

TMS2003

SECOND CALL FOR PAPERS



Yazawa
International
Symposium on
**METALLURGICAL
AND MATERIALS
PROCESSING:**
Principles and Technologies

In conjunction with
the 132nd TMS Annual Meeting & Exhibition

March 2-6, 2003

San Diego, California USA

132nd Annual Meeting & Exhibition

Prof. Yazawa Biography

Prof. Akira Yazawa, one of the most often quoted authors in pyrometallurgical reference books world-wide, has published over 300 technical papers, relating to a wide variety of subjects, such as slag, alloys, matte, speiss, aqueous solutions, alcohols and algae, while dealing with the extractive metallurgy of Zn, Pb, Ni, Sn, Sb, Au, Hg and Cd, as well as copper smelting. Professor Yazawa's stronghold has been thermodynamics, as is evident in his Japanese monograph "Hydrometallurgy and Effluent Treatments" (1975) and his AIME Extractive Metallurgy Lecture (1979). His international fame as industrially oriented academician brought many overseas graduates to his laboratory, Tohoku University, where he raised 17 international Ph. D.'s, in addition to a number of Japanese engineer doctors. He taught pyrometallurgical thermodynamic courses at many overseas institutions: Kosice Technical University (Slovakia), Santa Maria University (Chile), Melbourne University (Australia), to name a few. His prolific research and publication career has seen no slow-down with age, and in his 70's he has published more than 20 high caliber papers in the fields of slag thermodynamics and environmental chemistry.

Prof. Yazawa has been recognized worldwide with many awards, prizes and honors.

Scope

This symposium is organized to share and discuss recent developments in physical chemistry of metallurgical processes and physicochemical principles involved in materials processing. These are the subjects of the life-time work of Professor Akira Yazawa in whose honor this symposium is named. Many exciting new process technologies have in recent years been developed in the fields of chemical and process metallurgy and materials processing, and many have been adopted by the industry.

This international symposium will provide a stimulating forum to critically examine the role of thermochemical and basic physicochemical principles in the development and operation of these new processes. The results of basic and applied research as well as those of plant operations will be covered in this symposium.

The specific topics to be covered include but are not limited to:

- Thermodynamics of sulfide smelting
- Thermo- and physico-chemical principles relevant to pyrometallurgical and hydrometallurgical plant operations
- Advances in nonferrous production technologies
- Thermochemistry of ferrous production
- Environmental topics related to metals and materials production
- New reactor design, control and optimization methods
- Basic principles of advanced materials processing
- Advances in materials processing technologies
- Energy and new raw materials

Symposium Information

Web Site: www.FLOGEN.com/YazawaSymposium

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Proceedings

A separate Proceedings Volume will be published for the symposium. It will include an article honoring the life time achievements of Prof. Akira Yazawa.

Short Courses

The Yazawa International Symposium Short Course, entitled "Sulfide Smelting: Principles, Technologies, and Environmental Considerations", will be given on Saturday and Sunday before the official opening of the symposium. Please refer to the additional flyer for detailed information on this short course.

Social Functions

Delegates to the Yazawa Symposium will be invited to participate in a range of uniquely entertaining social activities.

The proposed functions are:

- Sunday Evening: Reception
- Monday Evening: TMS Official Honorary Dinner dedicated to Prof. Yazawa
- Wednesday Afternoon: Informal Entertainment Evening (Karaoke/Barbeque)
- Thursday Morning: Boat Trip

Symposium Sponsor

The following committees of the Extraction and Processing Division of TMS are honored to sponsor the Yazawa International Symposium:

Aqueous Processing Committee
Copper, Nickel and Cobalt Committee
Lead Zinc Committee
Process Fundamentals Committee
Pyrometallurgy Committee
Process Modeling Analysis and Control Committee (Joint MPMD/EPD)

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Société Française de Metallurgie et de Matériaux
Society for Mining, Metallurgy and Exploration
South African Institute of Mining and Metallurgy

Author's Information

The abstract will be submitted to TMS Conference Management System at cms.tms.org

Deadline for abstract submission: July 15, 2002

Author's will receive letters of acceptance or regret by July 30, 2002.

For accepted abstracts, authors should send by e-mail at YazawaSymp@FLOGEN.COM an electronic camera-ready manuscript of the full paper by September 30, 2002, for review purposes, followed by a hard copy camera-ready manuscript.

The detailed information on preparing a camera-ready manuscript will be sent to the authors by e-mail.

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Foreword

This TMS initiated and sponsored symposium is being organized to honor the very distinguished work and lifetime achievements of Prof. Akira Yazawa in Metallurgical and Materials Processing. Prof. Yazawa is renowned for his impact in extractive metallurgy of copper as well as in that of Zn, Pb, Ni, Sn, Sb, Au, Hg and Cd. His over 300 publications have dealt with a variety of subjects such as slag, alloys, matte, speiss, aqueous solutions, alcohols, algae etc. The topics of this symposium will reflect this rich and colorful activity and will cover simultaneously the thermophysicochemical fundamentals of metallurgical and materials processing, their industrial applications as well as the development of new and improved technologies in non-ferrous, ferrous and hydro-metallurgy, materials processing and in materials-related environmental science. The proceedings will be published and available at the meeting. Organizations wishing to contribute financial support to this symposium may contact the organizing committee or TMS.

This conference will be held as a part of the 132nd TMS Annual Meeting & Exhibition in San Diego, California, March 2-6, 2003. The TMS Annual Meeting includes more than 160 sessions and 1,300 individual presentations on all phases of



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materials science and engineering. Included is the Extraction & Processing Division program presenting the latest technologies in materials process fundamentals, waste treatment and minimization, recycling, pyrometallurgy, and hydrometallurgy, for copper, lead, zinc, tin, and other non-ferrous metals. A 130,000 square foot technological exhibition is also featured.

For more information on the TMS Annual Meeting & Exhibition and all TMS meetings visit <http://www.tms.org/Meetings/Meetings.html>

We invite you to browse the Symposium Web Site for more specific information and to participate as an author in this very promising conference.

Looking forward to meeting you in San Diego

Yours sincerely