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The 4th Latin American Earthquake Engineering Course has started

By Dr. Toshiaki Yokoi, Mr. Mizuo Inukai and Mr. Yoshihiro Iitake

The opening ceremony of the 4th Latin American Earthquake Engineering



Dr. Midorikawa,
The president of BRI

Course was held at the BRI Hall from 11 to 12 am Thursday, May 11. This year besides structural engineers, executive officers in charge of construction engineering join IISEE training. There are 23 participants from 9 countries such as Chile (4), Colombia (1), Dominican Republic (3), Ecuador (4), El Salvador (3), Mexico (1), Nicaragua (3), Peru (1) and Venezuela (3).

Mr. Masayuki Takahashi, Director General of JICA Tsukuba and Dr. Mitsumasa Midorikawa, the President of BRI made their welcome speeches. Mr. Eduardo Oriando Hurtado Gajardo from Chile made a speech on behalf of all the participants.



Mr. Eduardo Oriando Hurtado
Gajardo from Chile

This course is executed in the aim of acquiring the technology of Earthquake resistant, the building of the network of personal connections and reducing damages from future earthquakes by enhancing and disseminating the earthquake-resistant technology in the participants' countries.

Then, all of the course will be conducted in the Spanish language through Japanese-Spanish interpreters, and the lecture notes in Spanish are handed out to the training participants.

Six weeks after studying in IISEE in Tsukuba, Structural Engineers will move to El Salvador. They will join structural experiments using the local construction method and structural material in Latin America.

We heartily wish all good luck to their training course.
¡Gran Exito!

Earthquakes

The 2011 off the Pacific coast of Tohoku Earthquake

Reports of Recent Earthquakes

Utsu 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 need.

Try to challenge!!



Reports on Kansai and Kumamoto Study Trip

By Mr. Chintan Timsina From Nepal, Seismology Course.

During five-day long study trip, we visited Kansai and Kumamoto area of western Japan which were heavily affected by the 1995 Kobe earthquake and 2016 Kumamoto earthquake respectively.



In Disaster Reduction and Human Renovation Institution, Kobe, we got a chance to learn the effect of huge disaster in urban area and experience of reconstruction and rehabilitations of present city from the ruin. In Nojima Fault Preservation Museum, we observed the surface rupture of fault which caused the Kobe earthquake and also experienced the simulated shaking. In addition to this, observation of world's largest 3D shaking table facility and world's

longest suspension bridge help us to understand more about the advanced technology and methodology for earthquake resistant construction.

In Kumamoto area, we visited Minami-Aso village and Mashiki town which were severely damaged by the 2016, Kumamoto earthquake sequence. Mashiki town, which is located on the eastern side of Kumamoto city was severely devastated due to dual strong shaking from both

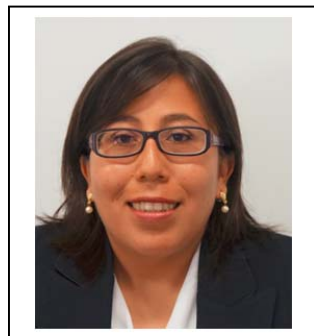


Akashi Kaikyo Bridge

the largest foreshock and mainshock along with extensive surface deformation near the fault zone.

After this trip, I realize that every natural disaster possesses some unique features to learn. All the lessons from the past disaster are useful for finding ways to alleviate the vicious character of nature. Therefore, establishment of facilities like memorial park, museum and learning center is important for conveying experience and knowledge gained from the disaster to the future generation.

By Ms. Nabilt Moggiano From Peru, Tsunami Disaster Mitigation Course



It was unforgettable experience and impression during 5 days of Study Trip to Kansai District. We gained knowledge in tsunami countermeasures and education, personally, I learned about the evacuation planning and efforts made by the local government focused to construct tsunami evacuation towers (where people can evacuate only in 5 minutes), disaster prevention parks and the preparation of sea gardens with coastal breakwaters including safety against tsunami level two at Yoshida Town, Shizuoka Prefecture.

The importance of passing memories of tsunamis into future generations is reproduced in the story of Hamaguchi Goryo, who set fire to his rice sheaves to show villagers the evacuation way when the tsunami caused by the Ansei Nankai Earthquake struck Hiromura (present Hirogawa Town, Wakayama Prefecture) on November 5, 1854. Nowadays, for rising this admirable action we celebrate every November 5th the "World Tsunami Awareness Day" as an example of good practice. Learning from past disasters allows us to think that we cannot prevent natural disasters but we can reduce it, in this sense, I am feel fascinated how the implementation of institutions related to Tsunami/Storm Disaster Prevention and Educational Centers play a critical role in teaching people using didactic materials about the importance of disaster preparedness. A clear example is Osaka (city below the sea level) which has been affected by tsunami and tidal surges before and now struggling with the probability of major earthquake and tsunami in Nankai Trough can occur in the near future. On the other hand, I will never forget my experience in Kumamoto Prefecture after one year of the earthquake Mj 7.3 (April 16, 2016) we could see the fault zones and damage areas that nowadays is starting to recover.



Kumamoto Castle

Like Japan, Peru is located in the circum-Pacific seismic zone and prone country to earthquakes and tsunamis. Definitely, this experience will encourage to improve and strength tsunami countermeasures and disaster management



Enjoy, Now

Contact Us

The IISEE Newsletter is intended to act as a go-between for IISEE and ex-participants.

We encourage you to contribute a report and an article to this newsletter. Please let us know your current activities in your countries.

We also welcome your co-workers and friends to register our mailing list.

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

program in Peru, following Japanese example we said that education is the key and the best tool in our National Tsunami Warning System. To finalize, I would like to express my deepest gratitude to JICA and IISEE staff for providing me the opportunity to attend this study trip.

By Mr. Ali Erhan YILMAZ From Turkey, Earthquake Engineering Course

Our study trip was planned to observe damages and effects of earthquakes that already occurred in Japan. The Kansai region, where the earthquake occurred 22 years ago and Kumamoto city where the earthquake occurred one year ago are the main elements of the study trip.



We had a chance to visit many places during the study trip such as To-ji temple, Disaster Reduction and Human Renovation Institution, E-defense, Akashi Kaikyo Bridge and Kumamoto city. It is very clear that every place we visited was carefully selected. Five-story pagoda which is the tallest pagoda in Japan showed us that counterweight used to absorb vibrations in wooden structures forms basis of the mass damper that used in a skyscraper. The Disaster

Reduction and Human Renovation Institution has taught us how tremendous damage could be done to us by the earthquake. It was sorrowful to listen to the anguish of the people who lived in earthquakes and tsunami, but we realized that the possibility of natural disaster should not be forgotten.

I think most impressive part of the study trip was to see the largest shaking table and the longest suspension bridge in the world. The shaking table provides a realistic test to design earthquake-resistant structures. It has been fabulous to walk in one of the tallest main towers in the world. We learned from the Akashi Kaikyo Bridge that there is nothing



Toji, Kyoto

impossible in the world and that we need to work harder to reach our target.



Nojima fault Preservation Museum

Kumamoto was good opportunity to see buildings damages, active faults and its effect on the lands and buildings because we are usually learning everything in theoretically; however, we need to see the facts as well. Finally, I am very thankful to everyone for their support and sharing their valuable knowledge with us. I hope the study trip would be a great step to do many things to our countries.

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

Snapshots of Kansai and Kumamoto Study Trip.



Architectural Preservation site in Toji, Kyoto



Hyogo Earthquake Engineering Research center



Collapsed bridges in Aso area



Lecture at Sojo University in Kumamoto



Liquefaction inspection in Mashiki in Kumamoto



Fault inspection in Mashiki in Kumamoto



Damaged building in Kumamoto



Damaged building in Kumamoto