## AEARU/APRU Multi-Hazards Summer School 2019

## 参加報告書 (Participation Report)

## 2019年8月9日

所属/ Affiliation : Public Health Dep. Graduate School of Medicine

氏名/ Name : Yan Fangyu

式有 Name . fan Fangyu		
出 張 期 間 (Period of trip)	7.19~7.26	
開催期間 (Period of Program)	7.22~7.25	
開催場所 (Place)	International Research Institute of Disaster Science, Tohoku University	
開催規模 (Scale)	参加国数(Number of participating countries) 12	
	参加者数(Number of participants) 61	
プログラムの	The International Research Institute of Disaster Science in Tohoku University was	
背景・目的	established in April 2012 as a new integrated interdisciplinary research team aiming	
(Background and	at conducting world leading research on natural disaster science and disaster	
the objective of	mitigation leaning from and building upon past lessons in disaster management from	
the meeting)	Japan and around the world.	
	The APRU-IRIDes Multi- Hazards (MH) Program was established in April 2013. The	
	Program aims to harness the collective capabilities of Association of Pacific Rim	
	Universities for cutting-edge research on Disaster Risk Reduction(DRR) as well as	
	contribute to international policy making processes on DRR. This Summer School is	
	one of the key activities under the MH program.	
プログラム	This program contains 3 days of seminar given by the professors whose research	
内 容	is related to the Disaster Risk Reduction and 1-day field trip to the place which went	
(Program	through the tsunami in 2011.	
Contents)	The first day of the lectures introduces the current research work at IRIDeS and the	
	Sendai framework for disaster risk reduction. In preparation for the field trip, the	
	second day featured sessions with myriad stakeholders such as local governments,	
	academics and non-governmental organizations directly involved in the region's	
	recovery efforts.	
	The field trip included a visit to the Arahama Elementary School which saves nearly	
	320 lives during the Tsunami in 2011 and a walk around Onagawa Town. we also	
	learnt about the Tohoku Ecosystem-Associated Marine Science (TEAMS) project, a	
	decade-long effort to monitor and restore marine life during/after the disaster and to	
	build a resilient marine farming environment in the area through scientific research.	
	On the final day, we were put into groups and did a DRR project proposal that	
	includes perspectives from both the natural and social sciences.	

I joined the program for learning how an epidemiologist need to react when a 感 (Feedback on the disaster come. But surprisingly, the Disaster Risk Reduction program is far from Program) reacting during or after disaster. It also contains how to build the city to prepare for 300-400words the reaction. And actually, build a resilient society for the disaster is the most important thing we need to do for react more instantly.

画像等も添付

所

Attach the images

This program brings together the professors from many aspects including architecture, engineering, medicine, biological engineering, management and social science. This is really exciting for me because I rarely have this kinds of chance to get access to people from this many areas.



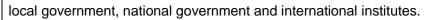
On the first day, I listened many presentations introducing the overview of the IRIDeS institution and the Sendai Framework. From the first-day presentations I know for the disasters, we need to work together not only regionally nationally, but also globally. There are a lot of researches conducted in the aspects of disasters. We need to put them in use according to the situations. This calls for the policy and science working together for decision making. And also, on the first day, I listened a presentation brought by a professor comes from Medicine background. I am majoring in Public Health, which is also really important when disaster coming. For a disaster, the risk equals to hazard multiplied by vulnerability then divide by the capacity. So what we need to do is to mitigate the vulnerability and enhance the capacity. The professor introduces a simulation system to simulate how the media need to react when a serious infectious diseases come. This was really interesting and I saw a new way to do the research for the reaction which works with the computer engineers. After the first day seminar, we joined the reception. And in the reception, students from Tohoku University performed a traditional dance in Sendai.



In the field trip, we went to the Arahama Elementary School. When the tsunami came to Arahama area, this school saved all of the students there. We went there and saw many pictures after the tsunami. And the local government rebuilt that place as a buffer zone and evacuated the people lived there. However, it is interesting that actually not all the people would like to sell their land. So in the buffer zone, which is already covered by the green grass, the person who owned the land still raises chickens there.



On the final day, we had a group work making a proposal to deal with the disasters. The aim in our group is to build the resilient society in Malaysia. We used the knowledge the we learnt during the seminars made the proposal which worked by the





Thanks for Osaka University that I finally have this chance to join in this great program.

AEARU/APRU Multi-Hazards Summer School 2019		
参加報告書 (Participation Report)		
	2019年8月9日	
	所属/ Affiliation :Human Science	
	氏名/ Name   :WANG Yixuan	
出 張 期 間 (Period of trip)	2019.7.21-2019.7.26	
開催期間 (Period of Program)	2019.7.22-2019.7.25	
開催場所 (Place)	東北大学災害科学国際研究科	
開催規模	参加国数(Number of participating countries ) 12	
(Scale)	参加者数(Number of participants) 61	
プログラムの	Tohoku University's International Research Institute of Disaster Science	
背景·目的	(IRIDeS) once again hosted the APRU Multi-Hazards Summer School, from	
(Background and the	July 22 - 25, attracting some 60 participants from countries across the Pacific	
objective of the	Rim.	
meeting)		
プログラム	The annual event draws lessons from the 2011 Great East Japan Earthquake	
内 容	and Tsunami, and provides a platform for participants to discuss various disaster	
(Program Contents)	risk reduction (DRR) ideas and projects that have since been implemented.	
所 感	The first day of lectures touched on broad subjects such as the current research	
(Feedback on the	work at IRIDeS, and updates on the Sendai framework for disaster risk reduction.	
Program)	In preparation for the field trip, the second day featured sessions with myriad	
300-400words	stakeholders such as local governments, academics and non-governmental	
	organizations directly involved in the region's recovery efforts.	
画像等も添付 Attach the images		
	The field trip included a visit to the ruins of Arahama Elementary School and a	
	walk around Onagawa Town. Participants also learnt about the Tohoku	
	Ecosystem-Associated Marine Science (TEAMS) project, a decade-long effort to	
	Luosystem-Associated Manne Science (TLAMS) project, a decade-iong ellott to	

monitor and restore marine life in the area through scientific research.
On the final day, we participants were put into groups and tasked with developing
a DRR project proposal that includes perspectives from both the natural and
social sciences. This was an opportunity to bring together opinions and expertise
from different countries, cultures and academic disciplines.

ramework for an Early Warning System in the Cordillera Region in the Philippines  $\supset$ typhoon ) ( landslide and A Asses 2. Insu 3. Early Warning Systems () 4 Dealine 3 day to ( p the risks to ·Using satellites we gen wrather insormation; we can parent rainpall and hardit; minimise the use of sensors and reduce certs. - p Etablish a central of data Prefersion vies. mable for claims vale of me ort - Lipestimiture 1ance Forma of timberd) Involved: National government, cted Level at local growt, sudawa NGO 3, Indiatry south want local acverament 10: ce 6. Developments of Concession phine Based on the hastorids, the chancenistics of population inchesing minimits . communicates startigies "Find the Bage same and develope evolution nucles 5. Development of a #D Communication Strategy 7. Education of local commetting of \* O tur Group Members - Conduct seriers, capacity. building trainings - holls ( with loc-l comminy and Build use local language +Yixuan Wang ∆ •Yang Haggi \* •Yui Numazawa •Joanna Ladaran \* - "batingaw" (bells, Sirens) landlines na Andy population and for-1 Notio al and so the feel alter ngrige, and to a and colors) whend i have con up hadons, have (organis), hores, hered or have (organis), hores, hered or \* Ruben Vargas Involved: local media, local DRRMcouncil, local to mnumity leaders, aca demica, notional govt Coppartment gescone + Techolog nia DR leaders, community members so hand down watered within te sectors. This is our group's DRR proposal for an ethnic minority region in Philippines. It is a great opportunity for me to get access to learn things about disaster reduction from different categories, therefore I can reconsider my research from different aspects. I also made many friends from different countries, and it is absolutely useful for me to have discussion with them. I hope I will have the opportunity to participate in such kind of activities in the future.