

## Symposium with Philippine Public Safety College (2018/11/15)

Topics: Disaster Risk Management  
Venue: IRIDeS (Sendai, Japan)

On Nov. 15, 2018, Prof. Shinichi Egawa in Disaster Medical Science Division and Associate Prof. Takako Izumi in Regional and Urban Reconstruction Research Division made lectures for the visitors from Philippine Public Safety College. The Philippine Public Safety College is a specialized government educational institution and providing the Master in Crisis and Disaster Risk Management (MCDRM) program. The visitors are mid-level managers to executives from various government agencies such as the Local Government Units, Disaster Risk Reduction and Management Officers, Bureau of Fire Protection, Philippine National Police, Department of the Interior and Local Government, Office of Cabinet Secretary, Office of Civil Defense, Philippine Atmospheric, Geophysical and Atmospheric Services Administration (PAGASA), Bank of Philippine Islands. They came to Japan to visit the disaster affected areas and seeking the collaborative work and academic exchange with Tohoku University and other Japanese universities.

Prof. Egawa talked on the application of simulation technologies in disaster risk management. Associate Prof. Izumi talked on the global platform and local context of disaster risk management.

The visitors composed of experts in governmental administration, weather and health showed various interest in the medical needs in disaster. IRIDeS fact finding mission to Philippines after 2013 Typhoon Haiyan disaster enhanced understanding of difference in medical system, medical needs and disaster medicine in both countries. It is not possible to protect the physical and mental health of the affected people without cluster approach. We discussed on the collaboration of clusters and the improvement of resilience. Prof. Egawa demonstrated two types of simulations. The total outcome of medical needs in Minamisanriku Town that lost all medical facilities by tsunami was reproduced using system dynamics model. Another example was the agent-based simulation of outbreak of Ebola virus disease in a community. Prof. Egawa showed the effect of social memory and people's awareness on the outcome (number of death). Simulation software can reproduce the sustainability of memory on disaster in a community. Even the model is representing the infectious disease, it is applicable to many other social models to investigate the social resilience.

Associate Prof. Izumi lectured on the international commitment of disaster risk reduction, disaster risk management in local context, the role of academia and stakeholders. The Sendai Framework prioritizes the action to understand the risk scientifically, to manage the risk and to prepare for efficient response with the concept of Building Back Better. Seven global targets include the significant reduction of damage on critical infrastructure, especially education and health infrastructures by 2030. We shared the importance of global framework and harmonized proposal of local decision making. The Philippine Public Safety College appreciated the lectures and wished the continuous collaboration with IRIDeS in the future.

Report by Shinichi Egawa (Disaster Medical Science Division) and  
Takako Izumi (Regional and Urban Reconstruction Research Division)  
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Prof. Shinichi Egawa



Associate Prof. Takako Izumi



Visitors from Philippine Public Safety College



Group photo