

Oct. 2014

IISEE



- An International Base for Seismology and Earthquake Engineering -



Toshiaki YOKOI

Director

**International Institute of Seismology
and Earthquake Engineering (IISEE),
Building Research Institute (BRI)**

Organization of BRI

**Chief Executive
Dr. Yuzo Sakamoto**

**Deputy Chief Executive
Auditors
Executive Director for
Building Research
Research Coordinator of
Building Technology**

**Departments for
research support

General Affairs
Research Planning
& Management**

Research Departments

IISEE

**(Director: Dr. T. Yokoi)
Structural Eng.
Environmental Eng.
Fire Eng.
Building Materials &
Component s Eng.
Production Eng.
House & Urban Planning Eng.**

URL

IISEE: <http://iisee.kenken.go.jp/>

BRI: <http://www.kenken.go.jp/english/>

IISEE consists of:

- 2 Permanent Staffs for Administration,**
- 10 Permanent Staffs for Training & Research,**
- 5 Visiting Research Fellows ,**
- 13 Part-time Office Workers.**

Group Training Courses of IISSE

- **One-year Course**
 - 11.5 months (October to September)
 - Three sub-courses: (2014-2015)
 1. Seismology (7)
 2. Earthquake Engineering (10)
 3. Tsunami (6) in total (23 participants)
- **Global Seismological Observation Course (2015 Jan.-Mar.)**
- **Earthquake-Resistant Construction in Latin America Course (2015 Jun.-Jul.)**

Group Training Courses of IISSE: History

		1960	1968	1980	1995	2005	2006	2009	2012	2014			
International Training in Seismology and Earthquake Engineering	One Year Courses (Regular Courses)	Seismology Course	1960 ~ 2005 Master Degree Course										
		Earthquake Engineering Course	1960 ~ 2005 Master Degree Course										
		Tsunami Disaster Mitigation Course								2006 ~ Master Degree Course			
	Seminar Courses on Earthquake Engineering	China Seismic Building Course								2009 ~ 2012			
		Earthquake Resistant Construction in Latin America Course								2014 ~			
		Others				1980 ~							
	Global Seismological Observation Course						1995 ~						
	Individual Courses	1968 ~											

Cooperation with MLIT and JICA

- ◆ In January **1962**, **IISEE** was established at BRI as the implementing organization.
- ◆ Today, IISEE's training courses are implemented by the cooperation with MLIT and JICA.



Courtesy visit to Mr. A. Ohta, Minister of Land, Infrastructure, Transport and Tourism (MLIT), Sep. 8, 2014



Visit by Ms. S. Ogata Ex-president of Japan International Cooperation Agency (JICA) to the course

Support by UNESCO

- In cooperation with UNESCO, the **Government of Japan** offered one-year training courses from 1963 to 1972.
- Since 1972, the Government of Japan has continued to offer these courses independently.
- UNESCO sent experts to IISEE from 1985 to 1995.
- UNESCO resumed cooperation in 2006.
Dispatch 2 experts in 2007.
Donated textbooks.



Logo, granted by UNESCO



Tsunami Course Lecturer:
Dr. Laura Kong

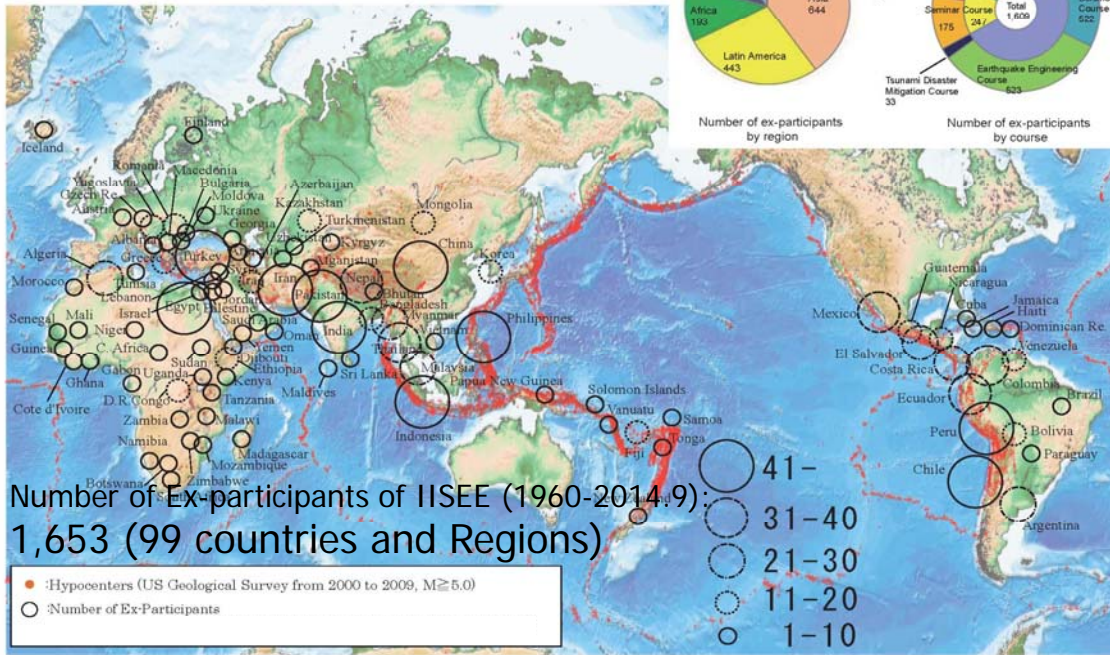


Meeting with Mr. Matsu'ura,
Director General of UNESCO

Ex-Participants of IISEE Training Courses

Distribution of Participating Countries and Regions (1960-2014.9)

Number and Nationalities of Ex-Participants



Countries and Decade of Ex-Participants in IISEE

Statistics of One Year Course up to 2011

Country	Region	1960s	1970s	1980s	1990s	2000s	2010-2011	Total
India	Asia	17	14	4	3	5	0	43
Indonesia		8	16	21	11	15	4	75
Korea		3	2	6	4	0	0	15
Sri Lanka						3	0	3
Thailand		4	6	11	4	7	0	32
China		5	3	6	8	17	2	41
Nepal		2	3	6	8	8	0	27
Pakistan		5	8	9	10	11	0	43
Philippines		28	12	14	11	7	2	74
Bangladesh				1		7	0	8
Bhutan						1	0	1
Vietnam		1			2	0	0	3
Malaysia			1	1	2	7	4	13
Myanmar		1	8	8	5	1	0	23
Mongolia						6	0	6
Argentina		5	3	7	3	0	0	18
Ecuador		6	11	7	3	0	0	27
El Salvador		2	2	7	2	11	1	25
Cuba					1	0	0	1
Guatemala	2	1	5	1	1	0	10	
Costa Rica	2	6	5	5	2	0	20	
Colombia	4	8	3	10	6	0	31	
Jamaica	Latin America						1	1
Chile		11	6	4	4	2	0	27
Nicaragua			4	2	4	4	1	15
Brazil		1					0	3
Venezuela		3	3	5	2	1	0	14
Peru		13	21	17	11	13	2	77
Bolivia		7	7		1	0	0	15
Mexico		7	7	4	6	2	0	26
The Dominican Republic				1		3	0	4
Samoa (former Western Samoa)						1	0	1
Tonga	Oceania				3	0	3	
Vanuatu						1	0	1
Papua New Guinea				3	*	1	0	4
Fiji		1	2		2	5	0	10
Algeria				4	9	5	0	18
Uganda	Africa				3	0	3	
Egypt		6	8	8	14	7	0	43
Ethiopia			5	6	4	0	0	15

*: Earthquakes caused more than 10,000 deaths (19 Earthquakes)
 ☆: Earthquakes caused more than 1,000 deaths (58 Earthquakes)

countries continuing participation for half a century
 Number of Participants Top 10 countries
 2004 Off Coast of Northern Sumatra Earthquake

Country	Region	1960s	1970s	1980s	1990s	2000s	2010-2011	Total	
Ghana	Africa	2			2	2	0	6	
Kenya					1	0	0	1	
Guinea					1	0	0	1	
D.R.Congo (former Zaire)			3	4	5	0	0	12	
Zambia					1	0	0	1	
Djibouti					1	0	0	1	
Zimbabwe						1	0	1	
Sudan			1				0	1	
Tanzania			1				0	1	
Tunisia					1		0	1	
Madagascar						1	0	1	
Malawi						2	0	2	
Mozambique						2	0	2	
Morocco			*			3	1	4	
Iceland			1				0	1	
Azerbaijan						2	0	2	
Albania						3	1	4	
Armenia					*	1	0	1	
Uzbekistan						1	3	4	
Kazakhstan					3	5	8		
Greece	Europe		1	7	2	0	0	10	
Kyrgyz						2	0	2	
Georgia						1	2	0	3
Finland		1	1				0	2	
Bulgaria		1	1		1	0	0	3	
Macedonia					1	0	0	1	
Moldova						1	0	1	
Former Yugoslavia		6		1			0	7	
Romania		1			1	7	0	9	
Afghanistan		3				1	0	4	
Yemen				*	2	2	0	4	
Israel	Middle East	1					0	1	
Iraq		1	6	2			0	9	
Iran		17	5	5	8	*	0	35	
Saudi Arabia						4	0	4	
Syria					3	3	0	6	
Turkey		14	13	4	9	12	2	54	
Jordan			2				0	2	
Lebanon		1					0	1	
Total			193	203	199	201	218	20	1034

Earthquakes caused more than 1,000 deaths other than those above: Italy 1980, Japan 1995, Russia 1995, Taiwan 1999
 That is, 95% of the earthquakes in the last 50 years which caused more than 1,000 deaths occurred in developing countries.
 IISEE has been accepting participants from all these countries.

2008 Sichuan, China Earthquake
 Haiti and Jamaica newly participated in 2011 not included.

Change in Demand for the Training

- According to the international situation, economic conditions, furthermore the devastating earthquakes and occurrence of earthquake-related disasters in the 21st century, the trend of the demands for the IISEE has been changed.
- For instance, countries in **Central Asia and Caucasus**, which are on the way to emerge from their political and economic confusion caused by the collapse of the Soviet Union after the end of the Cold War, are eager to switch from previous academic and technological systems to those of western countries.
- By receiving benefit of world economic globalization, the attention to earthquake disaster mitigation is being developed in **least developed countries** such as Bangladesh, Myanmar, etc., which previously placed a great importance only on the basic human needs such as food production increase, etc., and the demands for the IISEE training have been risen in those countries.
- Besides, Chile, Mexico and other so-called **medium-developed countries** have already grown to be international joint research partners owing to the efforts for the Japan's past technology transfer.
- On the other hand, Malaysia and Sri Lanka started sending participants to the training course although they do not have damaging earthquakes in their own countries, the turning point of which was the 2004 Gigantic Tsunami in Indian Ocean.
- In addition to these countries, Turkey, China and others keep on sending participants for the capacity development of young core researchers of their seismology-related research institutions.

One-year Course: Objective

- To give the advanced technologies and knowledge in the fields of **seismology, earthquake engineering and tsunami disaster mitigation** so as to encourage the participants to establish, utilize, and disseminate earthquake and tsunami disaster mitigation technologies to their countries **in consideration of their respective circumstances, regulations and people.**

Seismology Course and Earthquake Engineering Course

- ◆ The needs of the training on Seismology and Earthquake Engineering was recognized in late 50' and also emphasized at the **2nd WCEE** (World Conference on Earthquake Engineering) in **1960**.
- ◆ The training course on **Seismology and Earthquake Engineering** was held at the University of Tokyo in 1960 and at the Waseda Univ. in 1961.
- ◆ ISEE was settled in BRI in 1962 by the Government of Japan for securing continuous implementation of the training.

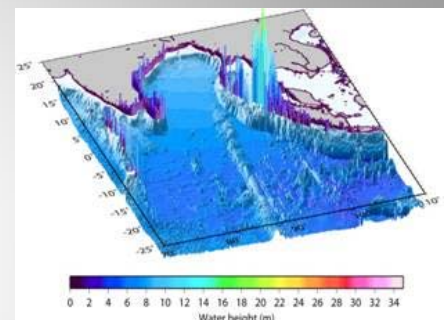


The 2nd Annual Training Courses Participants on Seismology and Earthquake Engineering (1961 - 1962)

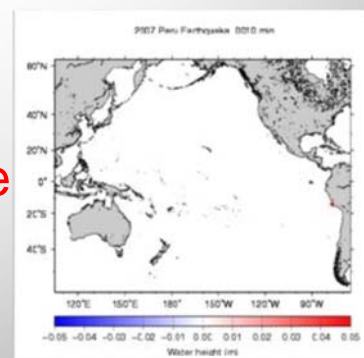
Prof. Julio Kuroiwa (Peru)

Tsunami Disaster Mitigation Course

- Gigantic tsunami generated by a major earthquake off Sumatra in 2004 wreaked havoc in the coastal areas of the Indian Ocean.
- In response, the **Tsunami Disaster Mitigation Course** was established in **October 2006**.



Height of tsunami along the coastlines devastated following the earthquake off Sumatra in 2004 (simulation result)



Tsunami Propagation (animation)

Master of Disaster Management

- From **2005-2006 course**, the curriculum of the one-year course is approved as a master's degree program by National Graduate Institute for Policy Studies (GRIPS) and BRI.



Awarding of master's degree by Dr. Y. Sakamoto, Chief Executive of BRI, Sep. 12, 2014

"Master of Disaster Management"

- Up to now, 197 participants took the MA degrees.

One-year Course: Program

- **October – May**
 - 8 months
 - Group training on lectures, study trips, colloquiums
- **June – August**
 - 3 months
 - Individual studies on their respective themes
- **September**
 - Presentation & discussion on the results of individual studies
 - Closing Ceremony : Certificate, Diploma and Master's degree



lecture



General meeting



study trip

One-year Course Lectures

Seismology Course

- Computer
- Mathematics
- Theory of Seismic Wave
- Earthquake Observation
- Analyses of Teleseismic Records
- Source Mechanics
- Plate Tectonics
- Geophysical Exploration
- Seismic Micro Zonation
- etc.

Earthquake Eng. Course

- Computer
- Structural Analysis & Dynamics
- RC & S Structures
- Foundation Engineering
- Structural Testing
- Limit Analysis
- Design Code
- Seismic Micro Zonation
- etc.

One-year Course Lectures cont.

Tsunami Disaster Mitigation Course

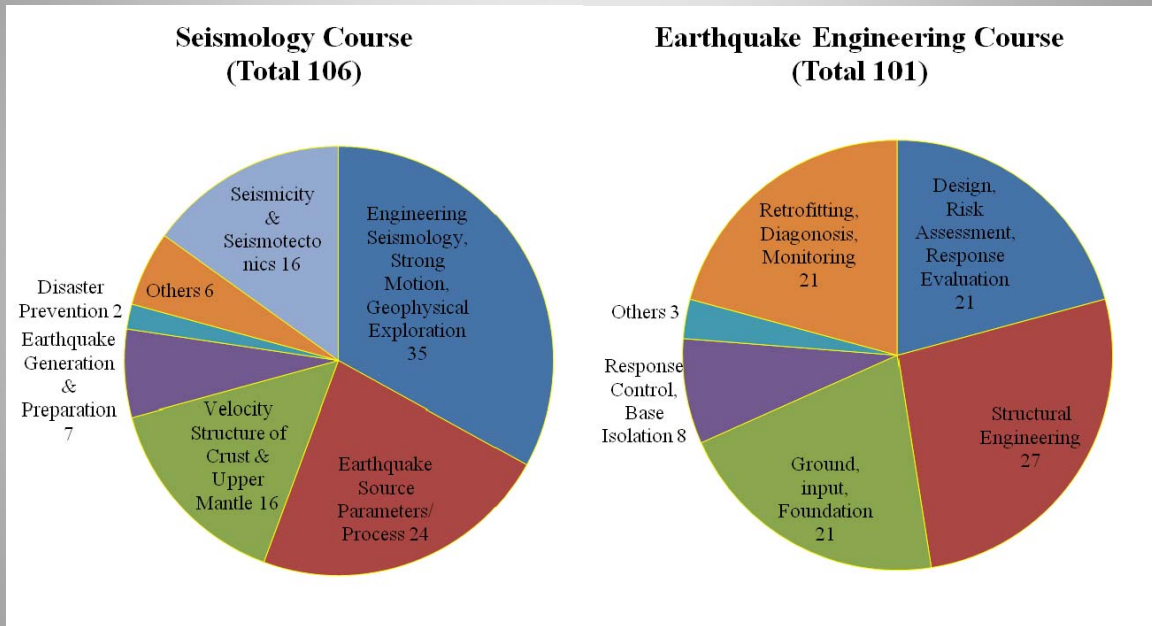
- Computer *
- Mathematics *
- Theory of Seismic Wave *
- Source Mechanics *
- Plate Tectonics *
- Hydrodynamics
- Tsunami Propagation
- Tsunami Simulation
- Tsunami Early Warning System
- etc.



* Joint Lectures with Seismology Course

Topics of the individual study

(Master Theses from 2005-2006 course)



Number of participants sorted by topics of the individual study (Master Report from 2005-2006 course) for the period from the course 2001-2002 to the course 2011-2012 for Seismology & Earthquake Engineering Courses

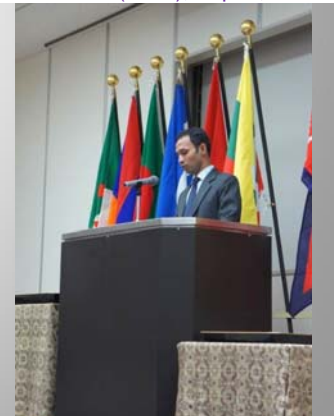
Degree, Diploma, Certificate, Awards and Honors

- IISEE: Post Graduate Diploma & Certificate
- JICA: Certificate
- GRIPS & BRI: Master Degree
- IISEE: Director's Award*
- GRIPS: Dean's Award*
Best Research Award*
- Speech in the Courtesy Visit to the Minister of MLIT*
- Speech in the Closing Ceremony*

* They will be selected among those of better performance.



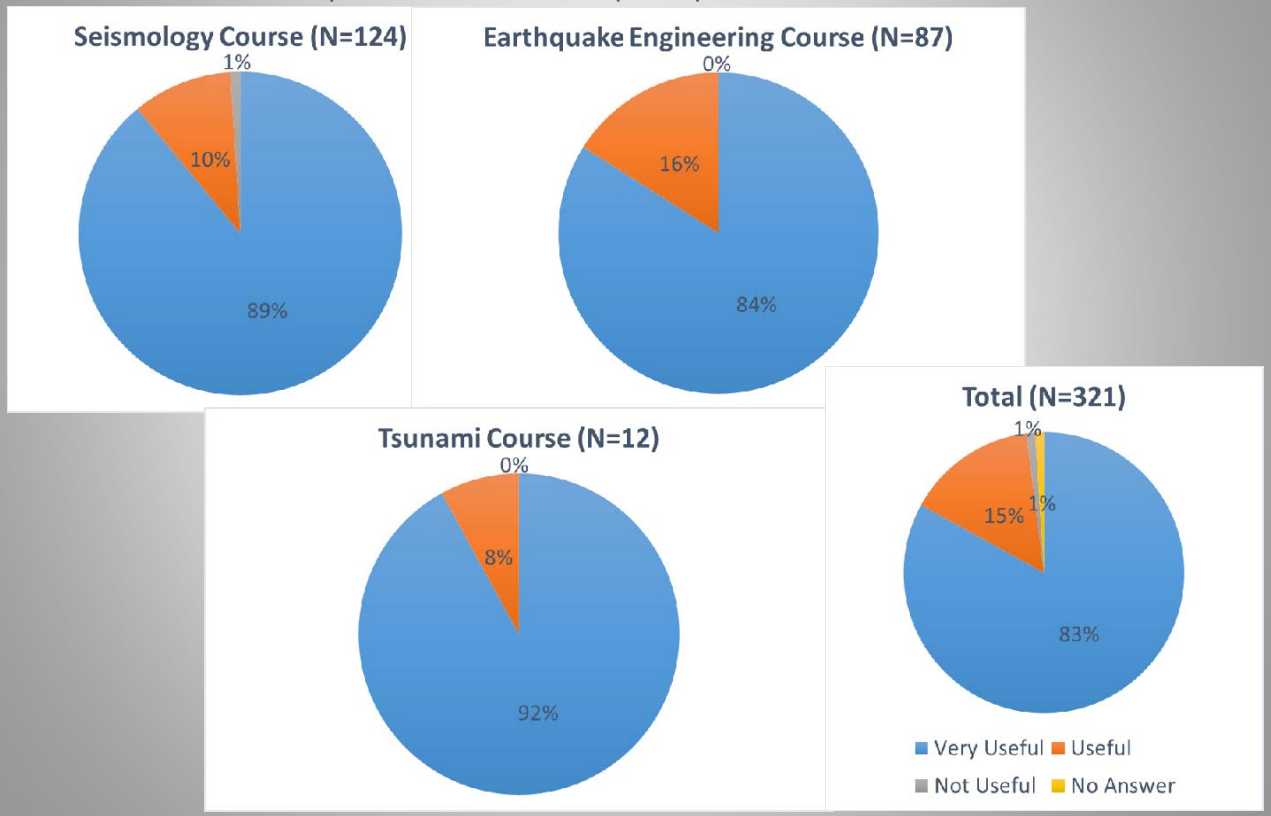
Courtesy visit to Mr. A. Ohta, Minister of Land, Infrastructure, Transport and Tourism (MLIT), Sep. 8, 2014



At Closing Ceremony, Sep.11, 2014

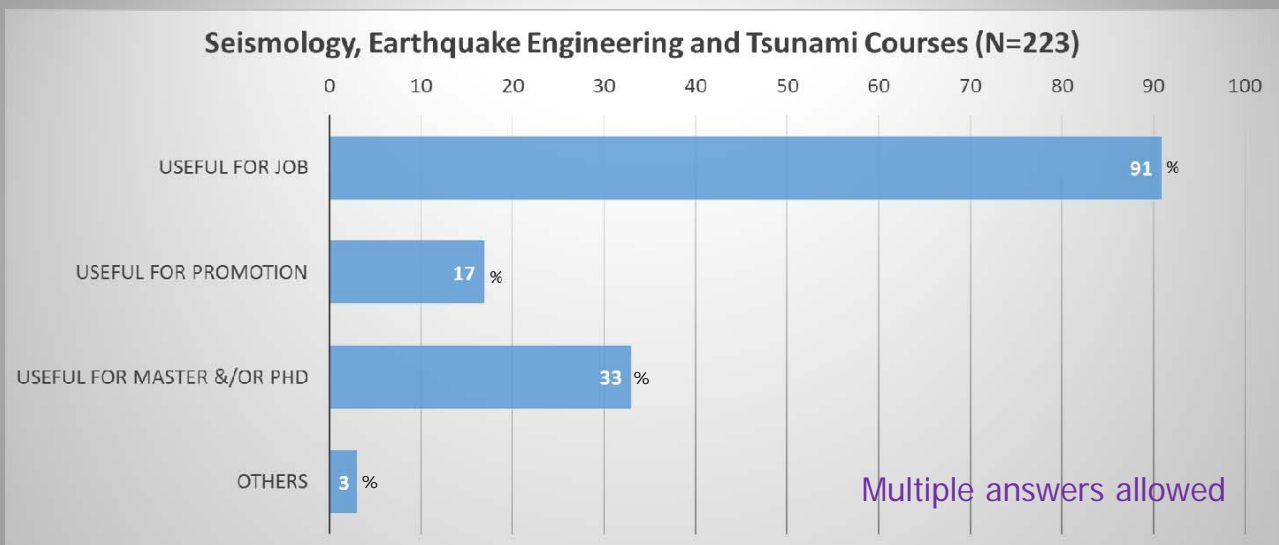
Was the training useful for you ?

Answers for the questionnaire to all ex-participants conducted in 2010 and 2011.



Reasons why answered “useful”.

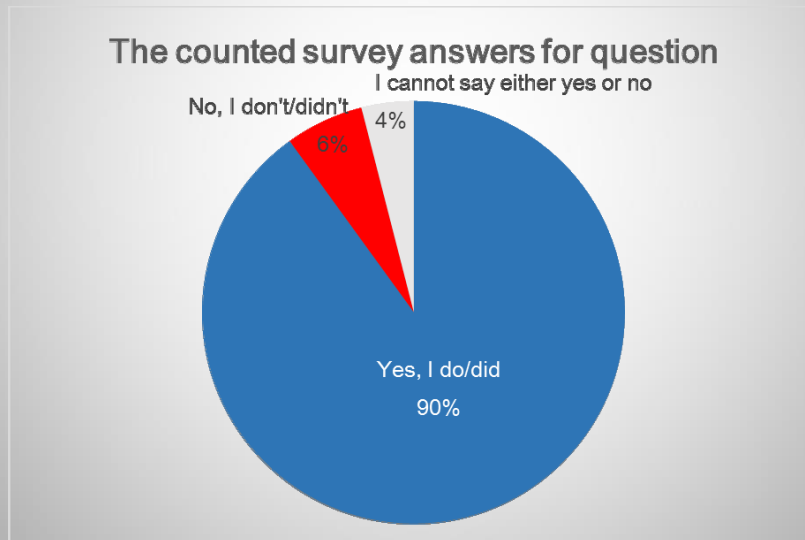
Answers for the questionnaire to all ex-participants conducted in 2010 and 2011.



Do you (or did you) work in line with the training fields which you have joined in ISEE such as seismology, earthquake engineering, and/or tsunami disaster mitigation?

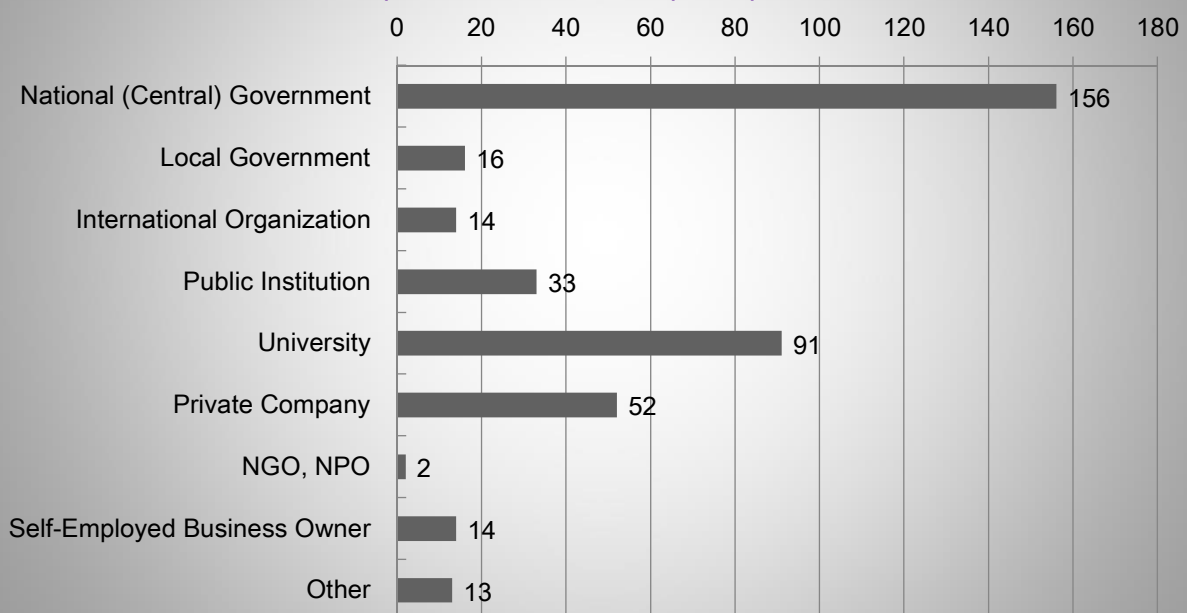
Answers for the questionnaire to all ex-participants conducted in 2014.

N=327



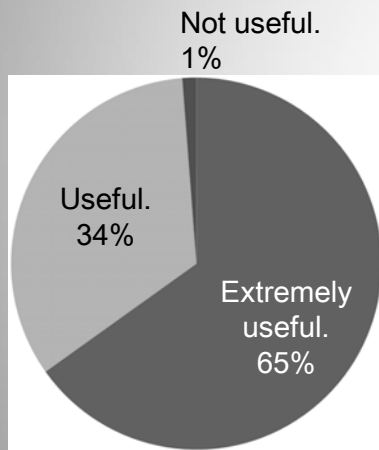
Which is the type of organization you are/were involved in?

Answers for the questionnaire to all ex-participants conducted in 2014.

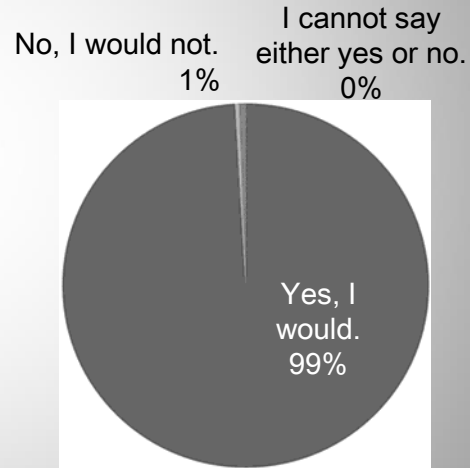


Answers for the questionnaire to all ex-participants conducted in 2014.

Was the outcome of the IISEE training program useful for your job?



Would you recommend IISEE training program to other office or professional colleagues?



IISEE alumni play important roles in their own countries &/or fields

Researchers who have been sent to the IISEE by their governments, national research institutes and universities from various countries contribute to the mitigation of earthquake disasters in their native countries after completing their training. Some IISEE graduates have become ministers, institution directors, or university rectors, and many actively participate as leaders in the fields of seismology and earthquake engineering. Following are some examples: **Dr. Harsh Gupta** of India (1966-67 Seismological Course) held the post of Secretary to the Government of India for the Department of Oceanic Development, the Director of the Indian National Geophysical Research Institute, and he was the first Chairman of the Asian Seismological Society. At the end of 2008, he received a Waldo E. Smith medal from the American Geophysical Union. **Dr. Djoko Santoso** of Indonesia (1978-79 Seismological Course) is the current rector of The Bandung Institute of Technology in Indonesia.

Many researchers have come to Japan from the National Research Institute of Astronomy & Geophysics (NRIAG) in Egypt. **Dr. Rashad Kebeasy** (1965-66 Seismological Course) is the former President of the NRIAG and was also Head of the International Data Center in Provisional Technical Secretariat of the Comprehensive Test Ban Treaty Organization (CTBTO). **Dr. Salah Mohamed** (1982-83 Seismological Course) is the current President of the NRIAG in Egypt. The largest number of researchers has come from Peru, with 107 participants to date. **Dr. Julio Kuroiwa** (1961-62 Earthquake Engineering Course) is a leader in the field of earthquake engineering in his country. He appeared on television as a commentator every day during the Peru Pisco earthquake in 2007. **Dr. Robert Morales** (1970-71 Earthquake Engineering Course) was the rector of the National University of Engineering in Peru until 2008. **Dr. Federico David Guendel Umana** (1975-76 Seismological Course) from Costa Rica is now the Head of the International Monitoring System (IMS) in the Provisional Technical Secretariat of the CTBTO. . (As of 2008)

These are just few examples among numerous IISEE alumni who play important roles in their own fields



Dr. Gupta at an alumni meeting held during a meeting of the Asian Seismological Society



Prof. Kuroiwa on television (courtesy by the United Nations Center for Regional Development)

Global Seismological Observation Course

- The course commenced in 1995 one year before the Comprehensive Nuclear-Test-Ban Treaty (CTBT) was concluded in Disarmament Council at Geneva.
- The purpose is to train young people in order to obtain seismological knowledge and technologies for identification and detection of signals originated in underground nuclear tests.
- 186 persons from 70 countries have attended.
- The next term will be held Jan. 18 – Mar. 14, 2015.



With Dr. R. Bell, Lecturer,
Director of IMS, CTBTO



Lecture in Japan Meteorological
Agency

Global Seismological Observation Course: Contribution to Nuclear Disarmament

 Ministry of Foreign Affairs of Japan
外務省

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Japan's Initiative to Promote the Entry into Force of the CTBT

1. Sending Special Envoys to engage with non-signatories of CTBT and non-ratified countries on the Annex II States.

In light of 2010 NPT Review Conference, Japan will send high level envoys to non-signatories of CTBT and non-ratified States of Annex II, to encourage those States to sign and ratify as soon as possible.

2. Contribution to establishing a strong verification regime

(1) Enhancement of JICA Global Seismological Observation Training

Since 1995, in cooperation with the Japan Meteorological Agency, Japan Weather Association and the Building Research Institute, Japan has been offering Global Seismological Observation Training. To date, one hundred thirty seven (137) experts coming from over sixty nine (69) countries were trained. Japan will enhance this technical training to increase the number of competent technical experts who will play key roles in strengthening the IMS. Details of the training are as follows:

▫Purpose: to increase the number of competent technical experts who will play key roles in strengthening the IMS through knowledge-sharing and offering technical expertise in the area of global earthquake observation and data analysis.

▫Target Countries: Mainly CTBT non-signatories and non-ratified States.

▫Requirements: More than three-year-experience in seismology and working in the field of earthquake observation and data analysis. Preference will be given to those who are currently working or are planning to work at the IMS Observatory or the National Data Centres.

Earthquake-Resistant Construction in Latin America Course

Mejoramiento y Difusión de la Tecnología para la Construcción Sismo-resistente en Latinoamérica

- Started in 2014
- Teaching language: Spanish
- Specialized for the Earthquake-Resistant Construction in Latin America
- Duration: two months (June-July) including two weeks in El Salvador
- Structural Experiment in UCA y UES, San Salvador
- The next term will be held in Jun. – Jul., 2015.



Practice in a Concrete Block Factory



China Seismic Building Course (2009-2012)

to assist recovery from Sichuan Earthquake

Sichuan (Wenchuan) Earthquake

14:28 May 12, 2008 (local time)



Collapsed dormitory for students (Sichuan)



Collapsed brick masonry structure (Sichuan)

Wenchuan Earthquake occurred on May 12, 2008 claimed huge damage more than 87,000 casualties and missing, with 6,500,000 collapsed buildings.

One year after

"Human Resources Development Project for Earthquake Engineering and Construction of Buildings" initiated in China on May 12, 2009, just one year after the big disaster. IISEE of BRI manages one of the training courses titled "Design, Assessment, Retrofit of seismically resistant buildings (China Seismic Building Course)" Oct., 2009.



First participants in China course in Oct. 2009

Training in Japan aims at deeper understanding of Chinese engineers to seismic technology and hope to apply it to houses, schools, hospital and to disseminate in China. 72 leading structural engineers joined the training during 4 years. They learned at IISEE for two months on design, assessment and retrofit of earthquake resistant buildings. They returned to China and gave the lectures 10 times to 324 core engineers in 8 cities. These core engineers gave the lectures 33 times to 8,833 general engineers in 23 municipalities.

Together with Alumni: News Letters



IISEE Newsletter

International Institute of Seismology and Earthquake Engineering, BRI Japan
1 Tachihara Tsukuba Japan 305-0802 tel:81-29-879-0678 facsim:81-29-864-6777



October 28 2014
Number 114

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- IISEE Welcomes 23 Participants from 12 Countries
- GRIPS Entrance Guidance and Orientation
- Visit to Edo-Tokyo Museum and Honjo Life Safety Learning Center
- New Free Book for Earthquake Engineers published by UNESCO
- New Participants

IISEE Net and Training

IISEE-UNESCO Lecture Note
IISEE E-learning
Synopsis Database
Bulletin Database



IISEE Welcomes 23 Participants from 12 Countries

By Ms. Yoriko Iiba, Head of IISEE Administration Division

The IISEE opening ceremony of the 2014-2015 training course was held at JICA Tsukuba from 16:00 to 16:30 on Friday, October 3. They are 7 participants of Seismology Course, 10 participants of Earthquake Engineering Course and 6 participants of Tsunami Disaster Mitigation Course. For most of them it is the first time to come to Japan.



Dr. Sakamoto, CE of BRI

At the ceremony, Mr. Senichi Kimura, Director General of JICA Tsukuba International Center made an opening address. Next, Dr. Yuzo Sakamoto, BRI Chief Executive made a welcome speech. He told the new participants that the BRI has been conducting the training program over 50 years and he still felt sympathy with the people suffered from earthquakes and tsunamis. He hoped that they would learn how people in the devastated areas countries themselves. And, Dr. Shoichi Ando, Professor of National Graduate Institute for Policy Studies (GRIPS) delivered a congratulatory address. In the middle of the ceremony, each participant made self-introduction. Lastly, as the representative of the participants, Mr. Emilio Adan Talavera Martinez from Nicaragua gave an address in reply.

Thanks to the cooperation by their respective governments concerned and JICA offices, 29 candidates from 12 countries applied for the IISEE training program this year. Finally 23 participants from 12 countries have come over to Japan.

Including the new one-year course participants, the number of the participants is 1,121 from 81 countries. Counting this course, the participants of IISEE training program are 1,676 from 99 countries altogether. We are now looking forward to seeing a participant from a country of the entry number 100.



New Participants and BRI and JICA Staff

Earthquakes

The 2011 off the Pacific coast of Tohoku Earthquake
Reports of Recent Earthquakes
IISu Catalog
Earthquake Catalog

Call for Papers

IISEE Bulletin is now accepting submissions of papers for the seismology, earthquake engineering, and tsunami. Developing countries are targeted, but are not limited.

Your original papers will be reviewed by the editorial members and some experts.
NO submission fee is needed.
Try to challenge!!



Program Guidance

On Thursday October 2, the Entrance Guidance and Orientation was held in the GRIPS Soukairou Hall. New 23 participants joined it. At the beginning, Prof. Takashi Shiraiishi, GRIPS President made a speech of welcome.

After the entrance ceremony at the hall, Prof. Shoichi Ando, Program Director of Disaster Management Policy and Prof. Hitoshi Ieda gave the program guidance. Prof. Ando showed the general information and Prof. Ieda made supplementary instructions of the intensive lectures in GRIPS from two weeks from January to February. They plan to have a study tour to Tokyo Metropolitan District and a group presentation and discussion program. Prof. Ieda brilliantly explained the content and made the participants of IISEE and ICHARM (International Centre for Water Hazard and Risk Management, Public Works Research Institute) into 3 groups. Those are "Disasters in Urban Areas," "Disasters in Coastal Areas" and "Disasters in Inland Rural Areas."

Basically their lectures are carried out in Tsukuba. Through this new challenge by the professors, we hope the participants have excellent experiences in GRIPS, Tokyo in two weeks.

GRIPS Entrance Guidance and Orientation

By Ms. Yoriko Iiba, Head of IISEE Administration Division



At The GRIPS Hall

Visit to Edo-Tokyo Museum and Honjo Life Safety Learning Center, October 10, 2014

By Dr. Toshiaki Yokoi, Director of IISEE

It was the first chance for the Seismology course and Earthquake Engineering course participants to go to Tokyo Metropolis after they have come to Tsukuba. In the morning at Edo-Tokyo Museum, they learned the geological history of Tokyo Low Land, namely, the formation of thick soft soils in the eastern part of the metropolis and also the damage due to the 1923 Kanto Earthquake.

In the afternoon at Honjo Life Safety Learning Center, they got experiences of "Evacuation from smoke and fire," "Heavy storm and rain," "Devastating Ground Shaking on Simulator" and "Firefighting with fire extinguishers,"




Enjoy, Now




Rainstorm Simulation

Together with Alumni: IISEE Home Page & IISEE-Net

IISEE International Institute of Seismology and Earthquake Engineering <http://iisee.konken.go.jp/>



IISEE INTERNATIONAL INSTITUTE OF SEISMOLOGY AND EARTHQUAKE ENGINEERING



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Recent updates

- IISEE Newsletter No. 114 is issued on Oct. 28, 2014.
- IISEE Welcomes 23 Participants from 12 Countries
- GRIPS Entrance Guidance and Orientation
- Visit to Edo-Tokyo Museum and Honjo Life Safety Learning Center
- New Free Book for Earthquake Engineers published by UNESCO
- New Participants
- IISEE Newsletter No. 113 is issued on Sep. 30, 2014.
- 20 Participants Completed the 54th One-year Training Course
- Courtey Call on the NALT Minister
- GRIPS Graduation Ceremony
- 2nd European Conference on Earthquake Engineering and Seismology
- Japan-Mongolia Seminar on Technologies for Earthquake-resistant and High-rise Buildings
- Address in Reply on Behalf of All the Participants
- IISEE Newsletter No. 112 is issued on Aug. 28, 2014.
- Closing Ceremony of 1st Latin American Earthquake Engineering Course
- Structural Experiments in El Salvador
- 10th U.S. National Conference on Earthquake Engineering (NCEE)
- 11th Meeting of Asia Oceania Geosciences Society (AOGS)
- Letter from 20-participants
- IISEE Newsletter No. 111 is issued on Jul. 29, 2014.
- 1st Latin American Earthquake Engineering Course in Japan
- Reports on Korea Study Trip
- Attendance to the Annual Convention of JG
- In Memoriam

Others

- IISEE Seminar
- International Symposium
- GREED International Platform for Reducing Earthquake Disasters

Ex-Participants

International Symposium

GREED International Platform for Reducing Earthquake Disasters

United Nations Educational, Scientific and Cultural Organization

IISEE Net and Training

- IISEE-UNESCO Lecture Notes
- IISEE E-learning
- Synopsis Database
- Bulletin Database

Earthquakes

The 2011 off the Pacific coast of Tohoku Earthquake on March 11, 2011

Earth Strong Motion Observation

Reports of Recent Earthquakes

IISu Catalog Cataloging earthquakes in the world

Earthquake Catalog 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

New guidelines to improve the safety of informal buildings

News Editor: PAC, Associate
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INFORMATION NETWORK OF EARTHQUAKE DISASTER PREVENTION TECHNOLOGIES

Welcome to IISEE-Net!

World Network of IISEE



The IISEE International Institute of Seismology and Earthquake Engineering has conducted a research project entitled "Information Network on Earthquake Disaster Prevention Technologies" in 2000-4-~2003.3. This project aimed at accumulating and diffusing valuable technical information in order to contribute to disaster prevention efforts in earthquake-vulnerable countries. This site is providing results of this three-year research project. The IISEE will keep improving this site by upgrading and expanding information database.

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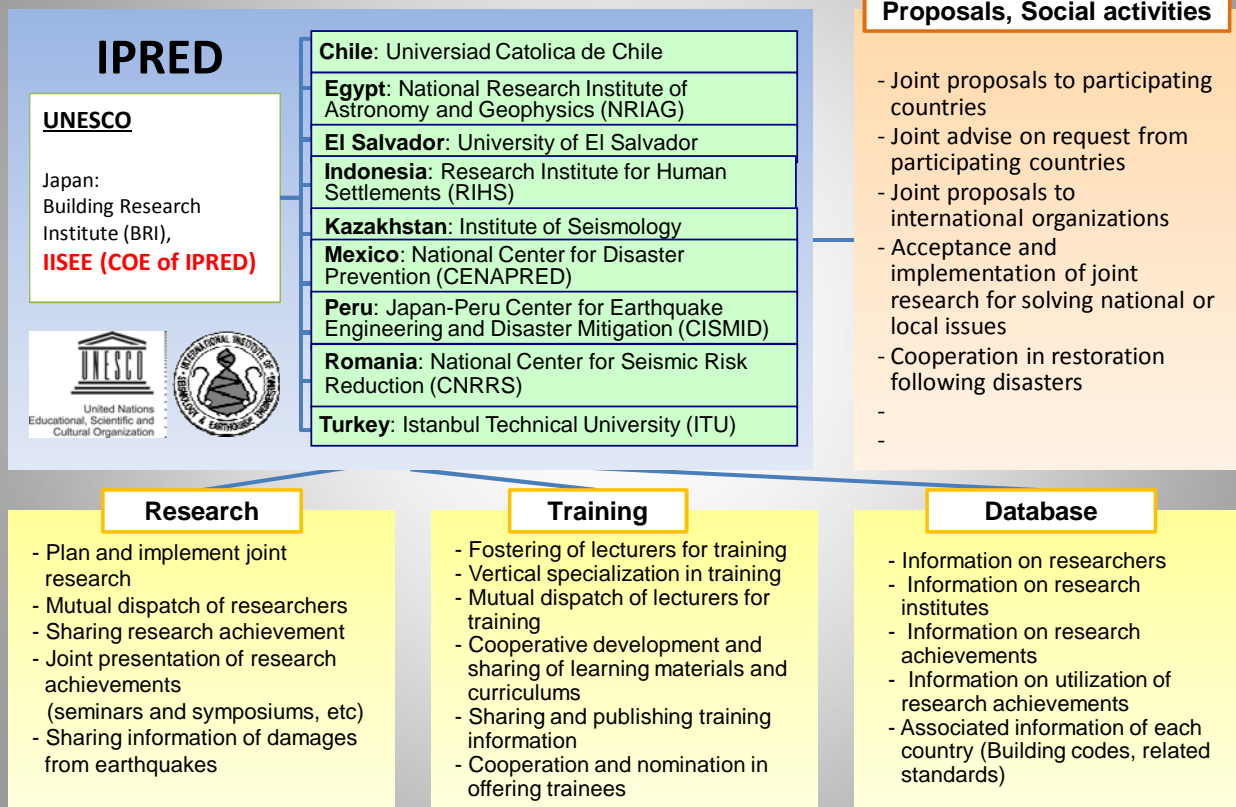
Together with Almuni

Earthquake Disaster Management Center Projects in the World (All are supported by IISEE & BRI through ODA with JICA)

Country	Organization/Project (abbreviation)	Counterpart	Period
Indonesia	Research Institute for Human Settlements (RIHS)	Ministry of Public Works (PU), Indonesia	[1982-2003] 1993-1998
Peru	Japan-Peru Center for Earthquake Engineering and Disaster Mitigation (CISMID)	National Engineering University (UNI), Peru	1986-1993 [1989-2004]
Chile	Earthquake Disaster Mitigation of Structures	Catholic University of Chile	1988-1991 1994-1998
Mexico	National Center for Disaster Prevention (CENAPRED)	National Autonomous University (UNAM)	1990-1997 [1997-2001]
Turkey	Project for Earthquake Disaster Mitigation Research Center in Turkey (ITU and Ankara)	Istanbul Technical University (ITU)	1993-2000
Egypt	National Research Institute of Astronomy and Geophysics (NRIAG)	NRIAG	[1992-1999] 1993-1996
Kazakhstan	Seismic Risk Evaluation Monitoring project in Almaty	Institute of Seismology	2000-2003
Romania	National Center for Seismic Risk Reduction (CNRRS) INCERC and Technical University of Civil Engineering	CNRRS - INCERC	2002-2008
El Salvador	Taishin project (Earthquake-resistant popular housing project)	Ministry of Housing and UD /El Salvador Univ.	2003-2008 2010-2012

Together with Alumni

International Platform for Reducing Earthquake Disasters (UNESCO-IPRED)



Better be Safe and Peace to People in the Cause of Earthquake Disaster Mitigation



IISEE takes the necessary actions.

