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昭和60年度第三国研修G・I集

昭和61年4月

国際協力事業団
研修事業部

国際協力事業団	
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昭和60年度第三国研修G・I

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I. アジア地域

1. インドネシア地震工学第三国研修G・I(1)

FIRST ANNOUNCEMENT

**THE FOURTH INTERNATIONAL ADVANCED COURSE
ON SEISMOLOGY AND
EARTHQUAKE ENGINEERING
FOR SEISMOLOGISTS, VOLCANOLOGISTS
AND GEOLOGISTS**

INDONESIA, JANUARY 12 TO FEBRUARY 26, 1985

Cooperation between
the Government of Japan and the Government of Indonesia

Organizing Committee



MINISTRY OF PUBLIC WORKS
CENTRE FOR RESEARCH AND
DEVELOPMENT ON HUMAN SETTLEMENTS



Japan International
Cooperation Agency

Dear Sir/Madam,

We have the pleasure in sending you a booklet containing information and an application form for the course to be held in Indonesia, January 12 to February 26, 1985. The Course is entitled: "The Fourth International Advanced Course on Seismology and Earthquake Engineering for Seismologists, Volcanologists and Geologists".

This Course is organized in Indonesia as the result of the agreement achieved in the technical cooperation programme between the Government of Japan and the Government of Indonesia.

We herewith invite you to nominate candidates to participate in this course. Those concerned have to fulfill the requirements as stated in the booklet. The application will be closed on September 15, 1984.

Hoping to hear from you at your earliest convenience regarding nominations you wish to make.

With kind regards.

Yours faithfully

Karman Somawidjaja

Director,
Centre for Research and Development
on Human Settlements

Introduction

Many countries in South East Asia and the Pacific areas are crossed by or bordered with the earth's seismic belts in which occurrence of earth tremors and quakes are quite frequent. Often they cause considerable loss of human life as well as material damage. Indonesia is situated in two of the three seismic belts of the world, with about 400 earthquakes occurring annually with epicentres within the Indonesian region.

In the framework of disseminating the technical knowledge and knowhow of Seismology and Earthquake Engineering, a cooperation has been agreed, between the Government of Japan and the Government of Indonesia.

It covers an advanced course, in which the Government of Japan will sponsor prospective participants and lecturers with fellowships, and the Government of Indonesia will be the host country by organizing the course.

Organization of the Course

The course is jointly conducted by :

The Ministry of Public Works, Government of Indonesia, under the Technical Cooperation among Developing Countries Program,
and

the Japan International Cooperation Agency (JICA), Government of Japan, under the Third Country Training Programme.

This course is arranged with the cooperation of :

1. the Centre for Research and Development on Human Settlements, Ministry of Public Works, Government of Indonesia;
2. the Cabinet Secretariat of the Republic of Indonesia;
3. the International Institute of Seismology and Earthquake Engineering (IISEE);
4. Building Research Institute, Ministry of Construction, Government of Japan.

The purposes of this course are :

1. To increase the knowledge of *Seismologists, Volcanologists* and *Geologists* in developing countries by introducing and exchanging the up-to-date and advanced knowledge of Seismology and Earthquake Engineering achieved in Earthquake hazard countries.
2. And thus contribute to finding the solution to the problems of prevention and mitigation of earthquake damage according to the specific feature of each country.

The Course will stress practical aspects of *Seismology, Volcanology* and *Geology*.

Qualification of Applicants

Applicants from each country are to :

- a. be nominated by their governments in accordance with the procedure mentioned in the procedure of application section of this brochure.
- b. be university graduates or equivalents and actively engaged in the field of seismology, volcanology and geology preferably with experience for more than three (3) years.
- c. be more than twenty five (25) years of age.
- d. have a sufficient command of spoken and written English, and
- e. be in good health, both physically and mentally, to participate in the Course.

Duration

From January 12 to February 26, 1985.

Institution

Centre for Research and Development on Human Settlements, Ministry of Public Works.

Jalan Tamansari 84 (Tromol Pos 15) - BANDUNG, INDONESIA. - Phone : 81081/81083; Telex : 28327 DBR BD IA.

Language

The Course will be conducted in English.

Procedure of Application

- 1, a) The Governments desiring to nominate applicant (s) for the Course, should complete the following :
 - i) Five copies of the enclosed "Nomination Form for training in the framework of Technical Cooperation among Developing Countries Programme, The Republic of Indonesia",
 - ii) Five copies of a Health Certificate, by September 15, 1984 at the latest, through the Embassy of Indonesia, located in the respective countries.
In cases where no Embassy of Indonesia is represented, the copies can directly be submitted to :
The Cabinet Secretary of the Republic of Indonesia
c/o Head of Bureau for Technical Cooperation
Jalan Veteran 18 - Lantai empat, Gedung Tiga
Jakarta Pusat - Indonesia
Telex : 44240 SEKNEG IA
Phone : 350406 - 07 ext. 274
- b) For administrative purposes of the Course the following should be sent to Centre for Research and Human Settlements.
(Jalan Tamansari 84, Tromolpos 15, Bandung, Indonesia)
by September 15, 1984 at the latest :
 - i) One copy of the enclosed "Application Form for the Fourth International Advanced Course on Seismology and Earthquake Engineering for Seismologists, Volcanologists and Geologists.
 - ii) One copy of an Abstract of a Report stipulated on page 5 (maximum 3 pages)

2. The Government of Indonesia will inform the applying governments whether or not the nominee (s) are acceptable for the Course not later than the end of November 1984.

Submission of Report

For the purpose of facilitating the discussion session in the Course, each participant is required to prepare a report on one of the items given below which is related to his or her country and its vicinity and at the beginning of the course submit two copies of the said report according to the submitted abstract attached to the application form :

1. Seismic risk assessment or zoning.
2. Observation system of earthquake or volcano.
3. Prediction of earthquake occurrence or volcano eruption.
4. Seismic prospecting or underground structure.
5. Strong motion observation and analysis.
6. Seismo-tectonophysics.
7. Other topics relating to seismology or volcanology.
8. Urban disaster prevention.
9. Administrative countermeasures for the mitigation of earthquake or volcano disaster.

Lecturers

Lecturers for the Course are appointed from Japan, and Indonesia. The lecturers of the previous courses were as follows:

Lecturers from Japan :

1. Dr. Yuji Ishiyama, *Head of IISEE, BRI*
2. Prof. Dr. Hideake Kishida, *Tokyo Institute of Technology*
3. Dr. Toshiyuki Kubota, *JICA Expert from BRI.*
4. Prof. Dr. Yutaka Matsushima, *University of Tsukuba.*
5. Prof. Dr. Tadao Minami, *University of Tsukuba.*
6. Mr. Hatsukazu Mizuno, *Senior Research Engineer of IISEE, BRI.*
7. Dr. Shinsuke Nakata, *JICA Expert from BRI*
8. Dr. Yorihiro Ohsaki, *Executive Vice President of Shimizu Construction Co. Ltd.*

9. Prof. Dr. Michio Otsuka, *Kyushu University*.
10. Dr. Ken Sudo, *Head of IISEE, BRI*.
11. Prof. Dr. Hajime Umemura, *Shibaura Institute of Technology*
12. Prof. Dr. Makoto Watabe, *Tokyo Metropolitan University*.
13. Prof. Dr. Yoshiaki Yoshima, *Tokyo Institute of Technology*.

Lecturers from Indonesia :

1. Mr. Teddy Boen, *International Association for Earthquake Engineering (IAEE)*.
2. Prof. Sosrowinarso, *Bandung Institute of Technology*.
3. Mr. R.B. Tular, *Centre for Research and Development on Human Settlements*
4. Mr. Wiratman Wangsadinata, *P.T. Wiratman and Association Consulting Engineers*.
5. Prof. M.T. Zen, *Bandung Institute of Technology*.

Guest Lecturers from U.S.A.

(by the aid of U.S. Agency for International Development through the National Science Foundation).

1. Mr. H.J. Degenkolb, *Consulting Engineer*.
2. Prof. Dr. P.C. Jennings, *California Institute of Technology*
3. Mr. R.G. Johnston, *Structural Engineer*.
4. Mr. J. Stratta, *Consulting Engineer*.
5. Prof. Dr. A.S. Veletsos, *Rice University*.

Allowance

JICA will provide :

1. Economy—class air tickets between the international airports designated.
2. Living allowance (covering local travel expenses, accommodation and others).

Certificate

Participants who have successfully completed the course will be awarded a certificate by the government agencies of Indonesia and Japan.

ENTRY FORMALITIES

Immigration

For the purpose of this seminar participants are required to obtain a visa to cover the duration of the course. *Please note that tourist visas or visa free entry for ASEAN citizens do not apply in this case as the duration of these arrangements is not sufficient to cover the active course.*

Participants should apply for visas through the Indonesian Embassy in their countries after being contacted by the seminar organizing committee, which will give assistance in this matter. *Do not apply for this visa until requested to do so by the organizing committee.*

Health

International certificates of valid smallpox, cholera and yellow fever vaccinations are required only for travellers coming from infected areas.

Customs

Customs allow on entry a maximum of two litres of alcoholic beverages, 200 cigarettes or 50 cigars or 100 grams of tobacco and a reasonable amount of perfume per adult.

Photographic equipment, typewriters and radios are admitted provided they are taken out on departure (re-exported). They must be declared to the customs.

There is no restriction on import or export of foreign currencies and travellers cheques, however, the import or export of Indonesian currency exceeding Rp. 20.000,— is prohibited.

Airport Tax

An airport tax of Rp 4.000 is levied by the airport authority for travellers on international routes and Rp 1.200,— for domestic routes.

Clothing

Dress is normally casual in Indonesia and light clothing is advisable due to the hot, humid climate. A jacket and tie are required only for formal occasions (e.g. Opening or Closing ceremonies), or when making official calls; national dresses of visitors from abroad are also very proper. For travel to mountain areas, a light sweater or jacket is recommended. Batik-shirts (short or long sleeved) are popular for informal parties and social evenings.

Other Information

1. Participants are requested to arrive in the Republic of Indonesia on the date designated by the Centre. However, the date will be finally confirmed through the air-ticket sent to the participants from JICA
2. On arrival at Halim International Airport in Jakarta, participants will be met by a representative of the Centre. Necessary care of the participants, there after, will be taken by the Centre throughout the duration of the Course.
3. In case of emergency, due to "Out of schedule" occurrence, participants can proceed to Hotel Wisata International, Jalan M.H. Thamrin, Jakarta (behind Hotel Indonesia).
Phone : 320308
4. Participants are strongly requested not to bring any members of their families.

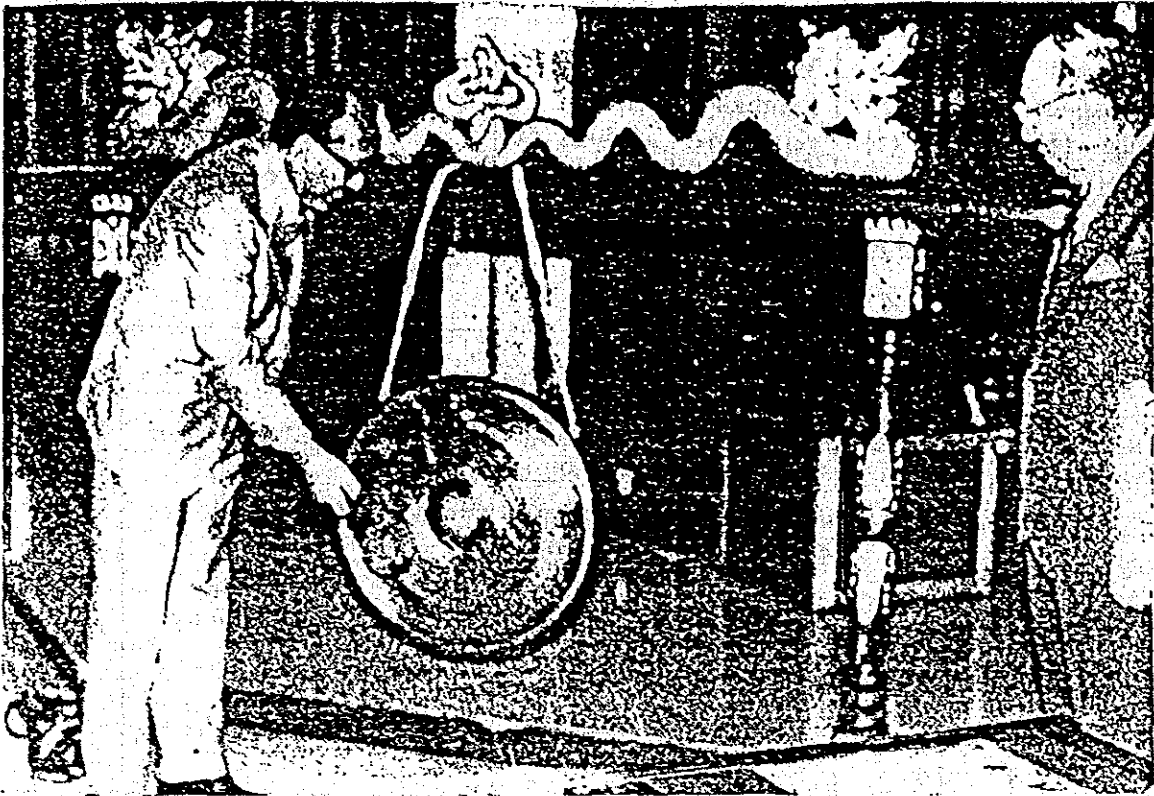
TENTATIVE CURRICULUM

MON	TUE	WED	THU	FRI	SAT	SUN
					Jan. 12	13
					Arrival in Jakarta	
14	15	16	17	18	19	20
Opening Ceremony	Orientation	Micro Computer (1)	Determination Earthquake parameter (1)	Micro Computer (3)	Earthquake Observation System (1)	
Move to Bandung	General Lecture on Earthquake	ditto (2)	ditto (2)	ditto (4)	ditto (2)	
21	22	23	24	25	26	27
Volcano Observation System (1)	Presentation by Participants (1)	Volcano Monitor System (1)	Earthquake Monitor System (1)	Administrative problems on Earthquake and Volcano disaster	Move to Bali	
ditto (2)	ditto (2)	ditto (2)	ditto (2)			
28	29	30	31	Feb. 1	2	3
Modern idea on Seismology	Modern idea on Volcanology	Observation and lecture in Bali island	Observation and lecture on mount Agung	Move to Yogyakarta	Observation and lecture on mount Merapi	Move to Bandung
4	5	6	7	8	9	10
Administrative problem on Earthquake and Volcano Hazard	General lecture on strength of structure	Aseismic code in Japan	Move to Krakatau	Observation and lecture on mount Krakatau	Observation and lecture on mount Krakatau	Move to Bandung

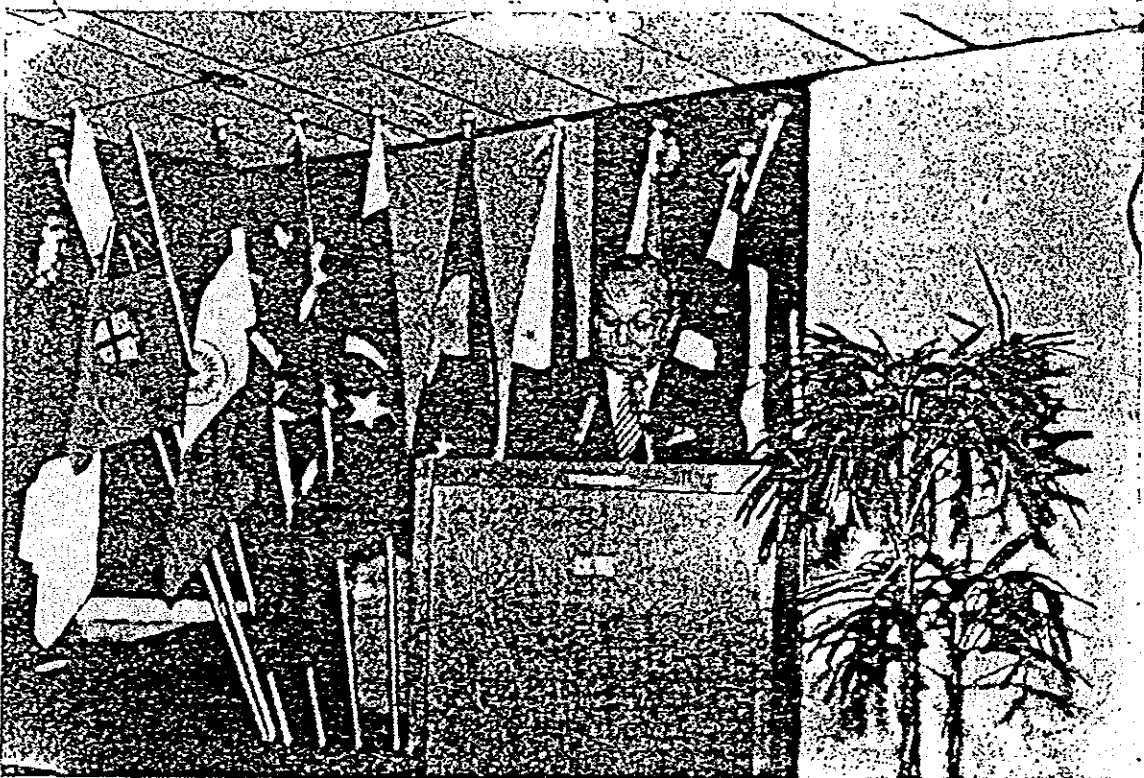
11	12	13	14	15	16	17
Seismic prospecting (1)	Seismotectonics (1)	Visit to Lembang geophysical observatory	Seismic Risk analysis (1)	Earthquake Process (1)	Observation and lecture on Sukabumi area	
ditto (2)	ditto (2)		ditto (2)	Ditto (2)		
18	19	20	21	22	23	24
Seismotectonics (3)	Earthquake prediction (1)	Aseismic Code in developing country	Prediction and relating administrative problems	Preparation for Final Report	Presentation of Final Report	Move to Jakarta
ditto (4)	ditto (2)				Closing Ceremony	
25	26					
Free	Leave Jakarta					



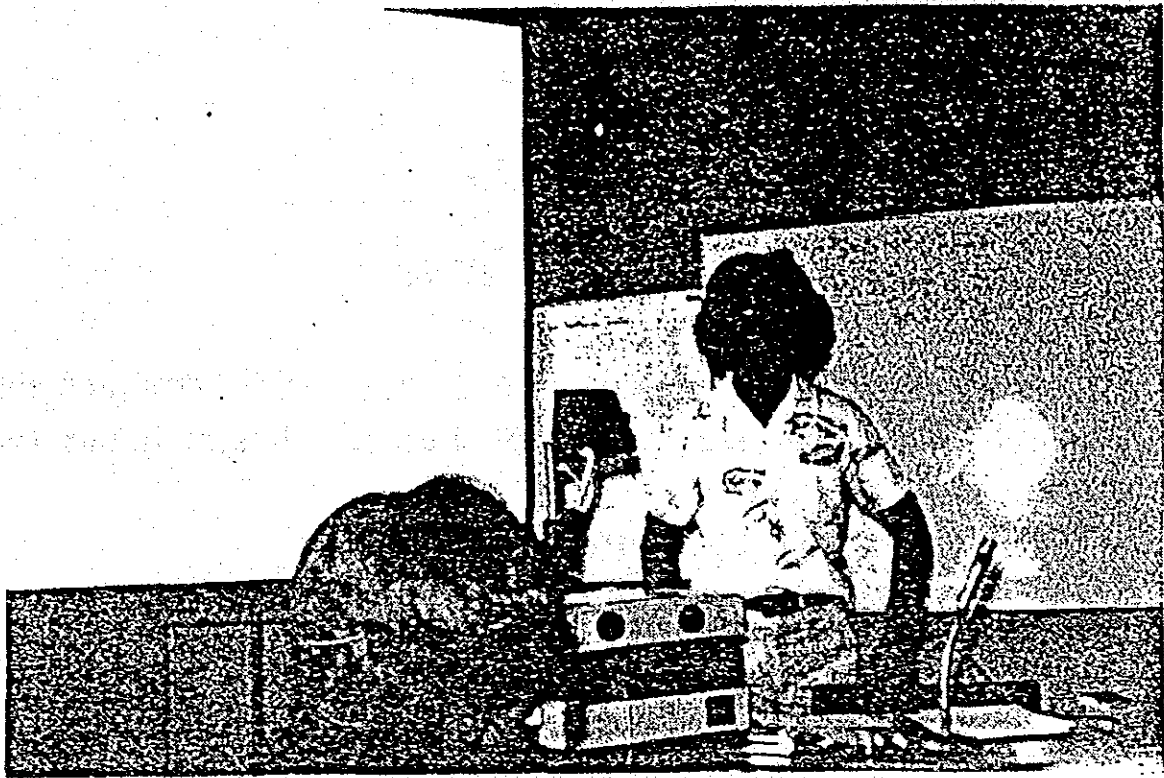
Participants guided by Dr. Ishiyama, using computer facilities, to solve mathematical problems.



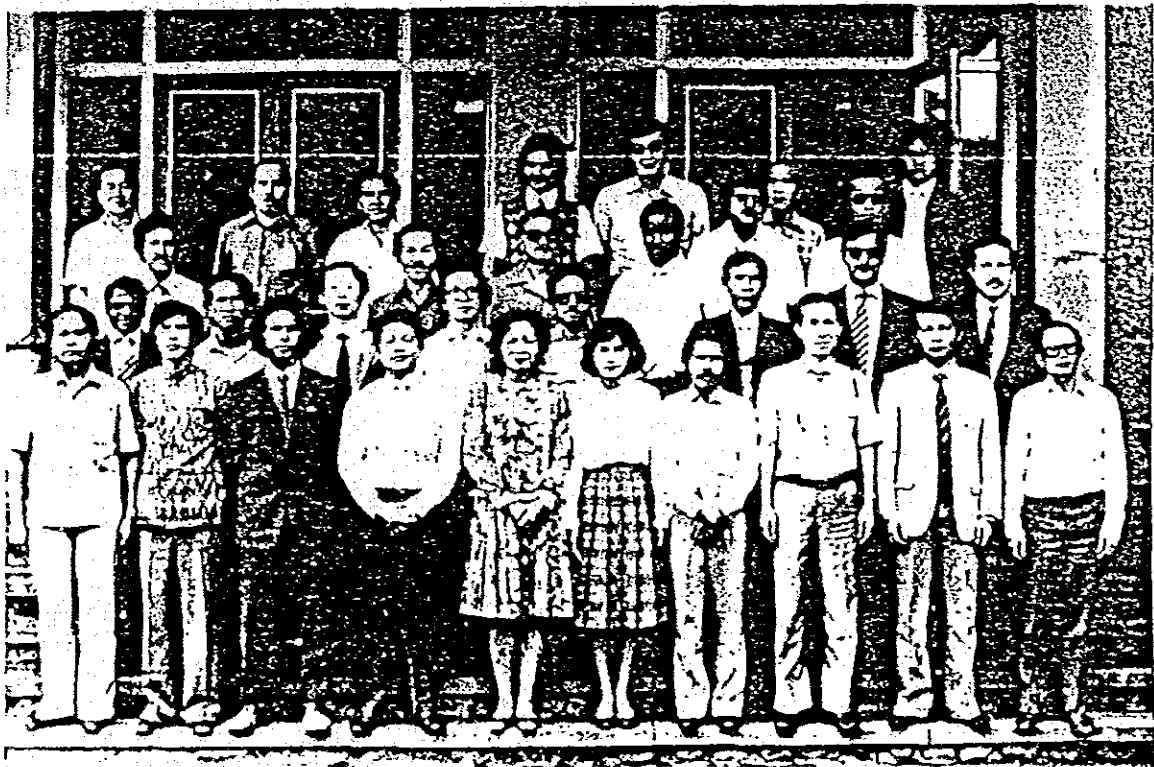
Being watched by the Ambassador of Japan, the Minister of Public Works is striking a gong, indicating the opening of the Third International Advanced Course (14 January to 24 February 1984).



His Excellency the Ambassador of Japan, delivering an address at the opening of the Third Advanced Course.



Final report submitted and explained by one of the participants.



Participants posing together with the Director of DBR, Director of ISEE, lecturers and staffmembers of DBR.

ANNOUNCEMENT

Since the Presidential Decree No. 15, of 1984, commencing 7 March, 1984 the Directorate of Building Research has the task to function as a

CENTRE FOR RESEARCH AND DEVELOPMENT ON HUMAN SETTLEMENTS

The Centre is under the auspices of the Ministry of Public Works.

The Director of the Centre is Mr. KARMAN SOMAWIDJAJA.
The new address is as follows :

CENTRE FOR RESEARCH AND DEVELOPMENT ON HUMAN SETTLEMENTS

84, Jalan Tamansari (Tromolpos 15)

BANDUNG, Indonesia

Phone: 81082/81083. Cable: REHOCE. Telex: 28327 DBR BD IA

APPLICATION FORM

THE FOURTH INTERNATIONAL ADVANCED COURSE ON
SEISMOLOGY AND EARTHQUAKE ENGINEERING FOR
SEISMOLOGISTS, VOLCANOLOGISTS AND GEOLOGISTS.
BANDUNG, INDONESIA, JANUARY 12 - FEBRUARY 22, 1985

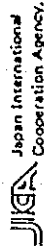
Organized by :
The Government of Indonesia
&
The Government of Japan

Executed by :



MINISTRY OF PUBLIC WORKS
CENTRE FOR RESEARCH AND
DEVELOPMENT ON HUMAN SETTLEMENTS

&



Japan International
Cooperation Agency

Please
attach
a photograph
of recent
date

Surname (family name) Fore names		single/married sex : M/F	Permanent address and telephone	
Nationality	country of birth	place of birth	date of birth	Person to be notified in case of emergency (name and address), telephone.
Number of passport	authority	place of issue	date of issue valid until:	
Education	name and location		attended from	degrees and diplomas until
Secondary of high school			major fields of study	
University of Technical Courses				
Others, including short-courses				
Experience : state former and present occupations		years of service	position held	description of work
Name and address (telephone, telex) of employer (s)				
PLEASE ENCLOSE THE FOLLOWING				
a. a short confidential letter from your employers on the quality of work, the level of responsibility you have achieved etc.				
b. on the reverse side, in your own handwriting, state in approximately 200 words, your activities during the past three years, your special interests, and expectations for the future : indicate why you wish to take part in the course.				
membership of professional institutions, if any				
I request you to enter my name as a candidate for the course. The information supplied by me is complete and accurate to the best of my knowledge. date signature				

2. インドネシア地震工学第三国研修G・I(2)


SECOND ANNOUNCEMENT

**THE FIFTH INTERNATIONAL ADVANCED COURSE
ON SEISMOLOGY AND
EARTHQUAKE ENGINEERING
FOR STRUCTURAL ENGINEERS**

INDONESIA, JANUARY 11 TO FEBRUARY 23, 1986

Cooperation between
the Government of Japan and the Government of Indonesia

Organizing Committee

 INSTITUTE OF HUMAN SETTLEMENTS
AGENCY FOR RESEARCH AND DEVELOPMENT
MINISTRY OF PUBLIC WORKS
M. J. Tarumanegara, Bandung, Indonesia. Tel. 81082 83; Telex 28327 DSR 80 12

&  Japan International
Cooperation Agency

Dear Sir/Madam,

We have the pleasure in sending you a Second Announcement of "The Fifth International Advanced Course on Seismology and Earthquake Engineering for Structural Engineers".

This course is organized in Indonesia as a result of the agreement achieved in the Technical Cooperation Programme between the Government of Japan and the Government of Indonesia.

Detailed information is herewith presented to prospective participants who have fulfilled the requirements put forward by the Organizing Committee.

As stated in the First Announcement, the application will be closed on September 17, 1985.

We hope to receive your application form at our Secretariate at the soonest.

With best regards,

Yours faithfully,

Sahat Mulia Ritonga
Director, Institute of Human Settlements

Introduction

The First Announcement has been issued and applicants have sent their application form to the Organizing Committee to be selected as participants of the Course.

We extend our congratulations to those who have been selected, and the following are guidelines to be followed during your travel from your home country to Indonesia as the host country, and also during the Course itself.

We hope that besides acquiring additional knowledge, you will also enjoy a pleasant stay in Indonesia.

GUIDELINES TO BE FOLLOWED

1. Submission of reports

The participants are again reminded that for the purpose of facilitating the discussion session in the Course, each participant is required to prepare a report on one of the items given below which is mainly related to his or her country and its vicinity and at the beginning of the course submit two copies of the said report according to the submitted abstract attached to the application form :

- 1). Aseismic code of structures
- 2). Structural design or seismic safety of structures
- 3). Elastic analysis, plastic analysis, structural analysis.
- 4). Experiment, experimental technic or data analysis
- 5). Construction technics
- 6). Quality control for structural materials
- 7). Repair and retrofit of structures
- 8). Earthquake damage of structures
- 9). Other topics relating to structural engineering.

2. Condition of Participation Fellowships

Selected participants will be awarded fellowships which includes :

a. Provision of air-tickets

Economy class, air-tickets between international airports designated, will be provided by JICA, and can be obtained through travel agencies appointed by JICA.

The Embassy of Indonesia can also be contacted for possible information regarding this matter.

Hotel expenses, airport tax and visa fee between home country and Indonesia (Jakarta) are the responsibility of the appointed participants.

b. Living allowances

Living allowance amounting US \$ 50.— covering local travel expenses accomodation, and meals will be provided.

3. Arrangements during the course

The Organizing Committee will arrange the following to facilitate the conduits of the course, including the field-trips :

a. Accomodation (one room shared by two participants).

b. Coffee and iunch during the lecture hours

c. Transportation to and from the compound where the course will be conducted

d: Accomodation, meals and transportation during the fieldtrips.

An amount of US \$ 27.50.— per day should be reserved to facilitate above mentioned arrangements, and a certain amount for the whole course will be deducted from the sum to be received by the participants on their arrival in Jakarta.

- e. Textbooks will be provided, but additional expenses such as material to be photocopied etc. must be borne by the participants.
- f. Dispatch of books to home country is the participants' responsibility.

4. Other Information

a. Entry formalities

Participants are again reminded to pay attention to the formalities, as stated in the First Announcement; the most important are the following :

1. Immigration

- Participants are required to obtain a visa to cover the duration of the course.
- Tourist visas or visa free entries do not apply for ASEAN citizens.
- Visas should be applied through the Indonesian Embassy in the participants' country.

2. Health

International certificates of valid smallpox, cholera and yellow fever vaccination are required only for the travellers coming from infected areas.

- b. Participants are requested to arrive on Saturday, January 11, 1986 in Indonesia, or on the date confirmed through the air-ticket sent by JICA.

- c. On arrival at Soekarno-Hatta airport in Jakarta, participants will be met by a representative of the institute. Necessary care of the participants, there after, will be taken by the institute throughout the duration of the course.
- d. It is advisable to change a necessary amount of money at the airport for eventual expenses such as porter or taxi fare. For your guidance, the exchange rate in July 1985 is: US \$ 1 = Rp 1,114.
- e. In case arrival schedule has to be changed, the participant should contact Indonesian embassy in his country for advising the institute of the change well in advance in which event, especially late for the schedule, the participant must exert himself to proceed as follows :

- *Before January 13, 1986 — in Jakarta* to Hotel Wisata International, Jalan Thamrin (behind Hotel Indonesia), Jakarta — Phone: 320308.

Participants are advised to reach the hotel :

By DAMRI Bus from the airport to Gambir terminal (± US \$ 2.5) and then by taxi to the hotel (± US \$ 2.). This amount can be claimed. Use of transportation other than before-mentioned, is the participant's own responsibility.

- *After January 13, 1986 — in Bandung* to the Institute of Human Settlements (Pusat Penelitian dan Pengembangan Pemukiman) at Jalan Tamansari no. 84, Bandung. Phone: (022) 81082-81083,

or

Cortina Hotel, Jalan Ir. H. Juanda no. 32, Bandung
Phone: (022) 56778.

- f. Each participant is requested to submit passport photographs which are needed for administrative purposes.
- g. The weather in the months of January – February is fine, some rainfall is to be expected, as the rainy season is still prevalent in these months. A light coat or sweater may be needed for cool evenings.
- h. Each participant is requested to bring a formal dress for formal occasions and national dress and cassettes with national songs as a means to introduce a part of their culture.

**CURRICULUM OF INTERNATIONAL ADVANCED COURSE ON SEISMOLOGY
AND EARTHQUAKE ENGINEERING FOR STRUCTURAL ENGINEERS.**

MONDAY	TUESDAY	WED.	THURSDAY	FRIDAY	SATURDAY	SUNDAY
					11	12
					Artiv. at Jakarta	Observat. Jakarta
13	14	15	16	17	18	19
Opening ceremony	Orienta- tion	Micro Computer (1)	Micro Computer (3)	General Seism. Eng. (1)	Micro Computer (5)	Free
Move to Bandung	Interview	ditto (2)	ditto (4)	ditto (2)	ditto (6)	
20	21	22	23	24	25	26
Struct. Dynamics (1)	Struct. Dynamics (3)	Presenta- tion by Participants	Aseismic Design Code (1)	Aseismic Design Code (3)	Reinforced concrete Building (1)	Move to Medan (South Sumatera)
ditto (2)	ditto (4)	ditto	ditto (2)	ditto (4)	ditto (2)	→ バリバ
27	28	29	30	31	1	2
R/C Building (3)	Foundation (1)	Foundation (3)	R/C Building (5)	Move to Bandung (5)	R/C Building (7)	Free
ditto (4)	ditto (2)	ditto (4)	ditto (6)	ditto (6)	ditto (8)	
3	4	5	6	7	8	9
R/C Building (9)	Steel Building (1)	Steel Building (3)	Masonry Building (1)	Masonry Building (3)	Timber Building (1)	Free
ditto (10)	ditto (2)	ditto (4)	ditto (2)	ditto (4)	ditto (2)	

10	11	12	13	14	15	16
Struct. Dynamics (5)	Struct. Test (1)	Struct. Test (3)	Struct. Test (5)	Struct. Dynamics (7)	Observation Construct- ion Site	Free
ditto (6)	ditto (2)	ditto (4)	ditto (6)	ditto (8)	ditto	
17	18	19	20	21	22	23
Struct. Test. (9)	Composite Building (1)	Composite Building (3)	Preparat. Final Presentation	Final Presenta- tion.	Move to Jakarta	Leaving Jakarta
ditto (10)	ditto (2)	ditto (4)	ditto	Closing Ceremony		

3. インドネシア地震工学第三国研修G・I(3)

FINAL ANNOUNCEMENT

**THE FIFTH INTERNATIONAL ADVANCED COURSE
ON SEISMOLOGY AND
EARTHQUAKE ENGINEERING
FOR STRUCTURAL ENGINEERS**

INDONESIA, JANUARY 11 TO FEBRUARY 23, 1986

Cooperation between
the Government of Japan and the Government of Indonesia

Organizing Committee



INSTITUTE OF HUMAN SETTLEMENTS
AGENCY FOR RESEARCH AND DEVELOPMENT
MINISTRY OF PUBLIC WORKS
64, A. Terrestrial, Bandung, Indonesia; Tel. 81062/93; Telex: 28327 DSN BO IA



Japan International
Cooperation Agency



You will stay in Indonesia for about one and half month and it will be filled with a busy schedule and field trips but besides that we hope that we will be able to treat you with activities of a more leisured and comfortable nature.

For any shortcomings you may encounter while you are with us, we offer our apologies. We wish you a pleasant and successful time in Indonesia.

Introduction

Many countries in South East Asia and the Pacific areas are crossed by or bordered with the earth's seismic belts in which occurrence of earth tremors and quakes are quite frequent. Often they cause considerable loss of human life as well as material damage. Indonesia is situated in two of three seismic belts of the world, with about 400 earthquakes occurring annually with epicentres within the Indonesian region.

In the framework of disseminating the technical knowledge and knowhow of Seismology and Earthquake Engineering, a cooperation has been agreed, between the Government of Japan and the Government of Indonesia.

It covers an advanced course, in which the Government of Japan will sponsor prospective participants and lecturers with fellowships, and the Government of Indonesia will be the host country by organizing the course.

Organization of the Course

The course is jointly conducted by :

The Ministry of Public Works, Government of Indonesia, under the Technical Cooperation among Developing Countries Programme and the Japan International Cooperation Agency (JICA), Government of Japan, under the Third Country Training Programme.

This course is arranged with the cooperation of :

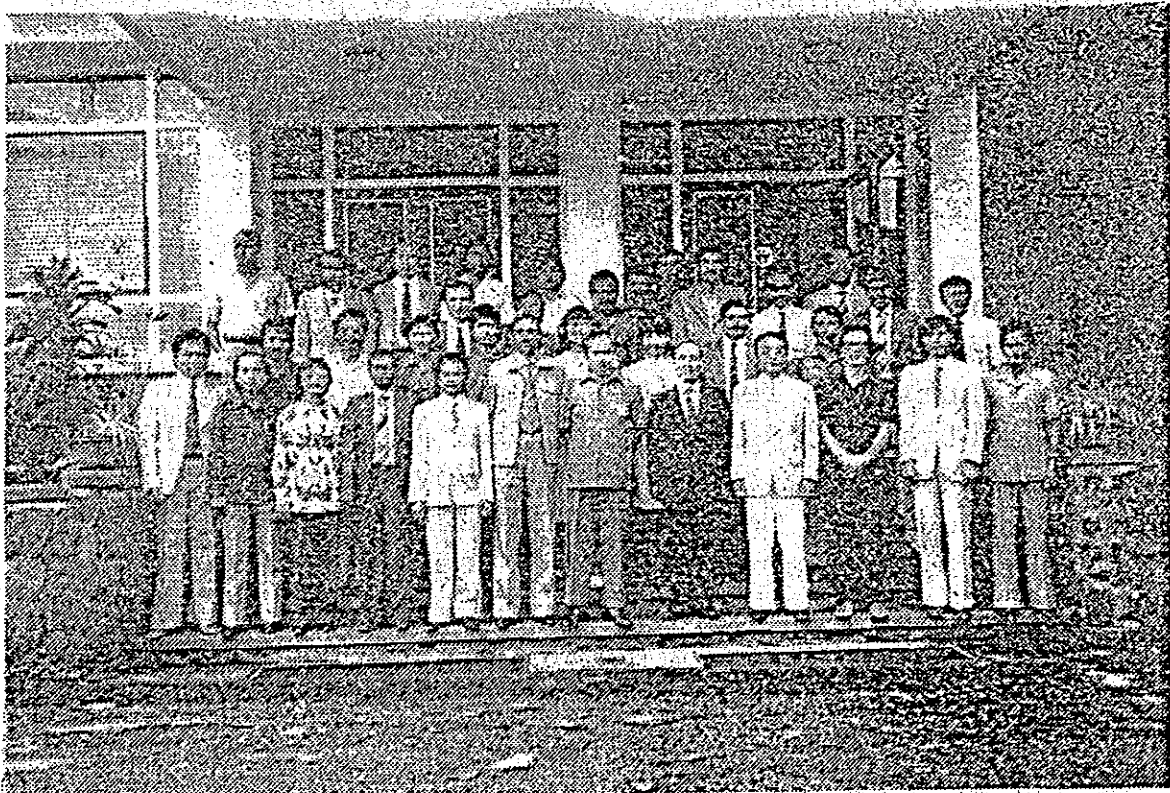
1. the Institute of Human Settlements, Agency for Research and Development, Ministry of Public Works, Government of Indonesia;
2. the Cabinet Secretariat of the Republic of Indonesia;
3. the International Institute of Seismology and Earthquake Engineering (IISEE);

4. Building Research Institute, Ministry of Construction, Government of Japan.

The purpose of this course are :

1. To increase the knowledge of Structural Engineers in developing countries by introducing and exchanging the up-to-date and advanced knowledge of Seismology and Earthquake Engineering achieved in earthquake hazards countries.
2. And thus contribute to finding the solution to the problems of prevention and mitigation of earthquake damage according to the specific feature of each country.

The course will stress practical aspects of seismology, and earthquake relating to structural engineering.



The Director of IHS, and staffmembers, lecturers and participants of the Fourth Course, posing in front of IHS office.

Organizing Committee

Institute of Human Settlements
84, jalan Tamansari - INDONESIA
Tilp. 81082/81083 - Telex : 28327 DBR BD IA



Mr. S.M. Ritonga
Director
Chairman Organizing Committee



Mr. Tarmizi Moerad
Administrative Coordinator



Ir. R. B. Tular
Technical Coordinator



Mr. Bambang Utoyo
Organizing Coordinator



Mr. Victor Leander
General Secretary



Mr. Herlianto
Foreign Relations Officer



Ms. Pariany Sofyan
General Finance Administration Officer



Mr. Syafei Amri
Session Officer



Mr. Telly Soewarli
Administration Officer



Ms. Rumiati Tobing
Technical Officer



Mr. Alex Lumanauw
Reproduction Paper/report Officer



Ms. Elly Siti Marliah
Secretariate Officer



Ms. Wiwi Sukaesih
Treasurer

Liaison officers in Jakarta

1. Mr. M. Rusdi
Agency for Research and Development
2. Mr. Suprpto
Secretariate Cabinet of the Republic of Indonesia
3. Mr P.C. Siswantoro
Ministry of Public Works

Japan International Cooperation Agency (JICA).

Jakarta office :

c/o The Japanese Embassy Compound

24, Jalan Thamrin

Jakarta - INDONESIA.

Resident Representative :

Mr. Hiroshi YAMAMURA

Officers: Mr. Norio MATSUDA

(Assistant Resident Representative)

Mr. Shinsuke NAKATA

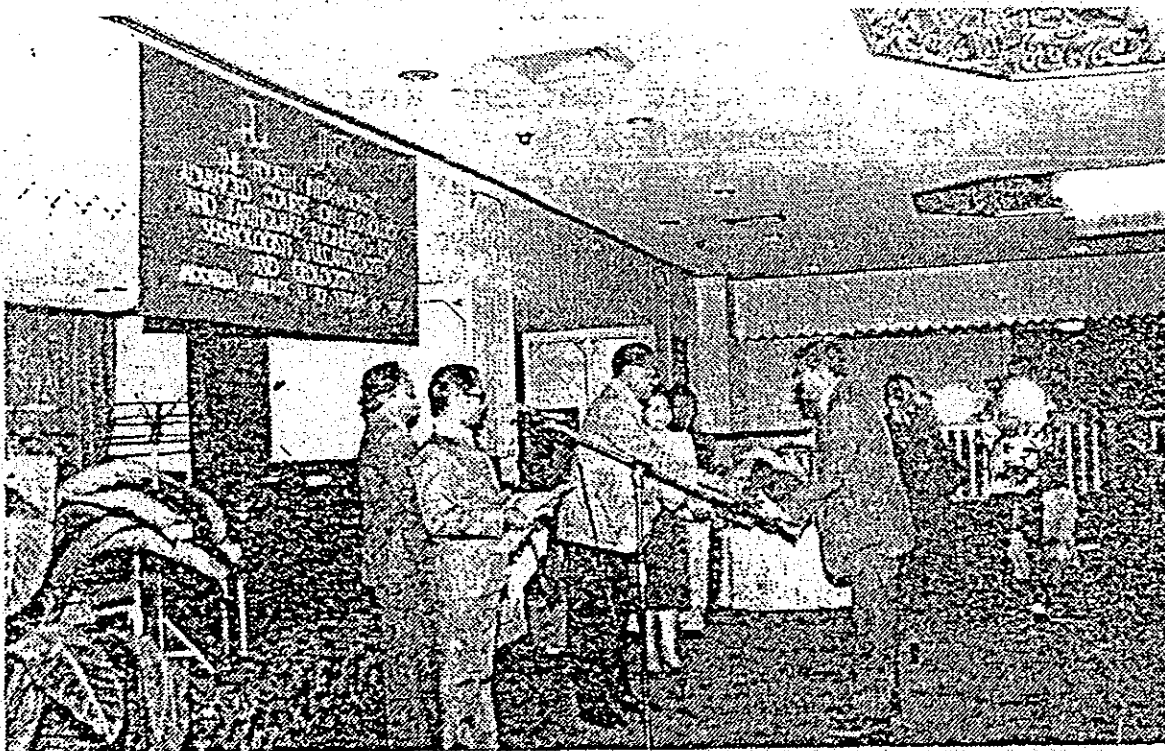
(Technical Coordinator).

Lecturers

Lecturers for the Seminar are appointed from Japan and Indonesia.

Lecturers from Japan

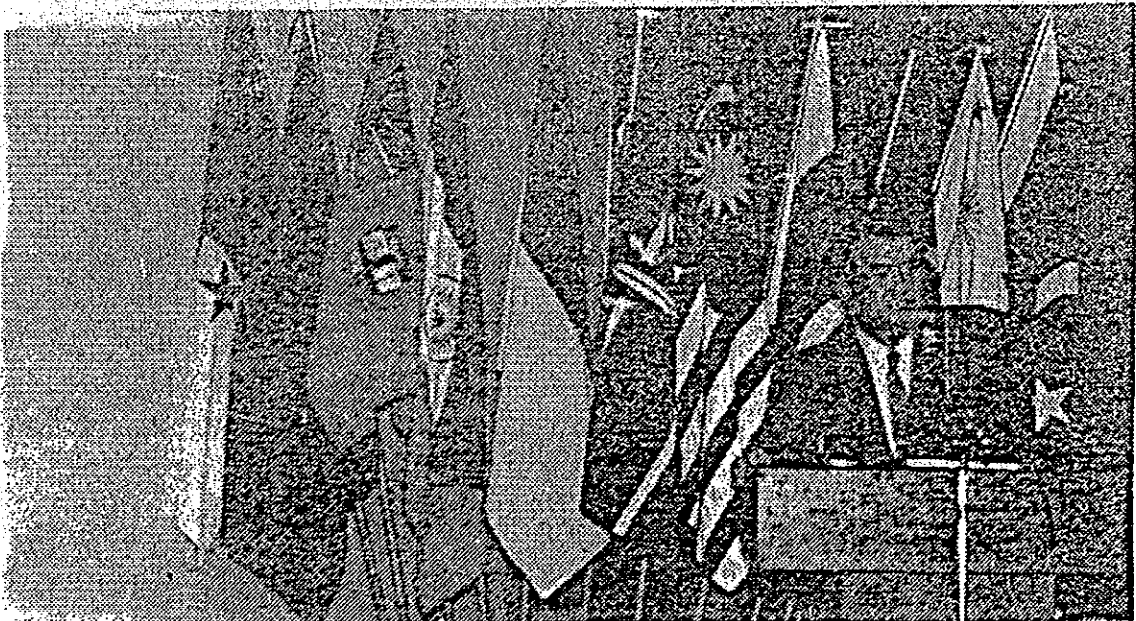
1. Prof. Hiroyuki AOYAMA
Professor of Structural Engineering, Tokyo University.
2. Mr. Fumio TAKINO
Structural Engineer, Kozo Sekkei Co, Ltd, Japan
3. Mr. A. YAMAKI
Structural Engineer, Nihon Sekkei Co, Ltd, Japan
4. Mr. Yuji ISHIYAMA
Head, Division of Applied Seismology Department of IISEE, BRI, MOC, Japan
5. Mr. Shinzou KONOMI
Nihon Sekkei Co, Ltd, Japan.



Mr. Karman Somawidjaja, Director General, Agency for Research and Development of the Public Works handing over a certificate to a participant of the Fourth Course.

Lecturers from Indonesia

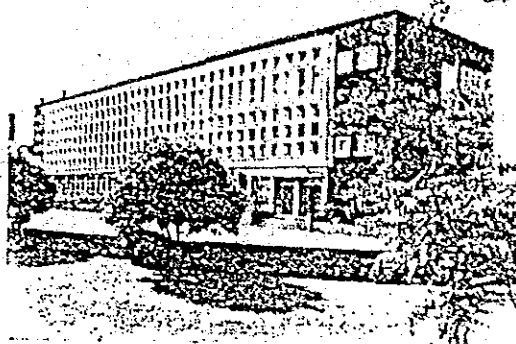
1. Prof. Dr. Sosrowinarso
Professor in Civil Engineering, Bandung Institute of Technology
2. Prof. M.T. Zen
Professor in Geophysics, Bandung Institute of Technology and Assistant to the Minister for Research and Technology
3. Mr. Teddy Boen
Director, International Association for Earthquake Engineering (IAEE) and member of Indonesian Association of Structural Engineers.
4. Mr. Wiratman Wangsadinata
President Director, PT Wiratman & Associates Consulting Engineers and member of Indonesian Association of Structural Engineers
5. Mr. R.B. Tular
Chief of Building Structure and Construction Division, Institute of Human Settlements
6. Mr. Suwandoyo Siddiq
Researcher, Institute of Human Settlements
7. Mr. S. NAKATA
Associate Expert, Institute of Human Settlements.



A staff member of the Japanese Embassy delivering an address at the opening of the Fourth Course.

GENERAL INFORMATION

The Institute of Human Settlements & U.N. Regional Centre for Research on Human Settlements.



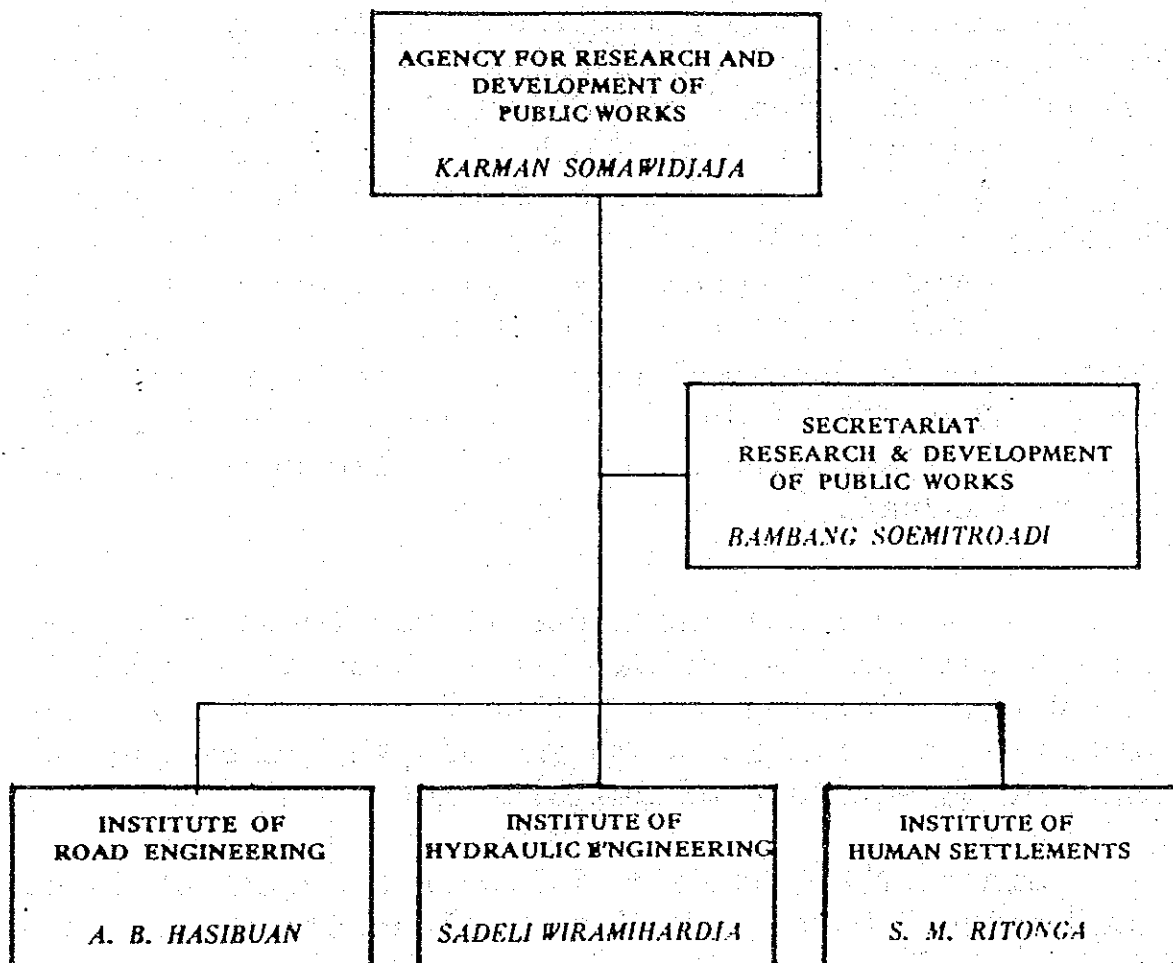
The Institute was established in 1953 by a decree of the Minister of Public Works. It was originally called the Building Research Institute. In 1955 when ECAFE intersecretariat Working Party held a meeting in Bandung, an idea to establish two Regional Housing Centres for South East Asia was discussed and arrived to a recommendation that one Centre in India should serve the arid tropical area and one Centre in Indonesia should serve the humid tropical area. Thus, the Indonesian Building Research Institute is also known as the U.N. Regional Housing Centre Bandung.

As a national Institute it was formerly a research unit within the Direktorat General of Housing Building, Planning and Urban Development of the Ministry of Public Works and adopted the English name of Directorate of Building Research.

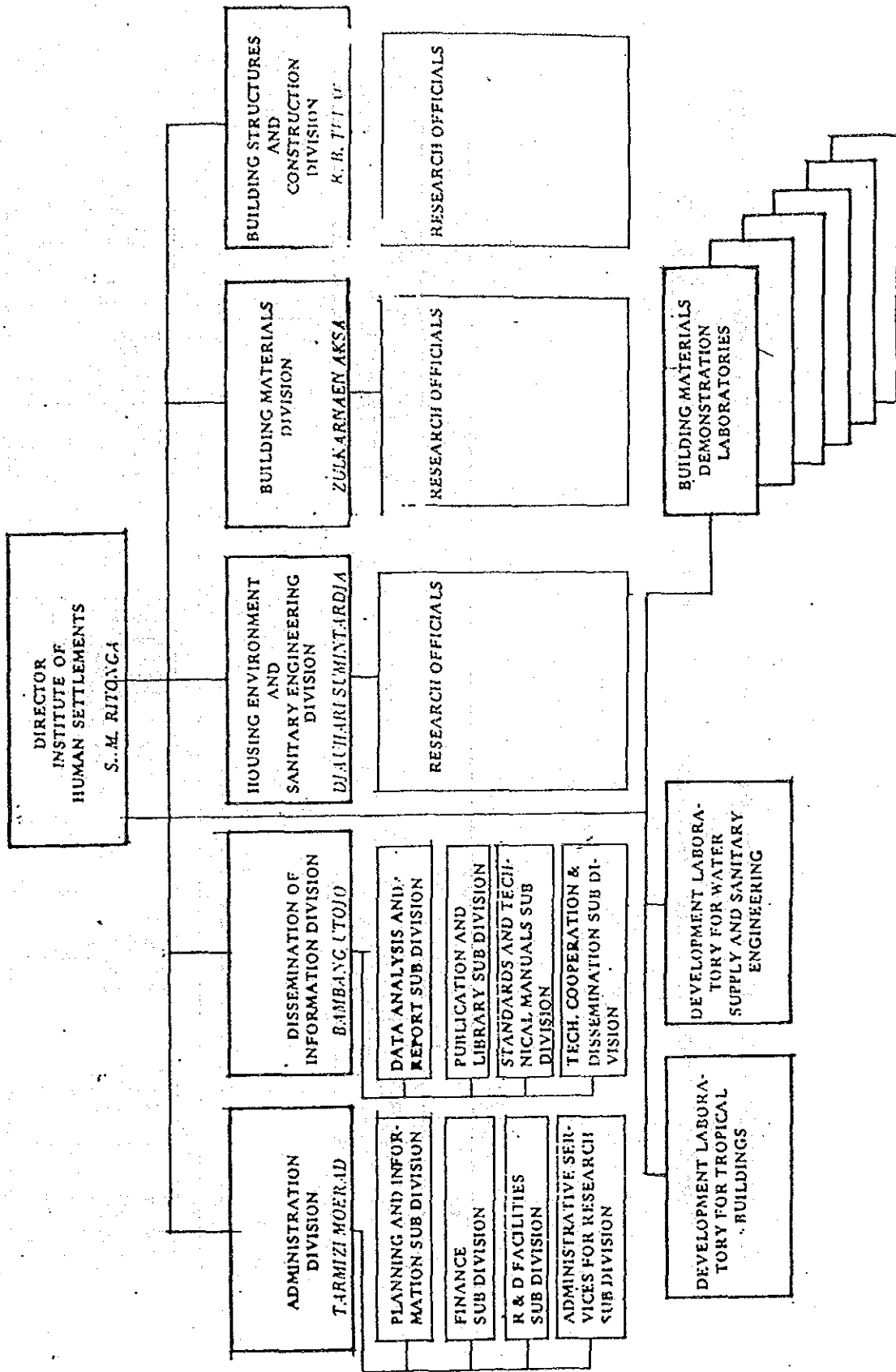
Since the Presidential Decree no. 15 of 1984, commencing 7 March, 1984 the Directorate has the task to function as an Institute of Human Settlements, and is under the auspices of the Agency for Research and Development, Ministry of Public Works.

As a result of a resolution taken at the ESCAP, 35 th session in Manila in March 1979, the Regional Housing Centre is also known as a U.N. Regional Centre for Research on Human Settlements.

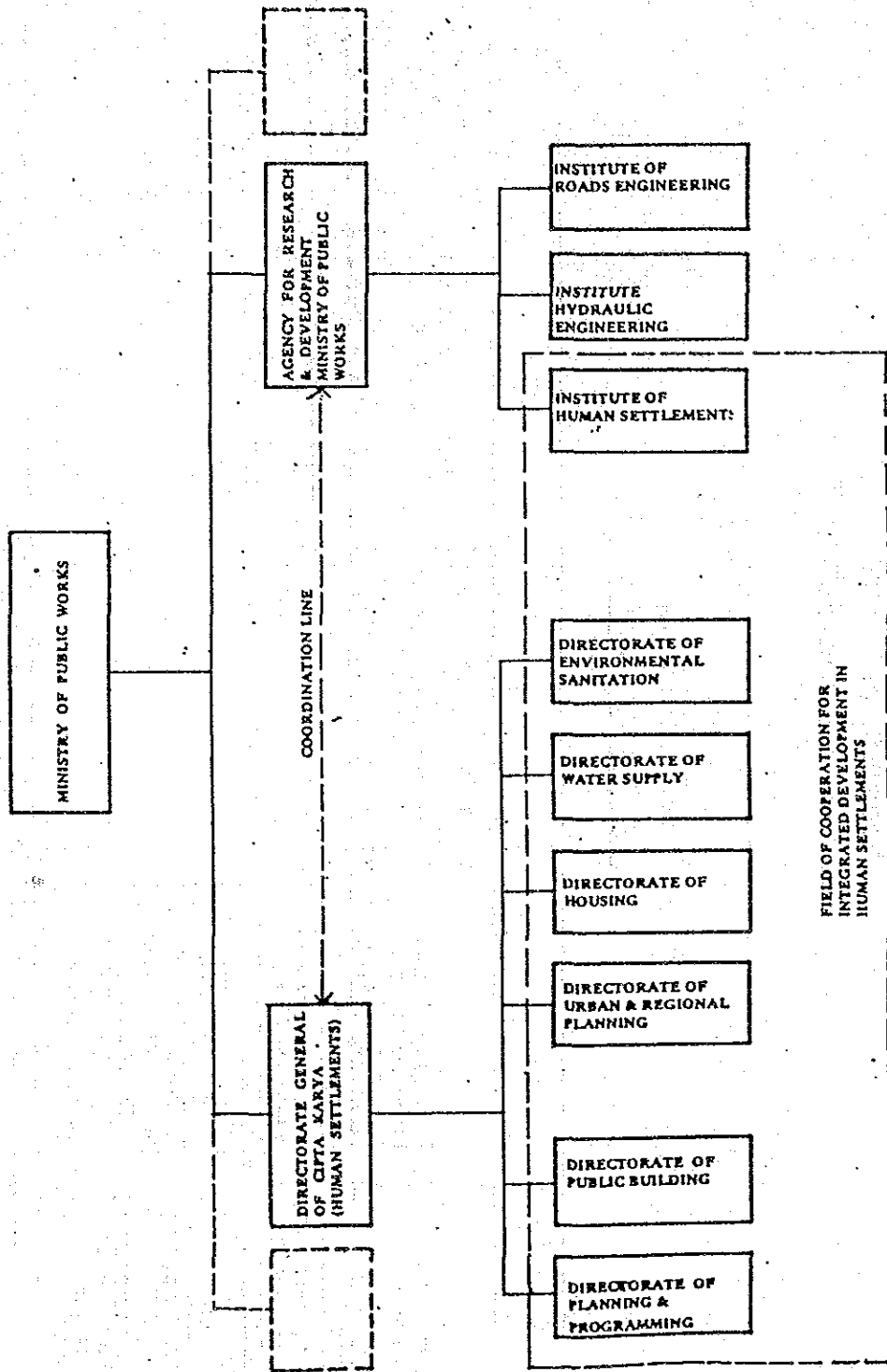
Organization Chart
Agency for Research and Development
Ministry of Public Works

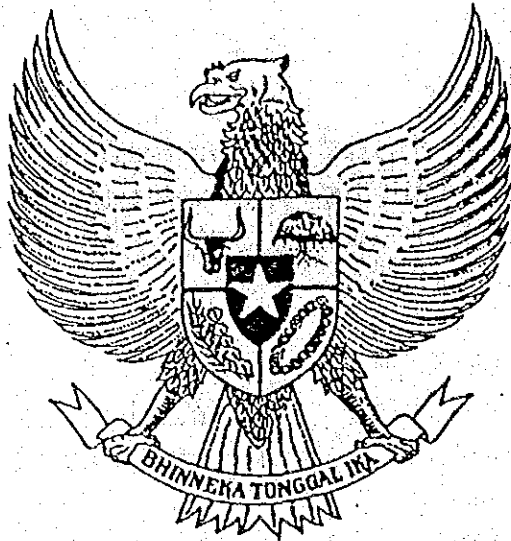


Organization Chart Institute of Human Settlements



Field of Coordination
Between
The Directorate General of Human Settlements (Cipta Karya)
and
The Institute of Human Settlements of The Agency for R & D Public Works





INDONESIA

Area	: 2,019,360 sq.km
Population	: 163 million
Provinces	: 27
Regencies	: 241
Municipalities	: 54
Districts	: 3,509
Villages	: 59,826

Represented on the coat of arms of the Republic of Indonesia, is the "Garuda" (eagle) holding a banner which reads "Bhineka Tunggal Ika" meaning "unity in diversity". On the shield hanging over the eagle's neck are the symbolic figures representing the 5 basic principles of the state known to the Indonesian as the "Panca Sila".

- Belief in the One and only God
- A just and Civilized Humanitarianism
- Indonesian unity
- Democracy guided by wisdom through deliberation/representation
- Social Justice for the whole of the Indonesian people.

Unity in diversity. This is the way that Indonesian people feel and wish to see themselves. They are a nation of various ethnic groups, each with its own traditions and cultural background, and united as one nation, experiencing a common fate. Including being colonized for more than three centuries by the Dutch as the East Indies, except East Timor which was formerly a Portuguese colony.

To visitors from Asia, they may find close similarities with their own people and country. Indonesia has a strong influence of the Hindu culture, and the Chinese and Arab tradition as well.

When the western culture invaded Asia, Indonesia too was not spared. Hence you may find too, some reminders of what is Dutch. Especially in Jakarta, Surabaya, Bandung and other larger cities.

Location territory and its Nature:

The Land area of the Republic of Indonesia is composed of 13,667 islands of which 6,044 are named while the other 7,623 are unnamed.

Only 992 islands (or less than 7%) of the archipelago of Indonesia are inhabited leaving 12,675 islands unpopulated.

The archipelago stretches 5,110 km from West to East and 1,888 km from North to South. The islands are stretched out along the Equator between $94^{\circ} 45'$ and $141^{\circ} 05'$ East longitude and extend from $6^{\circ} 08'$ North Latitude to $11^{\circ} 15'$ South Latitude.

The total land area of the Republic of Indonesia is 1,919,443 square km (including East Timor).

Indonesia is a mountainous land with 216 mountains. The volcanoes in Indonesia can be grouped into 3 major groups as follows :

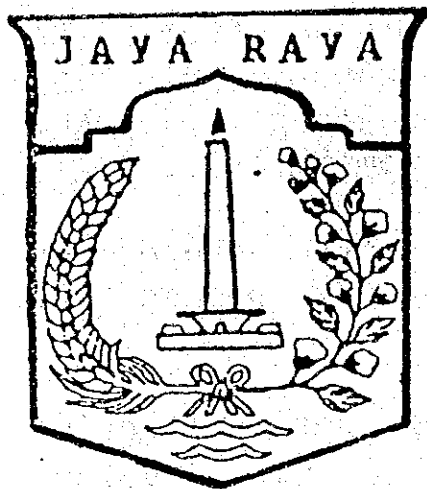
Group A : Mountains that have shown signs of activities or have erupted since 1600

Group B : Mountains in fumarolic state which have not erupted since 1600

Group C : Area of Solfatare & fumarole

Indonesia is one of the most seismically active countries in the world and many of its 216 mountains are still active.

In Indonesia earthquake are mostly of the tectonic type, which occur, on the average 300 to 400 times a year. The magnitude of earthquake is usually greater than 4 on the Richter scale and generally one or two of them cause serious destruction.



JAKARTA

Governor	: R. Soeprapto
Area	: 592 sq.km
Population	: 7.8 millions
Municipalities	: 5
Sub-districts	: 22
local Language	: Bahasa Indonesia.

At present the landmark of Jakarta as shown on the city's coat of arms as its central figure is the National Monument a giant torch with a sculptured flame coated with gold. The accepted story is that Indonesia's first President Soekarno himself was the designer in the early sixties. However he was ejected from the Presidency a few years later before the monument was even finished. He left the nation with many monuments and died, properly remembered mainly for his illustrious and famed past in the struggle for the independence of the nation.

Last year in June, Jakarta celebrated its 457th anniversary. The city's history began when Sunda Kelapa the exporting seaport for spices of the Hindu Pajajaran Kingdom was renamed by the Moslem Sultan of Banten into Jayakarta meaning the city of victory

Years later, the Dutch conquered Jayakarta and razed it to the ground. They built a new town on the ruins with a fortress as their trading post. This was called Batavia or Betawi in the language of the local people. Batavia was planned as a typical Dutch town with man made canals and lift bridges. However this attempt failed when the canals silted up and the stuffy two storeys Dutch houses proved to be a breeding ground for pollution and disease. An earthquake in 1699 which blocked the Ciliwung river made

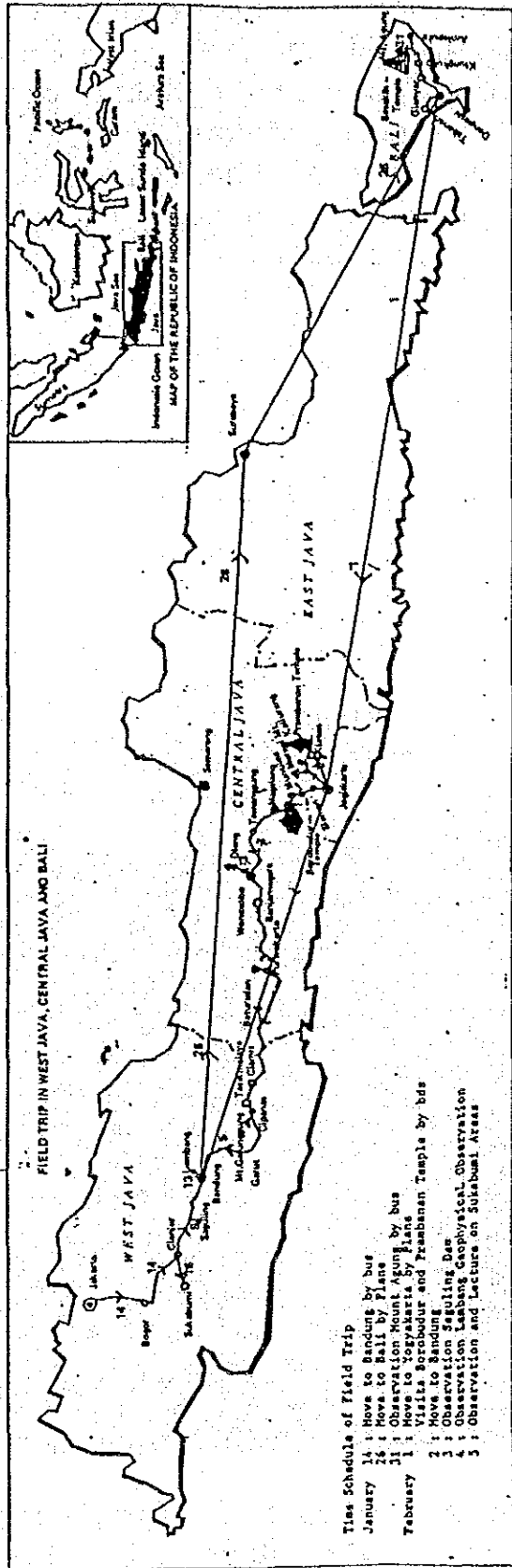
the condition of the town worse. In an attempt to find a healthier place and better water supply and drainage they developed a new area along side the Ciliwung river about three miles from Batavia.

It became until to day the city centre where the seat of administration and the state palace are located.

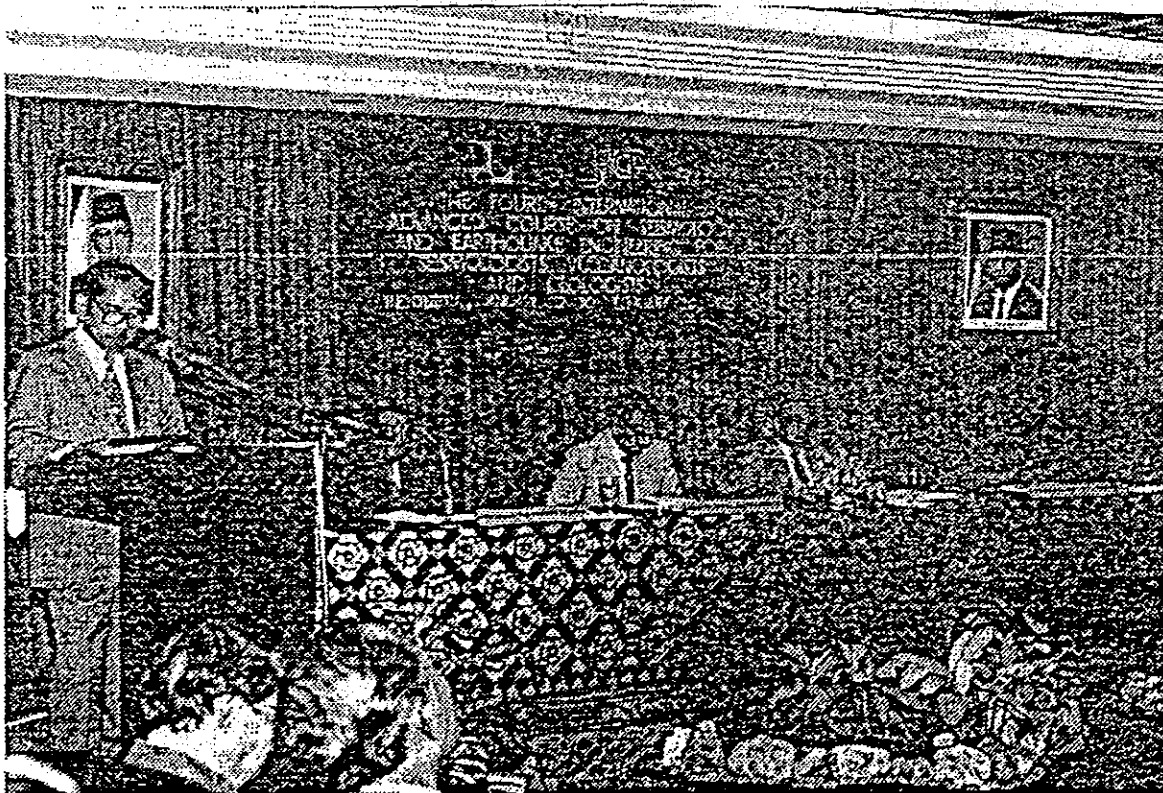
The city is also a symbol of national pride among Indonesians, and the path of the City development has been bringing due hopes among her citizens "I am proud to be a Jakarta citizen" is a common expression we will hear throughout the city corners. Indeed, Jakarta as the Capital City of the Republic of Indonesia which has a glaring feature and a very bright future, is the city all Indonesians shall be proud of.

However the pride of dynamic Jakarta has no standard of comparison to other big cities like, say, in the United States, Europe or Japan. For she grows and develops with a unique character identifying and reflecting the personality, culture and philosophy, underlying her citizen's dynamics and perceptions.

The 24 hours life in Jakarta is, characterized by an intensive social and economic mobility, communication and interaction. The emergence of modern amenities and fast growing infrastructures are coherent with races of high rises taking place in their proper sites. In the meantime the noises and growth of construction activities are harmoniously toned with the advancement in the field of culture, music, songs and dances of the citizens, creatively developed. Religious life is exercised obediently in a social life, creating sincere brotherhood and genuine spirit of gotong-royong. Recreation facilities are not only well provided, but also well attended by the citizens and their families.



This is the description of the kind of quality of environment which will support the desire quality of life to be achieved in the march to develop Jakarta into a harmonious and dynamic city. With the achievement of this goal, Jakarta shall be respectfully playing the role of the Golden Gate for Indonesia and shall be able to become the representative for the national aspiration.



Mr. S.M. Ritonga, Director Institute of Human Settlements, giving his address at the Opening of the Fourth Course.