FINAL CIRCULAR
SECOND INTERNATIONAL CONFERENCE ON MATERIALS ENGINEERING FOR RESOURCES

ICMR'94 AKITA
AKITA VIEW HOTEL
AKITA CITY, AKITA PREF., JAPAN

ICMR 94, AKITA
Mining College, Akita University
AKITA, 010 JAPAN

ICMR'94 AKITA
October 20-22, 1994
AKITA VIEW HOTEL
AKITA CITY, AKITA PREF., JAPAN

Organized by:
The Society of Materials Engineering for Resources of Japan,
Mining College,
and
Research Institute of Natural Resources
attached to Mining College,
Akita University, Japan
ICMR’94 AKITA

This international conference is organized by the Society of Materials Engineering for Resources of Japan, Mining College, and Research Institute of Natural Resources attached to Mining College, Akita University; and is cosponsored by the Ministry of Education, Science and Culture, Japan, Akita Prefecture, Akita City, and the Association for the Progress of New Chemistry.

In 1991, the heritage of resource-research community enabled Akita to be the place for the first international conference on materials engineering for resources (ICMR’91 Akita), which aimed at re-examination of the separate ideas in traditional engineering fields from resource to electronics engineering, and directed our efforts to integration into the new concepts which would give a perspective view from electronic and molecular to electrical and mechanical properties.

The second international conference on materials engineering for resources (ICMR’94 AKITA) inherits the idea of the first conference, ICMR’91. The second conference will also extend the issues of earth science, from resources development to environmental conservation, in relation to materials engineering.

The organizing committee extends a cordial invitation to you to participate in the Second International Conference on Materials Engineering for Resources to be held at the Akita View Hotel, October 20-22, 1994.

The technical program consists of the following session groups:
- plenary session, 30 minute lecture with five minute discussion each;
- keynote session, 15 minute lecture with five minute discussion each;
- poster session.

The full texts of plenary papers and the extended abstracts of keynote papers will be distributed at the conference desk. All the posters discussed are encouraged to be published as original full papers in (a) special issue(s) of International Journal of the Society of Materials Engineering for Resources. The deadline for submission will be noticed later.
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PLENARY SESSION

Main Room

Oct. 20 9:00~9:30
Chairperson
T. Sugawara
Opening Ceremony

Oct. 20 9:30~11:50, 13:20~15:05
Chairpersons
K. Makino, T. Matsunaga, G. Obinata
T. Sugawara, N. Yoshimura, K. Ouchi
T. Ohyoshi

Ceramics Manufacturing from Science to Practice

Professor Michael J. Cima
Ceramics Processing Research Laboratory, Materials Processing Center, Massachusetts Institute of Technology, Cambridge, MA 02139, U. S. A.

Electron Phase Microscopy for Superconductors

Dr. Akira Tonomura
Advanced Research Laboratory, Hitachi, Ltd.
Tonomura Electron Wavefront Project, ERATO, JRDC
Akanuma, Hatoyama-cho, Saitama 350-03, Japan

Digital Control: What Do We Want and What Can We Now Achieve?

Professor Brian D. O. Anderson
Department of Systems Engineering, Research School of Physical Sciences, Australian National University, GPO Box 4, Canberra ACT 2601, Australia

Technology Policy of Japan (Tentative)

Mr. Naotoshi Osada
Counsellor for Technology Affairs, Minister’s Secretariat, Ministry of International Trade and Industry, 1-3-1 Kasumigaseki, Chiyoda-ku, Tokyo 100, Japan

Carbon Dioxide As a Chemical Feed Stock

Professor Hiroo Tominaga
Saitama Institute of Technology, Husaiji 1690, Okabe, Osato County, Saitama 389, Japan

Mining and the Environment
Mining-Related Environmental Problems and Solutions—The North American Experience

Professor Jerry M. Whiting
Department of Mining, Metallurgical and Petroleum Engineering, University of Alberta, Edmonton, AB T6G 2G6, Canada

Japan’s Environmental Initiatives after UNCED

Mr. Kazuhiko Takemoto
Director, Research and Information Office, Global Environment Department, Japan Environment Agency, 1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo 100, Japan
KEYNOTE SESSIONS

ROOM A

Oct. 20  16:35~17:35

Chairpersons:
J. Ho, H. P. Rossmanith, A. Wiewiora
T. Sugawara, H. Komiyama, K. Arai

1 Decontamination of Metals by Melt Refining Slagging
   Professor Samuel W. Worcester
   Department of Metallurgical Engineering, Montana
   College of Mineral Science and Technology, Butte,
   Montana 59701, U. S. A.

2 Process Technology for Minerals and Materials
   Dr. Iwao Iwasaki
   Central Research Institute, Mitsubishi Materials
   Corp., 1-297 Kitabukuro-cho, Omiya 330, Japan

3 Copper Refinery Anode Slimes and Their Reactions
   Dr. J. E. Dutrizac
   Mineral Sciences Laboratories, Department of Energy,
   Mines and Resources, CANMET, 555 Booth Street,
   Ottawa, K1A 0G1, Canada

4 Factual Data Bases in Materials Science
   Professor F. A. Kuznetsov
   Director, Institute of Inorganic Chemistry, Novosibirsk,
   630090, Russia

5 Disposal of Mine Waste
   Dr. Paul N. Gaskin
   Department of Civil Engineering, Queen's University,
   Kingston, Ontario K7L 3N6, Canada

6 Recent Applications of Ion Exchange to Resource
   Recovery and Conservation
   Professor Joshua S. Dranoff

A – 2

Oct. 21  9:00~10:40

Chairpersons
S. W. Worcester, J. E. Dutrizac, Y. Ishikawa
Y. Takahashi, M. Kobayashi, M. Sadakata

1 The Geoelectromagnetic Research on Resources of
   Non-Ferrous Metals in China
   President He Jishan
   Central South University of Technology, Changsha,
   Hunan 410083, People's Republic of China

2 Towards Smart Mining Machinery : Mechanics in the
   Service of Mining
   Professor H. P. Rossmanith
   Institute of Mechanics, Technical University Vienna,
   Wiedner Hauptstr. 8-10/325, A-1040 Vienna, Austria

3 Effect of Grinding on the Structure, Particle Size and
   Shape of Pyrophyllite and Talc.
   Professor dr hab. Andrzej Wiewióra
   Director, Institute of Geological Sciences, Polish
   Academy of Sciences, ul. Zwikie i Wigury 93, 02-089,
   Warszawa, Poland

4 Developments Towards the Ecological and Recycling
   Building Materials Technology
   Professor Asko Sarja
   Technical Research Centre of Finland, P. O. Box 26,
   02151 Espoo, Finland

5 Ways of Harnessing Waste Banks in China
   Professor Yi Gong You
   Shandong Institute of Mining and Technology, Tai'an,
   Shandong 271019, People's Republic of China
Oct. 21  11:00〜12:20

Chairpersons
P. N. Gaskin, J. S. Dranoff, N. Noda
S. Tsutsumi

1 Nanophase Materials
Professor Hiroshi Komiyama
Department of Chemical Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

2 Development and Preparation Processes of Barium Ferrite Particles for Magnetic Information Storage
Professor Zheng Yang
Research Institute of Magnetic Materials, Lanzhou University, Lanzhou 790000, Peoples Republic of China

3 Recent Development of Soft Magnetic Materials
Professor Ken-ichi Arai
Research Institute of Electrical Communication, Tohoku University, 2-1-1 Katahir, Aoba-ku, Sendai 980, Japan

Oct. 21  13:50〜14:50

Chairpersons
F. A. Kuznetsov, A. Sarja, M. Goto, Y. Kanda

1 Synthesis of Fine Ceramics Particles by High Temperature Flame
Professor Masayoshi Sadakata

Department of Chemical Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

2 Processing Parameter and Microstructure-PTCR Property Relations in Semiconducting BaTiO3 Ceramics
Professor Sang-Hee Cho
Department of Inorganic Materials Engineering, Kyungpook National University, Taegu, 702-701, Korea

3 CVD Epitaxial Growth of SiC for Power Device Applications
Professor Bo Monemar
Materials Science Division, Department of Physics and Measurement Technology, Biology and Chemistry, Linkoping University, Linkoping, Sweden

Oct. 21  15:20〜16:20

Chairpersons
G. Yi, T. Ohyoshi, Y. Kanda

1 Thermal Stresses in Functionally Gradient Materials
Professor Naotake Noda
Department of Mechanical Engineering, Shizuoka University, 3-5-1 Johoku, Hamamatsu 525, Japan

2 Biomaterials and Their Biomechanical Compatibilities
Dr. Sadami Tsutsumi
Research Center for Biomedical Engineering, Kyoto University, Shogoin, Sakyo-ku, Kyoto 606-01, Japan

3 High Temperature Corrosion of Metals with Molten Carbonate
Professor Ken-ichiro Ota
Department of Energy Engineering, Yokohama National University, 156 Tokiwadai, Hodogaya-ku, Yokohama 240, Japan
6 New Materials Based on Calixarenes
   Professor Jerry L. Atwood
   Department of Chemistry, University of Alabama,
   Tuscaloosa, AL 35487, U.S.A.

Oct. 21 9:00—10:40
Chairpersons
G. Matamala, C. S. Choi, M. Harada
K. Urabe, Y. Fukushima

B — 2
1 Developments in Prediction of Service Performance
   of Materials in Power Generating Plants
   Professor Malcolm Molean
   Department of Materials, Imperial College, Prince
   Consort Road, London SW7 2BP, United Kingdom

2 An Application of the Mechanics of Fluid-Filled Poro-
   elastic Solids-Ink Flow Mechanism in Mimeo-Graphing
   Professor Michio Kurashige
   Department of Mechanical Engineering, Iwate University,
   4-3-5 Ueda, Morioka 020, Japan

3 Modeling on Computational Simulations of Fracture
   Behavior of Notched Fiber Reinforced Composites
   Professor Hideki Sekine
   Department of Aeronautics and Space Engineering,
   Tohoku University, Aramaki, Aoba-ku, Sendai 980,
   Japan

4 Air Entrainment and Dynamic Wettability in Coating
   Flows
   Professor Kitaro Adachi
   Department of Applied Chemistry, Kyushu Institute
   of Technology, 1-1 Sensui-machi, Tobata-ku, Kitakyushu
   804, Japan
5 Photoelastic Experiment for Composite Material under the Static or the Dynamic Load
   Professor Dr. Jai-Sug Hwang
   Department of Mech. Engineering, Yeungnam University, Gyung-San, Korea
   Oct. 21 11:00~12:00
   Chairpersons
   J. L. Atwood, M. McLean, N. Yoshimura, S. Tomura

1 Development of Insulating Materials for High Voltage Cables
   Dr. Toshio Niwa
   Material Research Laboratory, Fujikura Ltd.
   1-5-1 Kiba, Koto-ku, Tokyo 135, Japan
   Oct. 21 13:50~14:50
   Chairpersons

2 Electric Conduction in Insulating Materials-the Basis for Electronic and Electrical Applications
   Dr. Werner F. Schmidt
   Hahn-Meitner-Institute, Abteilung Strahlenchemie,
   D1000, Berlin 33, Germany

3 On Environmental Effects of Polymer Insulators
   Professor Shawky Hammam
   Department of Electrical and Computer Engineering,
   Clarkson University, Clarkson Hall, Potsdam, NY 13699-5720, U. S. A.
   Oct. 21 15:20~16:00
   Chairpersons
   S. Hammam, T. Niwa

Director, Research Institute of National Resources, Mining College, Akita University, 1-1 Gakuen-machi, Tegata, Akita City 010, Japan

2 Crystallochemical and Structural Classification of Layer Silicates and Sepiolite
   Professor dr hab. Andrzej Wisiöra
   Director, Division of Mineralogy and Petrology,
   Institute of Geological Sciences, Polish Academy of Sciences, ul. Zwirki i Wigury 98, 02-089, Warszawa, Poland

3 Purification of Sepiolite
   Dr. Shinji Tomura
   National Industrial Research Institute of Nagoya, 1-1 Hirate-machi, Kita-ku, Nagoya 462, Japan

1 Adsorption Properties of Sepiolite and Their Applications
   Dr. Yoshiaki Fukushima
   Toyota Central Research and Development Labs., Inc.
   41-1 Yokomichi, Nagakute-machi, Aichi-ken, 480-11, Japan

2 Catalytic Materials Made of Sepiolite
   Dr. Kazuo Urabe
   Department of Applied Chemistry, Nagoya University,
   Furo-cho, Chikusa-ku, Nagoya 464-01, Japan

Professor Hisato Hayashi
POSTER SESSIONS

Oct. 22  9:00～12:00

Advisory Board
ROOM A (A-P)
S. W. Worcester, J. E. Dutrizac, F. A. Kuznetsov,
P. N. Gaskin, J. S. Drenoff, J. He,
H. P. Rossmanith, A. Wiewiora, A. Sarja, G. Yi,
T. Fujita; H. Sekine, K. Makino, T. Sugawara,
Y. Takahashi, K. Sugawara

ROOM B (B-P)
Z. Yang, S. H. Cho, B. Monemer, G. Matamala,
C. S. Choi, J. L. Atwood, M. Mclean
J. Hawong, W. F. Schmidt, S. Hammam
Y. Arai, M. Harada, Y. Ishikawa, M. Iwamoto,
T. Matsunaga, T. Mizutani, M. Nishida*,
K. Ota, K. Ouchi, N. Yoshimura, M. Hara,
F. Hamada

*Chief commentators

1 Sol-gel Preparation of TiO₂ Soluble to Organic Solvents and Its Application to Photocatalyst by T. Murata, R. Yamamoto, Y. Yoshida and S. Sato (Yamagata Univ.)

2 Photochromic Molecular Recognition of Spiropyran-appended γ-Cyclodextrin by F. Hamada (Akita Univ.), R. Ito (Akita Univ.) and T. Osa (Tohoku Univ.)


4 Influence of Particle Shape on Ball Mill Grindability by Y. Kanda, E. Kimura and H. Murata (Yamagata Univ.)

5 AC Electrical Conduction Properties of Polyimide Thin Films by Y. Muramoto, Y. Mizuno, M. Nagao and M. Kosaki (Toyohashi Univ. of Tech.)

6 Electrical Properties of Electron Beam Irradiated Poly-pyrrole by S. Fujita, M. Baba, T. Suzuki and F. Noto (Hachinohe Inst. of Tech.)

7 The Influence of Crystalline Morphology on the Growth of Water Trees in Polyethylene by Fan Zong-huai, N. Yoshimura (Akita Univ.) and M. Yanagiwara (Akita National College of Tech.)

8 Crystallographic Dissolution of Potentiostatic Etching of Stainless Steel with Coarse Columnar Crystals by A. Sato, K. Kon, S. Tsujikawa and Y. Hisamatsu (Ichinoseki National College of Tech.)


10 An Illustrative Comparison of Pipeline Designs for Settling Slurry Flow with a Stationary Bed by H. Sato (Akita Univ.) and Y. Cui (Puxin Inst. of Mining and Tech. China)

11 Electrodeposition of Niobium Carbide in Molten Potassium Fluoride-Sodium Fluoride-Lithium Fluoride Containing Potassium Heptafluoroniobate and Potassium Carbonate by Y. Sato, M. Hara and Y. Shinata (Akita Univ.)
12 The Measurement of Friction Coefficient Among Silicon Wafer, SiO2, and Al Thin Films by M. Suzuki (Akita Univ.), S. Watanabe (Akita Univ.), N. Yoshimura (Akita Univ.) and H. Fujita (Tokyo Univ.)

13 Relationship between Interface Effects on Treeing Deterioration and Partial Discharge by Yuan Gangmin, E. Hirade, N. Yoshimura (Akita Univ.), H. Miyata and T. Niwa (Fujikura)

14 The Corrosion Surface Examination by Using Laser Contour Technique by T. Kawamura (NKK)

15 Layup Optimization of Laminated Composites for Stiffness, Vibration and Buckling by H. Fukunaga, M. Satoh and H. Sekine (Tohoku Univ.)

16 Size Distribution Control of Potassium Alum Product Crystals by Changing Cooling Profile in a 10-L Batch Crystallizer by M. Yokota, A. Sato and N. Kubota. (Iwate Univ.)

17 Mechanical Behavior of Metal Matrix Fiber Composites with Fiber-Matrix Interfacial Failure and Slide under Longitudinal Shear Loading by Y. Shibuya (Akita Univ.)


19 Utilization of Slag Fibers as Ecomaterial-Dissolution and Interfacial Properties in Aqueous Media by IBAN EZ Juan Patricio, M. Murakami and H. Sasaki. (Inst. for Advanced Materials Processing, Tohoku Univ.)

20 Fuzzy Regression Analysis for Water Quality of Lake Hachiroku with Satellite Remote Sensing Image by M. Nishida, K. Otsuka and N. Yoshimura (Akita Univ.)

21 Effects of a Small Cavity on the Flashover Phenomenon by M. Nishida (Akita Univ.), M. S. A. A. Hamam (Clarkson Univ.) and N. Yoshimura (Akita Univ.)

22 Transient Thermal Stress Analysis of a Nonhomogeneous Plate with Temperature-Dependent Material Properties by Y. Oota and Y. Tanigawa. (Osaka Prefectural Industrial Tech. Research Inst.)

23 Silicon Oil Based Electrorheological Fluid Dispersing Smectite by T. Fujita, K. Yoshino (Akita Univ.), H. Saiki (Co-op Chemical Co.) and G. Obinata (Akita Univ.)

24 New Technique for the Solid/Solid Separation of Ultrafine Particles in Aqueous Suspension-Effect of Particle Size and Particle Number Concentration Ratio by H. D. Mendoza and H. Sasaki (Tohoku Univ.)


26 Recovery of Lanthanum and Nickel from Rara Metal-EDTA Complex Solution by use of Electrodiialysis Accompanied with Metal-Substitution Reaction by H. Takahashi, S. Hirawatari and K. Kikuchi (Akita Univ.)

27 Development of New Data Base System for Earth Deposit Minerals Resources by Y. Narita (Akita Univ.)
28 The Electrical Characteristics of Perovskite Type by Changing both A-site and B-site by Kim, Tae-Seoung and Hong, Kyung-Jin. (Chonnam National Univ.)

29 The Characteristics of Tracking Degradation under DC Voltage Application Using Platinum Electrode by T. Kamosawa. (Fukusima National College of Tech.)


31 Development of Leakage Current Outdoor Insulators under Pollution Conditions by M. Sato, M. Ootawado and Y. Mishima (Akita Univ.)

32 Criterion of Plastic Instability by H. Moritoki and E. Okuyama (Akita Univ.)

33 Wave Focusing by a Spherical Concave Transducer by K. Watanabe. (Yamagata Univ.)

34 An Application of Magnetic Fluid into the Ultrasonic Nondestructive Evaluation by K. Imano and H. Inoue (Akita Univ.)

35 Thermo-elasto-plastic Constitutive Equations of Particle Reinforced Composite by A. Asakawa, N. Noda, K. Tohgo and T. Tsuji. (Suzuki Co.)

36 Transient Thermoelasticity in a Transversely Isotropic Infinite Cylinder Containing a Flat Circular Rigid Inclusion by F. Ashida (Tsuyama National College of Tech.) and N. Noda (Shizuoka Univ.)

37 Thermal Bending Problem of Nonhomogeneous Beam. Inverse Analysis of Heat Transfer for Beam in Order to Prescribe the Out-plane Deformation by R. Kawanura and Y. Tanigawa (Univ. of Osaka Pref.)

38 Evaluation of Contamination of Hydraulic Fluid by Using Ultrasonic Sensor by Y. Sasaki, T. Kohno and Y. Takahashi (Akita Univ.)

39 Fracture Properties of Type 316LN and 316L Stainless Steels at Low Temperature by O. Kamiya, Chaoting Wang and K. Kumagai (Akita Univ.)

40 Monte Carlo Simulation of Electron Swarm in a Gas by T. Miura and T. Tanigahara (AKita Univ.)

41 Loss Characteristics of MnMgZn Ferrite by K. Igarashi, T. Murase and T. Nomura. (TDK Corp.)


43 Preparation of Barium Titanate by a Coprecipitation Method by K. Sugawara, T. Fukushima, T. Nishino and T. Sugawara (Akita Univ.)

44 Desulfurization of High Sulfur Coals by Rapid Pyrolysis with Alkali Leaching by K. Sugawara, K. Abe and T. Sugawara (Akita Univ.)


47 2-Dimensional Elasto-Dynamic Theory of Inhomogeneous Layers for Reflection and Transmission Analysis by T. Ohyoshi and K. Miura (Akita Univ.)

48 Computation of Reflectance of Elastic Waves to a Gradient Inhomogeneous Layer by K. Miura and T. Ohyoshi (Akita Univ.)

49 New Possibilities of Solid-State NMR in Mechanistic Studies of Catalysis and Molecular Design of Solid Catalysts by S. Nakata (Chiyoda Corp.)

50 Capacitance Degradation under DC Electrical Field of Ni-Electrode Multilayer Ceramic Capacitors of Temperature Stable Dielectries by A. Sato, T. Arashi, Y. Nakano and T. Nomura (TDK Corp.)

51 Correlation between Microstructure and Magnetic Properties in Co-Cr Films by N. Honda, K. Harada, S. Okamoto and K. Ouchi (Akita Research Inst. of Advanced Tech.)


56 Production Technique of Ultrafine Particles by Laser by S. Hioki (Hitachi Powdered Metals Co.)

57 Preparation of LiNiO₂, Cathode Material of High Voltage Li-battery, by Thermal Decomposition of Basic Nitrate Mixed Salts by H. Yazaki, K. Fuda and T. Matsunaga (Akita Univ.)

58 Details Analysis of de Haas-van Alphen Effect in Free Electron System by A. Narita (Akita National College of Tech.)

59 Production of Thin Silicon Steel Sheets by Tertiary Recrystallization by M. Nakano, K. Ishiyama and K. I. Arai (Tohoku Univ.)
LANGUAGE
The official language of the conference is English.

REGISTRATION
All participants are requested to register with payment in Japanese Yen by direct bank transfer.

Registration ¥30,000
(including reception on Oct. 19)

Banquet ¥10,000

SECOND INTERNATIONAL CONFERENCE ON MATERIALS ENGINEERING FOR RESOURCES (ICMR'94, AKITA)

PLACE: AKITA VIEW HOTEL
DATE: Oct. 20~22, 1994
RECEPTION: Oct. 19, 1994
BANQUET: Oct. 20, 1994
LODGING: Oct. 19~22, 1994
single, twin, or double

TOUR: Oct. 23, 1994
(OPTIONAL)

EXHIBITION
There will be an exhibition of advanced materials, catalogues, and VTR's on new technological development in the local as well as global areas.
ACCOMMODATIONS

The Executive Committee has appointed Nippon Travel Agency as the official travel agent in charge of travel and hotel arrangements.

Please contact:
<overseas>
Shinya Yamada
ICMR'94 Desk
Nippon Travel Agency Co. Ltd.
Sendai Branch
fax. 81-22-222-7570
phone. 81-22-224-0155

<domestic>
Tom Sasaki
ICMR'94 Akita Desk
Nippon Travel Agency Co. Ltd.
Akita Branch
fax. 0188-66-0100
phone. 0188-66-0111

SHORT INTRODUCTION OF AKITA

Located in the northwestern part of the main island Honshu (around 40° north latitude and 140° east longitude), AKITA has been famous for its abundant underground resources including gold, copper and oil since ancient times, and is now attracting high technological industries for the diligent and sincere attitude of its residents.

At the same time, AKITA is known as the base of rice, ceder and electricity, with nice resorts facing the Sea of Japan on the west and hot springs especially in the mountain area on the eastern border. Each distinct season offers its own scenic charm: special ‘golden autumn’ in October. Temperature is around 13°C (average, 18°C (day time) ~ 8°C (night time)) in late October with mild and fair weather.

It takes 1 hr from Haneda (Tokyo) with 6 flights daily (All Nippon Airways 4 flights, Japan Airline 2 flights). Flight service is also available from Osaka, Nagoya, and Sapporo. You can also enjoy a 5 hr train trip from Tokyo by bullet (Tokyo-Morioka, Tohoku Shinkansen, 3 h) and limited express (Morioka Akita, 2 h).
TIMETABLE

- August 31, 1994
  Deadline for pre-registration for overseas
- September 20, 1994
  Deadline for pre-registration for domestic

MAILING ADDRESS

ICMR ’94, AKITA
Mining College, Akita University
AKITA, 010 JAPAN

CORRESPONDENCE

Facsimile 81-188-37-0404 (Overseas)
0188-37-0404 (Domestic)

Please contact the Executive Committee through facsimile if you have questions.

ORGANIZING COMMITTEE

Honorary Chairperson:
K. Ohitsuuka (Prof. Emeritus of Akita Univ.)

General Chairpersons:
N. Yoshimura (Chairman of SMER of Japan, Akita Univ.)
H. Tokuda (Dean of Mining College, Akita Univ.)
H. Hayashi (Director of RINR, Mining College, Akita Univ.)

Chairpersons of Executive Committee, T. Sugawara (Akita Univ.);
Finance Committee, Y. Takahashi (Akita Univ.);
Programming Committee, K. Makino (Akita Univ.);
Steering Committee, T. Ohyoshi (Akita Univ.).

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Y. Ishikawa (Akita Univ.), M. Iwamoto (Tokyo Inst. Tech.),
Y. Kanda (Yamagata Univ.), M. Katahira (Graphtech),
A. Kato (Noritake), H. Komiyama (Univ. of Tokyo),
A. Onozaki (Kosaka Smelting and Refining), T. Masaki (TDK),
T. Matsunaga (Akita Univ.), M. Mishuku (Fuji Din), Y. Miura (Sumikin
Kashima Kousan), T. Mizutani (Nagoya Univ.), Y.
Mori (Kansai Insulating Ind.), A. Moriya (Akita
Electronics), T. Oda (Univ. of Tokyo), T. Ohmuro
(Nippon Chemicon), A. Okamoto (TDK), H. Osanai
(Fujikura), K. Ota (Yokohama Natl. Univ.), K.
Ouchi (Akita Research Inst. of Tech.), M. Sadaikata
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