

IISEE Newsletter



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Interim Presentation held on July 9

By Dr. Tatsuya Azuhata, Director of IISEE

On July 9, we held an interim presentation as a part of individual training. In this session, all participants presented the interim results of their study. We value these opportunities, which allow them to practice and brush up on their presentation skills.

S and T courses had a joint session, and E-course had their session separately. To prevent CIVID-19 infection, we continued to take the countermeasures from the last year, including using larger rooms for the venues.

We expect all participants to continue their research vigorously and do their best to maintain their health. A healthy body is essential in achieving goals, and we don't want their efforts to result in vain.







Mr. TATAPU Carlos from the Solomon Islands, Tsunami Disaster Mitigation Course



Mr. DA SILVA ALMEIDA Geovanio Pedro from Timor-Leste, Seismology Course



Report on Niigata Study Trip (July 1-2) By Mr. DEY Bidhan Chandra (Bangladesh, E-Course)

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 needed.

Try to challenge!!



The International Institute for Seismology and Earthquake Engineering (IISEE) – Building Research Institute (BRI) conducted a two-day study trip in Nigata prefecture. Students of two different courses, namely Seismology and Earthquake Engineering, participated in this event. The tour was composed of visits to several historical places related to earthquakes and other induced disasters, e.g., Nagaoka Earthquake Disaster Archive Center (Kioku Miral), Kogomo Memorial Park, Yamakoshi Restoration Exchange Centre (Orataru), and City Hall Plaza (Aore Nagaoka).

Through an aerial photomap of Nagaoka we observed the state of the affected area from the Chu-Etsu earthquake. We saw 3D documentaries that enlighten us on the restoration process conducted in the submerged area caused by dammed river from the earthquake-induced landslide. We visited one of the well-preserved submerged houses, the City hall with an aesthetic façade and roofed open plaza (Nakadoma), a unique architectural and structural creation, and many exciting places like Alpaca Farm.

Participating in this study trip, I felt that Japanese peoples never lose their hope for survival. I realized the hard effort and unity among them maintained during the restoration process from different recurring fatal natural disasters which causes the death of countless valuable life and damage to infrastructures. I learned that these natural disasters were causing not only damage to people and property; they also taught the villagers costly lessons to improve and upgrade their technologies regarding housing, land usage, etc.

This visit was very fruitful for me. I am delighted to participate in this study trip and grateful to the organizer for arranging such a successful event despite the global pandemic situation caused by Covid-19. I hope for the continuation of these study trips for the succeeding participants as well.



Kogomo Memorial Park in the Yamkoshi district



Revitalisation Center)

By Ms. Nepal Nityam (Bhutan, S-Course)



The two days' study trip to Nagaoka city was very informative and enjoyable. The trip mainly focused on observing the Chuetsu earthquake of 2004 that caused tremendous damage to the Yamakoshi village of Nagaoka city. The study tour began at Nagaoka Earthquake Archive Center - Kioku Mirai. The museum holds documentaries and numerous picture archives showing the damages caused by the earthquake in Yamakoshi district and the rescue missions carried out after that. The museum also

included simple evacuation structure models made of cardboard, designed post-earthquake in recognition of the lack thereof. A most recent evacuation structure model designed under the guidelines of COVID-19 is also available, which is a timely and commendable undertaking of the museum.

On the second day of the trip, we visited Orataru (Yamakoshi Revitalisation Center) and Kogomo Memorial Park in the Yamkoshi district. The area is mountainous terrain and was the site of numerous landslides triggered during the earthquake, almost completely isolated the village. The revitalization center also holds numerous photo archives of the disaster. The archives at the center also captures the management and the means of the relief and rescue missions carried out. Coming from a mountainous country that is vulnerable to both earthquakes and landslides, the visit to the museum held a lot of sentimental values for me. After an educative session, we made a final stop at the Yubu Alpaca farm, which was a refreshing end to trip.





Enjoy Now

Report on the 30th International Tsunami Symposium (July 1-3) By Mr. Geronimo Pulido I. (Chili, T-Course)



The 30th International Tsunami symposium was in Sendai, the capital city of Miyagi Prefecture, the largest city in the Tōhoku region.

The overall reason to attend this symposium was to see from first hand the current research and development in the field of tsunami forecasting, early warning, instrumentation, interaction with structures, experimental methods, field surveys, education, and more. The primary objective of the symposium was to

"establish and maintain high standards of professional conduct for members related to the field of various energetic topics." Also, the theme of this year's symposium was the 10-year commemoration of the 2011 Tohoku earthquake and tsunami and how the lessons and experience obtained from this event will be passed to future generations. This was the opening topic of the first day of the symposium with the opening presentation from Prof. Fumihiko Imamura, the presentation of lessons from the unforecast event for future hazards by Prof. Kenji Satake, and the presentation of the lessons from the megathrust event and the emerging challenges by Prof. Shunichi Koshimura. The second day was open by the hazard and risk assessment presentations and new experimental methods. Here in the latter, Dr. Rafael Aranguiz from the department of Civil engineering of the UCSC in Chile shows a new system for tsunami experiments using a pump-driven flow method. The third day started with the analytical and numerical methods presentations, where several presentations talk about wave propagation models and tsunami runup estimations. In the

afternoon, the second round of hazard and risk assessment presentations were conducted where the research of Constance Chua from the Technological University of Singapore, "Flow characteristics influencing damage to port industries," show the use of tsunami fragility functions as a method to characterize damage on different kinds of industries and how the inundation depth is one of the most reliable hazard



(1st from the left) Dr. Erick Mas (1st from the right) Prof. Fumihiko Imamura

measures for the constructions of these functions.

Contact Us

The IISEE Newsletter is intended to act as a gobetween 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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Visit to National Research Institute for Earth Science and Disaster Resilience (July 14) By Dr. Bunichiro Shibazaki, Chief Research Scientist, IISEE

Back Numbers

http://iisee.kenken.go.jp/ nldb/ 12 participants visited National Research Institute for Earth Science and Disaster Resilience (NIED) on July 14th morning. 3 participants participated in the online lectures from their respective countries. First, they watched an introductory video of the institute, then observed the Large-scale Earthquake Simulator. In the online lecture, the lecturer introduced the Network Center for Earthquake, Tsunami and Volcano and Monitoring of Waves on Land and Seafloor called MOWLAS which is a high-density seismic network. Another lecturer from the Earthquake Disaster Mitigation Research Division gave the research progress related to a performance of structures subjected to earthquake impacts at Three-Dimensional Full-Scale Earthquake Testing Facility (E-Defense) in Miki, Hyogo. The participants' high interests made active discussions.



National Research Institute for Earth Science and Disaster