

**Fourth International  
Symposium on  
RECYCLING OF  
METALS AND  
ENGINEERED  
MATERIALS**

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Proceedings of a Symposium organized by the Recycling  
Committee of the Extraction & Processing Division and  
the Light Metals Division of TMS  
October 22-25, 2000

**Edited by**

**Donald L. Stewart, Jr.**  
*Alcoa Inc.*  
*Alcoa Center, Pennsylvania*

**James C. Daley**  
*Daley & Associates*  
*Phoenix, Arizona*

**Robert L. Stephens**  
*Cominco Research*  
*Trail, B.C., Canada*

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## PREFACE

This volume contains the proceedings of the Fourth International Symposium on Recycling of Metals and Engineered Materials. Since its inception, this quintennial series has served as that year's TMS Fall Extractive Process Metallurgy Meeting, as it will this year in conjunction with Lead-Zinc 2000. As in past meetings, this symposium will provide a forum for technologists to discuss fundamental and practical topics related to recycling of many materials.

The importance of recycling, waste reduction, and resource management to society and industry has continued to grow since the first meeting in this series was held in 1985, spurring an increase in the technical scope and the number of papers presented at the meeting. This year, due to the impact of combining the symposium with Lead-Zinc 2000, the secondary lead and zinc programs have grown significantly. The aluminum scrap processing portion of the symposium has continued to grow.

New to the symposium are sessions devoted to Electric Arc Furnace (EAF) Dust Processing, and recycling of Consumer Batteries, Electronics/Plating By-Products, Magnesium and Refractories. The EAF dust program has attracted wide interest, with papers devoted to theory and practice contributed by a large group of international experts.

The editors and organizing committee, listed on subsequent pages, thank the authors for providing the excellent papers contained herein. We recognize the time and effort required to write strong technical papers. We also wish to thank the members of the Joint Recycling Committee of the Extractive Processing and Light Metals Divisions of TMS for their suggestions and assistance in identifying prospective authors. We also express our appreciation to Ms. Terry Bauman for her diligent efforts and long hours in helping to assemble this volume. Finally, we acknowledge and appreciate the efforts of Michael Packard, Peggy Weiss, Dane Semonian, and the rest of the TMS staff for their guidance and support.

**Donald L. Stewart, Jr.**  
*Alcoa Inc.*  
*Alcoa Center, Pennsylvania*

**James C. Daley**  
*Daley & Associates*  
*Phoenix, Arizona*

**Robert L. Stephens**  
*Cominco Research*  
*Trail, B.C., Canada*

## **ORGANIZING COMMITTEE**

### **PLENARY SESSION**

Donald L. Stewart, Jr.  
Alcoa Inc.  
Alcoa Center, Pennsylvania

James C. Daley  
Daley & Associates  
Phoenix, Arizona

Robert L. Stephens  
Cominco Research  
Trail, British Columbia, Canada

### **GENERAL RECYCLING**

James C. Daley  
Daley & Associates  
Phoenix, Arizona

Robert L. Stephens  
Cominco Research  
Trail, British Columbia, Canada

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Richard Leiby  
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Sauget, Illinois

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Robert L. Stephens  
Cominco Research  
Trail, British Columbia, Canada

### **EAF DUST PROCESSING**

James C. Daley  
Daley & Associates  
Phoenix, Arizona

Dale A. Zuck  
Consultant  
Allen, Texas

## **SECONDARY COPPER, NICKEL, COBALT**

Larry M. Southwick  
L. M. Southwick & Associates  
Cincinnati, Ohio

Kunibert Hanusch  
Hüttenwerke Kayser  
Lünen, Germany

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Paul B. Queneau  
P. B. Queneau & Associates  
Golden, Colorado

Lee Wilmot  
HADCO Corp.  
Salem, New Hampshire

## **PRECIOUS METALS**

Robert L. Stephens  
Cominco Research  
Trail, British Columbia, Canada

## **SPENT CATALYST RECYCLING**

Robert L. Stephens  
Cominco Research  
Trail, British Columbia, Canada

## **ALUMINUM SCRAP RECYCLING**

Ray D. Peterson  
IMCO Recycling, Inc.  
Rockwood, Tennessee

Jan H. L. van Linden  
Recycling Technology Services  
Edgewood, Pennsylvania

## **ALUMINUM DROSS PROCESSING**

Han Spoel  
DrossTec, Inc.  
Pittsburgh, Pennsylvania

Annette S. Revet  
Kalium Chemicals, Ltd.  
Regina, Saskatchewan, Canada

## **ALUMINUM BY-PRODUCT RECOVERY**

John N. Hryn  
Argonne National Laboratory  
Argonne, Illinois

John W. Pickens  
Alumitech Inc.  
Streetsboro, Ohio

### **AUTOMOTIVE RECYCLING**

Donald L. Stewart, Jr.  
Alcoa Inc.  
Alcoa Center, Pennsylvania

Edward J. Daniels  
Argonne National Laboratory  
Argonne, Illinois

Robert L. Stephens  
Cominco Research  
Trail, B.C., Canada

### **MAGNESIUM RECYCLING**

James C. Daley  
Daley & Associates  
Phoenix, Arizona

Robert E. Brown  
Magnesium Monthly Review  
Prattville, Alabama

### **REFRACTORY RECYCLING**

Charles E. Semler  
Semler Material Services  
Tucson, Arizona

Jeffrey B. Gorss  
Alcoa Inc.  
Knoxville, Tennessee

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