

# WRF 2014

## ELECTRONICS RECYCLING ASIA

November 11 – 14, 2014, Singapore

organized by World Recycling Forum



- Conference
- E-scrap
- Circular Economy
- Networking
- Workshops
- Plant Tours
- Exhibition

### Supported by:

National Environment Agency (NEA), Singapore  
China Nonferrous Metals Industry Association Recycling Metal Branch  
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  
Waste Management and Recycling Association of Singapore (WMRAS)



## FOREWORD



### PROFESSOR JINHUI LI

Chairman of the Steering  
Committee  
Electronics Recycling Asia

Located in Southeast Asia, Singapore has a land area of about 710 square kilometers, making her one of the smallest countries in the world. Although small in size, Singapore commands an enormous presence in the world today with its free trade economy and highly efficient workforce. It is well-known that Singapore is the world's fourth leading financial center and its port is one of the five busiest ports in the world; also, it is a bustling cosmopolitan city of high-rise buildings, landscaped gardens and heritage-rich precincts. Known as "the garden city", Singapore always keeps green development and sustainable development in mind, making the fast running city an eco-harmonious paradise. Recent years, Singapore is committed to the development of green economy and it has made remarkable achievements in the development

of clean energy, water resources development and utilization, waste treatment as well as the promotion of green construction. Especially Singapore has E-waste recycling facilities with high technology and management level, which fully fit the subject of the forum. Last year, the Electronics Recycling Asia WRF 2013 had its successful conference in Singapore. It is proved that the country has a useful run at hosting the forthcoming Electronics Recycling Asia WRF 2014. And we have every reason to believe that WRF 2014 held in Singapore will show you a more professional, comprehensive and unforgettable conference. Electronics Recycling Asia WRF 2014 is a top quality conference with leading recycling experts from around the world – including manufacturers, collectors, processors, steelmakers, legislators and policy-makers. World-

wide take back schemes and challenges of OEMs and strategic metals recycling (PGM, rare earth elements) will be discussed. The conference is a platform to exchange information, to meet new business partners and to get easy access to new potential clients. You can meet your clients in the exhibition area and you will have the chance visiting electronic recycling companies in Singapore. You can learn the best available recycling technologies of hazardous containing scraps and batteries out of E-scrap from the speakers and exhibitors of the conference. You are welcomed to the forthcoming Electronics Recycling Asia WRF 2014 and I do wish you enjoy the exhilarating, modern and unforgettable city together with the extraordinary conference in Singapore.



## KEYNOTE SPEAKERS



**RONNIE TAY**

National Environment Agency (NEA)  
CEO  
Singapore

“Opening Speech”

**JIM PUCKETT**

Basel Action Network (BAN)  
Executive Director  
USA

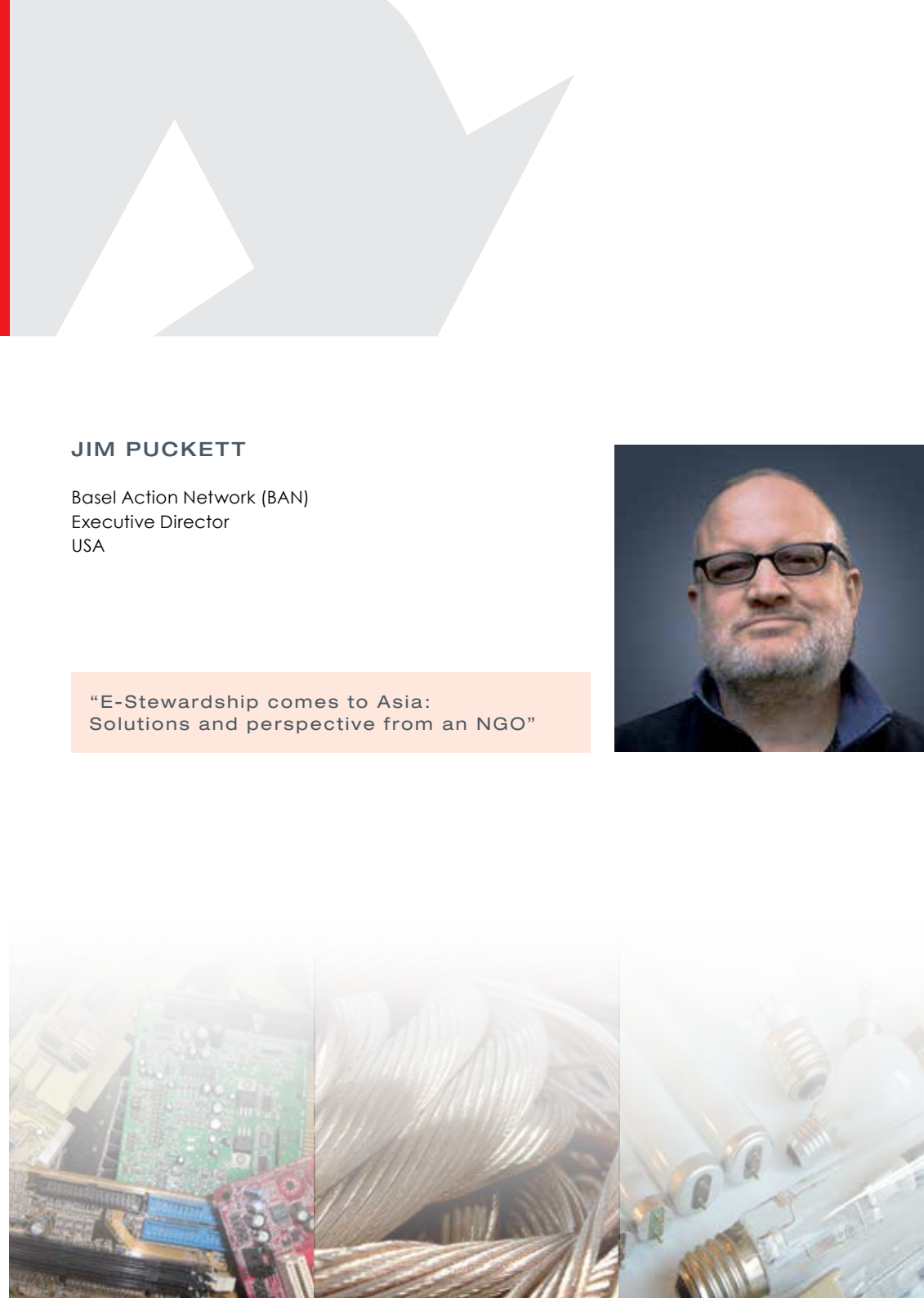
“E-Stewardship comes to Asia:  
Solutions and perspective from an NGO”



**PROF. JINHUI LI**

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

“The demand and transfer mechanism  
of technology & equipment of E-waste  
recycling in Asia”



## INTERNATIONAL STEERING COMMITTEE

### CHAIRMAN



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

### CO-CHAIRMAN



**ROGER BURRI**  
Air Mercury AG  
President  
Switzerland

### MEMBERS



**KOK WAH BOEY**  
Hewlett-Packard Company  
Head of Environmental  
Management  
Asia Pacific and Japan



**CRYSTYNNA EWE**  
Dell  
Asia-Pacific & Japan  
Director Global Take Back



**JEAN-PHILIPPE FUSIER**  
MTB Recycling  
President  
France



**PAUL HEALEY**  
Glencore Xstrata plc  
Manager, 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



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



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



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



**CHEE HONG MOK**  
Fuji Xerox Singapore  
Business Development Manager/  
Sustainability Ambassador  
Singapore



**VENKATESHA MURTHY**  
Vans Chemistry Pte. Ltd.  
Managing Director  
Singapore



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



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

## INTERNATIONAL STEERING COMMITTEE



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



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



**STEVE SKURNAC**  
Sims Recycling Solutions Global  
President  
United Kingdom



**CARL E. SMITH**  
Call2Recycle®  
CEO/President  
USA



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



**MARK R. TOMASZEWSKI**  
INMETCO  
President  
USA



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



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



**JOSEPH C. YOB, JR.**  
Three S International, LLC  
Vice President of Research and  
Technology  
USA

## MEDIA PARTNERS



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



**STEPHAN KRAFZIK**  
Recyclingportal 320°  
Publisher & Chief Editor  
Germany



**ADAM MINTER**  
Bloomberg View  
Freelance Recycling  
Industry Journalist  
Malaysia



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



**XIN ZHAI**  
Resource Recycling  
Chief Editor  
China

## CONFERENCE STRUCTURE

## LOCATION & ACCOMODATION



Electronics Recycling Asia will be held from **November 11 – 14, 2014** in the Shangri-La Hotel Singapore.

Arriving at Shangri-La Hotel Singapore, you will leave the hustle and bustle of the city behind you. Set amidst 15 acres of lush greenery, Shangri-La Hotel Singapore is a place like no other. This is where the legendary Asian hospitality of Shangri-La began more than 40 years ago, and the story continues with you. With luxury guestrooms and suites in three distinctive wings, serviced apartments and luxury residences in four-storey villas, this is where you will find your own Shangri-La.



For the participants of the conference a number of rooms are held at a discounted rate, if you register before October 31, 2014. If you wish, you may also extend your stay at this beautiful hotel at the same rate.

### Shangri-La Hotel Singapore\*\*\*\*\*

22 Orange Grove Road  
258350 Singapore

Phone +65 6737 3644

Fax +65 6737 3257

[www.shangri-la.com/singapore/shangrila](http://www.shangri-la.com/singapore/shangrila)



### TUESDAY, NOVEMBER 11, 2014 / PLANT TOUR

11.00 – 19.00	Registration
12.30 – 17.00	Plant tour Cimelia Resource Recovery Pte. Ltd.
17.00 – 19.00	Welcome reception in the exhibition area
19.00	Steering Committee Meeting (I)

### WEDNESDAY, NOVEMBER 12, 2014 / CONFERENCE & EXHIBITION

08.00 – 09.00	Registration and welcome coffee in the exhibition area
09.00 – 12.30	Keynote Speakers & Panel Discussion
12.30 – 14.00	Lunch in the exhibition area
14.00 – 15.30	How can OEMs close the recycling loop?
14.00 – 17.00	Company spotlight talks in the exhibition area
19.00	Cocktail reception & networking dinner

### THURSDAY, NOVEMBER 13, 2014 / CONFERENCE & EXHIBITION

08.00 – 09.00	Welcome coffee in the exhibition area
09.00 – 10.00	The continuing challenge of the informal recycling sector
10.30 – 12.30	Recycling of Precious Metals
12.30 – 14.00	Lunch in the exhibition area
14.00 – 15.30	E-scrap business reports
15.30	Farewell cocktail in the exhibition area
17.00	Steering Committee Meeting (II)

### FRIDAY, NOVEMBER 14, 2014 / PLANT TOUR, WORKSHOPS & SIGHTSEEING TOUR

09.00 – 12.00	Workshop "Cenelec Standard" The new European Recycling Standard	
09.00 – 12.00	Workshop "E-Stewards" A world of difference	
09.00 – 12.00	Workshop "The R2 Certification" Globally responsible electronics reuse and recycling	
09.45 – 15.15	Plant tour ECO Special Waste Management Pte. Ltd.	13.00 – 17.00 Sightseeing tour Singapore

## COSMOPOLITAN SINGAPORE



Singapore's economic achievements have been remarkable, yet the island has not been overwhelmed by development. Visitors will discover a wealth of historical treasures from the past. From the beauty of older buildings, to values and traditions that have survived modernization, you will find Singapore both unique and surprising. Singapore is a bustling cosmopolitan city that offers a world-class living environment, with her landscape populated by high-rise buildings and gardens.

If you are only going to be in Singapore for a few days, you might want to extend your trip. There are just so many places to see and things to do. For art aficionados, there are museums and galleries to visit, while history buffs can explore history museums and heritage

centres. Party animals can revel in a colourful nightlife scene, nature lovers can immerse in the many rainforests and gardens available, and sports enthusiasts can look forward to sporting action. And the whole family can spend time together at theme parks.

Your trip here is not completed till you've tried the various cuisines and signature dishes. To begin with, there is a wide variety of cuisines for you to choose from but the main ones are Chinese, Malay, Indian and Peranakan. Some of the must-try dishes include Hainanese Chicken Rice, Nasi Lemak, Fish Head Curry, and Ayam Buah Keluak. They are sure to leave you lip-smacking, if not full with delight. So get ready for a sumptuous feast, and delight your taste buds.

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

## TRAVELLING TO SINGAPORE

### Visa for Singapore

Most nationalities can enter Singapore without a visa. Please refer to the Immigration and Checkpoints Authority for current guidelines, including a list of the 30+ nationalities that are required to obtain a visa in advance.

**More information:** [www.ica.gov.sg](http://www.ica.gov.sg)

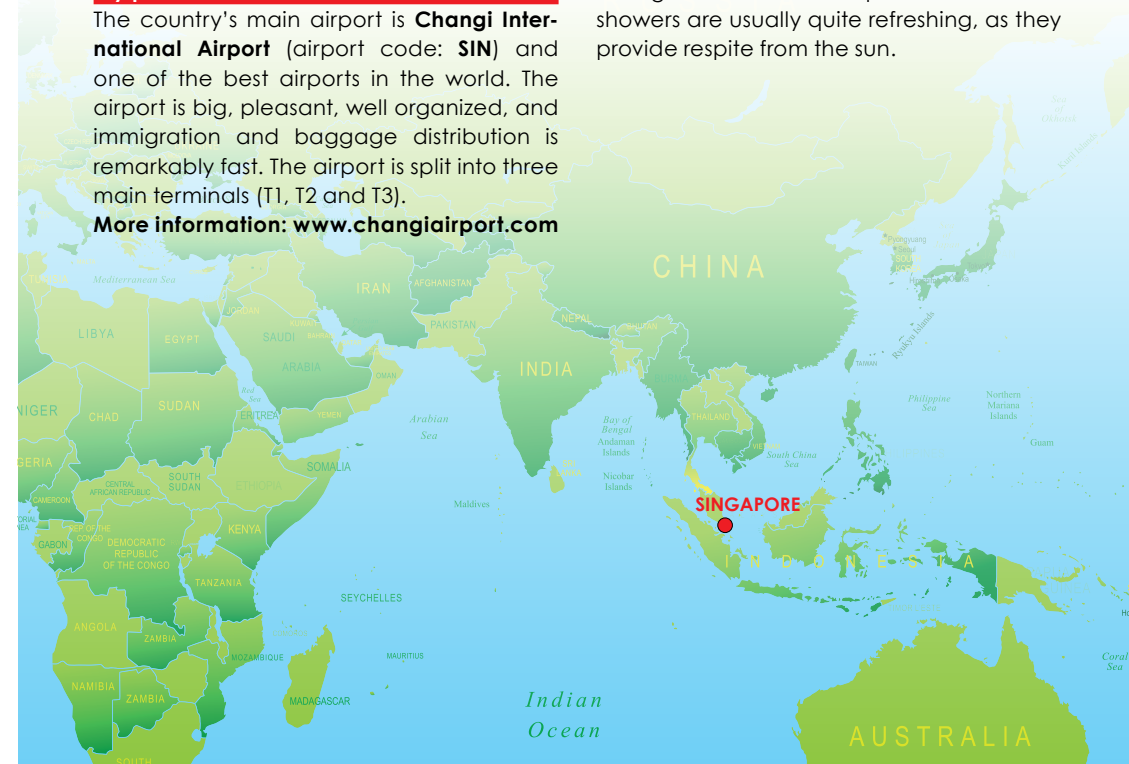
### By plane

The country's main airport is **Changi International Airport** (airport code: **SIN**) and one of the best airports in the world. The airport is big, pleasant, well organized, and immigration and baggage distribution is remarkably fast. The airport is split into three main terminals (T1, T2 and T3).

**More information:** [www.changiairport.com](http://www.changiairport.com)

### Weather / climate

Singapore is characterized by a hot and humid climate. Located just 1 degree north of the equator, it quite naturally enjoys a **tropical/equatorial climate**. The island does not have clear-cut seasons like summer, spring, autumn and winter. The weather is warm and humid all year round. Rainfall is almost an everyday phenomenon, even during the non-monsoon period. These brief showers are usually quite refreshing, as they provide respite from the sun.



## PLANT TOUR

TUESDAY, NOVEMBER 11, 2014

CIMELIA RESOURCE RECOVERY PTE. LTD.



### Visit of the electronics recycling plant

**12.30** Departure by bus to Cimelia Resource Recovery Pte. Ltd.  
**13.30** Arrival at Cimelia Resource Recovery Pte. Ltd.  
**13.30 – 16.00** **Visit of the electronics recycling plant**  
**17.00\*** Arrival at the Shangri-La Hotel Singapore

**Cimelia Resource Recovery** was incorporated in Singapore in 2004. Cimelia provides comprehensive recycling solutions for any occurrence of Waste Electrical and Electronic Equipment (WEEE). Our services range from precious metal recovery from production waste to intellectual propriety destruction. Besides precious metal recovery, we deal with a range of materials like ferrous and non-ferrous scraps to plastics, these, being mentioned are some of which we are dealing with.

Cimelia always strives to offer its clients maximum returns for their material and equipment with the use of our state of the art recycling technologies.

Recognized by Singapore's National Environmental Agency as one of the biggest E-waste Management and recycling facility in Singapore, Cimelia occupies a land area of 200'000 sq ft. At this facility we have a diverse range of equipment such as White Goods Recycling Plant, Mechanical Crushing Plant with online sampling as well as a full precious metal recovery facility capable of recovering Gold, Silver, Platinum and Palladium. Not only that, we operate our own in-house lab for material analysis as well as process control.

Cimelia has a comprehensive Quality Environment and Health and Safety program encompassing ISO9001, EMS 14001, OSHAS 18001 as well as R2 certified and BizSafe. Serving clients from all over the world, Cimelia is fully licensed and compliant with international waste shipment regulations, providing our clients peace of mind in dealing with us.

Please visit our web page at: [www.cimeliaglobal.com](http://www.cimeliaglobal.com)

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

**Cimelia 希世环保**  
The SMART Answer to  
Recycling Technology

ISO 9001:2008 • ISO 14001:2004 • OSHAS 18001:2007 • Responsible Recycling (R2) Rev. 11/2013

ANAB  
bizSAFE



# CONFERENCE PROGRAM



## TUESDAY, NOVEMBER 11, 2014

- 11.00 – 19.00 Registration
- 12.30 – 17.00 Plant tour to Cimelia Resource Recovery Pte. Ltd., Singapore
- 17.00 – 19.00 Welcome reception in the exhibition area

## WEDNESDAY, NOVEMBER 12, 2014

- 08.00 – 09.00 Registration and welcome coffee in the exhibition area

### 09.00 – 10.30 OPENING AND KEYNOTE SPEAKERS

"Welcome and introduction"

**Roger Burri, Co-Chairman of Electronics Recycling Asia**

"Opening Speech"

**Ronnie Tay, National Environment Agency (NEA), Singapore**

"The demand and transfer mechanism of technology & equipment of E-waste recycling in Asia"

**Prof. Jinhui Li, Tsinghua University, China / Basel Convention Regional Center for Asia and the Pacific**

"E-Stewardship comes to Asia: Solutions and perspective from an NGO"

**Jim Puckett, Basel Action Network (BAN), USA**

- 10.30 – 11.00 Coffee break in the exhibition area

11.00 – 12.30

### Panel Discussion:

"Do we need to regulate our recycling businesses even more?"

**Moderator: Adam Minter, Bloomberg View, Malaysia**

### Participants:

**Kok Wah Boey, Hewlett-Packard Asia Pacific and Japan, Singapore**

**Jim Puckett, Basel Action Network (BAN), USA**

**Steve Skurnac, Sims Recycling Solutions Global, United Kingdom**

**Robin Wiener, Institute of Scrap Recycling Industries, Inc. (ISRI), USA**

**Yang Yang, Loyalty Equipment-Making (Sichuan) Co., Ltd., China**

12.30 – 14.00

Lunch in the exhibition area

14.00 – 17.00

Company spotlight talks in the exhibition area

### Session 1:

Session Chairman:

### How can OEMs close the recycling loop?

**Joseph Yob, 3S International, LLC, USA**

14.00 – 14.30

"Ericsson product take-back in Asia and globally"

**Stephen Rodgers, Ericsson, Sweden**

14.30 – 15.00

"Closed loop recycling"

**Crystynna Ewe, Dell, Singapore**

15.00 – 15.30

"HP recycling solution in Asia Pacific"

**Monina De Vera-Jacob, Hewlett-Packard Asia Pacific Pte. Ltd., Singapore**

15.30 – 16.00

Coffee break in the exhibition area

19.00 – 19.30

Cocktail reception in the exhibition area

19.30

Networking dinner



# COMPANY SPOTLIGHT TALKS IN THE EXHIBITION AREA

# NETWORKING DINNER

WEDNESDAY, NOVEMBER 12, 2014

14.00 – 17.00

### Company spotlight talks

"The way to grow in recycling through partnering. Step by step solution"  
**Vladimir Zivaljevic, JUGO-Impex E.E.R. d.o.o., Serbia**

"Steinert solutions in WEEE treatment with metal and plastic sorting technology"  
**Patrick Lindweiler, Steinert Elektromagnetbau GmbH, Germany**

"New solutions in electronics recycling – A fully automated system for the recycling and sorting of valuable commodities from flat screens"  
**Andreas Krebs, BLUBOX Trading AG, Switzerland**

"Fully automated sensor-based sorting of WEEE commodities – Three industry examples"  
**Felix Hottenstein, MSS Inc., USA**

"When warehousing becomes strategic"  
**Nico von Burg, Metal Depot Zurich AG, Switzerland**

"Latest technological development in automatic sorting for the WEEE recycling industry"  
**Michael Perl, S+S Separation and Sorting Technology GmbH, Germany**

"Washing, downsizing and drying of plastics of WEEE fractions with recycling lines from Herbold Meckesheim GmbH"  
**Markus Zimmermann, Herbold Meckesheim GmbH, Germany**

"Loyalty E-waste recycling equipment"  
**Susy Wang, Loyalty Equipment-Making (Sichuan) Co., Ltd., China**

"WorldScrap.com: The best friend of your scrap business"  
**Shu Zhang, WorldScrap.com, China**

19.00 – 19.30

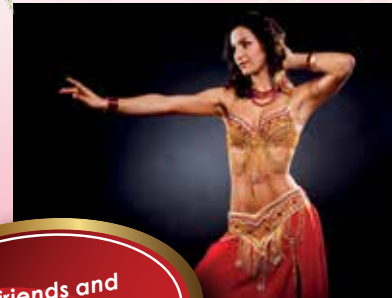
Cocktail reception in the exhibition area

19.30

Networking dinner

On Wednesday, November 12, a memorable networking dinner will be organized in exciting Singapore.

Do not miss this perfect opportunity to socialize with your business partners and register for this evening now!



Meet friends and business partners in a relaxed atmosphere!

# CONFERENCE PROGRAM

## THURSDAY, NOVEMBER 13, 2014

08.00 – 09.00 **Welcome coffee in the exhibition area**

**Session 2: The continuing challenge of the informal recycling sector**  
**Session Chairman: Adam Minter, Bloomberg View, Malaysia**

09.00 – 09.30 "E-waste challenges in Asia:  
How to turn the informal sector into a formal one"  
**Patrick Wiedemann, Reverse Logistics Group, South-East Asia**

09.30 – 10.00 "Community recycling – from informal to formal"  
**Janaka Wijesekera, Abans Environmental Services Pvt. Ltd., Sri Lanka**

10.00 – 10.30 **Coffee break in the exhibition area**

**Session 3: Recycling of Precious Metals**  
**Session Chairman: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore**

10.30 – 11.00 "Eco-recycling of precious metal from E-waste"  
**Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan**  
**Kenny Hsu, UWin Nanotech, Taiwan**

11.00 – 11.30 "Optimizing (precious) metals recovery out of electronic scrap –  
Is the E-scrap outlook in Europe a worldwide trend?"  
**Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium**

11.30 – 12.00 "Supply/demand fundamentals of the platinum group metals"  
**Dr Stewart Brown, Johnson Matthey, United Kingdom**

12.00 – 12.30 "Recycling of precious metal palladium from printed circuit boards  
(PCBs) of waste mobile phones"  
**Dr Sahu Rina, National Institute of Technology Jamshedpur, India**

12.30 – 14.00 **Lunch in the exhibition area**

**Session 4: E-scrap business reports**  
**Session Chairman: Kazumi Nozawa, Perry Johnson Registrars, Inc.**

14.00 – 14.30 "Update on WEEE EPR policy developments in the Asia Pacific  
Middle East and Africa region"  
**Kevin Bennett, DHL Supply Chain, Asia Pacific, Middle East & Africa,  
Singapore**

14.30 – 15.00 "Global electronics stewardship"  
**Scott Venhaus, Arrow Electronics, Inc., USA**

15.00 – 15.30 "Emerging Asia – Issues, challenges and opportunities"  
**Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore**

from 15.30 **Farewell cocktail in the exhibition area**

## WORKSHOPS

FRIDAY, NOVEMBER 14, 2014

You will have the chance to participate at one of the following workshops:

### 09.00 – 12.00 CENELEC STANDARD



organized by SENS Foundation, Switzerland  
at the Shangri-La Hotel

### 09.00 – 12.00 E-STEWARDS – A WORLD OF DIFFERENCE



organized by e-Stewards, USA  
at the Shangri-La Hotel

### 09.00 – 12.00 THE R2 CERTIFICATION



organized by SERI, USA  
at the Shangri-La Hotel

To register, please go to the ICM registration desk.

# CENELEC workshop

## Workshop about the new CENELEC standards

**Moderated by:** Patrick Lampert, SENS Foundation Managing Director

**Date:** Friday, 14 November 2014

**Time:** 9 a.m. to 12 noon

**Location:** Shangri-La Hotel, Singapore

**Price:** USD 190 before 30 September 2014

USD 250 after 30 September 2014

**Organiser:** SENS eRecycling



## Who should attend the workshop?

- Recyclers of electrical and electronic appliances
- Take-back systems
- Public authorities
- Auditors and advisers for electrical and electronic appliance processing
- Interested parties

Workshop about the new CENELEC standards (EN 50625, EN 50547 and EN 50614) CENELEC (the European Committee for Electrotechnical Standardization) is the first organisation to develop voluntary standards for the collection, transport and processing of electrical and electronic appliances in Europe. After being passed by EU member states, these standards will be adopted in the national legislation of each country. In this workshop, participants will learn how standards are developed and what they can achieve, and gain an insight into the positive and negative effects they can have on the market, industry and manufacturers. The difference between private and official standards will also be explained. The practical implementation and technological requirements will be demonstrated in a further workshop.



A **WORLD**  
of Difference

## GET THE EDGE ON YOUR COMPETITION

- Learn Why e-Stewards is the Global Gold Standard
- Integration with ISO 14001
- Find Out Why Major Enterprises Demand e-Stewards
- Discover Our Unique Marketing Platform
- Learn the Easy Steps to Certification
- Understand the Very Affordable Costs
- Hear From International e-Stewards Recyclers
- Meet Environmental Pioneer, Jim Puckett, and the new e-Stewards Executive Director



**Jim Puckett**

Basel Action Network  
Executive Director



**Mandy Knudtson**

e-Stewards  
Business Director

## WORKSHOP REGISTRATION

**Date:** Friday, Nov. 14, 2014

**Time:** 09.00h - 12.00h

**Location:** Shangri-La Hotel  
Singapore

**Price:** USD 190 before Sept. 30, 2014

USD 250 after Sept. 30, 2014

[www.e-Stewards.org](http://www.e-Stewards.org)

## Why is the R2 Standard the fastest growing, most respected global standard for electronics recyclers and refurbishers?



### Safe and Sustainable

For more information about responsible electronics recycling or the R2 Standard, please visit [www.SustainableElectronics.org](http://www.SustainableElectronics.org)



Because it helps electronics recyclers and refurbishers achieve the highest standards for data security and for the environmental health and safety of people and the planet.

Anyone can *claim* to be a responsible recycler, but R2 certified companies **prove** it to their customers and vendors with rigorous annual audits conducted by independent certifying bodies.

R2 Certification is also good for business. A 2012 survey conducted by Gracetone Inc. & Arcadian Solutions found that 70% of recyclers and refurbishers saw an increase in business resulting from certification, and 95% reported that a growing number of their customers required certification as a condition of doing business.

**R2 Certification...**positively changing how the world recycles.

## Register for the R2 Workshop to learn more.

Friday, November 14, 2014 • 09.00 h - 12.00 h • Hotel Shangri-La Singapore  
US\$ 190 before September 30, 2014 • US\$ 250 after September 30, 2014

**Space is limited! Please register using the ICM AG registration form.**

## PLANT TOUR

FRIDAY, NOVEMBER 14, 2014

ECO SPECIAL WASTE MANAGEMENT PTE. LTD.



### Visit of the waste management plant

- 09.45** Departure by bus to ECO Special Waste Management Pte. Ltd.  
**10.45** Arrival at ECO Special Waste Management Pte. Ltd.  
**10.45 – 13.15** **Visit of the waste management plant**  
**14.15\*** Arrival at the Shangri-La Hotel Singapore  
**15.15\*** Arrival at Singapore Changi airport

**ECO Special Waste Management (ECO)** was founded in 2008 and today, the company has well-developed capability in delivering its "Industry Ecology" concept to manage the waste. The company has established its comprehensive integrated waste management centre as well as its innovative and integrated energy recovery centre. This sustainable development centre has set ECO apart from other waste management companies and has been well-recognized for its contribution.

ECO's Sludge Treatment Plant, the largest single sewage incineration plant in South East Asia was awarded for 2010 ASEAN Renewable Energy Award. The plant, first of its kind in Singapore, was recognized as CDM registered project and has been issued for CERs by UNFCCC. Our rotary kiln incinerator is the largest hazardous waste to energy plant in Singapore. The plant is equipped with energy recovery system to generate beneficial steam and electricity for downstream treatment/recovery facilities which helps in reducing the dependency on fossil fuel. ECO will pursue consciously on our industrial ecology business model, as a way to develop the business and protect the environment to achieve sustainable development. ECO can be your trusted waste management partner for your business in Singapore.

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

All are welcome but with kind understanding that visitors from our same industry will not be allowed access.

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



**ECO Special Waste Management is one of Singapore's leading waste management companies.**

We provide a range of high quality, reliable services exclusively to our industrial and commercial customers from industries such as petrochemical, pharmaceutical, oil & gas, power generation, electronics, marine, engineering, and semiconductor. Many of our 2,000 customers have been with us from our founding in 1998, trusting ECO to solve their most difficult waste management challenges.

ECO operates out of a single, integrated Special Waste Management Centre comprised of nine main treatment and recovery facilities on a 7 Ha plot of land at 21/23 Tuas View Circuit, Singapore. ECO is fully licensed by the National Environment Agency (NEA) as a Toxic Industrial Waste Collector, a General Waste Collector, and an Asbestos Removal Contractor, among other qualifications. As part of our commitment to environmental protection, proactive health and safety management, and sustainable development, we are certified to ISO14001 Environmental Management System, OHSAS 18001, and Biz Safe Star Level. With more than 200 dedicated staff, we provide tailored, effective solutions for our customers everyday.

### Our Services Includes:

- Toxic and Non-Toxic waste management
  - o Collection Services
  - o On Site Waste Management
  - o Site assessment
  - o Recycling Programs on Site
- Industrial Services
  - o Storage tank and process equipment cleaning
  - o Asbestos Management and Removal
  - o Facility and equipment decommissioning
  - o Contaminated land remediation
  - o Crisis Response
- Laboratory and R & D Services
  - o Specialised Environmental and Waste-stream Testing
  - o Transformer oil analysis
  - o Waste treatment system Research & Development

**ECO Special Waste Management**  
23 Tuas View Circuit, Singapore 637768  
Main Line : (65) 6517 3600  
Hotline : (65) 6517 3653  
Fax : (65) 6863 7813  
Email : [sales@eco.com.sg](mailto:sales@eco.com.sg)



CERT NO. 2002-25157  
ISO 14001 : 2004  
CERT NO. OHS-2010-0289  
OHSAS 18001 : 2007





## SIGHTSEEING TOUR

FRIDAY, NOVEMBER 14, 2014



Delegates interested in sightseeing may book an English guided city tour. The tour is offered on:

**Friday, November 14, 2014**

**13.00 Departure by bus from the Shangri-La Hotel Singapore  
17.00\* Arrival at the Shangri-La Hotel Singapore**



This tour highlights the growth of Singapore from a small fishing village to becoming a megapolis, in a span of 100 years.

We start the journey with a brief stop at the Istana for photos, then move on to the place where Sir Raffles Stamford was believed to have landed and started the colonisation. We will be passing by the famous Raffles hotel. We will stop next at the Merlion Park, the mythical creature with a lion head that got the name "Singapura" to this tiny island in the Malacca strait. We then drive past the attraction "Singapore Flyer" (World's largest observation Wheel) and the Marina Bay Sands resort.



We will stop briefly at the Singapore Gems Factory, then visit the china town (the entrance of china heritage centre is not covered), the temple of tooth relic and the mariamman temple. The next stop will be at the Malay Heritage Centre and the Sultan Mosque, and then to Little India, driving past the narrow lanes selling flowers and spices. Our last stop will be the botanical garden before returning.

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



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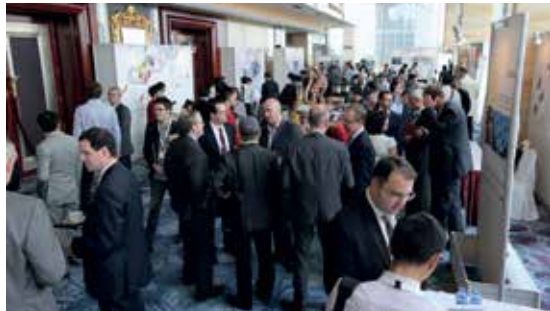
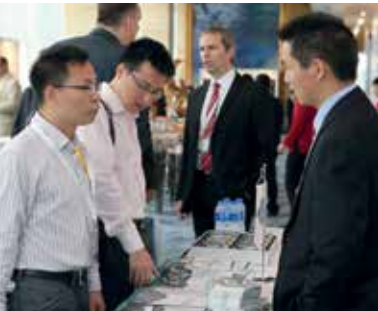
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# EXHIBITION & POSTER PRESENTATIONS

EXHIBITION  
AS PER JUNE 20, 2014



The exhibition area provides your company with the perfect opportunity to reach key industry decision makers. Promote your products to all conference attendees.

The fee for an exhibition booth (2 m x 3 m) is as from US\$ 3'000.– and for a poster presentation as from US\$ 250.– for the full time of the conference.

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





REGISTER BY  
SEPT. 30, 2014  
TO RECEIVE  
DISCOUNT RATE

## WHO SHOULD ATTEND?



- Original electronic equipment manufacturers (OEMs)
- 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



Registration for the conference should be made by means of the registration form or online. Participants registering and paying **before September 30, 2014** will benefit from a reduced registration fee. The registration fee includes the conference, entrance to the exhibition, proceedings and luncheons.

## REGISTRATION FEES

Conference Fee	before Sept. 30, 2014	after Sept. 30, 2014
Participants	US\$ 1'490.–	US\$ 1'590.–
Speakers	US\$ 990.–	US\$ 1'090.–
Universities, government & authorities	US\$ 690.–	US\$ 790.–
Networking dinner (Nov. 12, 2014)	US\$ 100.–	US\$ 120.–
Networking dinner for spouse (Nov. 12, 2014)	US\$ 120.–	US\$ 150.–
Conference registration on site US\$ 100.– surcharge		
<b>Tuesday, Nov. 11, 2014</b>		
Plant tour to Cimelia Resource Recovery	US\$ 40.–	US\$ 60.–
<b>Friday, Nov. 14, 2014</b>		
Workshop "Cenelec Standard"	US\$ 190.–	US\$ 250.–
Workshop "E-Stewards – A world of difference"	US\$ 190.–	US\$ 250.–
Workshop "The R2 Certification"	US\$ 190.–	US\$ 250.–
Workshop "How to invest in Singapore"	US\$ 70.–	US\$ 90.–
Plant tour to ECO Special Waste Management	US\$ 40.–	US\$ 60.–
Sightseeing tour Singapore	US\$ 30.–	US\$ 40.–

### Online registration

You may also register online at: [www.icm.ch/wrf-2014](http://www.icm.ch/wrf-2014)

### Conference language and additional proceedings

The language of the conference is English. 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: ICM AG  
 Bank: Neue Aargauer Bank, 5400 Baden, Switzerland  
 IBAN: CH14 0588 1044 7941 7200 1  
 Swift code: AHHBCH22XXX  
 Currency: US\$

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## Upcoming ICM Events:

www.icm.ch

### 19<sup>th</sup> International Congress for Battery Recycling ICBR 2014

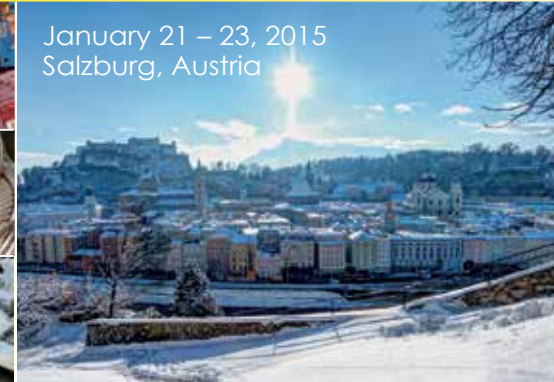
ICBR  
2014



September 24 – 26, 2014  
Hamburg, Germany

### 14<sup>th</sup> International Electronics Recycling Congress IERC 2015

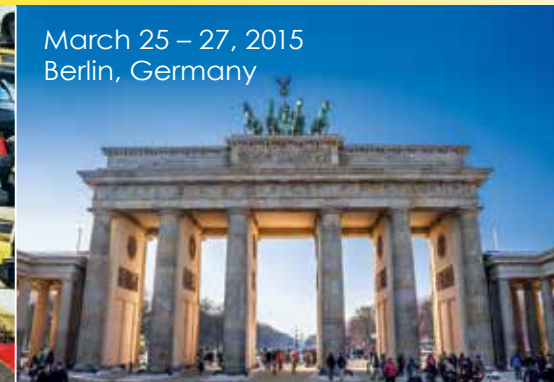
IERC  
2015



January 21 – 23, 2015  
Salzburg, Austria

### 15<sup>th</sup> International Automobile Recycling Congress IARC 2015

IARC  
2015



March 25 – 27, 2015  
Berlin, Germany

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