha, CSIR-National Metallurgical Laboratory (CSIR-NML), India</b>	"Current situation on recovery and extraction copper and precious metals from E-scrap in China", Xin Zhai, China Nonferrous Metal Industry Resource Regenerating Co., Ltd., China		
11.30 – 12.00	"Securing high quality recycling of technology metals by improving transparency and certification of recycling chains"	"Status of E-waste recycling in India and developing recycling processes at CSIR-NML, India", <b>Dr Manis Kumar</b> <b>Jha, Metal Extraction &amp; Forming</b>		

Division, CSIR-National Metallurgical

Laboratory (CSIR-NML), India

#### 12.00 - 13.30 Lunch

Session 6:	E-scrap collections: The data Session Chairman: Carl E. Smith, Call2Recycle, USA	Parallel Session 6: How to recycle lamps and other mercury containing waste Session Chairman: Stephan Schwarz, ALBA Group, Germany	
13.30 – 14.00	"How to shredder electronics scrap" Scott Newell, The Shredder Company, LLC, USA	"Development trends and desire for lamp recycling systems in China" Alistair Rinfret, Balcan Engineering Ltd., United Kingdom	
14.00 – 14.30	"European WEEE recycling standard – What will the EU WEEELABEX standard require of global recyclers?" Julie-Ann Adams, Really Green Credentials Ltd., United Kingdom	"Facts and figures about lamp recycling in Asia" Christer Sundberg, MRT System International AB, Sweden	
14.30 – 15.00	"Electronic product stewardship in Australia and New Zealand" Russ Martin, Global Product Stewardship Council, Australia	"The recycling system & risk management of the waste fluorescent lamps"  Jingdong Li, Beijing Solid Waste Management & Chemical Centre, China	
15.00 – 15.30	Coffee break in the exhibition area		
Session 7: Chairman:	E-scrap in Asia: Reports from the biggest players Prof. Duan Weng, Tsinghua University, China		
15.30 – 16.00	"World recycling E-market: A new age for renewable resources E-business" Shu Zhang, WorldScrap.com, China		
16.00 – 16.30	"Eco-friendly process for the recovery of precious metals from scrap printed circuit boards"		

Dr M.R.P. Reddy, Centre for Materials for Electronics Technology (C-MET),

16.30 – 17.00 "Plastics and precious metal refining solution for ICT industry"

Cocktail reception in the exhibition area

Hyderabad, India

from 17.00

Patrick SN Lin, Wistron, Taiwan



FRIDAY, NOVEMBER 16, 2012



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

#### Visit of the electronics recycling plant

**07.00** Departure by bus from the Shangri-La Hotel Guangzhou to E.T.M.

11.00 Arrival at E.T.M.

11.00 – 14.30 Visit of the electronics recycling plant

16.00\* Arrival at Hong Kong airport

20.00\* Arrival at the Shangri-La Hotel Guangzhou

#### 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 1'000 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

Cross-boundary tour to Hong Kong: As you will leave mainland China for this tour, please make sure that you have a valid <u>multiple</u> visa to China, if you are returning to mainland China after this plant tour.





# 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

<sup>\*</sup> No guarantee on arrival time due to traffic conditions.

FRIDAY, NOVEMBER 16, 2012



#### QINGYUAN DONGJIANG, QINGYUAN

#### Visit of the electronics recycling plant

**08.00** Departure by bus from the Shangri-La Hotel Guangzhou to

Qingyuan Dongjiang Environmental Technology

10.30 Arrival at Qingyuan Dongjiang Environmental Technology

10.30 – 13.30 Visit of the electronics recycling plant
 15.30\* Arrival at Guangzhou airport (CAN)
 16.30\* Arrival at the Shangri-La Hotel Guangzhou

**Qingyuan Dongjiang Environmental Technology Co., Ltd.** is specialized in harmless treatment, disposal and comprehensive utilization of industrial hazardous wastes. It will be the largest base of industrial hazardous waste disposal and wastes comprehensive utilization in Qingyuan upon completion.

The base occupies an area of about 84'000 square meters, equipped with advanced processing and treatment lines of the industrial hazardous wastewater, waste print circuit board (PCB) and waste fluorecent lamp.

More information at: www.dongjiang.com.cn



<sup>\*</sup> No guarantee on arrival time due to traffic conditions.

FRIDAY, NOVEMBER 16, 2012

# WISTRON SOUTH CHINA OPERATION, ZHONGSHAN



#### Visit of the electronics manufacturing plant

**08.30** Departure by bus from the Shangri-La Hotel Guangzhou to Wistron

11.00 Arrival at Wistron

11.00 – 14.30 Visit of the electronics manufacturing plant
17.00\* Arrival at the Shangri-La Hotel Guangzhou

Founded in 1999 Wistron South China Operation is one of eight 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. Our service offerings support various key market areas including cloud computing infrastructure and applications and advanced end-to-end recycling services. Wistron is a leader in the delivery of a broad range of ICT services to globally recognized clients, 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. 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 Fortune magazines' Global 500 in 2011. Wistron employs 60'000 people in over 25 offices worldwide with revenue of over US\$21 billion.

More information at: www.wistron.com

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



Wistron is an engineering-based technical service provider delivering end-to-end services to leading branded electronics companies. In 2011 we produced over 31M notebook PCs, 18M TVs/monitors, and 12M desktop/ server PCs. As a major designer, manufacturer, and after-sales service provider for electronics products we are in a prime position to support products' entire life cycle. In partnership with leading recyclers, Wistron is creating the cradle-to-cradle, closed-loop solutions to protect our planet.

Providing services worldwide, Wistron is a US\$21B company with 60,000 employees. For more information about Wistron's recycling life cycle solutions contact: GreenRecycling@wistron.com





# EXHIBITION AS PER OCTOBER 22, 2012

# **EXHIBITION AND POSTER PRESENTATIONS**







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

The fee for an exhibition stand (2 m x 3 m) throughout the whole conference is from US\$ 3'000.— and for a poster presentation from US\$ 250.—.

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





































# **NETWORKING DINNER**



On Wednesday, November 14, an unforgettable networking dinner will be organized in exciting Guangzhou.

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!



# **Upcoming ICM Events:**

17<sup>th</sup> International Congress for Battery Recycling ICBR 2012



12<sup>th</sup> International Electronics Recycling Congress IERC 2013





13<sup>th</sup> International Automobile Recycling Congress IARC 2013







- +86 182 176 289 10 (Chinese)
- +41 62 785 10 05 (Fax)

info@icm.ch www.icm.ch Registration for the conference should be made by means of the registration form. Participants registering and paying before September 30, 2012 will benefit from a reduced registration fee. The registration fee includes conference, entrance to the exhibition, proceedings and luncheons.



# **REGISTRATION FEES**

after

before

### Original electronic equipment manufacturers (OEMs)

WHO SHOULD ATTEND?

- Electronic components suppliers
- Electronic equipment importers and dealers
- Retailers
- Ferrous & non ferrous metal traders
- Collection and transportation companies
- Recycling and dismantling companies
- Shredding companies
- Plastics industry
- Non ferrous metal industry
- Ferrous and stainless steel industry
- Environmental authorities
- Universities and research institutes
- Laboratories for material science
- Consultants

#### ORGANIZER OF ELECTRONICS **RECYCLING ASIA**



**JEANETTE DUTTLINGER** Conference Organizer



**CLAUDIA GERSTENDÖRFER** Conference Assistant



YING LIU REICHENBACH Conference Assistant



MIRJAM WAGNER Conference Assistant



SUSANN **SCHMID** Conference Assistant



**SABRINA BOLLIGER** Conference Assistant

Conference Fee		Sept. 30, 2012		Sept. 30, 2012		
Participants Speakers Universities, government & authorities	US\$ US\$ US\$	1'490 990 590	US\$ US\$ US\$	1'590 1'090 690		
Networking dinner (Nov. 14, 2012) Networking dinner for spouse (Nov. 14, 2012)	US\$ US\$	100 120	US\$ US\$	120 150		
Conference registration on site US\$ 100.– surcharge						
Plant tours on Tuesday, Nov. 13, 2012 (you may choose one)						
Guangdong Mingjie, Foshan	US\$	70	US\$	90.–		
Kingfa Sci. & Tech. Co., Ltd., Guangzhou	US\$	70	US\$	90		
MBA Polymers China, Guangzhou	US\$	70.–	US\$	90.–		
Plant tours on Friday, Nov. 16, 2012 (you may choose one)						
E. Tech Management, Hong Kong*	US\$	110	US\$	130		
Qingyuan Dongjiang, Qingyuan	US\$	110	US\$	130		
Wistron South China Operation, Zhongshan	US\$	110	US\$	130		

#### Conference language and additional proceedings

The language of the conference is English and Chinese. If it is not possible for you to attend the conference, 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:

Bank: Neue Aargauer Bank, 5400 Baden, Switzerland

IBAN: CH41 0588 1044 7941 7200 1

Swift code: AHHBCH22XXX

<sup>\*</sup> Cross-boundary tour to Hong Kong: As you will leave mainland China for this tour, please make sure that you have a valid multiple visa to China, if you are returning to mainland China after this plant tour.



# THE FIRST INTEGRATED PLANT FOR MIXED LAMP AND FLAT SCREEN RECYCLING

- First fully automatic flat screen recycling plant
- Best available technology for mixed lamp recycling
- Conversion of hazardous waste into valuable raw materials
- No mercury evaporation the box has negative pressure
- Safe handling all moving parts are contained
- Easy transportation it is a 40 ft HC container
- Fast and cheap commissioning just plug in
- Low maintenance costs proven heavy duty parts



BLUBOX Trading AG developed, manufactures and sells the BLUBOX. Innovation and technology enable it to simultaneously recycle several kinds of mercurial wastes. Within the past few years the engineering team has been able to refine the BLUBOX to excellence. The idea of embedding all the equipment into a reinforced 40 ft high cube container succeeded.



#### **BLUBOX Trading AG**

Schwaderhof 7, 5708 Birrwil, Switzerland Call +41 62 785 1003, Fax +41 62 785 1004 info@blubox.ch, blubox.ch

# **SPONSORS**























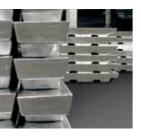














# The Swiss Depot for Industrial Metals Real values safely stored in Switzerland



We buy, store and sell physical metals and master alloys in your name. Metal Depot warehouses are solely located in Switzerland.



We are specialists for all aspects of metal trading. Our service is available for anyone who wants to invest in physical metals.



#### Contact:

Metal Depot Zurich AG Phone +41 62 765 8222 Fax +41 62 765 8223 office@metaldepot.ch

www.metaldepot.ch