



REWAS 2008

Global Symposium on
Recycling, Waste
Treatment and
Clean Technology

Incorporating

- Fifth International Symposium on Recycling of Engineered Materials
- R'08 – World Congress on the Recovery of Materials and Energy for Resource Efficiency

October 12-15, 2008

Hilton Cancun Golf & Spa Resort
Cancun, Mexico

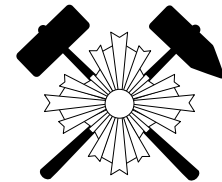
Register by September 15 at
www.tms.org/meetings/specialty/rewas08

Organized by

TMS

The Minerals, Metals & Materials Society

tecnalia
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MMIJ

Mining and Materials
Processing Institute of Japan



European
Commission



Materials Science & Technology

REWAS 2008 —

Global Symposium on Recycling, Waste Treatment and Clean Technology

Join this forum for the world's scientific and technical communities as they address the continuing globalization of environmental protection. More than 350 individual presentations are scheduled, and more than 500 of your colleagues from around the globe are expected.

Learn about progress in:

- Recycling Technology
- Re-engineering of Production Systems
- Application of Clean Technologies

As an attendee, you benefit from free workshops, networking events and technical sessions revealing the latest advances in these topics:

- Clean Technology and Re-engineering of Current Processes
- Resources, Monitoring and Characterization of Waste
- General Recycling and Solid Waste Processing
- Aluminum Byproduct Recovery and Secondary Production
- Nonferrous Metals
- Ferrous Metals
- Precious and Rare Metals
- Refractory Metals
- Radioactive Waste
- Heavy-Metal Containing Waste
- Composite Materials
- Automotive Recycling
- Electronic Waste
- Case Studies in the Development of Waste Treatment Technologies
- Waste Conversion and Reutilization
- Safe Methods for Waste Stabilization and Storage
- Economic Evaluation of Waste Treatment Strategies
- Environmental Issues Related to Waste Storage and Recycling
- Design and Engineering of Waste Treatment Plants
- Remediation of Contaminated Soil and Industrial Sites
- Treatment of Liquid and Gaseous Effluents
- Forums
 - Clean Technology: a Reality or a Dream?
 - Environmental Protection and Re-engineering: a Realistic Goal?

REWAS 2008 creates a single international event that includes all aspects of environmental protection and materials sustainability by incorporating the **R'08 World Congress** and the **Fifth International Symposium on Recycling of Engineered Materials**. Three distinguished plenary speakers will deliver state-of-the-art presentations representative of the scopes of these three conferences. In addition, informative plenary speakers are being scheduled to open each day of programming. Visit www.tms.org/meetings/specialty/rewas08 for full details on plenary speakers and topics, the calendar of events and the preliminary technical program.

About the R'08 World Congress

This eighth event in the series promotes innovative technologies and frameworks to improve materials and energy efficiencies in the production, use and recycling of materials. R'08 World Congress attracts the various disciplines and stakeholders across the materials life cycle to address issues such as:

- energy supply
- cement and building materials
- metallurgical
- chemical
- glass
- pulp and paper
- machinery
- automobile and electronic industries
- collection, sorting, further treatment and final disposal of post-consumer material

About the Fifth International Symposium on Recycling of Engineered Materials

This symposium addresses current technology and operational practice in the collection, upgrading, thermal and chemical processing, and refining of scrap metal, engineered materials and waste products.

Networking and Social Events

TMS Recycling and Environmental Technologies Committee

Sunday, October 12

Anyone interested in participating on this committee is encouraged to attend this meeting.

Welcome Reception

Sunday evening, October 12

Enjoy hors d'oeuvres and cocktails with your fellow attendees.

Poster Reception

Monday evening, October 13

View the technical posters and discuss the work with the authors.

Conference Reception and Dinner

Tuesday evening, October 14

For all registered conference attendees. Tickets for guests may be purchased via the registration form or on-site.

Closing Ceremony

Wednesday afternoon, October 15

Take advantage of light refreshments and meet with colleagues you have not had a chance to connect with all week.

Networking Breaks

Monday, Tuesday and Wednesday mornings and afternoons

Take a break and visit with exhibitors to learn about the latest products and services available in your field.



Attention Authors

Final Manuscript Draft Deadline: June 20

Authors' Coffee:

Presenting authors should meet with their session chair on the morning of their presentation.

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Register by September 15 to save!

Workshops

Free to all Attendees!

Zero Waste Workshop

Conducted by the California Resource Management Institute (CRMTI)

Monday, October 13

Session 1: Integrated Resource Management

This session will address the techniques and implementation of various programs and actions that change waste management into resource management. All technological aspects of resource management will be reviewed, from upstream to downstream, and will include activities in the business and municipal sectors. Clean production, cradle to cradle planning, and product design and EPR will be addressed. Several case studies will be presented, including Ricoh Electronics and its five R's, Urban Ore and its reuse activities, Vons and its composting program, and the development of resource recovery parks.

Session 2: Organics Resource Management

Organic materials comprise approximately 60 percent of municipal solid waste. In some states, organics are banned from landfills. This session presents a variety of issues, the technologies, siting, environmental impacts, and marketing currently done by many practitioners.

Session 3: Supply and Demand

To set up programs at municipal or facility levels, resource managers must have expert understanding of the facets of wasting, generation of discards, categorization for resource management purposes, and marketing. This session profiles wasted resources as a supply for end uses and provides critical aspects about markets and market demand, from local development to international trade.

Session 4: Moving Business to Clean Production and the Triple Bottom Line (TBL)

This session brings attendees up-to-date on the need to move businesses to clean production and to adopt the triple bottom line as a resource management principle. More than 2,000 companies in California have adopted zero waste to landfill and are making money as well as protecting the environment through clean production and TBL.

Bonus!

Attendees will be given the opportunity to take a short exam and obtain a temporary certificate of completion in integrated resource management issued by CRMTI.



Challenges and Strategies for Management of Electrical and Electronic Waste in Latin America and the Caribbean

Supported by EMPA, SUR, and United Nations “StEP” (Solve the e-Waste Problem)

Tuesday, October 14

About the Topic

Waste electrical and electronic equipment (WEEE), or e-waste, contain both valuable and toxic materials and have been subject to regulations in most industrialized countries. Emerging economies are producing more domestic e-waste. The management of e-waste, particularly the reuse of electronic equipment and the recycling of e-waste, is of increasing significance in almost all Latin American countries.

Learn About

- Major challenges and needs associated with the management of e-waste in Latin America under the policy principle of Extended Producer Responsibility.
- Suitable approaches, regional solutions, and public-private partnerships.

Participants

- Major regional stakeholders such as producers, importers, branch association representatives related to ICT, government and academia
- Experts from developing countries currently implementing e-waste management systems

Session 1: Situation and Challenges of e-Waste Management

This session will cover an overview of the e-waste situation; Mexico as a regional example; international trends; legal framework and the government role; EPR and private sector involvement; refurbishment, reuse and the civil society role.

Session 2: Challenges and Strategies

Four working groups will be formed to discuss challenges and strategies for these sectors: government, producers, civil society, academia.

Session 3: Strategies to Address Challenges

Working groups will make presentations regarding discussions held in previous session.

Session 4: Future Steps

This session will prioritize challenges, create projects to address challenges, assign leaders to create action plans, determine regional partnerships, and establish timelines.

Optional Tours

Reserve your spot for these exciting tours on the conference registration form!

Mayan Ruins of Tulum Activity

Thursday, October 16 • 9 a.m. to 2 p.m.

Less than two hours from Cancun lay the ancient walled city of Tulum. The only known Mayan city built alongside the setting sun, it is magnificently situated atop a cliff overlooking the crystal-blue Caribbean Sea and its surrounding jungle. It is one of the most famous landmarks in the Maya world and is one of the largest fortified Mayan sites along the Quintana Roo coastline.

Tour fee includes: deluxe air-conditioned units with soft drinks and purified water; one official tourism guide in English/Spanish; admission to archeological site; cold fresh towels after visiting Tulum Ruins; round-trip trolley transportation to Mayan Ruins; IIT staff and 10% federal tax.

Natural Aquarium of Xel-Ha Activity

Thursday, October 16 • 9 a.m. to 4:30 p.m.

Xel-Ha is located 15 minutes from Tulum, where nature has created incredible caves, inlets and lagoons. Fish from the Caribbean take refuge in placid waters of Hei-Ha, where fresh waters from nearby streams mix with the ocean. Snorkelers can mingle with these multi-colored fish. The park also offers all modern amenities and services.

Tour fee includes: deluxe air-conditioned units with soft drinks and purified water; admission fee to Xel-Ha; use of Xel-Ha facilities (showers, restrooms, snorkel gear, towel, etc.); lunch at any park restaurant; open domestic bar at park; IIT staff and 10% federal tax.

Shopping Tour

Tuesday, October 14 • 10:30 a.m. to 2:30 p.m.

Shop Cancun's colorful wares: silver, turquoise and black coral are commercial. Good buys include ceramics weavings, and hand-embroidered dresses and blouses. Find wood carvings of Mayan and Aztec symbols. Mexican crafts can also be found in air-conditioned shopping centers in the Hotel Zone such as Plaza La Isla, Cancun's newest shopping area.

Tour fee includes: deluxe air-conditioned large van with soft drinks and bottled water; shopping tour at Market 28 downtown; fresh towels after tour; downtown area map, exchange rate card, sign with name/logo of program at unit; IIT Staff and 10% federal tax and gratuities.



Register by September 15 to save time and money!

Two Ways to Register

1. Online at www.tms.org/meetings/specialty/rewas08
2. Complete the form on the next page and mail or fax to TMS.

Full payment in U.S. dollars must accompany the completed registration form.

Your Registration Includes:

- Technical Sessions
- 2 Workshops
- Proceedings CD-ROM*
- 6 Networking Breaks
- 2 Receptions
- Conference Reception and Dinner
- Exhibition

**Student registration does not include the proceedings CD-ROM. It may be purchased on the registration form.*

About the Proceedings

The complete REWAS 2008 proceedings, including R'08 World Congress and the Fifth International Symposium on Recycling of Engineered Materials, will be produced on CD-ROM. Each person paying the full registration fee (author and nonauthor rate) will receive the proceedings CD-ROM. Copies of the CD-ROM may also be purchased on the registration form.

Policies

Registration

- All attendees and meeting participants (authors, exhibitors, etc.) must register for the conference.
- Anyone wishing to attend who does not register by the advance deadline must register on-site at the Hilton Cancun Golf & Spa Resort.

Badges

REWAS badges received on-site must be worn to gain access to all conference events: technical sessions, workshops, exhibition, social functions, etc.

Cancellation/Refund Policy

A request for refund due to cancellation must be made in writing and received at TMS World Headquarters no later than September 15, 2008. A \$75 processing fee is charged. Refunds cannot be granted after the deadline. Mail refund request to TMS, Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086-7514, USA.

Audio/Video Recording Policy

TMS reserves the right to all audio and video reproductions of presentations at TMS sponsored meetings. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication or copyright without the express written consent of TMS and the individual authors is strictly prohibited. Contact TMS Technical Programming at (724) 776-9000, ext. 212, for more information.

Americans With Disabilities Act

TMS strongly supports the federal Americans with Disabilities Act (ADA) which prohibits discrimination against, and promotes public accessibility for, those with disabilities. In support of ADA, we ask those requiring specific equipment or services to contact TMS Meeting Services in advance at (724) 776-9000, ext. 243.

VISA Information

Citizens of countries that require a visa to enter the United States are reminded that the process of obtaining a visa may take several months. It is necessary to begin the application process early. For visa information, visit the U.S. State Department Web site at www.state.gov. If a letter is needed to obtain a visa, please e-mail Phyllis Roessler at TMS at proessler@tms.org.

Exemption of Mexican Federal VAT Tax

As of January 1, 2004, the Mexican Federal Government stipulates that all international meetings, congresses, conventions and expositions be granted an exemption on the VAT tax 10 percent for accommodations. In order to qualify for this, the following is required:

- Individual guests must present their migratory documentation (FME for foreigner) and passport upon check-in. Both documents will be photocopied and attached to the room's folio.
- Every participant must sign his/her registration card upon arrival.
- The hotel will also keep a copy of the authorized payment method: foreign (non-Mexican) credit card, foreign (non-Mexican) check or wire transfer from a foreign bank.

REGISTRATION FORM



REWAS 2008

TMS

October 12-15, 2008 • Hilton Cancun Golf & Spa Resort • Cancun, Mexico

WEB	Register in advance online. www.tms.org <i>Online registration requires credit card payment.</i>	FAX	Fax this form to TMS Meeting Services. (724) 776-3770 <i>Fax registration requires credit card payment.</i>	MAIL	Return this form with payment to TMS, Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086-7514 USA
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Advance Registration Deadline: September 15, 2008 Payment must accompany form. Forms received after September 15 will be processed at a higher fee.

Please print or type:

Dr. Prof. Ms. Mr. Mrs.

_____ (last name) _____ (first name) _____ (middle initial)

Employer _____

Title _____

This address is Business Home New Address Address Correction

Address _____

_____ (city) _____ (state/province) _____ (zip/postal code) _____ (country)

Telephone _____ Fax _____
 (country) (area/city) (local number) (country) (area/city) (local number)

E-mail _____ Guest/Spouse Name _____

Guests do not receive admission to technical sessions.

Please check the appropriate category and enter the totals where indicated. All amounts are in U.S. dollars.

Registration Fees

Fees Through September 15, 2008 Fees After September 15, 2008

- Author \$620 \$695
 (Includes technical sessions, workshops, coffee breaks, receptions, banquet and proceedings CD-ROM)
- Attendee (nonauthor) \$695 \$770
 (Includes technical sessions, workshops, coffee breaks, receptions, banquet and proceedings CD-ROM)
- Student (Copy of student school identification card must accompany form.) \$225 \$275
 (Includes technical sessions, workshops, coffee breaks, receptions and banquet)

Social Function Tickets (Tuesday dinner event included in full conference and student registration fees.)

Banquet Tickets for Guests Quantity: _____ @ \$130/ea. = _____

Dietary Restrictions: Vegetarian Kosher Other (please specify) _____

Additional Proceedings:

The proceedings will be published in CD-ROM format. One copy of the CD will be distributed to each full registrant on-site. Additional proceedings CD-ROMs can be purchased below.

CD-ROM Quantity: _____ @ \$50/ea. = _____

Tours: Tulum Activity ... Quantity: _____ @ \$60/ea. Xel-Ha Activity ... Quantity: _____ @ \$110/ea. Shopping Tour ... Quantity: _____ @ \$45/ea.

Totals

TOTAL FEES PAID \$ _____

REFUND POLICY: Written requests must arrive at TMS no later than September 15, 2008. No refunds will be issued after September 15, 2008. A \$75 processing fee is charged for all cancellations.

Payment Method

- Check payable to The Minerals, Metals & Materials Society
Payment should be made in U.S. dollars drawn on a U.S. bank.
- VISA MasterCard Diners Club American Express

Card No. _____ Exp. Date _____

Cardholder Name _____

Cardholder Signature _____

Accommodations

Reserve your room by October 10!

Complete the form on the next page or register online at:

<http://www.hilton.com/en/hi/groups/personalized/CUNHRHH-RWS-20081010/index.jhtml>

A block of rooms has been reserved for REWAS attendees at reduced rates. Identify yourself as part of the REWAS 2008 conference when making your reservation. After October 10, reservations will be received subject to availability.

About Hilton Cancun Golf & Spa Resort

This tropical paradise is set amidst 160 acres of natural beauty. Every guest room in this AAA Four Diamond resort provides an ocean view. The hotel has one of the largest private beaches in Cancun and a 72-hole championship golf course.

Resort Parking

Self Parking: \$5 (U.S.)

Valet Parking: \$7 (U.S.)

In/Out Privileges: Available

Driving Directions From Cancun International Airport

Distance: 10 km • Duration: 15 minutes

Drive on the main exit road and follow signs to the Hotel Zone (Zona Hotelera). This road becomes Kukucan Boulevard. Proceed straight until kilometer marker 17. Turn right into the resort.

Airport Transportation

Only certain transportation companies are authorized to pick up passengers at the airport, **so you must make your reservation through the Cancun International Airport Web site at www.cancun-airport.com/transportation.htm**. According to the airport's Web site, lower rates have been negotiated for online reservations. You must make your reservation at least 24-hours in advance for a shuttle, taxi or private service via the airport Web site.

About Cancun

Cancun is located where Mexico's Yucatan Peninsula meets the Caribbean Sea. It is Mexico's most popular destination, attracting two million visitors annually. The area is rich with Latin culture, ancient Mayan ruins and friendly people. The 40-mile coastline offers warm waters, calm surf and white sandy beaches. Average temperature is 25.5 degrees Celsius (78 degrees Fahrenheit). Downtown Cancun provides lively night clubs and numerous restaurants ranging from regional Mexican foods to international cuisine. The local marketplace is the hub for bargains, and there are many possibilities for daytime excursions, from visiting Mayan ruins to world-class ocean fishing. For more information about Cancun, visit www.cancun.info.



HOUSING FORM



October 12-15, 2008 • Hilton Cancun Golf & Spa Resort • Cancun, Mexico

Housing Reservation Deadline: October 10, 2008

Mail to: Hilton Cancun Golf & Spa Resort; Reservations Department
Retorno Lacandones Secc "A" KM 17 Hotel Zone; Cancun, Quintana Roo 77500 Mexico

Fax (from U.S./Canada) to: 1-888-568-4464; phone toll-free 1-888-594-2483

Phone: 01800 849 1047

Fax (from Europe/Asia) to: 00 (52) 998 881 8080

Group Code: RWS _____ **Confirmation No.** _____

Please Note: a deposit of one night stay is required to hold a reservation. Deposit shall serve to confirm the arrival date indicated on the form and, upon check-in, the hotel will apply the deposit of the reserved stay. **Check-in time is 3 p.m.; check-out time is noon.** Should the guest fail to check in, the following applies: (a) no shows are charged to each individual credit card for the total of room nights; (b) cancellations should be made 21 days prior to group arrival to avoid being charged two nights stay plus taxes. Cancellations are applied to the credit card provided. If you have questions, e-mail martin.pech@hilton.com or diana.galicia@hilton.com.

To receive a confirmation number, please include your e-mail address below:

First Name _____ Last Name _____
Companion Name _____
Company Name _____
Address _____
City _____ State/Province _____
Zip/Postal Code _____ Country _____
Telephone (office) _____ (home) _____
Fax _____ E-mail _____

Requests are subject to room availability at time of booking: One Bed _____ Two Beds _____ Smoking _____ Nonsmoking _____

European plan rate is available October 10-18; no meals are included. All rates are in U.S. dollars, per room, per night and subject to applicable taxes:

- Standard: single/double occupancy _____ \$129
- Villa Garden: single/double occupancy _____ \$189
- Jr. Suite: single/double occupancy _____ \$229
- Master Suite: single/double occupancy _____ \$329
- Third Adult _____ \$45

Service charges apply to each participant's credit card: \$6 bellboys per person in and out; \$5 maids per room, per day.

The above rates will be available three days before and three days after the group dates for early arrivals and late departures, subject to availability.

Arrival Date: _____ **Departure Date:** _____

Special Requests (crib, handicapped accessible, low floor, etc.): _____

Reservations must be accompanied by a deposit or an accepted credit card number:

- Guaranteed by one night's deposit
 - OR Guaranteed by credit card American Express Master Card VISA Wire Transfer
- I authorize Hilton Cancun to charge my credit card one night stay plus applicable taxes at the time of reservation.

Credit Card No. _____ Exp. Date _____

Signature _____

Wire Transfers: AMERICAN NATIONAL BANK; ABA Number 104000854; Account Number 5094844; RLJ CANCUN HOTEL S.DE R.L. DE C.V.; Omaha, NE Ph.- 402-457-1030; HSBC México; Account number 7001755743; CLABE 021691070017557430; SWIFT ABA/HSBC: BIMEMXMM; RLJ CANCUN HOTEL S.DE R.L. DE C.V.

REWAS Exhibition

October 13-15

REWAS provides a perfect opportunity for your company to showcase its products and services in recycling, materials sustainability and process efficiency system technologies.

As an exhibitor, you receive:

- Two full conference admissions – **a \$1,500 value!**
- Recognition in the program distributed on-site to all attendees
- Exhibit space: 6 ft. draped table, two chairs, electricity

Cost: Only \$1,000

A limited number of tabletop exhibition spaces are available. Reserve your space today!

Contact Joe Rostan at TMS:

jrostan@tms.org • (724) 776-9000, ext. 231 • toll-free in the U.S. (800) 759-4TMS

Organizers

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Co-Sponsoring Organizations

ASM International (USA)
Australian Institute of Mining & Metallurgy
Benelux Metallurgie (Belgium)
Canadian Association of Recycling Industries
Chinese Society for Metals
Hungarian Mining & Metallurgical Society
Indian Institute of Metals
Industrial Liquid Effluents (France)
Instituto Politecnico Nacional (Mexico)
Japan Federation of Engineering Societies
Korean Institute of Metals & Materials
Societe Francaise de Metallurgie et de Materiaux (France)
Society of Mining, Metallurgy, Resource and Environmental Technology (Germany)
Tecnalia (Spain)
The Scientific Society of the Mineral Wealth Technologists (Greece)

Questions about REWAS?

Direct questions about the technical program to:

Brajendra Mishra

REWAS 2008 Co-Chair
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Telephone: (303) 273-3893
E-mail: bmishra@mines.edu

Christian Ludwig

R'08 World Congress Co-Chair
Swiss Federal Institute of Technology at Lausanne and Paul Scherrer Institute
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Subodh K. Das

Fifth International Symposium on Recycling of Engineered Materials Co-Chair
University of Kentucky
Telephone: (859) 514-4989, ext. 101
E-mail: skdas@enr.uky.edu

Direct questions about the conference to:

TMS Meeting Services
Telephone: (724) 776-9000, ext. 243 • toll-free in the U.S. (800) 759-4TMS
E-mail: mtgserv@tms.org

Register by September 15 to save!

TMS

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USA

www.tms.org ■

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REWAS 2008 —

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www.tms.org/meetings/specialty/rewas08

