

**TMS FALL EXTRACTION & PROCESS
METALLURGY MEETING:
NEW TECHNOLOGIES FOR THE NEXT MILLENIUM**



**FOURTH INTERNATIONAL SYMPOSIUM ON
Recycling of Metals and
Engineered Materials**

**In conjunction with
LEAD-ZINC 2000 SYMPOSIUM**

**October 22-25, 2000
Pittsburgh Hilton Hotel
Pittsburgh, Pennsylvania, USA**

TMS
Minerals • Metals • Materials

Final Circular with Registration & Housing Forms Enclosed

DATE & VENUE:



The TMS Fall Extraction & Process Metallurgy Meeting, "New Technologies for the Next Millennium", will feature a combination of two conferences, the Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium. The combined conference will be held at the Pittsburgh Hilton Hotel from October 22-25, 2000.

Recycling has become increasingly important to society and industry as the earth's rapidly increasing population places ever more strain on our planet's ability to provide resources and a safe environment for mankind to improve our global standard of living. Technologies for recycling of metals and engineered materials are rapidly improving, and significant progress has been made in the fifteen (15) years since the first symposia of this series was held. The Fourth International Recycling Symposium will continue the highly successful tradition established by the three earlier TMS recycling meetings in bringing together participants to discuss the fundamental and practical aspects of recycling of metals and engineered materials. The emphasis at this meeting, as at the previous meetings, is on the commercial application of technologies for recycling. The symposia is organized under the auspices of TMS' Recycling Committee.

The Pittsburgh Hilton will provide an ideal location for the combined conference, with its exceptional meeting space and its superior location, directly across from Point State Park and historic Fort Pitt.

PROCEEDINGS:



All papers presented at the Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium will be printed in their separate proceeding volumes.

One copy of your choice of either the proceedings of the Fourth International Symposium on Recycling of Metals and Engineered Materials or the Lead-Zinc 2000 Symposium is complimentary with a paid full registration. A paid student registration fee does not include a copy of the proceedings. Additional copies of either symposium may be purchased at \$75.00 per book. Please refer to the registration form in this mailer.

SOCIAL PROGRAM:



Sunday, October 22, 2000 6:00 pm-8:00 pm
Combined Welcoming Reception

Monday, October 23, 2000 12:00 pm-2:00 pm
Separate Symposium Luncheons

Tuesday, October 24, 2000 6:00 pm-9:00 pm
Combined Reception/Banquet

TABLE TOP EXHIBIT:



A trade table top exhibit is being organized to complement the technical symposium. The symposium will bring together scientists and engineers, managers, researchers and operators involved in the development and application of recycling a wide variety of metals and materials, including Aluminum and other light metals, lead, zinc, and others.

The table top exhibit will provide participating companies an opportunity to participate in this international forum to share innovations and products related to these technologies.

Table top exhibit hours will be scheduled to complement the technical session schedule, with the coffee breaks being conducted in the exhibit area.

To reserve space for the table top exhibit, complete and return the attached response form. To allow sufficient time for advance planning and promotion, prospective exhibitors are encouraged to reply no later than August 15, 2000.

For more information or to reserve space for the event, contact:

Cindy A. Wilson
Sales Coordinator
TMS
184 Thorn Hill Road
Warrendale PA 15086
Telephone: 724/776-9000, ext 231
Fax: 724/776-3770
Email: wilson@tms.org

Or visit the Fourth International Symposium on Recycling of Metals and Engineered Materials page on the TMS website at: <http://www.tms.org/Meetings/Specialty/FallExt2000/FallExt2000.html>.

REGISTRATION AND HOUSING INFORMATION:



All attendees to the Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium, including authors and session chairs, are required to register. To register, complete the Advance Registration form in this mailer and return by September 25, 2000 to:

TMS
Customer Service Department
184 Thorn Hill Road, Warrendale, PA 15086, USA
Phone: 724-776-9000, ext. 243; Fax: 724-776-3770
E-mail: mtgserv@tms.org

You may now register any time of the day or night via the Fourth International Recycling Symposium homepage on the World Wide Web at <http://www.tms.org/Meetings/Specialty/FallExt2000/FallExt2000.html>. TMS OnLine also provides detailed information on this and all TMS-sponsored conferences.

Full payment in US dollars must accompany the completed Advance Registration form. Register by September 25, 2000 to receive the Advance Registration discount.

Onsite conference registration hours:

Sunday, October 22, 2000 12:00 noon–6:00 pm
Monday, October 23, 2000 7:00 am–5:00 pm
Tuesday, October 24, 2000 7:00 am–5:00 pm
Wednesday, October 25, 2000 7:00 am–10:00 am

Badges must be worn to gain access to the technical sessions and social functions.

The full conference registration fee includes the welcoming reception, coffee breaks, luncheon, banquet, one copy of the proceedings and access to all technical sessions

The student registration fee includes the welcoming reception, coffee breaks and access to all technical sessions.

REFUND POLICY:



Written requests must be sent to TMS Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086, and USA. No refunds will be issued after September 25, 2000. A \$50 processing fee will be charged on all cancellations.

ACCOMMODATION:



The headquarters hotel and site for the Fourth International Recycling Symposium and the Lead-Zinc 2000 Symposium is the Pittsburgh Hilton Hotel in Pittsburgh, Pennsylvania, USA. The 713-room hotel, which is located adjacent to Point State Park, is also within walking distance of the culture/theater district, fine dining and shopping.

An important aspect of the conference is the opportunity to network with your peers from all over the globe. The hotel lends itself well for impromptu meetings in the Promenade Restaurant, the Sports Pub or the Cappuccino/Esspresso Lounge.

Participants should mail or fax their conference housing form as early as possible to the Pittsburgh Hilton Hotel. The housing cut-off is September 25, 2000. After September 25, 2000, the conference rate and rooms at the Pittsburgh Hilton Hotel may not be available.

Fax or mail your housing reservation form to:

Hilton Worldwide Reservations
PO Box 2039
Humboldt Industrial Park
Maplewood Drive, Hazelton, PA 18201, USA
Fax: 570-450-1583

GENERAL CHAIRS



For More Information on the Fourth International Recycling Symposium, Please Contact:

Donald L. Stewart Jr.
ALCOA, Inc.
Alcoa Technical Center, 100 Technical Drive
Alcoa Center, PA 15069-0001, USA
Phone: 724-337-5764
Fax: 724-337-4063
E-mail: donald.stewart@alcoa.com

Robert L. Stephens
Cominco Research
PO Box 2000
Trail, B.C., Canada V1R 4S4
Phone: 250-364-4295
Fax: 250-364-4400
E-mail: rob.stephens@trail.cominco.com

James C. Daley
Daley & Associates
1020 W. Cactus Wren Drive
Phoenix, AZ 85021, USA
Phone: 602-678-1616
Fax: 602-678-1661
E-mail: daleyjim@aol.com



The Magestic River Boat
cruising on one of Pittsburgh's three rivers,
the Monongahela River.

ORGANIZING COMMITTEE

Aluminum Scrap

Ray D. Peterson, IMCO Recycling, Inc.
Jan H. van Linden, Recycling Technology Services

Aluminum Dross

Han Spoel, Spalco Metals Inc.
Annette Revet, Kallium Chemicals, Ltd.

Aluminum By-Products

John N. Hryn, Argonne National Laboratory
John W. Pickens, Alumitech Inc.

Automotive

Edward J. Daniels, Argonne National Laboratory

Magnesium & Titanium

Robert E. Brown, Magnesium Monthly Review

EAF Dust

A. D. Zunkel, A. D. Zunkel Consultants Inc.
Russ Bleakney, Inmetco

Secondary Zinc

Larry L. Parkinson, Interamerican Zinc, Inc.
Steve E. James, Big River Zinc Corp.

Secondary Lead

Rick Leiby, East Penn Manufacturing Co.
Andreas Siegmund, RSR Technologies Inc.

Secondary Copper, Nickel & Cobalt

Kunibert Hanusch, Huettnerwerke Kayser
Larry M. Southwick, L.M. Southwick & Associates

Spent Catalyst

Robert L. Stephens, Cominco Research
Edward Wiewiorowski, EURAM Technologies, Inc.

Precious Metals

Robert L. Stephens, Cominco Research

Refractory

Charles E. Semler, Semler Material Services
Jeff Gorss, Alcoa

Electronics/Plating

Paul B. Queneau, P.B. Queneau & Associates
Lee Wilmot, HADCO Corp.

LETTERS OF INVITATION:



The Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium Organizing Committees will issue letters of invitation to individuals requiring such a document. Such letters, however, do not commit the Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium Organizing Committees to providing financial support. Fax, E-mail or mail your request for a letter of invitation to:

Michael Packard, Manager of Meeting Services
TMS
184 Thorn Hill Road
Warrendale, PA 15086, USA
Fax: 724-776-3770
E-mail: packard@tms.org

POLICY ON AUDIO/VIDEO RECORDING OF TECHNICAL PAPER PRESENTATION/SESSIONS:



The Minerals, Metals and Materials Society (TMS) reserves the right to any audio and video reproduction of all presentations at every TMS sponsored meeting. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution or copyright without the express written consent of TMS and the individual authors is strictly prohibited. Contact the TMS Programming Department at 724-776-9000, ext. 227 in advance to obtain a copy of the waiver.

AMERICANS WITH DISABILITY 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 this act, we ask that those attendees requiring specific equipment or services contact the TMS Meeting Services Department to advise specific needs in advance.

Fourth International Symposium on Recycling of Metals and Engineered Materials in conjunction with The Lead-Zinc 2000 Symposium

October 22-25, 2000 • Pittsburgh Hilton Hotel • Pittsburgh, Pennsylvania

WEB	Take advantage of the convenience of on-line pre-registration via the TMS website: http://www.tms.org Web registration requires credit card payment.	FAX	Fax this form to TMS Meeting Services USA 724-776-3770 Fax registration requires credit card payment.	MAIL	Return this form with payment to Meeting Services TMS 184 Thorn Hill Road Warrendale, PA 15086
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Advance Registration Deadline: September 25, 2000 PAYMENT MUST ACCOMPANY FORM.
Forms received past this date will be processed at the on-site fee structure.

Instructions: Check your selections and fill in the necessary information.

Please print or type Dr. Prof. Mr. Mrs. Ms. TMS Member Number: _____

This address is: Business Home New Address Address Correction

Surname: _____ First Name: _____ Middle Initial: _____

Employer: _____

Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____ E-Mail Address: _____

Telephone: _____ Fax: _____

Accompanying Person Name for Badge: _____

(Guests do not receive admission to technical sessions.)

Registration Fees

Advance fees to Sept. 25 On-Site fees after Sept. 25

Full Conference* \$475 \$550
 *Includes Technical Sessions, Welcoming Reception, Luncheon, Banquet and one copy of the Proceedings of your choice.

Student** \$150 \$200
 (Students must attach a copy of their school's identification card.)
 **Includes Technical Sessions and Welcoming Reception. Tickets may be purchased for the luncheon and banquet.

One Proceedings is included in the full conference registration fee, please mark which symposium Proceedings you prefer.

Recycling of Metals Lead-Zinc 2000

Additional Proceedings may be purchased for \$75.00 per Proceedings.

	Fee	Number	Total
<input type="checkbox"/> Recycling of Metals	\$75.00	_____	\$ _____
<input type="checkbox"/> Lead-Zinc 2000	\$75.00	_____	\$ _____

Shipping

	Number	Total
Add \$10 per copy for U.S. shipping.	_____	\$ _____
Add \$20 per copy for international shipping.	_____	\$ _____

Additional Social Function Tickets:

	Fee	Number	Total
Additional Tickets for Students/Spouses			
<input type="checkbox"/> Welcoming Reception Sunday, October 22, 2000	\$25	_____	\$ _____
<input type="checkbox"/> Conference Luncheon Monday, October 23, 2000	\$35	_____	\$ _____
<input type="checkbox"/> Banquet Tuesday, October 24, 2000	\$50	_____	\$ _____
Dietary Restrictions:			
<input type="checkbox"/> Vegetarian (V)	<input type="checkbox"/> Kosher (K)		

TOTAL FEES: \$ _____

Payment Options

Check payable to TMS. Payment should be made in US dollars drawn on a US bank or via the following:

VISA Diners Club
 MasterCard American Express

Card Number _____

Expiration Date _____

Cardholder Name (print) _____

Signature _____

Refund policy:

Written requests must arrive at TMS no later than September 25, 2000. A \$50 processing fee will be charged for all registration cancellations.



Hilton
Pittsburgh & Towers

**The Lead-Zinc 2000 Symposium &
The Fourth International Symposium on Recycling of Metals and Engineered Materials**

PLEASE COMPLETE THE HOUSING FORM BELOW AND RETURN TO:

Hilton Worldwide Reservations
PO Box 2039
Humboldt Industrial Park
Maplewood Drive
Hazleton, PA 18201, USA
Fax: 570-450-1583

I Plan to Arrive: _____
Date

I Plan to Depart: _____
Date

Please Check:

- Main Hotel Single/Double - \$144
 Towers Single - \$179
 Towers Double - \$204

Room Tax - 14%

A \$50 early departure fee will be assessed should you change your departure date AFTER you have checked in.

ALL RESERVATION REQUESTS MUST BE GUARANTEED BY THE FIRST NIGHT'S ROOM AND TAX BY PERSONAL CHECK OR CREDIT CARD. CANCELLATIONS MUST BE MADE SEVENTY-TWO (72) HOURS PRIOR TO ARRIVAL TO AVOID FIRST NIGHT'S BILLING. CREDIT CARDS WILL AUTOMATICALLY BE CHARGED.

All reservations must be received by: **Sunday, October 1, 2000**

Requests prior to and after convention dates will be accepted on a space available basis only. Convention rate applies three days prior and three days following official meeting date. (One card per room)

Name: _____

Payment Enclosed: CHECK CREDIT CARD

Company: _____

Card No: _____

Address: _____

Expiration Date: _____

City: _____

VISA MASTERCARD AMERICAN EXPRESS

State: _____ **Zip:** _____

OTHER _____

Country: _____

Signature: _____

Telephone: _____

Fax: _____

Smoking _____

Non-Smoking _____

Specific Requests: _____

(Requests Subject to Availability)

ADA Specific Requirements: _____

PLEASE NOTE: CHECK-IN TIME IS 3:00PM • CHECK-OUT TIME IS 12 NOON

SPACE RESERVATION APPLICATION

Fourth International Symposium on Recycling of Metals and Engineered Materials

October 22-25, 2000

Pittsburgh Hilton Hotel & Towers

Pittsburgh, Pennsylvania

TMS is hereby authorized to reserve a table top exhibit space for our company in the Fourth International Symposium on Recycling of Metals and Engineered Materials Exhibition.

It is understood that the Exhibition management will process our options and forward the space assignment in the form of a contract and invoice for the balance due. The contract must be exercised and returned promptly with payment for the exhibit space.

Please complete the following information:

Correspond with: _____ Title: _____

Company Name: _____

Address: _____

City State/Province Zip/Postal Code Country

Telephone: _____ Fax: _____
Country Area/City Local Number Country Area/City Local Number

E-Mail Address: _____

Product or Services to be displayed: _____

PAYMENT OPTIONS

A deposit of \$250.00 is required for processing

- Make checks payable to TMS. Payment should be made in US dollars drawn on a US bank or via the following:
- VISA
- MasterCard
- American Express
- Diner's Club

Card No. _____ Exp. _____

Cardholder Name: _____

Signature: _____

Please return this form no later than September 1, 2000 to:

TMS Marketing Services
184 Thorn Hill Road
Warrendale, PA 15086
Telephone: 724-776-9000, ext. 231
Fax: 724-776-3770
E-mail: wilson@tms.org

NOTES

NOTES



HERTZ RENT-A-CAR SYSTEM:

Hertz has been selected as the official car rental company for Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium, October 22-25, 2000, Pittsburgh, Pennsylvania, USA.

Special rates, with free unlimited mileage, are guaranteed one week before, through one week after, the actual meeting dates and are subject to car availability. Rates are available from all Pittsburgh locations.

Advance reservations may be made by calling the Hertz Reservations number (US: 1-800-654-2240; Canada: 1-800-263-0600; International: contact your local Hertz reservation center) and identify yourself as an attendee of the Lead-Zinc 2000 Symposium and the Recycling of Metals and Engineered Materials Symposium and reference the CV number which follows:

You must give the reservations agent the Hertz CV #010P0003



U·S AIRWAYS

Official Carrier for the Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium

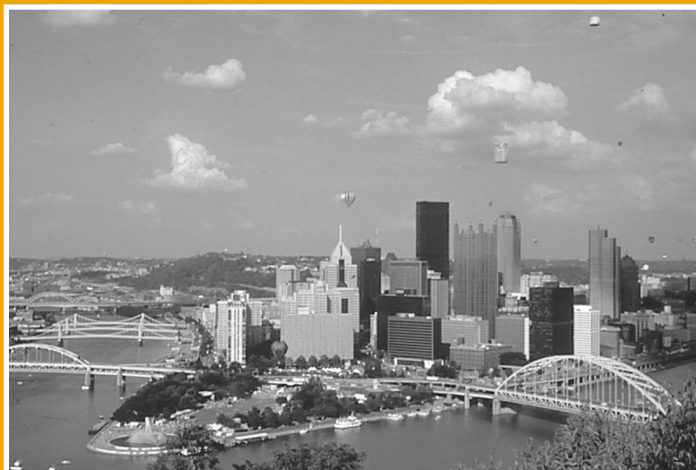
Special Airfare:

US Airways has been designated as the official carrier for the attendees of the TMS Fourth International Symposium on Recycling of Metals and Engineered Materials and the Lead-Zinc 2000 Symposium, October 22-25, 2000, Pittsburgh, Pennsylvania, USA and agrees to offer exclusive low fares for the attendees.

This special fare will offer a 5% discount off First or Envoy Class and any published US Airways promotional round trip fare. A 10% discount off unrestricted coach fares will apply with seven-day advance reservation and ticketing required. Plan ahead and receive an additional discount by ticketing 60 days or more prior to departure. These discounts are valid provided all rules and restrictions are met and are applicable for travel from all points on US Airways route system. The above discounts are not combinable with other discounts or promotions, and are valid October 19-28, 2000. Additional restrictions may apply on international travel.

To obtain these discounts, you or your professional travel consultant must call US Airways' Meeting and Convention Reservation Office at 877-874-7687; 8:00 AM – 9:30 PM, Eastern Time.

REFER TO GOLD FILE NUMBER 22631205



"A Grand View" from atop of Mt. Washington overlooking Point State Park and the city of Pittsburgh, better known as the Golden Triangle.



Minerals • Metals • Materials 184 Thorn Hill Road, Warrendale, PA 15086 USA

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