

ELECTRONICS RECYCLING ASIA

November 10 – 13, 2015, Singapore organized by World Recycling Forum





Supported by:

National Environment Agency (NEA), Singapore

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)

Waste Management and Recycling Association of Singapore (WMRAS)





























FOREWORD

PROFESSOR JINHUI LI

Chairman of the Steering Committee Electronics Recycling Asia

Welcome to Singapore!

On behalf of the Electronics Recycling Asia Steering Committee, I welcome you to the Electronics Recycling Asia 2015, organized by the World Recycling Forum (WRF) in Singapore. With your honorable participation, the Electronics Recycling Asia 2015 is sure to be another successful event.

Singapore is one of the world's major commercial hubs, with the fourth-biggest financial centre and one of the five busiest ports. Along with a free trade economy and a highly efficient workforce, Singapore commands an enormous presence in the world today. Known as "the garden city", Singapore is a very popular resort, with a large number of world-famous scenic spots and historical sites. Moreover, Singapore always keeps areen development in mind.

making the fast-running city an eco-harmonious paradise. In particular, Singapore operates E-waste recycling facilities with a high level of technology and management, which are fully in keeping with the subject of the forum.

Electronics Recycling Asia 2015 engages with government officers, experts, scholars and entrepreneurs from all over the world to present the latest information on recycling and its related technologies. At this year's forum, the recovery and recyclina of batteries from E-waste and hazardous waste, scrap metal trading, and a range of other technologies will be discussed. As usual, the organizer of the World Recvcling Forum is offering various plant tours and giving you the chance to visit electronics recycling companies. The conference is also a platform to exchange information, meet new business partners and get easy access to new potential clients. I hope you will be pleased with the forthcoming Electronics Recycling Asia 2015. I wish all participants an interesting and pleasant stay and look forward to meeting you in beautiful Singapore!

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



KEYNOTE SPEAKERS

DAVID SCUDERI

Samsung Electronics Europe Head of Environment United Kingdom

"Linear electronics recycling in the framework of a Circular Economy"



PROF. DUAN WENG

Chairman of WRF Tsinghua University Institute for Energy & Environment Materials Director China

"The current situation of Circular Economy in China"



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 Metal Depot Zurich AG CEO 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 Canada Corporation
Manager, Recycling
Canada



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



JEFFREY JERMYN GEEP International Inc. President Canada



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



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



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



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



VENKATESHA MURTHY Vans Chemistry Pte. Ltd. Managing Director Singapore



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



SCOTT NEWELL
The Shredder Company, ELC
Chairman and CEO
USA



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



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



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



STEPHAN SCHWARZ ALBA Group General Manager Segment Waste and Metals Germany



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



STEVE SKURNAC Sims Recycling Solutions Global President United Kingdom



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



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



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



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



JOSEPH C. YOB, JR. 3S International, LLC Vice President of Research and Technology USA



MARK R. TOMASZEWSKI INMETCO President USA



LOCATION & ACCOMODATION



Electronics Recycling Asia will be held from **November 10 – 13**, **2015** 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 9, 2015. If you wish, you may also extend your stay at this beautiful hotel at the same rate.



CONFERENCE STRUCTURE

TUESDAY, NOV	YEMBER 10, 2015 / WORKSHOPS
13.00 – 19.00	Registration
14.00 – 17.00	Workshop: E-waste opportunities in emerging economies
14.00 – 17.00	Workshop: Substance restrictions
17.00 – 19.00	Welcome reception in the exhibition area
19.00	Steering Committee Meeting (I)

WEDNESDAY, N	OVEMBER 11, 2015 / CONFERENCE & EXHIBITION
08.00 - 09.00	Registration and welcome coffee in the exhibition area
08.00 – 17.00	Exhibition
09.00 - 10.30	Opening and Keynote Speakers
11.00 – 12.30	Best Available Recycling Technologies I
12.30 – 14.00	Lunch in the exhibition area
14.00 – 15.30	Circular Economy I
14.00 – 17.00	Company Spotlight and Tech Talks in the exhibition area
16.00 – 17.00	Circular Economy II
19.00	Cocktail reception & networking dinner

THURSDAY, NO	VEMBER 12, 2015 / CONFERENCE & EXHIBITION / WORKSHOP
08.00 - 09.00	Welcome coffee in the exhibition area
08.00 – 17.00	Exhibition
09.00 - 10.30	Worldwide Policy and Legislation Issues
11.00 – 12.30	Best Available Recycling Technologies II
12.30 – 14.00	Lunch in the exhibition area
14.00 – 16.00	E-scrap Business Reports
14.00 – 18.00	Workshop: Promising Electronics Recycling Industry in China
16.00	Farewell cocktail in the exhibition area
17.00	Steering Committee Meeting (II)

FRIDAY, NOVEMBER 13, 2015 / PLANT TOURS		
09.45 - 15.15	ECO Special Waste Management Pte. Ltd., Singapore	
08.30 - 14.30	Tuas South Incineration Plant, Singapore	
08.00 - 16.30	Umicore Zinc Chemicals, Malaysia	

COSMOPOLITAN SINGAPORE







Singapore's economic achievements have been remarkable, vet 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 bustlina 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 vou'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

TRAVELLING TO SINGAPORE

Visa for Singapore

Most nationalities can enter Singapore without a visa. Please refer to the Immiaration 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

By plane

The country's main airport is Changi International Airport (airport code: SIN) and one of the best airports in the world. The

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.



WORKSHOPS

Take the chance and participate at the following workshops:

TUESDAY, NOVEMBER 10, 2015

14.00 – 17.00 E-WASTE OPPORTUNITIES IN EMERGING ECONOMIES





organized by Vans Chemistry Pte. Ltd., Singapore

14.00 - 17.00

SUBSTANCE RESTRICTIONS







organized by Kummer:Umweltkommunikation GmbH, Germany

THURSDAY, NOVEMBER 12, 2015

14.00 - 18.00

PROMISING ELECTRONICS RECYCLING INDUSTRY IN 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

To register, please use the registration form of ICM AG.

The workshops will be held at the Hotel Shangri-La Singapore and will take place with a minimum of 10 participants.



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

Price: USD 150.- before September 30, 2015; USD 180.- after September 30, 2015

Date: Tuesday, November 10, 2015

Time: 2 pm to 5 pm

Location: Shangri-La Hotel Singapore

WORKSHOP





Dr Beate KummerREACH expert and toxicologist



Substance restrictions

Workshop on the substance restrictions in REACH, RoHS, for packaging and other products

Moderated by	Dr Dipl. Chem Beate Kummer, Kummer:Umweltkommunikation GmbH, Germany			
Date	Tuesday, November 10, 2015			
Time	14.00 – 17.00			
Location	Shangri-La Hotel Singapore			
Price	USD 150.– (before September 30, 2015) USD 180.– (after September 30, 2015)			
Organizer	KUMMER			

WHO SHOULD ATTEND THE WORKSHOP?

- Recyclers
- Take-back systems
- Public authorities
- Auditors and advisers from private organizations
- Interested parties

Worldwide exist substance regulations and restrictions, these apply not only for electric and electronic devices, but also for other products such as batteries and cars.

European Regulations like Battery Directive, the ELV Directive (End-of-Life Vehicle Directive), the WEEE (for electric and electronic devices) and RoHS (which restrict the use of certain hazardous substances) and the Packaging Directive are the basis for the legal framework that has resulted in well-known product requirements and examples of producer responsibility. Producers all over the world are obliged to be compliant with the requirements while selling products to European market.

Moreover, annex XVII of the REACH regulation has been in effect since 2007. The restriction of certain hazardous substances (e.g. lead) in electrical and electronic equipment and a lot of other products aims to minimize the environmental impact.

Unfortunately the existing product regulations have not been harmonized – and this will be discussed in the workshop.

To register, please use the registration form of ICM AG.

PROMISING ELECTRONICS RECYCLING INDUSTRY

IN CHINA



You know:

China is generally considered to be the world's largest current processer of e-waste.

Do you know:

How is the e-waste managed in China?

What is the Chinese electronics recycling mode?

How does the electronics recycling industry develop in China?

What is the BAT/BEP on electronics recycling in China?

How to get Best Available Techniques from China?

How to market your technology and facility to Chinese enterprises?

How to promote technology transfer in Asia?

Register for the workshop Promising Electronics Recycling Industry in China to learn more.

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

Thursday, November 12, 2015 • 14.00 h - 18.00 h • Hotel Shangri-La Singapore US\$ 150 before September 30, 2015 • US\$ 180 after September 30, 2015 Workshop opens exclusively for WRF 2015 registered delegate.

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

Experts in WEEE Engineering

SMALL DOMESTIC APPLIANCES AND IT



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- No loss of precious metals
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- Precise fraction sampling



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CONFERENCE PROGRAM

TUESDAY, NOVEMBER 10, 2015

13.00 - 19.00Registration

14.00 - 17.00Workshop - E-waste opportunities in emerging economies

Moderator: Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore



14.00 - 17.00 Workshop - Substance restrictions

Moderator: Dr Beate Kummer. Kummer: Umweltkommunikation GmbH.

Germany

Organized by KUMMER

17.00 - 19.00Welcome reception in the exhibition area

WEDNESDAY, NOVEMBER 11, 2015

08.00 - 09.00Registration and welcome coffee in the exhibition area

09.00 - 10.30**OPENING AND KEYNOTE SPEAKERS**

"Welcome and introduction"

Prof. Jinhui Li, Chairman of Electronics Recycling Asia Roger Burri, Co-Chairman of Electronics Recycling Asia

"Linear electronics recycling in the framework of a Circular Economy" David Scuderi, Samsung Electronics Europe, United Kingdom

"The current situation of Circular Economy in China"

Prof. Duan Weng, Tsinghua University, China

10.30 - 11.00Coffee break in the exhibition area



Session 1: Session Chairman:	Best Available Recycling Technologies I Stephan Schwarz, ALBA Group, Germany				
11.00 – 11.30	"The benefits for the industry of certification of end-processing of precious metals and/or copper bearing E-waste" Thierry Van Kerckhoven, Umicore Precious Metals Refining, Belgium				
11.30 – 12.00	"Update on E-Recycling Compliance Programs in the United States" Steve Skurnac, Sims Recycling Solutions, United Kingdom				
12.00 – 12.30	"Sensor-based sorting replacing conventional ways of sorting in WEEE" Ted Park, TOMRA Sorting GmbH, Germany				
12.30 – 14.00	Lunch in the exhibition area				
Session 2: Session Chairman:	Circular Economy I Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan				
14.00 – 14.30	"Circular Economy – Opportunities and challenges" Annukka Dickens, Hewlett-Packard Company, USA				
14.30 – 15.00	"The Circular Economy – Designing out waste" Russell Ngo, Dell, Singapore				
15.00 – 15.30	"Electronics recycling from a brand protection perspective" Jason Teo, Infineon Technologies Asia Pacific, Singapore				
14.00 – 17.00	Company Spotlight and Tech Talks in the exhibtion area				
15.30 – 16.00	Coffee break in the exhibition area				
Session 3: Session Chairman:	Circular Economy II Crystynna Ewe, Dell, Singapore				
16.00 – 16.30	"Is this déjà vu all over again? Will we repeat our experience with CRT recycling when we recycle LCDs or can we do it better this time?" Joe Yob, 3S International, LLC, USA				
16.30 – 17.00	"Vietnam recycles – Introducing formal electronics take-back and recycling to Vietnam" Nadine Rühle-Niestroy, Reverse Logistics GmbH, Germany				
From 19.00	Cocktail reception and networking dinner				



COMPANY SPOTLIGHT AND TECH TALKS

IN THE EXHIBITION AREA

WEDNESDAY, NOVEMBER 11, 2015

14.00 – 17.00 Company Spotlight and Tech Talks

"ALBA integrated waste solutions Hong Kong – WEEE recycling solutions in mega cities"

Stephan Schwarz, ALBA Group, Germany

"Examples for innovative recycling strategies for rare metals with strategic importance"

Dr Wolfram Palitzsch, Loser Chemie GmbH, Germany

"Case study: Recovery of metals from electronics waste using DC plasma arc technology"

Les Liddiard, Tetronics International Ltd., United Kingdom

"Social value recovery program"

Akira Akamine, Anchor Network Service Inc., Japan

"Bunker your metals"

Nico von Burg, Metal Depot Zurich AG, Switzerland

"Breakthrough innovation on CRT lead glass treatment" **Dr Alexandre Comino, Hellatron Recycling Division, Italy**

"How to grow in recycling through partnering? Step by step solution"

Ninoslav Milenkovic, JUGO-IMPEX E.E.R. d.o.o., Serbia

"Introduction of our highly efficient scavenger products and their applications in electronics industry"

Dr Andy Xu, PhosphonicS Ltd., United Kingdom

19.00 - 19.30

Cocktail reception in the exhibition area

19.30

Networking dinner

NETWORKING DINNER

On Wednesday, November 11, 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!









CONFERENCE PROGRAM

THURSDAY, NOVEMBER 12, 2015

08.00 - 09.00	Welcome coffee in the exhibition area
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Session 4: Session Chairman:	Worldwide Policy and Legislation Issues Brian Taylor, Recycling Today Media Group, USA
09.00 – 09.30	"Review & update the status of Asia's recyclers, technology, policy context" Venkatesha Murthy, Vans Chemistry Pte. Ltd., Singapore
09.30 – 10.00	"Let's start with the basics: The argument for global environmental, health and safety management systems" Darrell Kendall, RIOS™, USA
10.00 – 10.30	"Responsible waste stewardship – Do it right the first time" David Chng, CHWMEG, Inc., Singapore
10.30 – 11.00	Coffee break in the exhibition area
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Session 5:	Best Available Recycling Technologies II Joe Yob, 3S International, LLC, USA
Session 5:	Best Available Recycling Technologies II
Session 5: Session Chairman:	Best Available Recycling Technologies II Joe Yob, 3S International, LLC, USA "Development of the gold/tin stripping process in a container"
Session 5: Session Chairman: 11.00 – 11.30	Best Available Recycling Technologies II Joe Yob, 3S International, LLC, USA "Development of the gold/tin stripping process in a container" Prof. Hsiao-Kang Ma, National Taiwan University, Taiwan "Designing recycled resins with engineering properties: Opportunities and challenges"



PLANT TOUR

FRIDAY, NOVEMBER 13, 2015



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
 14.15*
 15.15*
 Visit of the waste management plant
 Arrival at the Shangri-La Hotel Singapore
 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

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
 - Collection Services
 - On Site Waste Management
 - Site assessment
 - Recycling Programs on Site
- Industrial Services
 - o Storage tank and process
 - Asbestos Management and Removal
 - Facility and equipment decommissioning
 - o Contaminated land
 - Crisis Response
- Laboratory and R & D Services
 - Specialised Environmental and Waste-stream Testing
 - Transformer oil analysis
 - 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

PLANT TOUR

FRIDAY, NOVEMBER 13, 2015



TUAS SOUTH INCINERATION PLANT

Visit of the incineration plant

08.30 Departure by bus to Tuas South Incineration Plant

10.00 Arrival at Tuas South Incineration Plant

10.00 – 12.00 Visit of the incineration plant

13.30* Arrival at the Shangri-La Hotel Singapore14.30* Arrival at Singapore Changi airport

Formed on 1 July 2002, the **National Environment Agency (NEA)** is the leading public organisation responsible for improving and sustaining a clean and green environment in Singapore. The NEA develops and spearheads environmental initiatives and program through its partnership with the People, Public and Private sectors. It is committed to motivating every individual to take up environmental ownership and to care for the environment as a way of life. By protecting Singapore's resources from pollution, maintaining a high level of public health and providing timely meteorological information, the NEA endeavours to ensure sustainable development and a quality living environment for present and future generations.

Tuas South Incineration Plant is the largest refuse incineration plant in Singapore and is one of two incineration plants operated by NEA. Completed in June 2000, it is designed to incinerate 3,000 tons of refuse daily. The plant is sited on 10.5 ha of reclaimed land. Built with state-of-the-art technology, processes at the plant are highly automated and controlled via a digital control system. Modern equipment incorporating advanced technology is used at the plant to ensure a high level of efficiency and reliability.

More information at: www.nea.gov.sg

^{*} No guarantee on arrival time due to traffic conditions.

TUAS SOUTH INCINERATION PLANT

Operated by the National Environment Agency (NEA), Tuas South Incineration Plant is the largest incineration plant in Singapore, designed to incinerate 3,000 tons of solid waste daily. Modern equipment incorporating advanced technology is used at the plant to ensure a high level of efficiency and reliability.



About the National Environment Agency

The National Environment Agency (NEA) is the leading public organisation responsible for improving and sustaining a clean and green environment in Singapore. For more information, please visit http://www.nea.gov.sg/.

PLANT TOUR

FRIDAY, NOVEMBER 13, 2015



UMICORE MALAYSIA SDN BHD

Visit of the zinc metal pigment production facility

08.00 Departure by bus to Umicore Malaysia Sdn Bhd, Malaysia

10.00 Arrival at Umicore Malaysia Sdn Bhd, Malaysia
 10.00 – 13.00 Visit of the zinc powder production facility
 15.30* Arrival at the Shangri-La Hotel Singapore
 16.30* Arrival at Singapore Changi airport

Umicore Malaysia Sdn Bhd

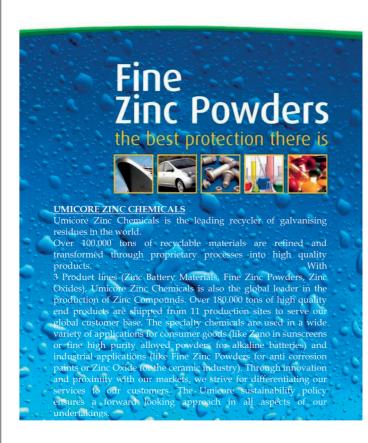
Zinc Metal Pigment (Fine zinc powder) production facility of Umicore is located at Pasir Gudang on the southern tip of Malaysia, 30 km north of Singapore, near the important port facilities of Johor Bahru. The plant was commissioned in 1994. It processes secondary zinc utilising Lavrik distillation technology to produce fine zinc powder/ dust primarly for anti-corrosion paint markets in Asia and the Middle East. Annual capacity of the plant is 14,000 tonnes.

More information at: www.zincchemicals.umicore.com

For visa application, please check here:

http://www.imi.gov.my/index.php/en/main-services/visa/visa-requirement-by-country

^{*} No guarantee on arrival time due to traffic conditions.







UMICORE MALAYSIA SDN BHD

Zinc Metal Pigment (Fine zinc powder) production facility of Umicore is located at Pasir Gudang on the southern tip of Malaysia, 30 km north of Singapore, near the important port facilities of Johor Bahru. The plant was commissioned in 1994. It processes secondary zinc utilising Larvik distillation technology to produce fine zinc powder/ dust primarily for anticorrosion paint markets in Asia and the Middle east. Annual capacity of the plant is 14,000 tons.



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The fact is, the recycling industry is not the most transparent in the world. We are not so good at sharing what we know. If one technique is developed in, say, Indonesia, chances are that it won't be implemented in Bulgaria for another ten years.

There are many reasons for this. The main one is that jurisdictional laws governing the recycling industry vary from country to country. Also, because waste treatment technologies are big and cumbersome, it's assumed that transferring knowledge is too complicated and costly.

But what is really costing us is not sharing our knowledge. Not sharing best practices or the challenges we are facing and not engaging in networking and open communication with each other. If other industries behaved like ours, we'd still be using rotary phones and driving Ford T.

We are E-Reciklaza, a recycling company that

specializes in electronic waste management. We are based in Serbia and have strong regional contacts, but our aspirations are global.

Through years of experience, we have developed efficient and environmentally sound ways of recycling WEEE, PET and sorting communal waste, and think we have valuable experiences to share. The controller shown here is one of them.



We'd love to hear from you. Perhaps it will lead to a successful partnership, joint venture or consulting engagement. I am Ninoslav Milenković, CEO, and would be interested to personally speak with you. You can reach me on +381 63 1085231 (including Wapp) or at ninoslay@ereciklaza.com.











AND PT. 30 PR BY
DISCOUNTED FROM
PATES

Registration should be made by means of the registration form or online. Participants registering and paying before September 30, 2015 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, 2015		after Sept. 30, 2015	
Participants	US\$	1'590	US\$	1'690	
Speakers	US\$	990	US\$	1'090	
Universities, government & authorities	US\$	690	US\$	790	
Networking dinner (Nov. 11, 2015)	US\$	100.–	US\$	120	
Networking dinner for spouse (Nov. 11, 2015)	US\$	120.–	US\$	150	
Tuesday, Nov. 10, 2015 – Workshops (14h – 17h) E-waste opportunities in emerging economies Substance restrictions	US\$	150.–	US\$	180	
	US\$	150.–	US\$	180	
Thursday, Nov. 12, 2015 – Workshop (14h – 18h) Promising Electronics Recycling Industry in China	US\$	150.–	US\$	180.–	
Friday, Nov. 13, 2015 – Plant tours ECO Special Waste Management, Singapore Tuas South Incineration Plant, Singapore Umicore Zinc Chemicals, Malaysia	US\$ US\$ US\$	50.– 50.– 70.–	US\$ US\$ US\$	70 70 90	

Conference registration on site US\$ 100.- surcharge

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You may also register online at: www.icm.ch/wrf-2015

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.

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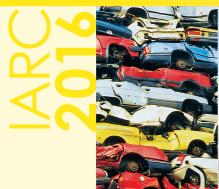
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