

INTERNATIONAL SYMPOSIUM ON MICROELECTRONICS AND LABOUR

Secretariat of International Symposium c/o National Institute of Employment and Vocational Research 4-1-1, Nakano, Nakano-ku, Tokyo, 164 JAPAN Tel: 03-387-4808

May 30, 1985

Dear Sir:

As was stated in the preliminary announcement of the International Symposium on Microelectronics and Labour, the Executive Organizing Committee will hold, with the support of the Japanese Ministry of Labour, this Symposium in Japan next September and to this end sends herewith the second announcement with the details of the program.

It is our pleasure to draw your attention to the Tokyo Meeting (the Symposium is composed of two Meetings) which will be held in Tokyo for three days from the 25th to the 27th of September, 1985 and in which people engaging in public administration, labour, management and scholars in OECD countries and Japan's neighboring countries are cordially invited to participate. The Meeting will provide an excellent opportunity to exchange research findings on the effect of microelectronics on such labour aspects as employment, human resources development and industrial relations, and to exchange opinions on responses to these labour-related problems. We expect that the discussion in this Meeting will surely contribute to the improvement of the workers' welfare.

We sincerely hope that you will be able to attend the Tokyo Meeting.

yours sincerely,

A. Amakasu

Keisuke Amakasu Secretary General International Symposium on Microelectronics and Labour

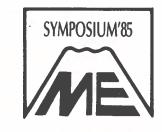


INTERNATIONAL SYMPOSIUM ON MICROELECTRONICS AND LABOUR

INTERNATIONAL SYMPOSIUM ON MICROELECTRONICS AND LABOUR



Improving the Workers' Welfare in the Progressing Field of Microelectronics



Organized by: Executive Organizing Committee for International Symposium on Microelectronics and Labour

Supported by: Ministry of Labour

Ministry of Foreign Affairs Ministry of International Trade and Industry Economic Planning Agency

Under the

In cooperation with :

Sponsored by: National Institute of Employment and Vocational Research Research and Development Institute of Vocational Training Japan Institute of Labour Occupational Health Promotion Foundation University of Occupational and Environmental Health

patronage of: Organisation for Economic Co-operation and Development

International Labour Office

INTERNATIONAL SYMPOSIUM GN MICROELECTRONICS AND LABOUR

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GREETINGS

We are very much pleased to have received interested responses to the First Announcement on the International Symposium on Microelectronics and Labour, from trade unions, employers' organizations and scholars concerned with the topics of this Symposium.

It is within four months that the Symposium will be held. The Executive Organizing Committee sends herewith the Second Announcement including details of the program and registration.

We will ask for the participation from those government, labour, management and scholars of the industrialized as well as the neighboring nations. The main theme of the Symposium is "Improving the workers' welfare in the progressing field of microelectronics." The Symposium will provide a forum for the exchange of the fruit of research in such labour-related issues as "economic growth, employment and labour market," "human resources development," "industrial relations and working conditions," and "occupational health and safety." It will also provide an important opportunity to exchange opinions on responses of government, labour and management of these issues.

Since we are on the verge of full microelectronization today, it is expected that the exchange of views and research findings at this Symposium will contribute to the exploitation of concrete ways of dealing with these labour problems.

For this purpose, we ask for the active participation of all interested persons in government, labour and management and of scholars in this International Symposium on Microelectronics and Labour.

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Chairman Executive Organizing Committee

EXECUTIVE ORGANIZING COMMITTEE

Honorary Chairman

Hiromi ARISAWA	Professor Emeritus, University of Tokyo
Chairman	
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Toshio TAGAYA	Director, Research and Development Institute of Vocational Training Regular Member of the Workers' Group of the Governing Body, International Labour Organisation; Member of the Administrative Committee, Trade Union Advisory Committee, Organisation for Economic Co-operation
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Toshio TAGAYA Yoshikazu TANAKA Toshifumi TATEYAMA Kenzaburo TSUCHIYA Shojiro UJIHARA	 Director, Research and Development Institute of Vocational Training Regular Member of the Workers' Group of the Governing Body, International Labour Organisation; Member of the Administrative Committee, Trade Union Advisory Committee, Organisation for Economic Co-operation and Development President, Japanese Private Sector Trade Union Council President, University of Occupational and Environmental Health Director, National Institute of Employment and Vocational Research

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Second Work Group / Microelectronics and Human Resources Development · 14

Third Work Group / Microelectronics and Industrial Relations and Working Conditions • 16

Notes: 1) The program of both meetings is the one as of May, 1985.

2) Forms enclosed in this announcement are

Registration Form (Tokyo-I),

Hotel Reservation Form (Tokyo-II),

Registration Form (Kitakyushu – I), and

Hotel Reservation Form (Kitakyushu-II).

ESSENTIALS OF SYMPOSIUM

Purpose

Not only developed countries but developing countries are concerned about the impact of technological innovations, with microelectronics as their primary factor, on workers. Conferences on this topic have been held in various parts of the world such as the International Conference on Technological Development and Employment that was held in April, 1985, in Venice under the participation of ministers of OECD countries.

Government, labour, management and scholars in industrialized countries and neighboring countries of Japan will be asked to participate in this symposium which is being organized as a forum to exchange experiences between governments, trade unions and employers' organizations. The symposium will focus on problems and research and study results regarding microelectronics in various countries, in order to develop concrete ways to improve the workers' welfare. Its specific concerns are with increasing employment opportunities, developing human resources, encouraging appropriate responses by labour and management, improving working conditions, and securing occupational safety and health.

Main Theme

Improving the workers' welfare in the progressing field of microelectronics

Format

The symposium will be composed of two Meetings, one in Tokyo and another in Kitakyushu. The former Meeting's topics are employment, human resources development, and industrial relations and it will be held in Tokyo for three days, September 25-27, with features such as addresses and panel discussion by scholars, government officials, labour and management. The latter, which is basically an academic conference exchanging research results on occupational health, will be held in Kitakyushu, Fukuoka Prefecture during September 20-21. The Kitakyushu Meeting is a satellite symposium in which governments, labour and management will be asked to participate. Discussions of the Kitakyushu Meeting will be reported to the Tokyo Meeting where the concluding session will deal with them as well as with the discussion of the Tokyo Meeting.

Languages

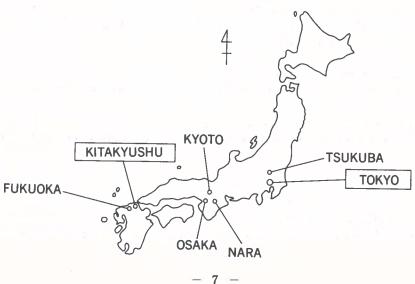
The official languages are Japanese and English: simultaneous interpretation will be available.

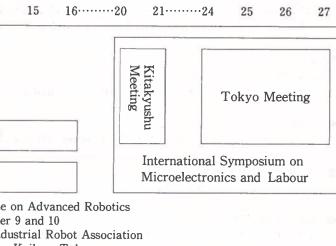
Other International Conventions and Exhibitions

The following topically related conventions and exhibitions will also be held in September, 1985 in Japan.

September 1985

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- en Kaikan, Tokvo
- um on Industrial Robots
- er 11-13
- dustrial Robot Association
- en Kaikan, Tokvo
- Robots Exhibition
- er 12-16
- lustrial News and Japan Industrial Robot Association onal Trade Fair Center, Tokyo
- sukuba, Japan, 1985
- September 16
- sociation for the International Exposition, Tsukuba 1985 Science City, Ibaragi Prefecture

TOKYO MEETING

Themes

- 1. Microelectronics and Economic Growth, Employment and Labour Market
- 2. Microelectronics and Human Resources Development
- 3. Microelectronics and Industrial Relations and Working Conditions

Dates

September 25-27, 1985 (September 24 will be set aside for visits to companies.)

●Venue

Keio Plaza Hotel (2-1, Nishi Shinjuku 1-chome, Shinjuku-ku, Tokyo)

Document Distribution Texts of reports and addresses

Participation Fee

¥50,000 (This fee is good only for the Tokyo Meeting. A separate fee will be charged for the Kitakyushu Meeting.)

SYMPOSIUM OUTLINE

Technical Visit

September 24 (Tuesday)

Technical visits to highly microelectronized factories and offices for overseas participants prior to the opening of the symposium

Symposium

Plenary Meeting, September 25(Wednesday)

Propositions of basic ideas and issues to serve as the keynote of this symposium, as well as reports on the status quo of microelectronization

Working Session, September 26 (Thursday)

Three work groups will be organized for presentations and discussions on the respective themes.

Plenary Meeting, September 27(Friday)

A general discussion based on the reports of discussions in the work groups and the Kitakyushu Meeting

Social Program

Reception, September 25, 17:30-19:30 at Concord Ball Room, Keio Plaza Hotel All participants and their accompanying persons of the Tokyo Meeting will be invited.

	September 23	Septembe	September 24(Tue.)	September 25(Wed.)	September 26(Thu.)	September 27(Fri.)
8:00 -					10 L 11	
- 00:6					1 10	Special Lecture
10:00 -				Opening Ceremony	Working Session :	Reports on
11:00 -				Keynote Address	Presentation	Working Session
12:00 -				Report on the Venice Conference	an Star Chin	Report on Kitakyushu Meeting
13:00 -			Technical	Lunch	Funch Control	Lunch
14:00 -		Registration	Visit	Reports by ILO and OECD	Contrast e con e contra contra di contra tenental ferental	Concluding Session
15:00 +			thun a(11)			1
16:00 -		ngt k bler e uten l fune l	opivos) 40 luo	Special Addresses	Working Session : Panel Discussion	Summary Report
17:00 -			-11 11 -1 11 -:			
18:00 -	Registration					
19:00			- 1- 1-	Welcome Reception		
20:00 -			H. D.			
21:00 -	1977					

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PROGRAM

September 24 (Tuesday)

Technical Visit

September 25 (Wednesday)

9:30-10:30	Opening Ceremony	
	Dr. Mikio Sumiya	
	Chairman, Executive Organizing Committee	
	Mr. Yasuhiro Nakasone	
	Prime Minister	
	Mr. Toshio Yamaguchi	
	Minister of Labour	
	Mr. Takeshi Kurokawa	
	President, General Council of Trade Unions of Japan	
	Mr. Bunpei Otsuki	
	President, Japan Federation of Employers' Associations	
	Mr. Francis Blanchard	
	Director-General, ILO	
	(The message will be delivered by an ILO's participant.)	
	Mr. Jean Claude Paye	
	Secretary General, OECD	
	(The message will be delivered by an OECD's participant.)	
10:30-11:30	Keynote Address	
	Prof. Shojiro Ujihara	
	Director, National Institute of Employment and Vocational	
	Research, Japan	
11:30-12:00	Report on the International Conference on Technological Development	
	and Employment	
	Italian Government	
12:00-14:00	Lunch	
L4:00-15:00	Reports by ILO and OECD	
	Mr. Jack Martin	
	Chief, Employment and Development Department, ILO	
	OECD Secretariat	
15:20-16:20	Special Addresses	
	Mr. Tadanobu Usami	
	President, Japanese Confederation of Labour	
	Mr. Masao Kamei	
	Vice President, Japan Federation of Employers' Associations	
17:30-19:30	Reception	
Sontombr	r 26 (Thursday)	6.52
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9:00-12:00 Working Session (Presentation) Lunch 12:00-13:30 Working Session (Panel Discussion) 13:30-18:00 Notes: 1) Three work groups will be organized. 2) The First Work Group will focus on the subjects of economic growth, employment and labour market; the Second Work Group on human resources development; and the Third Work Group on industrial relations and work-

3) Topics for discussion will be suggested for each work group. 4) In the morning presentations will be made by 5 to 8 speakers in each group. 5) In the afternoon a panel discussion in which speakers, panelists, as well as attending participants may participate, will take place.

Professor, Science Policy Research Unit, University of Sussex, U.K.

Dr. Yoko Sano (Chairman of First Work Group)

Dr. Marc Maurice (Chairman of Second Work Group)

Dr. Kazuyoshi Koshiro (Chairman of Third Work Group)

President, University of Occupational and Environmental Health, Japan

Chairman: Dr. Mikio Sumiya (Chairman, Executive Organizing Committee) Panelists: Dr. Friedrich Fürstenberg (Chairman of First Work Group) Dr. Kazuo Koike (Chairman of Second Work Group)

Dr. Michael Piore (Chairman of Third Work Group)

Director-General of Employment Security Bureau,

Ministry of Labour, Japan

President, Federation of Independent Unions of Japan

Member of Policy Board, Japan Federation of Employers'

Honorary Chairman, Executive Organizing Committee

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FIRST WORK GROUP

Theme

Microelectronics and Economic Growth, Employment and Labour Market

What impact do technological innovations, with microelectronics as their primary factor, have on the quantity and quality of macro- and micro-employment, on the qualitative composition of employment and on the labour market? What economic and employment policies should be pursued in order to expand economic growth and employment while coping with the change in the labour market caused by this trend?

- (1) The impact of microelectronics on employment and conditions for the maintenance and expansion of employment
 - a. What is the impact on employment (expansion, reduction, generation, or qualitative change) found in which areas (type of industry and business, workers' attributes) in response to the nature of microelectronics (factory automation and office automation)?
 - b. What effects do such changes have on the labour market and the quantity of employment in the macro-economy as a whole? How can the correlations between changes in the labour market and variations in the quantity of employment be best understood?
 - c. What kind of mechanism should be created to ensure economic growth and the maintenance and expansion of employment under conditions of continuing technological innovation? What conditions are necessary for such a mechanism?
- (2) Problems demanding special attention for adjusting labour demand and supply
 - a. Employment of women and middle-aged and elderly workers
 - b. Securing workers in the software industry
 - c. Dealing with new employment modes such as work at home
- (3) Views of and responses to employment under microelectronics by those in government, labour and management
 - a. Employment practices and corporate response to employment system for the expansion and maintenance of employment, and ideas of the government, labour and management at the company and industry-wide level.
 - b. Roles and responses of government concerning the maintenance and expansion of employment and the adjustment of labour demand and supply.

Chairmen

Dr. Yoko Sano Professor, Department of Business and Commerce, Keio University, Japan Dr. Friedrich Fürstenberg Professor of Sociology, Ruhr-University Bochum, F.R.Germany

Presentations

sion of employment

Prof. Masahiro Kuroda Department of Business and Commerce, Keio University, Japan Dr. Friedrich Fürstenberg

ment

Mr. Takuhiko Nakamura President, Japanese Federation of Iron and Steel Workers' Unions Mr. Anders Bäckström Senior Economist, Swedish Trade Union Confederation - LO, Sweden Mr. Bernard Bachelot Head of Training Department, Union des Industries Métallurgiques et Minieres. France

demand and supply

Dr. Gregory Schoepfle Director, Foreign Economic Research, Bureau of International Labor Affairs, Department of Labor, U.S.A. Mr. Graham Reid Chief Economic Advisor and Head of Economic and Social Division, Department of Employment, U.K. Dr. Kreuzaler Abt. 1, 1a1, Bundesministerium für Arbeit und Sozialordnung, F.R. Germany

Panelists

Italian Government Mr. Tsutae Hyodo Executive Vice President, Sumitomo Heavy Industries, Ltd., Japan Mr. Naoyuki Kameyama Senior Researcher, National Institute of Employment and Vocational Research, Japan

1. The impact of microelectronics on employment and conditions for the maintenance and expan-

2. Views of and responses to employment under microelectronics by those in labour and manage-

3. Roles and responses of government to maintain and expand employment and to adjust labour

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SECOND WORK GROUP

Theme

Microelectronics and Human Resources Development

What changes has microelectronics brought to job content and job requirements? What are the effects of these changes on the sequence of job promotion or workers' career? In order to make adaptation to these changes, what kind of new systems are needed for developing workers' abilities, and what rearrangement of the working environment is needed to harmonize human capabilities with these changes?

Issues

- (1) Microelectronics and changes in job content, job requirements, and a sequence of job promotion or workers' career
 - a. How have job content and job requirements changed with microelectronics? Is there an increasing trend toward polarization?
 - b. How have conventional nomenclature of jobs, the span of occupation, and of a sequence of job promotion or workers' career changed because of microelectronics?
 - c. What are the factors for these changes in job content?
- (2) New plan of the worker's skill, of the worker's career and of the system for developing workers' capabilities in the age of microelectronics
 - a. What are the goal of worker's skill and the expected job requirement in the age of microelectronics?
 - b. What are the best systems to develop skills and enhance workers' adaptability in the age of microelectronics?
 - c. How should the responsibility and the cost for enhancing workers' capabilities be shared between the individual workers, corporations and the government?
- (3) Harmony between technology and human capabilities in microelectronics
 - a. Why is it necessary to promote harmony between human capabilities and microelectronic technology?
 - b. How should microelectronic technology be directed at a move toward humanized work? How should work be designed?

Chairmen

Dr. Kazuo Koike Professor, Institute of Economic Research, Kyoto University, Japan Dr. Marc Maurice Laboratoire d'Economie et de Sociologie du Travail, France

Presentations tion or workers' career

> Dr. Marc Maurice Mr. John Monks Congress, U.K.

2. New plan of the worker's skill, of the worker's career and of the system for developing workers' capabilities in the age of microelectronics

Mr. André Ramoff la Formation Professionnelle, France Mr. Yukio Sato

3. Harmony between technology and human capabilities in microelectronics

Prof. Kenji Okuda Faculty of Economics, Sophia University, Japan Mr. Alexander Koch Mitglied des Vorstandes, Grundig A.G., F.R.Germany

Panelists

Mr. Ray Protti Assistant Deputy Minister of Policy, Ministry of Labour, Canada Mr. Ichiro Shioji President, Confederation of Japan Automobile Workers' Unions Mr. John Dorsey Director of Labor Relations, ITT Corporation, U.S.A. Mr. Terutaka Izumi

Vocational Training, Japan

1. Microelectronics and changes in job content, job requirements and a sequence of job promo-

Director, Organization and Industrial Relations Department, Trade Union

Délégué à la Formation Professionnelle, Ministère du Travail, de l'Emploi et de

Executive Vice President and Director, NEC Corporation, Japan

Director, Basic Research Department, Research and Development Institute of

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THIRD WORK GROUP

Theme

Microelectronics and industrial relations and working conditions

What changes has progress in microelectronics brought to industrial relations? What changes are anticipated? How should labour and management respond to the situation in an effort to create a system of industrial relations which aims at the improvement of working conditions (such as wage and work hours) and of overall workers' welfare while solving problems created by these changes?

Issues

(1) Changes in industrial relations under advances in microelectronics

- a. What effect has microelectronics had on the traditional labour strata? Is microelectronics creating new sectors in national economies?
- b. How is microelectronics changing industrial relations at the workplace, company, industry and national level? Compared with past instances of technological innovation, what characterizes today's microelectronics? Will further advances in microelectronics expand or reduce the role of the labour unions? In what aspects is microelectronics notably changing working conditions?

(2) Labour and management views of and their responses to microelectronics

- a. With what strategies and methods have labour and management responded to microelectronics? How have these contributed to the stabilization of industrial relations and to working conditions? How have unorganized workers responded to microelectronics? How have the fruits of the increased productivity, stemming from microelectronics, been shared?
- b. What should government and labour and management do in order to improve the workers' welfare under advances in microelectronics? How do they view the following issues?
- (i) communication between labour and management and a labour-management consultation system
- (ii) items that labour and management must pay attention to in order to enhance workers' adaptability to microelectronics and improve the workers' welfare, and their responses to such items
- (iii) formation of consensus at the industry and l national level, and distribution of the fruits of advances in microelectronics to society

Chairmen

Dr. Kazuvoshi Koshiro Professor, Faculty of Economics, Yokohama National University, Japan Dr. Michael Piore Professor of Economics, Massachusetts Institute of Technology, U.S.A.

Presentations

1. Changes in industrial relations under advances in microelectronics

Dr. Michael Piore

2. Microelectronics and the improvement of working conditions

Mr. Hirovuki Kawaguchi Mr. P.W.M. Lobban U.K.

regarding microelectronics

Dr. Dennis Chamot

4. Labour and management views of and their responses to microelectronics in Japan

Prof. Yasuo Kuwahara

Panelists

Mr. Taiji Hosokawa Managing Director, Nissan Motor Company Ltd., Japan Mr. Roland Schneider Deputy Director of Technological Department, Deutscher Gewerkschaftsbund Bundesvorstand – DGB, F.R. Germany Prof. Takeshi Inagami Faculty of Social Science, Hosei University, Japan

Vice-President, Japanese Federation of Electrical Machine Workers' Unions

Deputy Director, Social Affairs Directorate, Confederation of British Industry,

3. Experience and prospect of labour-management consultation and collective bargaining

Associate Director, Department for Professional Employees, AFL-CIO, U.S.A.

Faculty of Economics, Dokkyo University, Japan

TECHNICAL VISIT

Prior to the opening of the Tokyo Meeting, overseas participants will be encouraged to visit representative Japanese enterprises which have introduced office automation and factory automation. Details are as follows.

Date

September 24, 1985

Participants

Overseas participants in the Tokyo Meeting

Courses

Participants will be divided into five groups and each group will be composed of 10 to 20 persons. Please indicate by numbers from 1 to 5 the order of your preference on the Registration Form (TOKYO- I). When more than 20 people choose the same course as their first preference, a first-come first-sereved principle will be applied.

Schedule

Concadio	
Courses 1, 2 and 3	
Departure from Keio Plaza Hotel	8:30
Briefing at an enterprise	9:30-10:00
Tour	10:00-11:00
Discussion	11:00-12:00
Transfer	12:00-14:30
* Lunch will be provided on the way to a next enterprise.	
Briefing at an enterprise	14:30-15:00
Tour	15:00-16:00
Discussion	16:00-17:00
Arrival at Keio Plaza Hotel	18:30
Courses 4 and 5	
Departure from Keio Plaza Hotel	8:30
Briefing at an enterprise	10:00-10:30
Tour	10:30-12:00
Lunch	12:00-13:30
Discussion	13:30-15:00
Arrival at Keio Plaza Hotel	16:30

Notes

The following points should be of special interest:

a) Introduction of microelectronic machine and equipment

b) The impact of the introduction of microelectronic machine and equipment on employment, work organization, training and working conditions

Discussion will focus on the exchange of opinions on view of and responses to microelectronics and labour.

Lunch

Lunch will be provided by the Secretariat.

Course 1

- •Head Office, Toshiba Corporation, 7,000 employees Products: Electric machine, equipment and others in the electric fields
- •Keihin Works, Nihon Kokan, 11,000 employees Products: Steel and iron
- including efficient use of energy.

Course 2

- Abiko Plant, NEC Corporation, 3,200 employees Products: Communication equipments and computers
- Hitachi Seiki Company Ltd., 1,400 employees Products: Machine tools
- ducts including machine tools for general purposes

Course 3

- Head Office, The Dai-Ichi Kangyo Bank, 3,000 employees **Business: Banking**
- Tokyo Head Office, Asahi Shinbun Publishing Company, 4,500 employees Business: Newspaper
- systematization of editing and plate making

Course 4

- Murayama Plant, Nissan Motor Company, 6,600 employees Products: Automobiles
- soring accidents in the line

Course 5

- Fuchu Factory, Toshiba Corporation, 7,300 employees Products: Switchboards

Features: A leading company in introducing office automation, equipped with 1,000 OA machines and equipments; the decision room and board of directors' room with various kinds of machines and equipments; an OA system throughout the building

Features: A computer-operated iron works; computer controls production plan and operation

Features: An experimental office-automated plant for promoting NEC's strategy, computer & communication; mail, file and slip are processed by an OA system.

Features: A representative Japanese manufacturer of machine tools introducing a flexible manufacturing system; microelectronization of the production process for a range of pro-

Features: One of the largest banks in Japan promoting office automation and processing 25 different jobs by office computer and personal computer

Features: Reducing printing and editing time for newspaper by rationalizing the process through

Features: Automation of the supply of parts in the production line; 200 robots and a system sen-

Features: Manufacturing control and supervision systems for power stations, factories and water services; introducing a flexible manufacturing system in the production process of switchboards which can be applied to the production of various products

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REGISTRATION

Participation Fee

Participation fee is ¥50,000 and it covers

- 1. Participation in all the three-day programs and lunch (3 times),
- 2. Technical visit and lunch on Tuesday, September 24, 1985,
- 3. Participation in the Welcome Reception on the evening of Wednesday, September 25, 1985,
- 4. One set of symposium documents, and
- 5. Symposium Report (to be maild after the symposium).

Application and Remittance

Please complete the Registration Form(TOKYO- I) herewith enclosed and send it to the Symposium Secretariat at the below address with a copy of the remittance receipt of the participation fee issued by the bank by JULY 31, 1985. The Registration Form consists of two pages, please send the first page. The second page is your copy. Those who sent the "Request" postcard from the first announcement are kindly requested to send this form to affirm their registration.

Secretariat of Tokyo Meeting c/o National Institute of Employment and Vocational Re	esearch
4-1-1,Nakano, Nakano-ku Tokyo 164 Japan	

Participation fee must be remitted by bank transfer to the following account in Japanese yen only.

name of the account :

Mr. Keisuke Amakasu, Secretary General, International Symposium on Microelectronics and Labour

name of the bank :

Nakano Branch, The Sumitomo Bank

A/C No. 114172

Notes: 1) No personal cheques will be accepted.

2) Due to the hotel capacity, registration is limited.

3) Registration will be granted on a first-come first-served basis.

Confirmation

Upon receiving your Registration Form and payment, the Secretariat will send you a Registration Confirmation Form.

Registration Desk on Site

The registration desk will be located in the lobby of 4th floor, Keio Plaza Hotel as follows :

September 23, 1985	15:00 - 21:00
September 24, 1985	8:00 - 21:00
September 25 – 27, 1985	8:00 - 18:00

Upon your presentation of the Confirmation Form, symposium doc-ments, name card and other

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materials will be issued. to facilitate the registration procedure on site.

Cancellation

Cancellation should be made in writing to the Secretariat. Please enclose your Registration Confirmation Form and clearly indicate the bank account to which the refund should be remitted. Refund rates are as follows:

Cancellation received by August 31, 1985 Cancellation received after August 31, 1985

All the refund will be made after the symposium.

HOTEL ACCOMMODATIONS

The Secretariat of the Tokyo Meeting has appointed International Congress Service, Inc. (ICS) as the official travel agent in charge of hotel and travel arrangements. In order to simplify application procedures, all applications for hotel and travel will be accepted through the Secretariat. However, ICS will be in charge of issuing a Hotel Reservation Confirmation Form, and arranging alterations and cancellation. Please forward all inquiries concerning hotel accommodations to :

> International Congress Service, Inc. Kasho Bldg. 2F, Nihombashi 2-14-9, Chuo-ku, Tokyo 103 Japan Tel: 03-272-8011

in charge: Mr. Kita, Ms. Kato, and Ms. Ito

ICS has reserved the following hotels for use by participants.

Hotel
Keio Plaza Hotel (Congress site)
Shinjuku Washington Ho (3-minute walk from Congress site)
Cax and a service charge, eac The ¥20,000 booking deposit

Notes:

ach 10%, are not included in the above room charge. (charged at application) will be returned to you at the hotel reception at check-out time.

On-site registration can be also made at the desk. In this case, please note that payment should be made only with Japanese yen in cash. However, pre-registration is strongly requested

90% no refund

	Single	Twin
	¥17,000	¥19,000
lotel	¥ 6,800	¥14,000

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Please apply for reservation by completing the enclosed Hotel Reservation Form(TOKYO - II) to be received by the Symposium Secretariat by July 31, 1985. Please remit a $\pm 20,000$ booking deposit by bank transfer together with the participation fee. ICS will send you a Reservation Confirmation Form upon the receipt of your remittance.

Cancellation

Cancellation should be notified in writing addressed to ICS. Please clearly indicate the bank account to which the refund should be made and enclose your Reservation Confirmation Form. The following cancellation fee will be deducted when the refund is made.

If notice of cancellation reaches ICS,

TRAVEL INFORMATION

●Air fares

If you are arriving from Europe to participate in both Tokyo and Kitakyushu Meetings, Japanese domestic flight (e.g. Narita - Fukuoka) tickets can be obtained free of charge if they are purchased together with the international flight.

In some cases in which the travel period exceeds a certain length, discount air tickets are available. However, as such tickets entail restrictions, we would recommend that you consult with a travel agency.

●Visas

Before your departure, visa requirements should be checked at travel agencies, the Japanese Embassy or the Japanese Consulate.

Transportation from Narita

The limousine bus service which takes you directly from the Narita International Airport to the Keio Plaza Hotel (30 shuttles daily, $\frac{1}{2}$,700 one way) is convenient. It generally takes 90 to 120 minutes, depending on traffic conditions.

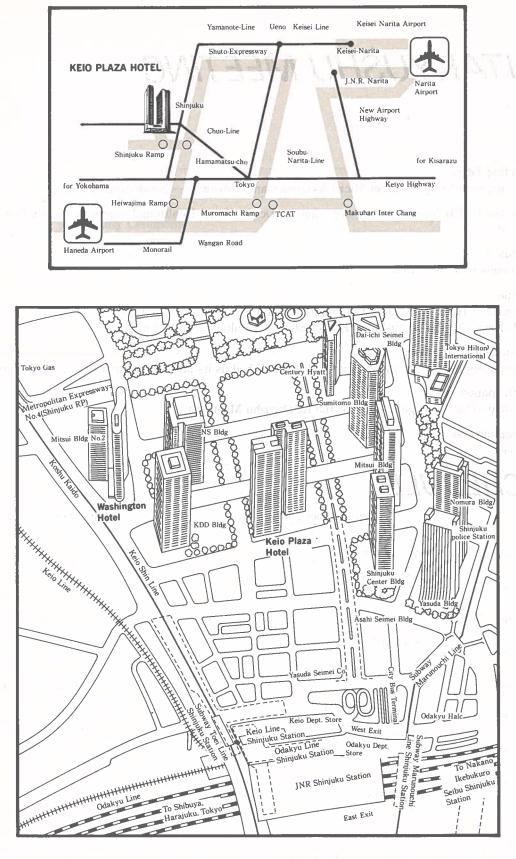
Limousine bus service from the Narita Airport to the Tokyo City Air Terminal (\$2,500 one way) leaves every 10 minutes. From the City Air Terminal, it is approximately 40 minutes (\$2,500) by taxi to the Keio Plaza Hotel.

Climate and Dress

Temperature in Tokyo in September averages $20^{\circ} - 27^{\circ}$ C. Summer dress is recommended.

Travel Information Desk

ICS will open a Travel Information Desk in the lobby of the 4th floor, Keio Plaza Hotel and provide information on tours and other forms of travel.



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SHINJUKU AREA MAP

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KITAKYUSHU MEETING

PROGRAM

Meeting Titles

International Symposium on Microelectronics and Labour ---- Kitakyushu Meeting

The 5th UOEH International Symposium on Occupational Health and Safety in Automation and Robotics

●Dates September 20 - 21, 1985

Venue

Remazzini Hall, University of Occupational and Environmental Health (1-1, Iseigaoka, Yahatanishi-ku, Kitakyushu City, Fukuoka Prefecture.)

Document Distribution

The papers read at the symposium will be published as its proceedings in a hard cover volume.

Participation Fee

¥15,000 (This fee is good only for the Kitakyushu Meeting.)

Reception Fee ¥6,000

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4. 	September 20(Fri.)		September 21(Sat.)	
9:00 -	Registration	ET MAL REALT		
	Opening Ceremony	18	Session 4	
10:00 -	Special Lecture			
11:00 -	and the second			
12:00 -	Session 1		Session 5	
13:00 -	Lunch		Lunch	
14:00 -	Session 2A	Session 2B	Session 6	
15:00 -				
16:00 -	Session 3A	Session 3B	Session 7	
17:00				
18:00 -	Rec	eption		
19:00 -				

September 20 (Friday)

9:15 - 9:45	Opening Cere	
	Dr. Kenz	aburo Tsuc
	Pres	ident, Univ
	Mr. Tosl	hio Yamag
	Min	ister of Lab
9:45-10:30	Special Lectu	ıre
	"Robotizatio	
		ahiro Mori
		essor, Depa
		hnology, Ja
10:45-12:15	Session 1	"Occupat
12:15-12:30	Discussion	Occupa
12:30-13:45	Lunch	113.6 3.6
13:45-15:15	Session 2A	"Man-M
15:15-15:30	Discussion	
13:45-14:45	Session 2B	"Interact
		Industrie
15:45-16:45	Session 3A	"Occupa
		Robot Po
16:45-17:00	Discussion	
15:00-17:00	Session 3B	"Occupa
17:00-17:30	Discussion	2 boupu
17:30	Reception	
11.00	Reception	

September 21 (Saturday)

9:00-10:30	Session 4	"Roles of
10:30-10:45	Discussion	
11:00-12:00	Session 5	"Human H Robots"
12:00-12:15	Discussion	
12:15-13:45	Lunch	
	Visit to Resear	rch Faciliti
13:45-14:45	Session 6	"Measures
		People W
		and safety
14:45-15:00	Discussion	-
15:15-16:45	Session 7	Summary health of

uchiya versity of Occupational and Environmental Health guchi abour nanization" i oartment of Control Engineering, Tokyo Institute of apan ational Health Issue in Automated Factory" Machine Systems for VDT Work at Factory and Office" ction between Man and Robot in High-Technology

es" ational Safety and Health Problems Caused by Increase in Population"

ational Health Issue in Office Automation"

Industrial Medicine for Man-Robot Interface"

Factors Considerations Required When Introducing

ties

es for Improving Occupational Safety and Health of Vorking with VDTs or Robots - small-group activities by and health education"

y: "Future of Robotics and Automation – their effect on people"

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Session 1

•Theme: Occupational Health Issue in Automated Factory Chairmen

Mr. Rinzo Ebukuro

Assistant General Manager, C&C Sensing Systems Development Division, NEC Corporation, Japan

Dr. Helmut Strasser

Lehrstuhl und Institut für Arbeitsphysiologie der Technischen, Universität München, F.R. Germany

Presentations

1. Emerging technology and trends in blue-collar stress

Dr. Olov Östberg

Director, Human Factors Research, Swedish Telecommunications Administration, Sweden

2. Uncertainty and anxiety in continuous process industries

Dr. Alain Wisner

Professor, Department des Sciences de l'Homme au Travail, Conservatoire National des Arts et Metiers, Ministere des Universites, France

3. Prediction of high technology development and problems of man-machine system Dr. Kageyu Noro

> Professor, Department of Human Factors Engineering, University of Occupational and Environmental Health, Japan

Session 2A

•Theme: Man-Machine Systems for VDT Work at Factory and Office Chairmen

Dr. Sohei Yamamoto

Chief, Department of Industrial Physiology, National Institute of Industrial Health, Japan

Dr. Martin Helander

Associate Professor, University of South Florida, U.S.A.

Presentations

1. The changing role of the operator Mr. Reginald Sell

2. Human factors problems of VDT operation at factory Dr. Yoshio Hayashi

3. Eye fatigue in VDT work – from standpoint of occupational ophthalmology Dr. Shinji Kurimoto Professor, Department of Ophthalmology, University of Occupational and Ervironmental Health, Japan

Session 2B

•Theme: Interaction Between Man and Robot in High-Technology Industries Chairmen Dr. Tadashi Yamashita Professor, Department of Control Engineering Kyushu Institute of Technology, Japan Dr. Alain Wisner

Presentations

1. Interaction between man and robots with some emphasis on 'intelligent' robots Mrs. Lena Martensson Industrial Psychologist, Unit of Work Science, Royal Institute of Technology, Sweden

2. Reports on conditions in a country

Session 3A

•Theme: Occupational Safety and Health Problems Caused by Increase in Robot Population Chairmen

Prof. Katsumi Yokomizo Waseda University, Japan Dr. Olov Östberg

Work Research Unit, Department of Employment, U.K.

Professor, Faculty of Science and Technology, Keio University, Japan

Presentations

1. Subjects and problems of robot safety technology Mr. Noboru Sugimoto

> Chief Researcher, Mechanical Research Division, Research Institute of Industrial Safety, Ministry of Labour, Japan

2. Robotics and the health of workers Dr. H. M. Parsons Essex Corporation, U.S.A.

Session 3B

•Theme: Occupational Health Issue in Office Automation Chairmen

Prof. Sadao Sugiyama Kwansei Gakuin University, Japan Mr. Reginald Sell

Presentations

1. The impacts of office automation on the quality of worklife: considerations for United States policy

Dr. B.C. Amick, III

Analyst, Communications and Information Technologies Program, Office of Technology Assessment, Congress of the United States, U.S.A.

2. Multivariate analysis of fatigue in VDT work

Dr. Koji Morooka

Professor, Department of Management, Tokai University, Japan

3. Introduction and expansion of VDTs' work in Japan and their occupational health problem Dr. Katsuo Nishiyama

> Instructor, Department of Preventive Medicine, Shiga University of Medical Science, Japan

4. Survey of health hazards of work with visual display terminals in pregnancy Prof. Alison McDonald

Department of Epidemiology and School of Occupational Health, McGill University, Canada

Session 4

•Theme: Roles of Industrial Medicine for Man-Robot Interface

Chairmen

Dr. Masamitsu Oshima

Chairman of Directors, Medical Information System Development Center, Japan

Dr. H.M. Parsons

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Presentations

1. Assessment of psycho-mental workload in modern factory Dr. Helmut Strasser

2. Problems of and industrial medicine measures for introduction of robots Prof. Yukio Hasegawa System Science Institute, Waseda University, Japan

interface in high technology work environments Dr. Gary Benson

Session 5

Chairmen Prof. Mitsuo Nagamachi Hiroshima University, Japan Dr. Andrew Imada of Southern California, U.S.A.

Presentations

1. Human participation in automated manufacturing: Some ergonomics issues Dr. Martin Helander

2. Man's role in automation and robotization of operation Dr. Tadashi Yamashita

Session 6

•Theme: Measures for Improving Occupational Safety and Health of People Working with VDTs or Robots - small-group activities and safety and health education

Chairmen

Dr. Yoshio Hayashi Mrs. Lena Martensson

3. Mindlessness: A new dimension of technogical alienation - Implications for man/machine

Coordinator, UW-Casper Business Program, University of Wyoming, U.S.A.

•Theme: Human Factors Considerations Required When Introducing Robots

Associate Professor, Institute of Safety and Systems Management University

REGISTRATION

Presentations

- 1. Managing human and machine system requirements through participation : the need for an integrated organizational culture Dr. Andrew Imada
- 2. Occupational safety and health measures taken for introduction of robots in automobile industry

Mr. Minoru Goto

General Manager, Safety and Sanitation Department, Nissan Motor Company, Japan

Session 7: Summary

•Theme: Future of Robotics and Automation - Their Effect on Health of People Chairman

Dr. Kenzaburo Tsuchiya President, University of Occupational and Environmental Health, Japan

Panelists

8 people : one of the chairmen in each session

Participation Fee

- Participation fee is ¥15,000 and it covers
- 1. Participation in all the two-day programs, and

Reception Fee

Friday, September 20.

Application and Remittance

Please complete the Registration Form (KITAKYUSHU-I) herewith enclosed and send it to the Secretariat at the below address with a copy of the remittance receipt of the participation fee issued by your bank. Those who sent the "Request" postcard from the first announcement are also requested to send this form to affirm their registration.

Secretariat of International Symposit c/o Department of Human Factors University of Occupational and Envi 1-1, Iseigaoka, Yahatanishi-ku, Kitakyushu City, Fukuoka 807 Japan

Participation fee must be remitted by bank transfer to the following account in Japanese yen only.

A/C No. 343261 name of the account: Dr. Kageyu Noro, Secretariat of the 5th UOEH International Symposium name of the bank: UOEH office of Orio Branch, The Fukuoka Bank

Cancellation

Cancellation should be made in writing to the Secretariat. Please clearly indicate the bank account to which the refund should be remitted. Refund rates are as follows:

Cancellation received by August 31, 1985 90% Cancellation received after August 31, 1985 no refund

All the refund will be made after the symposium.

2. Proceedindgs consisting of papers read at the symposium to be published by Taylor and Francis in London in spring, 1986 and to be sent to participants.

A ¥6,000 fee will be separately charged for participation in the Reception on the evening of

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Engineering	
ironmental Health	

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HOTEL ACCOMMODATIONS

The Secretariat of the Kitakyushu Meeting has appointed Japan Travel Bureau, Inc. (JTB) as the official agent in charge of hotel arrangements. JTB has reserved rooms at the Hotel SUNROUTE Kurosaki and the New Seto Hotel.

Please fill in the Hotel Reservation Form (KITAKYUSHU-II) herewith enclosed and send it to JTB. The room charge should be paid at the reception of the hotel.

Hotel	Single
Hotel SUNROUTE Kurosaki	¥6,500
New Seto Hotel	¥6,500

Note: This room charge includes breakfast, 10% tax and 10% service charge.

Please forward all inquiries concerning hotel accommodations to :

Kitakyushu Branch, Japan Travel Bureau, Inc. 1-1-1 Sakai-cho Kokurakita-ku, Kitakyushu City Fukuoka 802 Japan

in charge: Mr. Takakura, Mr. Shibata, and Mr. Suzuki

For further information :

Tokyo Meeting

Secretariat of Tokyo Meeting c/o National Institute of Emple 4-1-1, Nakano, Nakano-ku Tokyo 164 Japan Tel: 03-387-4808 Fax: 03-387-4489

Kitakyushu Meeting

Secretariat of International Symposium c/o Department of Human Factors Engineering University of Occupational and Environmental Health 1-1, Iseigaoka, Yahatanishi-ku, Kitakyushu City, Fukuoka 807 Japan Tel: 093-603-1611 Fax: 093-601-3446

c/o National Institute of Employment and Vocational Research 4-1-1, Nakano, Nakano-ku