

# WRF 2016

## Electronics & Cars Recycling November 15 – 18, 2016, Macau, China

Conference, exhibition and plant tours organized by  
World Recycling Forum



Conference

Circular Economy

Networking

Workshops

Plant Tours

Exhibition

### Supported by:

Basel Convention Regional Centre for Asia and the Pacific

China National Resources Recycling Association (CRRA)

Hong Kong Waste Management Association

Institute of Scrap Recycling Industries, Inc. (ISRI)

Japan Automotive Recyclers Association (JARA)

Macao International General Association of  
Environmental Protection Groups

Macao Trade and Investment Promotion Institute (IPIM)

Waste Management & Recycling Association of Singapore (WMRAS)



umicore  
Precious Metals Refining



Metal Depot



ARY 万容  
科技·环境·资源  
Technology • Environment • Resource



回珑科技  
Huilong Technology

Aurubis  
Our Copper for your Life



geep



SIMS  
RECYCLING  
SOLUTIONS



Value Recovery

MBA POLYMERS



## FOREWORD



**PROFESSOR  
JINHUI LI**


Chairman of the  
Steering Committee  
Electronics & Cars Recycling

It is my privilege to welcome you on behalf of the Steering Committee to Electronics & Cars Recycling 2016 in Macau. We appreciate your participation which will make this forum more remarkable.

Macau, located on the southeast coast of China, is a special administrative region of the country. Being Asia's well-known gambling mecca, Macau is a place to find the traditional Chinese culture while enjoying the exotic Portuguese buildings. Macau is therefore one of the most popular tourism resort in China. With an estimated population of 636,200 in an area of 30.3 km<sup>2</sup>, it is the most densely populated region in the world. The highly intensive population accompanied by the limited land area brought big challenges to the waste manage-

ment industry, especially to solid waste disposal. As the "Macau Environmental Protection Plan 2010–2020" mentioned, Macau aims to enhance their electronic and electrical waste management. By 2016, Macau has made noticeable progresses on electronic waste pollution control, such as the project of "Technology and demonstration of vehicle emission control and electronic waste pollution control in Macau" (2010–2012) and progressive effort being made on electronics and cars recycling.

The Electronics & Cars Recycling 2016 will include not only electronics recycling as usual, but also cars recycling sessions, which differs from previous years. We have invited leading recycling experts around the world – including manufacturers, recyclers, refurbishers, re-



manufacturers, recycling associations, legislators and policy-makers, to share their valuable experience, pressing issues, cutting-edge technologies, great business ideas of electronics and cars recycling. There will also be opportunities to visit actual recycling facilities to improve your understanding for what is happening inside Asia's fast-developing electronics & cars recycling industry as well as a variety of workshops. This conference is capable of providing you a platform to communicate with excellent scholars and finding you potential business partners and clients. The Electronics & Cars Recycling 2016 will be more informative, comprehensive and professional.

I wish you a great experience during your stay in Macau and please enjoy the upcoming Electronics

& Cars Recycling 2016. I am looking forward to meeting you in Macau this November.



## OPENING SPEAKER



**PROF. ZHISHI WANG**

Macau University of Science and Technology  
Macau Environmental Research Institute  
Director  
Macau

“Opening speech”



## KEYNOTE SPEAKERS

### VIVIAN TAI

Dell Inc.  
Head of Environmental Affairs &  
Producer Responsibility  
Asia Pacific & Japan  
Taiwan

“Dell’s engagement in Circular Economy”



### PROF. DUAN WENG

Chairman of WRF  
Tsinghua University, Institute for  
Energy & Environment Materials  
Director  
Chinese Materials Research Society (C-MRS)  
Vice President, China

“Outlook of the car sales and recycling  
challenges in China”



## INTERNATIONAL STEERING COMMITTEE



### **PROF. DUAN WENG**

Chairman of WRF  
Tsinghua University, Institute for  
Energy & Environment Materials  
Director, Chinese Materials  
Research Society (C-MRS),  
Vice President, China



### **PROF. JINHUI LI**

Chairman  
Basel Convention, Coordinating  
Center for Asia and the Pacific,  
Executive Director, School of  
Environment, Tsinghua University,  
Professor, China



### **ROGER BURRI**

Co-Chairman  
Metal Depot Zurich AG  
CEO  
Switzerland



### **AKIRA AKAMINE**

Anchor Network Service Inc.  
Corporate Director,  
Sales and Marketing Division  
Japan



### **KOK WAH BOEY**

HP Inc.  
Head of Environmental  
Management  
Asia Pacific and Japan



### **JEAN-PHILIPPE FUSIER**

MTB Recycling  
President  
France



### **MINORU GOKO**

NPO-JARA  
Vice President  
Nihon Automobile College  
Professor, Japan



### **PAUL HEALEY**

Glencore Canada Corporation  
Manager, Recycling  
Canada



**PROF. TRUNG HAI HUYNH**

Institute for Environment Science and Technology (INEST), Hanoi University of Science & Technology (HUST), Director, Vietnam



**PROF. HSIAO-KANG MA**

National Taiwan University  
Department of Mechanical Engineering  
Taiwan



**JEFFREY JERMYN**

GEEP International Inc.  
President  
Canada



**VENKATESHA MURTHY**

Vans Chemistry Pte. Ltd.  
Managing Director  
Singapore



**DR MANIS KUMAR JHA**

Metal Extraction & Forming Division, National Metallurgical Laboratory, Assistant Director/ Senior Scientist, India



**SCOTT NEWELL**

The Shredder Company, LLC  
Chairman and CEO  
USA



**FONS KRIST**

Aurubis AG  
Business Development  
South-East Asia, Recycling & Precious Metals, Singapore



**KAZUMI NOZAWA**

Perry Johnson Registrars, Inc.  
Director of Asia Pacific Recycling Initiatives



**DR JAE-CHUN LEE**

Korea Institute of Geoscience and Mineral Resources (KIGAM), Principal Researcher  
Korea



**SIVADASAN PANIKKER**

Ericsson Resource & Competence Center Sdn Bhd, Director,  
Ecology Management APAC  
Malaysia

# INTERNATIONAL STEERING COMMITTEE



**STEPHAN SCHWARZ**  
ALBA Group  
General Manager  
Segment Waste and Metals  
Germany



**MARK TOMASZEWSKI**  
INMETCO  
President  
USA



**STEVE SKURNAC**  
Sims Recycling Solutions  
Global President  
USA



**THIERRY VAN KERCKHOVEN**  
Umicore Precious Metals  
Refining, Global Sales Manager  
Refining, Services – Recyclables  
Belgium



**CARL E. SMITH**  
Call2Recycle, Inc.  
CEO/President  
USA



**SCOTT VENHAUS**  
Arrow Electronics, Inc.  
Director, Quality & Compliance  
Global Logistics Services  
USA



**VIVIAN TAI**  
DELL Inc., Head of Environmental  
Affairs & Producer  
Responsibility, Asia Pacific &  
Japan, Taiwan



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



**SHUJIE XU**  
China Automotive Technology  
and Research Center (CATARC),  
Automotive Data Center,  
Recycling & Utilization Data  
Department, Director, China





## MEDIA PARTNERS

---



**MANFRED BECK**  
Recycling International  
Publisher  
Netherlands



**XIN ZHAI**  
Resource Recycling  
Chief Editor  
China



**BRIAN TAYLOR**  
Recycling Today Media Group  
Associate Publisher/  
Editorial Director  
Hong Kong

## WHO SHOULD ATTEND?



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



# CONFERENCE STRUCTURE

| Time  | Room: Caspian I   | Room: Caspian II                        | Exhibition        |
|---|---|---|-------------------|
| <b>MONDAY, NOVEMBER 14, 2016</b>                |   |   |                   |
| 17.00 – 19.00                                   | Registration  |   |                   |
| <b>TUESDAY, NOVEMBER 15, 2016 – PLANT TOURS</b> |   |   |                   |
| 07.30 – 08.00                                   | Registration  |   |                   |
| 08.00 – 17.00**                                 | GAC Group, car manufacturing plant*                             |   |                   |
| 08.00 – 17.00**                                 | GISE, car dismantling plant*                                    |   |                   |
| 08.00 – 17.00**                                 | Li Tong Group, electronics recycling plant*                     |   |                   |
| 08.00 – 17.00**                                 | MBA Polymers China, plastic recycling plant*                    |   |                   |
| 08.00 – 17.00**                                 | Mingjie Group, car parts & electronics recycling plant*         |   |                   |
| 17.00 – 19.00                                   | Registration and welcome reception in the exhibition area       |   |                   |
| <b>WEDNESDAY, NOVEMBER 16, 2016</b>             |   |   |                   |
| 08.00 – 09.00                                   | Registration, welcome coffee and tea in the exhibition area     |   | <b>Exhibition</b> |
| 09.00 – 10.30                                   | Opening and Keynote Speakers                                    |   |                   |
| 10.30 – 11.00                                   | Coffee and tea break in the exhibition area                     |   |                   |
| 11.00 – 12.30                                   | Circular Economy I  | Car Recycling & Dismantling I           |                   |
| 12.30 – 14.00                                   | Lunch in the exhibition area                                    |   |                   |
| 14.00 – 15.30                                   | Company Spotlights  | Circular Economy II                     |                   |
| 15.30 – 16.00                                   | Coffee and tea break in the exhibition area                     |   |                   |
| 16.00 – 17.30                                   | Supply Chain Transparency                                       | Car Recycling & Dismantling II          |                   |
| 17.30 – 19.30                                   | "Meet your clients" reception in the exhibition area            |   |                   |
| <b>THURSDAY, NOVEMBER 17, 2016</b>              |   |   |                   |
| 08.00 – 09.00                                   | Coffee and tea in the exhibition area                           |   | <b>Exhibition</b> |
| 09.00 – 11.00                                   | Latest Technologies in Electronics Recycling I                  | Latest Technologies in Car Recycling    |                   |
| 11.00 – 11.30                                   | Coffee and tea break in the exhibition area                     |   |                   |
| 11.30 – 13.00                                   | Latest Technologies in Electronics Recycling II                 | Worldwide Policy and Legislation Issues |                   |
| 13.00 – 14.30                                   | Lunch in the exhibition area                                    |   |                   |
| 14.30 – 16.00                                   | Panel: Electronics Refurbishment: Why and how to do it          |   |                   |
| as from 16.00                                   | Bye bye bar in the exhibition area                              |   |                   |
| <b>FRIDAY, NOVEMBER 18, 2016 – WORKSHOPS</b>    |   |   |                   |
| 09.00 – 12.00                                   | Access to the Indian E-waste Market*                            |   |                   |
| 09.00 – 12.00                                   | New Modes and new Strategies of Electronics Recycling Industry* |   |                   |
| 09.00 – 12.00                                   | Used Electronics Equipment*                                     |   |                   |

China visa is required for the above plant tours

\* Plant tours and workshops will take place with a minimum of 10 participants

\*\* No guarantee on arrival time due to traffic conditions & immigration process

## ABOUT MACAU



Located close to Hong Kong on the southern tip of China, Macau is a rapidly developing modern destination with a fascinating heritage of European influence. Cotai Strip Macau, an integrated city within Macau, offers easy international access, exciting nightlife, world-class shopping and cultural richness.

Macau's historic centre is now an UNESCO World Heritage site. The blend of indigenous Chinese culture and 400 years of Portuguese colonial influence provides a truly unique cultural backdrop. Marvel at the historic ruins, mystical temples and impressive fortresses, which illustrate the evolution of dual Western and Chinese civilizations spanning over four and a half centuries. On festi-

val days, you might even catch a spectacular lion or dragon dance.

### **Population**

The total population is estimated at around 643,100. Over 90% of Macau residents are ethnic Chinese. The remaining includes Portuguese, Filipino and other nationalities.

### **Language**

Chinese and Portuguese are the official languages, Cantonese being most widely spoken. The official languages are used in government departments in all official documents and communications. English is generally used in trade, tourism and commerce.

### **Currency**

Macau Pataca (MOP) is the official currency, but Hong Kong Dollars (HKD) are also accepted.

[www.macautourism.gov.mo](http://www.macautourism.gov.mo)

## LOCATION & ACCOMODATION

Electronics & Cars Recycling will be held at the Sheraton Grand Macao Hotel, Cotai Central.

This hotel is situated on the western bank of the Pearl River Delta. Just an hour's ferry or a 15-minute helicopter ride from Hong Kong, this unique region combines a vibrant Portuguese heritage with colorful Chinese roots. Located at Sands® Cotai Central in the center of the exciting Cotai Strip®, Sheraton Macao Hotel is just steps from premier shopping, dining and entertainment.

A number of rooms are held at discounted rates for participants of the conference registering **before October 28, 2016.**

The journey from Hong Kong International Airport to Macau Taipa takes about an hour by ferry and costs approximately HK\$ 165 (US\$ 22). From Macau Taipa you can reach the Sheraton Macao Hotel either by hotel shuttle bus or by taxi.

### **Sheraton Grand Macao Hotel, Cotai Central\*\*\*\*\***

Estrada do Istmo. s/n

Cotai, Macau

Phone +853 2880 2000

Fax +853 8113 2000

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



# TRAVELLING TO MACAU

## Visa for Macau

Most nationalities can enter Macau without a visa. Please refer to the **Macau Immigration Services** for current entry requirements and visa exemptions.

### More information

[www.fsm.gov.mo](http://www.fsm.gov.mo)

## By air

### Hong Kong International Airport (HKIA)

Participants from outside of Asia are more likely to fly into Hong Kong International Airport and then take the ferry to Macau. For further information of Hong Kong ferry services, please visit the websites of **TurboJET** and **Cotai Water Jet**.

### Macau International Airport (MFM)

Participants from Asia can fly into Macau International Airport, which is located on Taipa Island and only 30 minutes from the city center. It has frequent services to different destinations in Asia. If you are flying into Macau, you can ask the hotel for a pick-up service. Taxis are conveniently available from the taxi rank outside the airport. A taxi from the airport to the town center should cost about HK\$165 (US\$ 22), surcharge and

luggage fee is also applicable. A number of buses serving the airport will criss-cross the city and stop at major hotels.

### More information

[www.macau-airport.com](http://www.macau-airport.com)

### Helicopter

Sky Shuttle runs a 15-minute helicopter shuttle service between Macau Maritime Ferry Terminal and Shun Tak Centre in Sheung Wan with daily flights. It also has a helicopter shuttle linking Macau with Shēnzhèn six times a day, the trip takes about 15 minutes.

### More information

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

## By sea

High-speed ferries to and from three locations in Hong Kong (Tsimshatsui, Sheung Wan and Hong Kong International Airport) depart every 15–30 minutes. Travel time is approximately 60 minutes. There are also services to and from Shenzhen, Guangzhou and Jiangmen.

- For Hong Kong ferry services, please visit the websites of **TurboJET** and **Cotai Water Jet**.

- For Shenzhen services, please visit the website of **TurboJET** or **Yuet Tung Shipping**.
- For Guangzhou services, please contact **TurboJET**.
- For Jiangmen services, please contact **Yuet Tung Shipping**.

Land crossings from Mainland China are made through the Border Gate to Macau Peninsula and the Lotus Bridge to Cotai. The Kee Kwan Motor Road Co. and China Travel Service (Macao) Ltd. operate a roundtrip air-conditioned bus

service from major cities in Guangdong Province to Macau. The buses arrive at Gongbei Port in Zhuhai, from where you may go through the checkpoints at GongbeiPort and Border Gate to Macau.

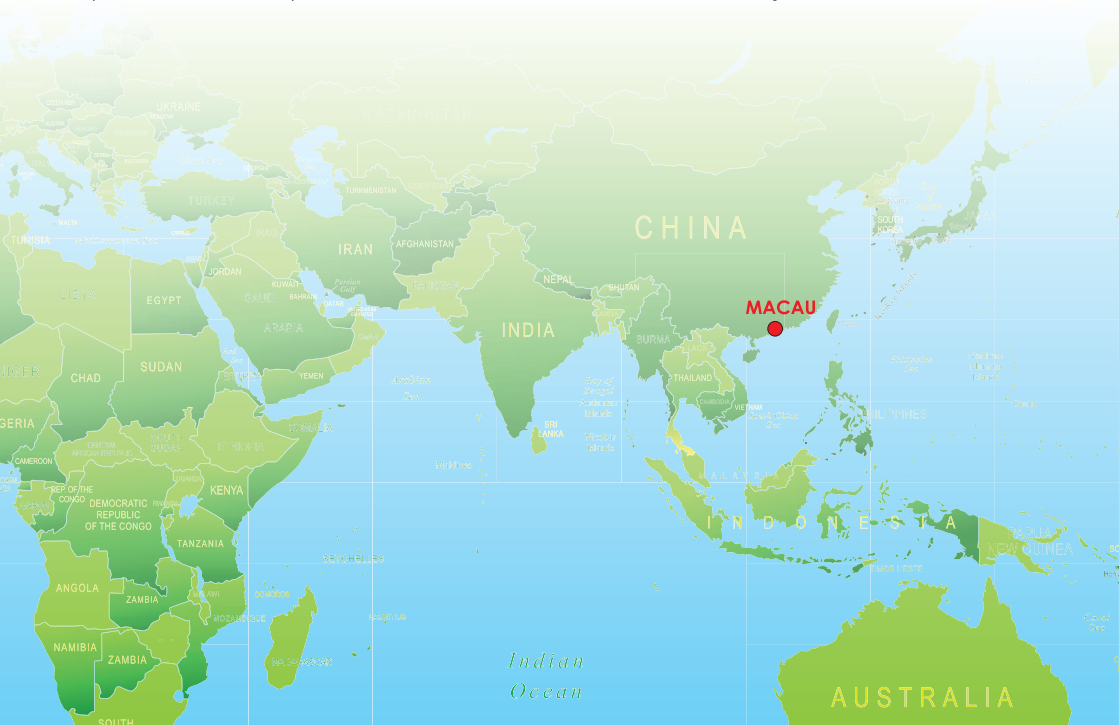
#### **More information**

[www.macautourism.gov.mo](http://www.macautourism.gov.mo)

In addition, coach companies offer direct bus services from Macau International Airport to major cities in Guangdong Province.

#### **More information**

[www.macau-airport.com](http://www.macau-airport.com)



[CHINA VISA  
IS REQUIRED!]

## PLANT TOUR

TUESDAY, NOVEMBER 15, 2016

GUANGZHOU AUTOMOBILE GROUP  
MOTOR CO., LTD.\*



### Visit of the car manufacturing plant

|               |  |
|---------------|--|
| 08.00         | Departure by bus to Guangzhou Automobile Group Motor Co., Ltd. |
| 11.00         | Arrival at Guangzhou Automobile Group Motor Co., Ltd.          |
| 11.00 – 14.00 | Visit of the car manufacturing plant                           |
| 17.00**       | Arrival at the Sheraton Grand Macao Hotel, Cotai Central       |

**Guangzhou Automobile Group Motor Co., Ltd. (GAC MOTOR)** is the implementing carrier of the OBM Project of the GAC Group. The Project represents a major initiative for the GAC Group to pursue scientific development and independent innovation, enhance its core competitiveness and achieve sustainable development. GAC MOTOR firmly commits itself to the development, manufacturing and sales of world-class quality vehicles, engines, components, auto accessories of its own brand, as well as to the research and development of automotive engineering technologies. Founded in July 2008 with a registered capital of CNY 4.222 billion, GAC MOTOR is located in Hualong Town, Guangzhou, China. The project plans to produce 400,000 vehicles and 450,000 engines annually. The world-class plant of the first phase with an annual production capacity of 100,000 vehicles and supporting engines was completed in September 2010. Since then, GAC MOTOR has introduced serial passenger cars under its own brand.

More information: [www.gac-motor.com](http://www.gac-motor.com)



China visa is required for the above plant tour  
\* Plant tours will take place with a minimum of 10 participants  
\*\* No guarantee on arrival time due to traffic conditions & immigration process



**[CHINA VISA  
IS REQUIRED!]**

## PLANT TOUR

TUESDAY, NOVEMBER 15, 2016

**GUANGZHOU METAL RECYCLING CO., LTD.\***



### Visit of the car dismantling plant

|               |  |
|---------------|--|
| 08.00         | Departure by bus to Guangzhou Metal Recycling Co., Ltd.  |
| 11.00         | Arrival at Guangzhou Metal Recycling Co., Ltd.           |
| 11.00 – 14.00 | Visit of the car dismantling plant                       |
| 17.00**       | Arrival at the Sheraton Grand Macao Hotel, Cotai Central |

**Guangzhou Metal Recycling Co., Ltd.** was established in 1977. In Guangzhou area, it is the pioneer for car & mechanical equipment dismantling, as well as metals recycling. Now it is subsidiary of Guangzhou Iron and Steel Enterprises Group Co., Ltd. The production & operation area is more than 100,000 square meters. The company has over 300 employees.

More information: [www.gise.cn/index.aspx](http://www.gise.cn/index.aspx)



China visa is required for the above plant tour

\* Plant tours will take place with a minimum of 10 participants

\*\* No guarantee on arrival time due to traffic conditions & immigration process

**[CHINA VISA  
IS REQUIRED!]**

## PLANT TOUR

TUESDAY, NOVEMBER 15, 2016

### LI TONG GROUP (JIANGMEN)\*



#### Visit of the electronics recycling plant

|               |  |
|---------------|--|
| 08.00         | Departure by bus to Li Tong Group                        |
| 11.00         | Arrival at Li Tong Group                                 |
| 11.00 – 14.00 | Visit of the electronics recycling plant                 |
| 17.00**       | Arrival at the Sheraton Grand Macao Hotel, Cotai Central |

**Li Tong Group** (LTG) offers Reverse Supply Chain Management (RSCM) solutions to OEM and enterprise customers in the Technology, Electronics and Telecom (TET) sector. We grow with our clients to expand, evolve and excel along rapid industry lifecycles, and optimize the entire value chain.

In the past 15 years, LTG has developed a network of 20+ wholly owned facilities across North America, APAC, EU and MEA, which serves more than 100 customers and employs more than 1,200 people worldwide.

Li Tong Group's business in mainland China is in charged by subsidiary facility Jiangmen Litong Environmental Technology Co., Ltd.

We transform the way the Hi-Tech industry is managing their Reverse Supply Chain and assets.

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

China visa is required for the above plant tour  
\* Plant tours will take place with a minimum of 10 participants  
\*\* No guarantee on arrival time due to traffic conditions & immigration process

# GLOBAL REVERSE SUPPLY CHAIN

OPTIMIZED



LTG offers RSCM\* solution for OEM and enterprise customers in the Technology, Electronics and Telecom (TET) sector. We are partners with the world's top Electronics Manufacturing Services (EMS).

**Let our market skills and engineering expertise help you optimize the lifecycle value of your supply chain assets with technical sophistication.**

We have the in-depth product knowledge and engineering expertise in a wide range of electronic product sectors.



Mobile Devices



Computer Products & Peripherals



Cloud/Big Data/  
Enterprise Network Equipment



Consumer Electronics



Telecom Equipment



Smart Devices & Smart Appliances



Display Systems



Imaging Products



Industrial Products



**[CHINA VISA  
IS REQUIRED!]**

## PLANT TOUR

TUESDAY, NOVEMBER 15, 2016



### **MBA POLYMERS CHINA (GUANGZHOU)\***

---

#### **Visit of the plastic recycling plant**

|               |  |
|---------------|--|
| 08.00         | Departure by bus to MBA Polymers China                   |
| 11.00         | Arrival at MBA Polymers China                            |
| 11.00 – 14.00 | Visit of the plastic recycling plant                     |
| 17.00**       | Arrival at the Sheraton Grand Macao Hotel, Cotai Central |

**MBA Polymers China** (MBAPC) is a Sino-US Joint Venture founded in January 2004, with a total investment of over US\$16 million, encompassing nearly 20,000 m<sup>2</sup> with an annual processing capacity of 40,000 tons. MBA has been recognized for its unique and patented plastics separation technology by receiving, amongst others, the Thomas Alva Edison Award for Innovation from the Edison Foundation and YEO (Young Entrepreneurs Organization) in 2002.

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

China visa is required for the above plant tour  
\* Plant tours will take place with a minimum of 10 participants  
\*\* No guarantee on arrival time due to traffic conditions & immigration process

# MBA POLYMERS

BECAUSE SUSTAINABILITY MATTERS

广州广钢MBA塑料新技术有限公司（简称MBAPC）是一家中美合资企业，成立于2004年1月，总投资1600余万美元，占地近20,000平方米，年处理混合塑料废料40,000吨。合资双方分别为中国的广州钢铁企业集团有限公司（简称GISE）和美国的MBA聚合物公司（简称MBA）。MBAPC位于广州南沙区，主要利用废弃和过时的塑料制品，实现资源再生综合利用，生产再生塑料ABS、HIPS和PP等，这些产品用途广泛，包括要求使用UL、RoHS认证产品的高端领域。

Guangzhou GISE-MBA New Plastics Technology Co., Ltd (“MBAPC”) is a Sino-US Joint Venture founded in January 2004, with a total investment of over US\$16 million, encompassing nearly 20,000 m<sup>2</sup> with an annual processing capacity of 40,000 tons. The two partners are Guangzhou Iron & Steel Enterprises Group Co., Ltd. (“GISE”) and MBA Polymers, Inc. (“MBA”). MBAPC is located in the Nansha District, Guangzhou Province and produces high quality ABS, HIPS, and PP plastic resins from end-of-life consumer products for reuse in a multitude of applications including those that require UL and RoHS recognized plastics.

MBA聚合物公司独特的塑料分离专利技术已经赢得了许多奖项，其中包括2002年获得爱迪生发明奖及年青企业家组织奖，《公司》杂志颁发的“美国最创新公司”奖，许多报刊杂志也曾对该技术作了相关报道。

MBA has been recognized for its unique and patented plastics separation technology by receiving, amongst others, the Thomas Alva Edison Award for Innovation from the Edison Foundation and YEO (Young Entrepreneurs Organization) in 2002. MBA was described by Inc. magazine as “One of America’s Most Innovative Companies”, and has been featured in numerous magazine and newspaper articles.

近年取得荣誉称号有：

Recent rewards:

1. 2011年11月16日，广州市清洁生产优秀企业称号。

Nov 16, 2011, Guangzhou Municipal Clean Production Company

2. 2012年4月29日，获得广东省清洁生产优秀企业称号。

Apr 29, 2012, Guangdong Provincial Clean Production Company

3. 2010-2011年连续两年荣获“南沙区环境友好企业”称号；

Accredited as “Environmental Friendly Company of Nansha” in 2010 and 2011

4. 2011年8月份，在中国国际贸易促进委员会主管的《国际融资》杂志上，被评选为“中国十大绿色创新企业”荣誉称号。

In Aug, 2011, granted as “China Top 10 Green Innovative Companies” in International Finance, which is a magazine of China International Trade Promotion Commission.

5. 2012年10月顺利通过德国莱茵TUV的ISO14001环境体系认证。

2012 Oct, Accredited for ISO14001 Environmental Management System by Germany TUV.

6. 2012年11月被中国废塑料协会授予“中国绿色塑料循环利用优秀企业”称号。

2012 Nov, granted as “China Excellent Green Plastics Recycling Company” by China Scrap Plastic Association.

7. MBA聚合物有限公司的创始人Mike Biddle博士获得了2012年哥德堡可持续发展奖（相当于环保领域的诺贝尔奖）

The founder of MBA Polymers Inc. Dr. Mike Biddle was awarded Goteborg Sustainable Award (Nobel Prize in Environmental)

MBAPC拥有一支150人的员工队伍，主要管理人员拥有学士和硕士学位。MBA公司在美国有一支强大的研发团队，其主要成员拥有博士学位，为MBAPC提供技术支持，努力研发新产品新技术，满足客户要求。MBAPC will employ nearly 150 people. Key management staffs have Bachelor and Master Degrees. MBA’s strong R&D team in the U.S., which includes a number of Ph.D. holders, is dedicated to supporting MBAPC, as it strives to satisfy its customers.



[CHINA VISA  
IS REQUIRED!]

## PLANT TOUR

TUESDAY, NOVEMBER 15, 2016

### MINGJIE GROUP (FOSHAN)\*



#### Visit of the car parts & electronics recycling plant

|               |  |
|---------------|--|
| 08.00         | Departure by bus to Mingjie Group                        |
| 11.00         | Arrival at Mingjie Group                                 |
| 11.00 – 14.00 | Visit of the car parts & electronics recycling           |
| 17.00**       | Arrival at the Sheraton Grand Macao Hotel, Cotai Central |

**Mingjie Group** (MJR) was founded in 1998. It's an excellent private enterprise, committing itself to the development of circular economy industry. The Headquarters are located in Foshan City. The registered capital of the Mingjie Group is 100 million RMB, the total assets are several billions RMB and the annual turnover is 7 billion RMB. The registered capital of the Mingjie Group has 25 branches, distributed in the USA, Singapore and different provinces in China. The main products of Mingjie Group include various types of aluminum products, brazing, copper, products, municipal plastic pipe, wood-plastic floor, plastic products, remanufacturing products, environmental equipment and a lot more.

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

China visa is required for the above plant tour  
\* Plant tours will take place with a minimum of 10 participants  
\*\* No guarantee on arrival time due to traffic conditions & immigration process

## 》 Important Project-- Automotive Parts Remanufacturing Project 》

Our group has a professional expert's team to control technical process and ensure the product quality up to international level. Our company cooperated with a few overseas enterprises as technical supporters, which provide customers after-sales service of international level, such as BU Drive. A technical development mode featuring the integration of international learning with research and production has been created by our company, in which the professors from university, experts in scientific research institutions and enterprise engineers make joint efforts to develop technology, engineering design, marketing operation and other scientific achievements in full-processing.



Our products, such as good as new



Turbocharger



Alternator



Engine



Starter

Our product warranty period is as same as new one. (1-2years):



BU Drive



Fraunhofer



Website: [www.cmjr.cn](http://www.cmjr.cn)  
 Trading Platform: [www.ok14.net](http://www.ok14.net)  
 Free Hotline : 400-777-3838  
 nvestment Hotline : 0757-88596800

# CONFERENCE PROGRAM

## MONDAY, NOVEMBER 14, 2016

17.00 – 19.00 Registration

## TUESDAY, NOVEMBER 15, 2016

07.30 – 08.00 Registration

17.00 – 19.00 Registration and welcome reception in the exhibition area

## WEDNESDAY, NOVEMBER 16, 2016

08.00 – 09.00 Registration, welcome coffee and tea in the exhibition area

### 09.00 – 10.30 OPENING AND KEYNOTE SPEAKERS

"Welcome and introduction"

**Prof. Jinhui Li, Chairman**  
**Roger Burri, Co-Chairman**

"Dell's engagement in Circular Economy"  
**Vivian Tai, Dell Inc.**

"Outlook of the car sales and recycling challenges in China"  
**Prof. Duan Weng, Tsinghua University, China**

10.30 – 11.00 Coffee and tea break in the exhibition area



**Session 1: Circular Economy I**  
**Session Chairman: Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan**

11.00 – 11.30 "Circular Economy in the IT industry"  
**Monina De Vera-Jacob, HP Inc., Singapore**

11.30 – 12.00 "Circular Economy in China"  
**Prof. Jinhui Li, Tsinghua University, China**

12.00 – 12.30 "Circular Economy challenges for developing nations – Indian context"  
**Dr Lakshmi Raghupathy, Advisor/ Consultant Environment & Waste Management, India**

**Session 2: Car Recycling & Dismantling I**  
**Session Chairman: Prof. Duan Weng, Tsinghua University, China**

"EPR requirements of automotive industry in China and the tendency analysis", **Jing Chai, China Automotive Technology and Research Center (CATARC), China**

"Present auto-recycling business and future trend in Japan", **Minoru Goko, NPO – JARA (Japan Automotive Recyclers Association), Japan**

"China ELV & E-waste recycling now and prospect"  
**Jun Zhou, Hunan Vary Tech Co., Ltd., China**

12.30 – 14.00 Lunch in the exhibition area



**Session 3: Company Spotlights**  
**Session Chairman: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore**

- 14.00 – 14.30 "WEEE Management in Hong Kong – Progress towards sustainable future"  
**Nigel Mattravers and Stephan Schwarz, ALBA Integrated Waste Solutions, Hong Kong**
- 14.30 – 15.00 "From printed circuit board back to metal, a comparison from around the world"  
**Fons Krist, Aurubis AG, Singapore**
- 15.00 – 15.30 "The right business model for a circular loop?"  
**Rasmus Bergström, Stena Techno-world AB, Sweden**

**Session 4: Circular Economy II**  
**Session Chairman: Vivian Tai, Dell Inc.**

- "Status and forecast of the HV-battery collection and recycling in China – Volkswagen experience"  
**Wei Sun, Volkswagen (China) Investment Co., Ltd., China**
- "Safe transportation of Li batteries"  
**Johan Van Peperzeel, Van Peperzeel B.V., Netherlands**
- "Repair and recycling metrics – Applicability and drawbacks of current methods",  
**Dr Haley Fu, iNEMI – International Electronics Manufacturing Initiative, China**

**15.30 – 16.00 Coffee and tea break in the exhibition area**

**Session 5: Supply Chain Transparency**  
**Session Chairman: Prof. Jinhui Li, Tsinghua University, China**

- 16.00 – 16.30 "Tracing management of disposed End-of-Life consumer electronics"  
**Prof. Hyunsoo Kim, Kyonggi University, Korea**
- 16.30 – 17.00 "Bridging the digital gap and recycling of electronic waste by Chilenter Foundation",  
**Irina Reyes Donoso, Fundacion Chilenter, Chile**
- 17.00 – 17.30 "Managing the E-waste crisis"  
**Terry Boboige, Perry Johnson Registrars, Inc., USA**
- 17.30 – 18.00 "The e-Trash Transparency Project: Tracking e-Waste Using GPS Geo-Location Technology"  
**Jim Puckett, Basel Action Network (BAN), USA**

**Session 6: Car Recycling & Dismantling II**  
**Session Chairman: Stephan Schwarz, ALBA Group, Germany**

- "Renovating metal recycling equipment & serving for circular economy"  
**Rodriguez Salome Juan, Hubei Lidi Machine Tool Co., Ltd., China**
- "Create value from ASR (Automobile Shredder Residue)",  
**Chen Liu, BHS-Sonthofen (Tianjin) Machinery Co., Ltd., China**
- "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**

**17.30 – 19.30 "Meet your clients" reception in the exhibition area**

# CONFERENCE PROGRAM

THURSDAY, NOVEMBER 17, 2016

08.00 – 09.00 Coffee and tea in the exhibition area

|               |   |   |
|---------------|---|---|
|               | <p><b><u>Session 7: Latest Technologies in Electronics Recycling I</u></b><br/><b>Session Chairman: Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium</b></p> | <p><b><u>Session 8: Latest Technologies in Car Recycling</u></b><br/><b>Session Chairman: Minoru Goko, NPO – JARA (Japan Automotive Recyclers Association), Japan</b></p> |
| 09.00 – 09.30 | <p>“Recycling and sorting of hazardous materials”<br/><b>Andreas Krebs, BLUBOX Trading AG, Switzerland</b></p>  | <p>“Plastics recovered from shredded waste electrical and electronics equipment”<br/><b>Brian Riise, MBA Polymers Inc., USA</b></p>                                       |
| 09.30 – 10.00 | <p>“Wonderfully Engineered, Efficient and Effective (WEEE) electrostatic separation technologies for WEEE”<br/><b>Chee Kiong Lee, hamos GmbH, Germany</b></p>                 | <p>“The gentle way to success! Key factors for highly efficient regrind recycling”<br/><b>Clemens Kitzberger, EREMA, Austria</b></p>                                      |
| 10.00 – 10.30 | <p>“Experience on E-waste recycling”<br/><b>Leimen Zhang, Guangzhou 3E Machinery, China</b></p>   | <p>“Used engine oil recycling development and challenges in Hong Kong and Asian regions”<br/><b>Victor C. Li, Dunwell Group, Hong Kong</b></p>                            |
| 10.30 – 11.00 | <p>“The E-scrap market in China – Experience sharing of a Western smelting company”, <b>Elwin Meng, Umicore Greater China, China</b></p>                                      | <p>“Development and current status of Korea's automobile recycling system”<br/><b>Sin-Won Oh, Recycle Park Co., Ltd., Korea</b></p>                                       |

11.00 – 11.30 Coffee and tea break in the exhibition area

**Session 9: Latest Technologies in Electronics Recycling II**

**Session Chairman: Brian Taylor, Recycling Today Media Group, Hong Kong**

11.30 – 12.00 "To shred, smelt or dismantle? Methods to reduce the cost of precious metal recovery from low value circuit boards"  
**Mark Matza, Fortune Group, USA**

12.00 – 12.30 "Environmentally sound methods for recovery of metals from scrapped printed circuit boards"  
**Peethambaram Parthasarathy, E-Parisaraa Pvt. Ltd., India**

12.30 – 13.00 "E-waste is a boon: Indian trend of handling E-waste"  
**Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore**

**Session 10: Worldwide Policy and Legislation Issues**

**Session Chairman: Kazumi Nozawa, Perry Johnson Registrars, Inc.**

"There's something in the air at electronics facilities – and it is not all good!"  
**Terry Cirone, Institute of Scrap Recycling Industries, Inc. (ISRI), USA**

"A comparison of worldwide standards; R2, e-Stewards, WEEELABEX and PAS 141"  
**Dwight Clark, Full Circle Compliance LLC, USA**

"Overview of data security and privacy requirements; auditing challenges and best practices for E-waste recyclers"  
**Ashit V. Dalal, eDelta Consulting, Inc., USA**

**13.00 – 14.30 Lunch in the exhibition area**

**14.30 – 16.00 Panel: Electronics Refurbishment: Why and how to do it**  
**Moderator: Darrell Kendall, RIOS – Recycling Industry Operating Standard, USA**

"Obtaining and maintaining compliance"  
**Eric Capps, Arrow Electronics, Inc., USA**

"The art of imaging"  
**Laurent Kitzinger, SoftThinks, USA**

"Reuse resources"  
**Sarah Cade, PC Rebuilders & Recyclers, USA**

**As from 16.00 Bye bye bar in the exhibition area**



## WORKSHOPS

FRIDAY, NOVEMBER 18, 2016

Take the chance and participate at one of the following workshops:

09.00 – 12.00 **Access to the Indian E-waste Market\***



Moderator: Dr Lakshmi Raghupathy  
Organized by: Dr Lakshmi Raghupathy,  
Advisor/Consultant Environment & Waste Management, India



09.00 – 12.00 **New Modes and new Strategies of Electronics Recycling Industry\***



Moderator: Prof. Jinhui Li, Tsinghua University, China  
Organized by: Basel Convention Regional Centre for Asia and the Pacific/Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology in Asia and the Pacific



09.00 – 12.00 **Used Electronics Equipment – There's something in the air and it's not all good\***



Moderator: Terry Cirone  
Organized by: Institute of Scrap Recycling Industries, Inc. (ISRI)

\*Workshops will take place with a minimum of 10 participants at the Sheraton Grand Macao Hotel.

# WORKSHOP



## Access to the Indian E-waste Market

|                     |  |
|---------------------|--|
| <b>Moderated by</b> | Dr Lakshmi Raghupathy  |
| <b>Date</b>         | Friday, November 18, 2016  |
| <b>Time</b>         | 9.00 – 12.00   |
| <b>Location</b>     | Sheraton Grand Macao Hotel   |
| <b>Price</b>        | US\$ 150.– per person<br>before September 30, 2016 (early bird)<br>US\$ 180.– per person<br>after September 30, 2016 |

### E-WASTE BUSINESS OPPORTUNITIES IN INDIA

- E-waste market – Global & Indian
- Policies & regulations – Compliances
- Global transactions – Facilitating permits & licenses
- Environmentally safe technologies for precious metal recovery
- E-waste business models

### WHO SHOULD ATTEND THE WORKSHOP?

- Industries, institutions, individuals
- Recyclers (formal and informal)
- Exporters & importers
- Policy makers & regulators
- Academicians & researchers
- NGOs & environmentalists

Institutions  
Individuals

Industry  
Recyclers

Workshop

Regulators

Academia

Limited seats – Please register by using ICM AG registration form

The workshop will only take place with a minimum of 10 participants.

# WORKSHOP



## ***NEW MODES AND STRATEGIES OF ELECTRONICS RECYCLING INDUSTRY IN ASIA***

### ***Main Topics:***

- The demand and prospect of deep utilization of WEEE in China
- Experience sharing on South-South cooperation in Electronics Recycling Industry
- The investment and financing prospect of Electronics Recycling Industry
- New opportunity and challenge of Electronics Recycling Industry
- New Modes and Strategies of Electronics Recycling Industry in Asia
- Investment climate of Electronics Recycling Industry in China

### ***Who should attend the workshop?***

- Industries, institutions, individuals
- Recyclers, deep processor
- Investment and financing institutions
- Policy makers & regulators
- Academicians & researchers
- NGOs & environmentalists

|                      |   |  |
|----------------------|---|--|
| <b>Moderated by:</b> | Prof. Li Jinhui   |  |
| <b>Date:</b>         | Friday, November 18, 2016   |  |
| <b>Time:</b>         | 09.00 – 12.00h  |  |
| <b>Location:</b>     | Sheraton Grand Macao Hotel  |  |
| <b>Price:</b>        | US\$ 150.– per person   | before September 30, 2016 (early bird) |
|                      | US\$ 180.– per person   | after September 30, 2016               |
| <b>Organizer:</b>    | * Basel Convention Regional Centre for Asia and the Pacific   |  |
|                      | * Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology in Asia and the Pacific |  |
|                      | * China National Resources Recycling Association  |  |

Limited seats – Please register by using ICM AG registration form  
The workshop will only take place with a minimum of 10 participants.



# USED ELECTRONICS EQUIPMENT

---

There's something in the air  
and it's not all good.

**JOIN US** as we discuss the health and safety hazards facing employees who perform recycling of electronics. Many recycled electronics can contain hazardous materials. Learn effective engineering controls and work practices to handle these hazardous materials safely. **DON'T MISS** the discussion of safety principles that can be applicable in any yard or operation, anywhere in the world.

## WHO SHOULD ATTEND THIS WORKSHOP:

EHS Managers | EHS professionals

Facility and Operations Managers | Engineering Managers

### MODERATED BY:

Terry Cirone

### DATE:

Friday, November 18, 2016

### TIME:

9.00 - 12.00

### LOCATION:

Sheraton Grand Macao Hotel

### PRICE:

US\$ 150. - per person before  
September 30, 2016 (early bird)  
US\$ 180. - per person after  
September 30, 2016

ICM AG  
International  
Congress & Marketing  
Schwaderhof 7  
5708 Birrwil, Switzerland  
+41 62 785 10 00  
+86 182 176 289 10 (Chinese)  
+41 62 785 10 05 (Fax)

info@icm.ch  
www.icm.ch



## ORGANIZER



**JEANETTE  
DUTTLINGER**  
Conference Organizer



**SIBYLLE  
WIEDERKEHR**  
Conference Assistant



**MELANIE  
LEIBUNDGUT**  
Conference Assistant



**YING  
LIU REICHENBACH**  
Conference Assistant



**SUSANN  
SCHMID**  
Conference Assistant



**MIRJAM  
TRAUB-WAGNER**  
Conference Assistant



**SABRINA  
EPP**  
Conference Assistant



**JULIA  
MOSER**  
Conference Assistant



**SANDRA  
MANNHART**  
Conference Assistant



**ANNA ROSA  
BAUMANN**  
Conference Assistant



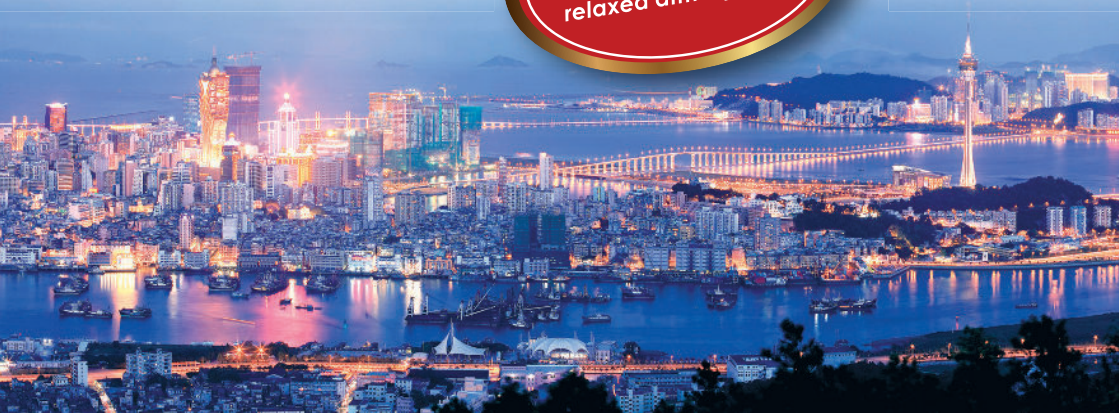
## MEET YOUR CLIENTS RECEPTION

On Wednesday, November 16, 2016, a great "meet your clients" reception will be organized in exciting Macau.

Do not miss this perfect opportunity to socialize and network with your business partners!



Meet friends and  
business partners in a  
relaxed atmosphere!



# EXHIBITION, DISPLAY BOARD & POSTER PRESENTATION



The exhibition area provides your company with the perfect opportunity to reach key industry decision makers. Promote your products to all conference attendees. The fees for an exhibition booth for the duration of the conference are:

|  |                         |                  |                     |
|--|-------------------------|------------------|---------------------|
| <b>Booth</b>                             | <b>6 m<sup>2</sup></b>  | <b>2 m x 3 m</b> | <b>US\$ 3'650.-</b> |
| <b>Booth</b>                             | <b>12 m<sup>2</sup></b> | <b>3 m x 4 m</b> | <b>US\$ 4'990.-</b> |
| <b>Display board (board printing)</b>    |                         |                  | <b>US\$ 690.-</b>   |
| <b>Poster presentation (wall rental)</b> |                         |                  | <b>US\$ 350.-</b>   |

Space is limited, so take your chance and book today!





## EXHIBITORS AS PER AUGUST 12, 2016



## Upcoming ICM Events:

[www.icm.ch](http://www.icm.ch)

### 21<sup>st</sup> International Congress for Battery Recycling ICBR 2016

ICBR  
2016



September 14 – 16, 2016  
Antwerp, Belgium



### 16<sup>th</sup> International Electronics Recycling Congress IERC 2017

IERC  
2017



January 17 – 20, 2017  
Salzburg, Austria



### 17<sup>th</sup> International Automobile Recycling Congress IARC 2017

IARC  
2017



March 22 – 24, 2017  
Berlin, Germany



REGISTER BY  
SEPT. 30, 2016  
AND PROFIT FROM  
DISCOUNTED RATES

Participants registering and paying **before September 30, 2016** will benefit from a reduced registration fee. The registration fee includes conference, entrance to the exhibition, proceedings and luncheons.

## REGISTRATION FEES

|  | <b>before<br/>Sept. 30, 2016</b> | <b>after<br/>Sept. 30, 2016</b> |
|--|----------------------------------|---------------------------------|
| <b>Conference Fee</b>  |                                  |                                 |
| Participants   | US\$ 1'590.–                     | US\$ 1'690.–                    |
| Speakers   | US\$ 990.–                       | US\$ 1'090.–                    |
| Universities, government & authorities                         | US\$ 690.–                       | US\$ 790.–                      |
| <b>Tuesday, Nov. 15, 2016 – Plant tours</b>                    |                                  |                                 |
| GAC Group  | US\$ 150.–                       | US\$ 180.–                      |
| GISE   | US\$ 150.–                       | US\$ 180.–                      |
| Li Tong Group  | US\$ 150.–                       | US\$ 180.–                      |
| MBA Polymers China   | US\$ 150.–                       | US\$ 180.–                      |
| Mingjie Group  | US\$ 150.–                       | US\$ 180.–                      |
| <b>Friday, Nov. 18, 2016 – Workshops</b>                       |                                  |                                 |
| Access to the Indian E-waste Market                            | US\$ 150.–                       | US\$ 180.–                      |
| New modes and new strategies of electronics recycling industry | US\$ 150.–                       | US\$ 180.–                      |
| Used electronics equipment                                     | US\$ 150.–                       | US\$ 180.–                      |

Conference registration on site US\$ 100.– surcharge

### Online registration

You may also register online at: [www.icm.ch/wrf-2016](http://www.icm.ch/wrf-2016)

### Conference language and additional proceedings

The language of the conference is English. If you cannot attend the conference, you may purchase the complete proceedings at US\$ 350.–. Participants will get the proceedings free of charge.

### Payment

Payment should be made in US\$ by bank transfer or by credit card.

SPONSORS:

