

FINAL CIRCULAR
INTERNATIONAL CONFERENCE
ON MATERIALS ENGINEERING
FOR RESOURCES



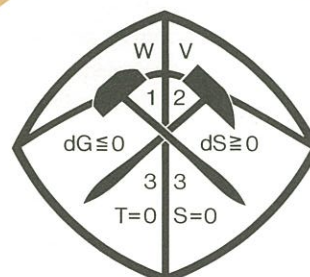
ICMR '91 AKITA

November 5-7, 1991
AKITA VIEW HOTEL
AKITA CITY, AKITA PREF., JAPAN

ICMR '91, AKITA
Mining College, Akita University
AKITA, 010 JAPAN
Facsimile 0188-34-9708

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Organized by:
The Society of Materials Engineering
for Resources of Japan
and
Mining College, Akita University, Japan

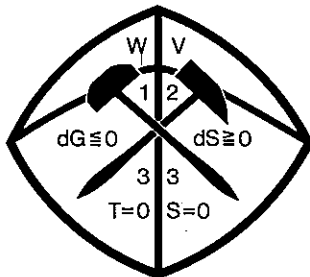
ICMR '91 AKITA

This international conference is organized by the Society of Materials Engineering for Resources of Japan and the Mining College, Akita University, and is cosponsored by Akita Prefecture and Akita City.

The aim of the conference is to re-examine the traditional status of diversified engineering fields such as resource development, materials design and processing, and mechanical and process control ; and to integrate the separate ideas into the new concepts which give a perspective view from electronic and molecular to mechanical properties.

Through the conference you may also have an insight into the harmonized relation of future technology and culture.

The heritage of resource-research community enables Akita to be the place for the first international conference on materials engineering for resources.



The organizing committee extends a cordial invitation to you to participate in the International Conference on Materials Engineering for Resources to be held at the Akita View Hotel, November 5-7, 1991.

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 of Journal of the Society of Materials Engineering of Japan (JOSMER Japan) in December, 1992. The deadline for submission is June 30, 1992.

TIME SCHEDULE

Date/Time		Room	Main Room	Room A	Room B
Nov. 4, Mon	15:00–			Registration	
	18:00–20:00		Reception		
Nov. 5, Tue	8:00–			Registration	
	9:00– 9:30		Opening Ceremony		
	9:30– 12:00		Plenary Session		
	13:00– 14:55		Plenary Session		
				Coffee Break	
	15:25– 17:25			Keynote Session (I–a)	Keynote Session (II–a)
	18:30–20:30		Banquet		
Nov. 6, Wed	8:00–			Registration	
	9:00– 10:40			Keynote Session (I–b)	Keynote Session (II–b)
	11:00– 12:00			Keynote Session (III–a)	Keynote Session (IV–a)
	13:00– 14:00			Keynote Session (III–b)	Keynote Session (IV–b)
				Coffee Break	
Nov. 7, Thu	14:30– 15:30			Keynote Session (III–b)	Keynote Session (IV–b)
	9:00– 12:00			Poster Session (A)	Poster Session (B)
	12:00– 13:00		Closing Ceremony		

PLENARY SESSION

Chairpersons:

K. Makino, T. Matsunaga, G. Obinata, T. Oda,
K. Ohtsuka, T. Sugawara, N. Yoshimura

"Enabling Process Technologies for Ceramics"

Norton Associate Professor Michael J. Cima
Ceramics Processing Research Laboratory,
Massachusetts Institute of Technology
U.S.A.

He will discuss new process techniques and methodologies that may improve the utility of both electronic and structural ceramics. The talk will also include discussion of the development of processing science for ceramics.

"Control Engineering as an Integrating Discipline from the 17th to the 21st Century"

Professor Brian D.O. Anderson
Department of Systems Engineering,
Australian National University
Australia

He will critically review the control engineering problems from the 17th to the 20th century, and discuss what of the future (1990-2000). He will mention application challenges of control engineering as an integrating discipline to materials processing and handling systems.

"Electron Holography and Its Application to Material Science"

Dr. Akira Tonomura
Advanced Research Laboratory
Hitachi, Ltd.
Japan

The lecture will elucidate that electron holography enables highly precise measurement of material structures even in atomic dimensions as well as measurement of microscopic magnetic structures in ferromagnetic and superconducting materials.

"Defect Chemistry of High Tc Superconductors"

Professor Kazuo Fueki
Faculty of Science and Engineering,
Science University of Tokyo
Professor Emeritus of University of Tokyo,
Japan

Focusing attention on the oxygen nonstoichiometry of oxides, he will discuss the relationships among defect concentration, average valences of multivalent ions, high temperature conductivity and Tc.

"Recovering of Valuable Elements from Complex Ore"

President Tatsuo Konada
Kosaka Smelting and Refining Co. Ltd.
Japan

He will talk over the resources conversion and the materials processing for complicated metal sulfide ores including Kuroko (domestic black ore) based on the activities of the Dowa Mining Co. group.

"The Recent Technical Development of Resources and Materials"

Ex-president Masamichi Fujimori
The Mining and Materials Processing Institute of Japan
Chairman of Sumitomo Metal Mining Co. Ltd., Japan

He will introduce an integrated discipline of separation and refining processes in nonferrous metal industries, and view future possibilities of producing new advanced materials from a perspective of metal processing techniques.

"Present Status and Future Prospects of Mining Industry and Mining Policy in Japan"

Director Hiroe Takahara
Mining Division
Ministry of International Trade and Industry, Japan

The lecture will enlighten us on the present status of the mining industries in Japan, surrounded by the changing world of resources, and show a prospective policy of mining for the future.

KEYNOTE SESSIONS

**Keynote Session (I-a) RESOURCES DEVELOPMENT
November 5, 15:25~17:25**

Chairpersons:

T. Konada, Q. Li, W. W. Schmeltzer,
P. Somasundaran, T. Sugawara, Y. Takahashi

"The Chemical Properties of Coal in Shandong and its Industrial Uses"

Professor Tian Jingrui, Shandong Institute of Mining and Technology, China

"Increase of Oil Recovery by Modified In-Situ Combustion Method"

Professor Heiji Enomoto, Tohoku University, Japan

"Limestone Resources and Processings in Korea"

Dr. Suk-Ho Kang, Yeungnam University, Korea

"A Consideration of Ultrafine Grinding Based on Fracture Mechanics"

Dr. Yoshiteru Kanda, Yamagata University, Japan

"Challenge in Theory and Technology of Flotation"

President Wang Dianzuo, Central South University of Technology, China

"On-Line Measurement of Bulk Density Distribution in Powder Compact by Acoustic Emission"

Dr. Jusuke Hidaka, Doshisha University, Japan

"Towards Recycling Materials Technology in Construction with the Effective Use of Industrial Byproducts"

Professor Asko Sarja, Technical Research Centre of Finland, Finland

**Keynote Session (I-b) RESOURCES DEVELOPMENT
November 6, 9:00~10:40**

Chairpersons:

J. Hidaka, Y. Kanda, S-H Kang, H. Komiyama,
J. Tian, A. Sarja, Y. Shinata

"Degradation of Metal Oxide Arrester Disc"

Dr. Li Qisheng, Electric Power Research Institute of
China, China

**"The Role of Point Defects in the Growth of Oxide
and Sulfide Scales"**

Professor Francesco Gesmundo, Università di Genova,
Italy

"High Temperature Sulphidation of Steels"

Dr. Michel Lambertin, Université de Technologie de
Compiègne, France

**"High Temperature Oxidation and Sulfidation of
Metals"**

Professor W. W. Smeltzer, McMaster University,
Canada

"Fine Particles Processing for Materials Engineering"

Professor P. Somasundaran, Columbia University,
U. S. A.

**Keynote Session (II-a) MATERIALS DESIGN and
PROCESSING**

November 5, 15:25~17:25

Chairpersons:

S. Hammam, M. Iwamoto, T. S. Kim, T. Matsunaga,
T. Mizutani, T. Oda, W. F. Schmidt

**"Diamond and Silicon Carbide : From Abrasives to
Semiconductors via Integration of Selected Precursor
Materials and Process Routes"**

Professor Robert F. Davis, North Carolina State
University, U. S. A.

**"Design of Organized Assemblies Composed of
Amphiphilic Molecules-on Microemulsions"**

Professor Makoto Harada, Kyoto University, Japan

**"Effects of Heat Treatment on the Structural Defects
and Electrical Properties of GaAs"**

Dr. Byung-Teak Lee, Chonnam National University,
Korea

**"Molecular Design of Carbon Materials-Template
Carbonization"**

Professor Akira Tomita, Tohoku University, Japan

**"Chemical Vapor Deposition of Tungsten on Various
Surfaces - Si, TiN, SiO₂ and Al"**

Dr. Shi-Woo Rhee, Pohang Institute of Science and
Technology, Korea

**"Novel Electrical, Optical and Mechanical Properties
of Conducting Polymer"**

Professor Katsumi Yoshino, Osaka University, Japan

**Keynote Session (II-b) MATERIALS DESIGN and
PROCESSING**

November 6, 9:00~10:40

Chairpersons:

F. Davis, F. Gesmundo, M. Harada, B-T Lee,
K. Ouchi, K. Yoshino

"Electrical Properties of Single Monolayers"

Professor Mitsumasa Iwamoto, Tokyo Institute of
Technology, Japan

"Ultrapure Dielectric Liquids – Materials for Electronic and Electrical Engineering"
Dr. Werner F. Schmidt, Hahn-Meitner-Institute, Germany

"High Field Conduction and Breakdown of Polymeric Insulating Films"
Professor Teruyoshi Mizutani, Nagoya University, Japan

"Effects of Thermal Cycling, Ultraviolet Light, and Water Spraying upon 13.2kv Polymer Insulators"
Professor Shawky Hammam, Clarkson University, U. S. A.

"Charge Behavior Measurements on Surface and in Bulk of Charged Polymers"
Professor Tetsuji Oda, University of Tokyo, Japan

**Keynote Session (III-a) MECHANICAL and
PROCESS CONTROL
November 6, 11:00~12:00**

Chairpersons:

K. Adachi, H. Enomoto, T. P. Meloy, S. W. Rhee, H. Sekine

"Ionic Magnetic Fluids – Applications"
Professor Dominique Salin, Université Pierre et Marie Curie, France

"Temperature Control System for Materials Processing Using Fuzzy Self-tuning Algorithm"
Professor Tae Seoung Kim, Chonnam National University, Korea

"Observation of Ultrasonic Wave Pulse Propagating in Thick Plate"
Dr. Shen Jianzhong, Institute of Acoustics, China

**Keynote Session (III-b) MECHANICAL and
PROCESS CONTROL
November 6, 13:00~14:00, 14:30~15:30**

Chairpersons:

M. Lambertin, K. Makino, D. Salin, K. Shinohara, D. Wang, T. Wiwut

"Tension Softening Relation for Short-Fiber-Reinforced Composites"
Professor Hideki Sekine, Tohoku University, Japan

"Designing Optimum Mineral Processing Separation Circuits"
Professor Thomas P. Meloy, West Virginia University, U. S. A.

"Non-uniform Characteristics of Compacted Powder Mass"
Dr. Kunio Shinohara, Hokkaido University, Japan

"Status and Future of Advanced Materials in U. S. A."
Vice President You Song Kim, RIST, Korea

"Knife and Blade Coating : Effects of Wettability of the Scraper on the Ribbing Phenomena"
Dr. Kitaro Adachi, Kyoto University, Japan

"Collection of Ultrafine or Submicron Particles on a Dust-Loaded Fiber"
Dr. Wiwut Tanthapanichakoon, Chulalongkorn University, Thailand

**Keynote Session (IV-a) INTEGRATION OF THE
SEPARATE IDEAS INTO THE NEW CONCEPT
November 6, 11:00~12:00**

Chairpersons:

J-S Chang, T. S. Jordan, Y. S. Kim, K. Ota,
T. Takada, R. Watanabe

“Behavior of Fluids and Fluid Mixtures in
Microporous Materials – Computer Simulation”
Professor K. E. Gubbins, Cornell University, U. S. A.

“Volume Phase Transition in Polymeric Gels”
Professor Yasuhiko Arai, Kyushu University, Japan

“Supercritical Fluid Technology – Fundamentals and
Applications”
Professor Amyn S. Teja, Georgia Institute of
Technology, U. S. A.

**Keynote Session (IV-b) INTEGRATION OF THE
SEPARATE IDEAS INTO THE NEW CONCEPT
November 6, 13:00~14:00, 14:30~15:30**

Chairpersons:

Y. Arai, K. E. Gubbins, Y. Ishikawa, J. Shen,
A. S. Teja

“Materials Problems of Molten Carbonate Fuel Cell –
Solubilities of Metal Oxide in Molten Carbonate”
Dr. Ken-ichiro Ota, Yokohama National University,
Japan

“Processing Strategies for Resource Conservation and
Environmental Protection”
Professor Theodore S. Jordan, Montana College of
Mineral Science and Technology, U. S. A.

“Microstructural Optimization of a Thermal Stress-
relief Type of Functionally Gradient Materials”
Professor Ryuzo Watanabe, Tohoku University,
Japan

“Scaling up of Thin Film Processes from Substance
Level to Material Level”
Professor Hiroshi Komiyama, University of Tokyo,
Japan

“Recent Development in Plasma Synthesis Techniques
for Advanced Ceramic Ultra-fine Powders”
Professor Jen-Shih Chang, McMaster University,
Canada

“Research Trends in Magnetic Information Storage
Materials”
Dr. Kazuhiro Ouchi, Akita Research Institute of High
Technology (temporary name), Japan

POSTER SESSIONS

All the posters submitted will be grouped.
Please check your group at the conference desk.

Advisory Board

Room A : K. Adachi, H. Enomoto, T. Fujita*,
J. Hidaka, Y. Kanda, S-H Kang, H. Komiyama,
T. Konada, M. Lambertin, K. Makino, T. P. Meloy,
Li Qisheng, S. W. Rhee, D. Salin*, A. Sarja,
W. W. Schmeltzer, H. Sekine, Y. Shinata, K. Shinohara,
J. Tian, D. Wang, P. Somasundaran, T. Sugawara,
Y. Takahashi, T. Wiwut

Room B : Y. Arai, J-S Chang, F. Davis, F. Gesmundo,
K. E. Gubbins, S. Hammam, M. Harada, Y. Ishikawa,
M. Iwamoto, T. S. Jordan, Y. S. Kim, B-T Lee,
T. Matsunaga, T. Mizutani, M. Nishida*, T. Oda, K. Ota,
K. Ouchi, J. Shen, W. F. Schmidt*, T. Takada, A. S. Teja,
R. Watanabe, N. Yoshimura, K. Yoshino

*.....Chief commentators

1. "Preparation of photorefractive BaTiO₃ single crystal"
S. Ajimura, O. Nakao, A. Kurosawa, H. Tominaga,
O. Fukuda, H. Osanai, Fujikura Ltd., Japan
2. "Passive control of the longitudinal vibration of a pipe-string in the deep sea"
K. Aso, K. Kan, H. Doki, T. Ohkushi, Akita Univ., Japan
3. "Preparation of colored magnetic powder"
T. Atarashi, Nittetsu Mining Co. Ltd., Japan
4. "A study of changes of structure and physical properties of talc ground by tumbling and planetary ball mills"
J. M. Filio, K. Sugiyama, F. Saito, Y. Waseda, Ind. Tech. Develop Inst., Philippines and Tohoku Univ., Japan

5. "Wet blending of strontium carbonate and hematite particles for preparation of strontium ferrite magnet"
T. Fujita, T. Ito, M. Mamiya, Akita Univ. and Kawatetsu Mining Co. Ltd., Japan
6. "A study of peeling that occurs between some copper alloys and solders after heating"
R. Futatsuka, Mitsubishi Shindoh Co. Ltd., Japan
7. "Partial discharge characteristics of ceramic capacitor with failure"
Li Guangfan, N. Yoshimura, H. Kudo, M. Ogasawara, Electric Powers Res. Inst. of China, China, Akita Univ. and TDK Corp., Japan
8. "Applying rare earth permanent magnetic separation to the purification of industrial minerals and raw materials" T. Homma, Y. Hamano, Eriez Magnetics Japan Co. Ltd., Japan
9. "Erosion-corrosion behavior of heat resistant alloys at elevated temperatures"
M. Honda, T. Hattori, K. Yamamoto, A. Tamada, M. Matsumura, Y. Oka, NKK Corp., Japan
10. "A Proposal for fortelling coil breakdown by discharge pulse counting"
R. Igarashi, Y. Narita, Akita Univ., Japan
11. "Swarming pulsive microdischarge characteristics in internal void of epoxy resin"
T. Ishida, M. Nagao, Y. Mizuno, M. Kosaki, Toyohashi Univ. of Tech., Japan
12. "Characteristics on the resource geology of the Kuroko deposits (volcanogenic massive sulfide deposits) at the Hokuroku district, Akita Prefecture, Japan"
Y. Ishikawa, K. Okamoto, Akita Univ. and Akita Pref., Japan

13. "Preparation of SiO₂, thin film by sol-gel method"
A. Ito, N. Yoshimura, Fukushima National College of Tech. and Akita Univ., Japan
14. "Effects of ferrite magnetic wedge on running characteristics of capacitor motor with chopped voltage source"
A. Kaga, Y. Anazawa, K. Tajima, Akita Univ., Japan
15. "Properties of concrete with slag produced from waste treatment center of blast furnace type"
M. Kagaya, H. Tokuda, M. Kawakami, Akita Univ., Japan
16. "Investigation of tracking deterioration for organic insulating material under direct current application"
T. Kamosawa, T. Niwa, H. Miyata, T. Takahashi, N. Yoshimura, M. Nishida, F. Noto, Fukushima National College of Tech., Fujikura Co. Ltd., Akita Univ. and Hachinohe Inst. of Tech., Japan
17. "Status of composite pipe technologies in sewer system"
M. Kawakami, H. Tokuda, M. Kagaya, O. Shinoe, M. Watanabe, Akita Univ. and Teikyu Corp., Japan
18. "The measurement of thermal stress in plastic molded IC"
K. Kawasaki, T. Shoji, K. Hatakeyama, A. Abe, N. Yoshimura, Akita Univ. and Akita Electronics Co. Ltd., Japan
19. "Mirror finish of brittle materials using high-concentration lapping discs with low bonding strength"
K. Kawata, Y. Tani, Taiho Industries Co. Ltd., and Univ. of Tokyo, Japan

20. "Aluminum-27 MASNMR studies on the transformation of an aqueous sol to transparent alumina film by sol-gel method"
Y. Kobayashi, S. Nakata, Y. Kurokawa, Tohoku Univ. and Chiyoda Corp., Japan
21. "Recovery of fine particles of rare earth minerals by liquid-liquid extraction method"
E. Kusaka, Y. Nakahiro, T. Wakamatsu, Kyoto Univ., Japan
22. "Thermophysical discussions on electro-ceramics manufacturing processes - the case of BaTiO₃-"
K. Makino, T. Shoji, Akita Univ., Japan
23. "Criterion and limit of ductility in metal forming"
H. Moritoki, Akita Univ., Japan
24. "Application of sol-gel process to preparation of active catalyst for SRC hydrocracking"
T. Murakata, T. Masuzawa, S. Yamada, T. Suzuki, S. Sato, Yamagata Univ., Japan
25. "Production of ultrafine amorphous alloy powders in nonaqueous media and their surface characteristics"
A. Muramatsu, H. Sasaki, S. Usui, Tohoku Univ., Japan
26. "Advances in the chemical structural investigation of new functional inorganic materials by solid-state MASNMR"
S. Nakata, Chiyoda Corp., Japan
27. "Residual charge effect on water droplet"
M. Nishida, M.S.A.A. Hammam, N. Yoshimura Akita Univ., Japan and Clarkson Univ., U.S.A
28. "The measurements of static friction on micromechatronics elements"
K. Noguchi, M. Suzuki, N. Yoshimura, H. Fujita, Akita Univ. and the Univ. of Tokyo, Japan

29. "The use of neural networks as numeric-symbolic converters for adaptive control systems"
G. Obinata, Y. Muragishi, Akita Univ. and Shinko Electric Co. Ltd., Japan
30. "A new refining process of iron oxide for magnetic materials from iron ore"
S. Ogasawara, Y. Narita, T. Ito, Y. Ikeda
Kawatetsu Mining Co. and Kawasaki Steel Co., Japan
31. "Sorption and methanation of CO_3^{2-} ions in anion-exchange layered double hydroxides"
K. Oguchi, K. Fuda, T. Matsunaga, Mitsubishi Oil Co. Ltd. and Akita Univ., Japan
32. "Reflection and transmission of elastic waves from a dissimilar layer"
T. Ohyoshi, Akita Univ., Japan
33. "Far-infrared radiation properties of natural zeolite"
Y. Sasaki, J. Matsumoto, H. Taguchi,
N. Yoshimura, Akita Univ. and TDK Corp., Japan
34. "Shape and size classification of crushed particles"
T. Shibata, K. Yamaguchi, Hokkaido Univ., Japan
35. "Strength and durability of concrete incorporating ferro-nickel slag sand and natural ore"
M. Shoya, S. Sugita, Y. Tsukinaga,
Hachinohe Inst. of Tech., Japan
36. "Experimental study on preparation process for yttria powder by alkoxide hydrolysis"
K. Sugawara, S. Wakamatsu, T. Sugawara,
Akita Univ., Japan

37. "Use of rice husk ash as admixture in concrete"
S. Sugita, M. Shoya, H. Tokuda, Hachinohe Inst. of Tech. and Akita Univ., Japan
38. "Analysis of noise reduction mechanism of ceramic varistor"
M. Suzuki, S. Shibata, A. Itoh, N. Yoshimura,
Akita Univ., TDK Corp. and Fukushima National College of Tech., Japan
39. "Magnetizing characteristics for orthogonal-core calculated on magnetic circuit"
K. Tajima, O. Ichinokura, A. Kaga, Y. Anazawa,
Akita Univ., Japan
40. "Separation of light rare-earth metals from rare-earth mixture solution by use of electro dialysis with complexing agents"
H. Takahashi, K. Miwa, K. Kikuchi, Akita Univ., Japan
41. "Simulation of hydraulic breaker performance - on accumulator behavior"
Y. Takahashi, Akita Univ., Japan
42. "Application of fuzzy estimation method to a Boltzmann equation analysis"
T. Taniguchi, K. Ohtsuka, M. Suzuki,
N. Yoshimura, H. Tagashira, Akita Univ., and Hokkaido Univ., Japan
43. "Tests for determination of elastic parameters of 3-layered beams"
S. Usuki, Y. Horie, K. Hasebe, Akita Univ., and Akita National College of Tech., Japan
44. "Effects of heat treatment on properties of Co magnetic fluids"
H. Yamamoto, T. Kanno, I. Nakatani, NOK Corp. and National Res. Inst. for Metal, Japan

45. "Fundamental study of magnetic tracer for measurement of subsurface fracture"
H. Yamanobe, K. Nakatsuka, Tohoku Univ., Japan
46. "The effects of additives on ZnO varistors"
M. Yodokawa, T. Yamazaki, H. Kano, TDK Corp., Japan
47. "Dielectrical characteristics of ZrO₂ film prepared by sol-gel method"
N. Yoshimura, M. Itoi, S. Sato, H. Taguchi, Akita Univ. and TDK Corp., Japan

(Alphabetical order of the first authors)



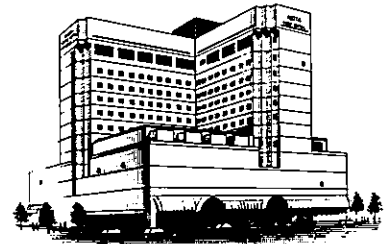
LANGUAGE

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)
Banquet ¥10,000



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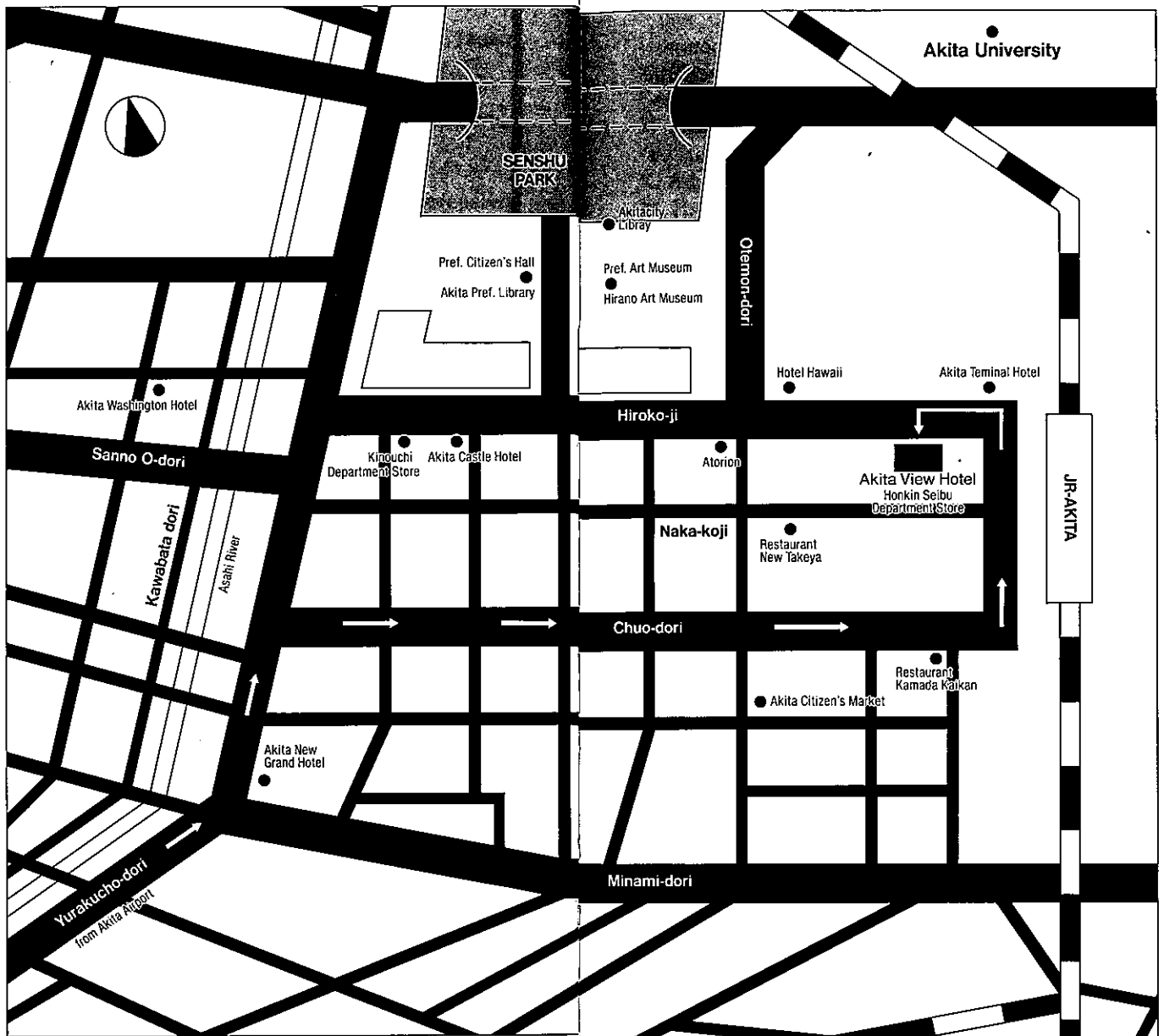
RECEPTION : NOV. 4, 1991

BANQUET : NOV. 5, 1991

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.

MAP OF CONFERENCE SITE



ACCOMMODATION

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

Please refer to the brochure attached to the final circular.

Please contact :

Mr. M. Miura
ICMR '91 Desk
Nippon Travel Agency Co. Ltd.
Alphabet Seven Bldg. 102
6-38, Akasaka 7-chome, Minato-ku,
Tokyo 107, Japan
Facsimile : 03-3587-0563
Phone : 03-3588-0372

TIMETABLE

September 10, 1991
Deadline for pre-registration for overseas

October 10, 1991
Deadline for pre-registration for domestics

MAILING ADDRESS

Facsimile 0188-34-9708

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Mining College, Akita University
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ORGANIZING COMMITTEE

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General Chairperson :

N. Yoshimura (Akita Univ.)

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M. Harada (Kyoto Univ.), J. Hidaka (Doshisha Univ.),
Y. Ishikawa (Akita Univ.), T. Ito (Hitachi Computer
Peripherals), M. Iwamoto (Tokyo Institute of Tech.),
M. Katahira (Graphtech), A. Kato (Noritake),
H. Komiyama (Univ. of Tokyo), T. Konada (Kosaka
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T. Masaki (TDK), T. Matsunaga (Akita Univ.),
M. Mishuku (Fuji Die), T. Mizutani (Nagoya Univ.),
Y. Mori (Kansai Insulating Industries), A. Moriya
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(Tohoku Univ.), A. Senbokuya (Hitachi Powdered
Metals), Y. Shinata (Akita Univ.), K. Shinohara
(Hokkaido Univ.), T. Sugawara (Akita Univ.),
T. Takada (Musashi Institute of Tech.), Y. Takahashi
(Akita Univ.), H. Tokuda (Akita Univ.), S. Watanabe
(Mitsubishi Materials)

Chairpersons :

Executive Committee : T. Sugawara

Finance Committee : Y. Takahashi

Programming Committee : K. Makino

Steering Committee : T. Matsunaga