



REWAS  
Global Symposium on Recycling, Waste Treatment and Clean  
Technology

October 12-15, 2008 Cancun, Mexico



## e-waste Delegation IDRC/Sur & seco/Empa

Detailed Agenda  
Sunday October 12 – Wednesday October 15

*07 October 2008*



## Agenda overview

	Special events e-waste Delegation	REWAS sessions & events
	<b>Sunday</b> October 12	<b>Monday</b> October 13
09 am		9 – 10.15 am <b>Plenary Session</b> <i>Room: Caesar 7</i>
10 am		
11 am		10.30 am – 2 pm <b>Meeting RELAC Advisory Board</b> (on invitation) <i>Room: tbd</i>
12 am	<i>Individual arrival of participants</i>	
01 pm		
02 pm		2.15 – 4 pm <b>Electronic Waste Session I</b> <i>Room: Caesar 4</i>
03 pm		
04 pm	3 – 7.30 pm <b>Conference registration</b>	4.30 – 6.30 pm <b>Meeting e-waste Delegation</b> <i>Room: tbd</i>
05 pm		
06 pm	6 – 7.30 pm <b>Welcome reception</b> <i>Room: Miramar garden</i>	6-9 pm <b>Conference reception and dinner</b> <i>Location: Caesar Room</i>
07 pm		
08 pm		8 pm <b>e-waste Delegation Social Event</b> <i>Location: tbd</i>
09 pm		
10 pm		
		<b>Tuesday</b> October 14
		9 – 10 am <b>Plenary Session</b> <i>Room: Caesar 7</i>
		10.30 am – 6 pm <b>Workshop e-waste: Challenges and Strategies for Management of Electrical and Electronic Waste in Latin America and the Caribbean</b> <i>Room: Miramar 4</i>
		<b>Wednesday</b> October 15
		9 – 10 am <b>Plenary Session</b> <i>Room: Caesar 7</i>
		10.30 am – 12.15 pm <b>Electronic Waste Session II</b> <i>Room: Caesar 4</i>
		1.30 – 3.45 pm <b>Debriefing – RELAC Advisory Board and e-waste Delegation</b> (on invitation) <i>Room: tbd</i>
		4 pm <b>Closing Ceremony</b> <i>Room: Miramar Foyer</i>

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## Sunday October 12, 2008

3 – 7.30 PM

**Conference registration**

6 – 7.30 PM

**Welcome Reception**

Room: Miramar garden

*First gathering of delegation*

## Monday October 13, 2008

9 – 10 AM

**Monday Plenary Session**

Room: Caesar 7

Session Chair: Subodh Das, Phinix LLC

9 AM

**Introductory Comments**

9:15 AM

**Recycling and Waste Treatment in the Aluminum Industry**

*Ray Peterson, TMS Vice President*

9:45 AM

**Lightweight Metals Recycling via Ionic Liquid Electrolytes**

*Ramana G. Reddy, The University of Alabama*

10:15 AM **Break**

10:30 AM – 2 PM

**Meeting RELAC - Sur/IDRC Advisory Board**

Lead: RELAC - Sur/IDRC

Room: to be defined

Meeting of the Regional Committee of the RELAC - Sur/IDRC platform (Invitation by RELAC)

2:15 – 4 PM

**Session General Recycling and Solid Waste Processing: Electronic Waste I**

Room: Caesar 4

Session Chair: Gabrielle Gaustad, Massachusetts Institute of Technology

2:15 PM Keynote

**E-Waste Recycling in Latin America: Status, Challenges and Potential:**

*Heinz Boen<sup>1</sup>; Uca Silva<sup>2</sup>; Daniel Ott<sup>1</sup>; <sup>1</sup>EMPA; <sup>2</sup>Plataforma Regional de Residuos Electronicos de Computadores*

2:40 PM

**A Material Recovery Facility in Cape Town, South Africa, as a Replicable Concept for Sustainable e-Waste Management and Recycling in Developing Countries:**

*Mathias Schluep<sup>1</sup>; Susanne Dittke<sup>2</sup>; Gerry Newson<sup>3</sup>; Cissé Kane<sup>4</sup>; Klaus Hieronymi<sup>5</sup>; <sup>1</sup>EMPA; <sup>2</sup>EnviroSense CC; <sup>3</sup>Recovere Alliance; <sup>4</sup>Global Digital Solidarity Fund (DSF); <sup>5</sup>Hewlett-Packard Corporation*

3 PM

**Development of an Automatic WEEE Treatment Using Physical Separation Techniques to Limit Manual Sorting:**

*Solène Touzé<sup>1</sup>; Maurice Save<sup>1</sup>; Christian Lucion<sup>2</sup>; Paul Hubaux<sup>2</sup>; <sup>1</sup>Bureau de Recherches Géologiques et Minières; <sup>2</sup>Centre Technologique International de la Terre et de la Pierre*

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3:20 PM

**E-Waste Generation in Chile: Analysis of the Generation of Computer Waste Using Material Flow Analysis:**  
*Bernhard Steubing*<sup>1</sup>; Uca Silva<sup>2</sup> Christian Ludwig<sup>3</sup>; Heinz Böni<sup>1</sup>; <sup>1</sup>EMPA; <sup>2</sup>SUR/RELAC; <sup>3</sup>Paul Scherrer Institute

3:40 PM

**Mechanical and Pyrometallurgical Recycling of Electronic Wastes:**

*Lifeng Zhang*<sup>1</sup>; Xiangjun Zuo<sup>1</sup>; Jaan Kers<sup>2</sup>; Dmitri Goljandin<sup>2</sup>; Priidu Peetsalu<sup>2</sup>; <sup>1</sup>Missouri University of Science and Technology; <sup>2</sup>Tallinn University of Technology

4 PM Break

4:30 – 6:30 PM

**Meeting e-waste delegation IDRC/SUR & seco/Empa**

Lead: EMPA

The purpose of delegation meeting is to create an exchange platform which enables delegation members to interchange on issues related to e-waste management. We will have several input presentations followed by an open discussion.

The delegation members will have the opportunity to listen to a series of short presentations (5-10 minutes each):

- Greetings IDRC, EMPA, RELAC SUR/IDRC & StEP: Alicia Richero, Heinz Böni, Uca Silva, Jeremy Gregory
- AER Worldwide: John Dickenson
- GEEP Global: Greg Mc Watt/Alfred Hambsch
- EPEAT: Jeff Omelchuk
- Umicore Precious Metal Refineries: Christina Meskers
- Dell Inc.: Cintia Kahler

and others.

Room: to be defined

8 PM

**Social event e-waste delegation IDRC/SUR & seco/Empa**

Lead: Guillermo Román

Location: to be defined

## Tuesday October 14, 2008

9 – 10 AM

### Tuesday Plenary Session

Room: Caesar 7

Session Chair: Christian Ludwig, PSI /EPFL

9 AM

#### From R'07 to R'09: "World Resources Forum" as a Platform for Resources Productivity

*Xaver Edelmann, Member Board of Directors EMPA*

9:30 AM

#### Societal Impacts of Waste Management

*Brajendra Mishra, Colorado School of Mines*

10 AM Break

10:30 AM – 6 PM

### Workshop e-waste: Challenges and Strategies for Management of Electrical and Electronic Waste in Latin America and the Caribbean

Room: Miramar 4

(see also separate leaflet)

10:30 AM – 12:30 PM

#### MODULE 1: Situation and Challenges of e-waste Management in Latin America and the Caribbean

*Input presentations (simultaneous translation English-Spanish)*

2 – 4 PM

#### MODULE 2: Challenges and Strategies

*Moderated group work; Group 1 and 3: Spanish, Group 2 and 4: English*

4 – 6 PM

#### MODULE 3: Future Steps

*Presentation and discussions of group work (simultaneous translation English-Spanish)*

6 – 9 PM

### Conference Reception and Dinner

Room: Caesar Room

## Wednesday October 15, 2008

9 – 10 AM

### Wednesday Plenary Session

Room: Caesar 7

Session Chair: Brajendra Mishra, Colorado School of Mines

9 AM

### Moving Business to Clean Production and the Triple Bottom Line

*J. Michael Huls*, California Take It Back Partnership

9:30 AM

### E-Waste Recycling - A Relevant Contribution to Closing Global Material Cycles

*Heinz Böni*, EMPA Switzerland

10 AM Break

10:30 AM – 12:15 PM

### General Recycling and Solid Waste Processing: Electronic Waste II

PM Room: Caesar 4

Session Chair: Christina Meskers, Umicore

10:30 AM Keynote

### ReLCD – Recycling and Re-Use of LCD Panels:

*Bernd Kopacek*<sup>1</sup>; <sup>1</sup>Austrian Society for Systems Engineering and Automation

10:55 AM

### Recycling System of Precious Metal from Discarded Mobile Phone:

*Kunihiko Takahashi*<sup>1</sup>; *Gjergj Dodbiba*<sup>1</sup>; *Toyohisa Fujita*<sup>1</sup>; <sup>1</sup>University of Tokyo

11:15 AM

### Silica Nanopowder from Waste Silicon Sludge and CFD Modeling of the Flame Spray Pyrolysis Process:

*Miguel Olivas-Martinez*<sup>1</sup>; *Hong Sohn*<sup>1</sup>; *Hee Dong Jang*<sup>2</sup>; <sup>1</sup>University of Utah; <sup>2</sup>Korea Institute of Geoscience and Mineral Resources

11:35 AM

### Studies on Bromination and Volatile Separation of Metallic Oxides by Gaseous Products from Thermal Decomposition of TBBPA:

*Mariusz Grabda*<sup>1</sup>; *Sylvia Oleszek-Kudlak*<sup>1</sup>; *Michal Rzyman*<sup>1</sup>; *Etsuro Shibata*<sup>1</sup>; *Takashi Nakamura*<sup>1</sup>; <sup>1</sup>Tohoku University, Institute of Multidisciplinary Research for Advanced Materials (IMRAM)

11:55 PM

### Studies on Bromination Reaction of Heavy Metal Oxides by SbBr<sub>3</sub> and TBBPA with Thermal Methods:

*Sylvia Oleszek-Kudlak*<sup>1</sup>; *Mariusz Grabda*<sup>1</sup>; *Michal Rzyman*<sup>1</sup>; *Etsuro Shibata*<sup>1</sup>; *Takashi Nakamura*<sup>1</sup>; <sup>1</sup>Tohoku University

1:30 – 3:45 PM

### Debriefing – RELAC Advisory Board and e-waste delegation members

Lead: RELAC - SUR/IDRC

Room: to be defined

Extended meeting of the Regional Committee of the RELAC - SUR/IDRC Platform (invitation by RELAC)

3:45 PM Break

4:00 PM

### Closing Ceremony

## Delegation members

	Last name	First name	Country	Institution	E-Mail
1	<b>Añino</b>	Carolina	Argentina	Fundación Equidad	<a href="mailto:carolina@equidad.org">carolina@equidad.org</a>
2	<b>Devia</b>	Leila	Argentina	Centro Regional del Convenio de Basilea	<a href="mailto:lumiere@inti.gob.ar">lumiere@inti.gob.ar</a>
3	<b>Fernandez</b>	Gustavo	Argentina	Silkers/Escrap	<a href="mailto:info@ecogestionar.com.ar">info@ecogestionar.com.ar</a>
4	<b>Giniger</b>	Marcelo	Argentina	Comisión de Ambiente Cámara del Senado de la Nación Argentina	<a href="mailto:mginiger@ambiente.gov.ar">mginiger@ambiente.gov.ar</a>
5	<b>Bartolomé</b>	Paz	Chile	Plataforma RELAC	<a href="mailto:pazbartolome@sitiosur.cl">pazbartolome@sitiosur.cl</a>
6	<b>Salas</b>	Ximena	Chile	Plataforma RELAC	<a href="mailto:xpsalas@gmail.com">xpsalas@gmail.com</a>
7	<b>Silva</b>	Uca	Chile	Plataforma RELAC	<a href="mailto:ucasilva@sitiosur.cl">ucasilva@sitiosur.cl</a>
8	<b>Valenzuela</b>	Miguel	Chile	Olidata	<a href="mailto:miguel.valenzuela@olidata.cl">miguel.valenzuela@olidata.cl</a>
9	<b>Buitrago</b>	Cesar	Colombia	Ministerio de Medio Ambiente, Vivienda y Desarrollo Territorial	<a href="mailto:cbuitrago@minambiente.gov.co">cbuitrago@minambiente.gov.co</a>
10	<b>Cadavid</b>	Carlos	Colombia	Centro Nacional de Producción Más Limpia	<a href="mailto:carlos.cadavid@cnpml.org">carlos.cadavid@cnpml.org</a>
11	<b>Camacho</b>	Angel	Colombia	Computadores para Educar	<a href="mailto:angel.camacho@computadoresparaeducar.gov.co">angel.camacho@computadoresparaeducar.gov.co</a>
12	<b>Pascua</b>	Sandra	Colombia	Cámara Colombiana de Informática y Telecomunicaciones	<a href="mailto:juridica@ccit.org.co">juridica@ccit.org.co</a>
13	<b>Guzmán</b>	Maria	Costa Rica	Dirección de Gestión de la Calidad Ambiental y energía	<a href="mailto:fguzar@racsa.co.cr">fguzar@racsa.co.cr</a>
14	<b>Rudin</b>	Victoria	Costa Rica	Asociación Centroamericana para la Economía, la Salud y el Ambiente	<a href="mailto:vrudin@acepesa.org">vrudin@acepesa.org</a>
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17	<b>Espinoza</b>	Oscar	Perú	IPES	<a href="mailto:oscar@ipes.org.pe">oscar@ipes.org.pe</a>
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31	<b>Steubing</b>	Bernhard	Suiza	EMPA	<a href="mailto:bernhard.steubing@empa.ch">bernhard.steubing@empa.ch</a>