

## **Joint seminar conducted at Cheng Shiu University and an official visit to the National Science and Technology Museum (NSTM), Kaohsiung City, Taiwan (2025/6/18-21)**

Topic : Tsunami Engineering, Disaster Education, Disaster Lagacy

Venue : Cheng Shiu University, Kaohsiung City, Taiwan; Exhibition of the 2009 Typhoon Morakotflood disaster, National Science and Technology Museum (NSTM), Taiwan

In Taiwan, so as in Japan, the country has experienced natural disasters such as the 1999 Chi-Chi Earthquake and the 2009 Typhoon Morakot flood disaster. As a result, significant efforts have been made in disaster preparedness, education, and public awareness.

From June 18 to 21, Professor Fumihiko Imamura (Tsunami Engineering Lab), Associate Professor Shosuke Sato (Disaster Resilient Society Promotion Lab), Project Instructor Mari Yasuda (Earthquake Induced Tsunami Risk Evaluation Lab (Tokio Marine and Nichido Fire Insurance)), Researcher An-Chi Cheng (Tsunami Engineering Lab), Master's student Misaki Hoshi (Graduate School of Engineering), and Chieko Ito (Staff Member) visited Cheng Shiu University<sup>1)</sup> (a private university in Kaohsiung, Taiwan, established in 1965) and the National Science and Technology Museum (which features exhibits on the response and recovery from the Typhoon Morakot disaster). The team held a joint seminar and engaged in discussions on disaster prevention research and education.

On Thursday, June 19, the delegation paid a courtesy visit to Cheng Shiu University, where they were introduced to initiatives in international cooperation, global education, and restoration technologies. A meeting was held to discuss potential future collaboration. The group then moved to the Department of Civil Engineering, where a joint seminar was held with approximately 50 Taiwanese students and about 10 international students. The main program is outlined in item 2).

In the evening, they held discussions with the university's executive leadership, including President KUNG, Jui-Chang, on potential cooperation in disaster preparedness and student exchange initiatives.

On the morning of Friday, June 20, the team visited the Disaster Museum of the 2009 Typhoon Morakot Flood disaster<sup>3)</sup>, a permanent exhibit at the National Science and Technology Museum (NSTM) in Kaohsiung City. Following the devastating 1999 Chi-Chi Earthquake, the 2009 Typhoon Morakot disaster (commonly referred to as the "88 Flood") caused the next most significant damage. Typhoon Morakot struck on August 7, 2009, and brought heavy rainfall to central, southern, and eastern Taiwan from August 8 to 9, resulting in extensive damage.

In 2014, five years after the disaster, the "88 Flood Response and Recovery" exhibit was established within the NSTM. The content of the exhibit has since been expanded and enriched.

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During this visit, Dr. CHERN, Jen-Chuen, who served as the chair of the recovery committee for the disaster and supervised the exhibition, personally guided the group through the exhibition. He provided detailed explanations about the disaster mechanisms, damage, the difficulties faced during emergency response, and the path toward recovery.

Following the guide tour, a meeting was held with Deputy Director Dr. WU, Pei-Hsui, where discussions took place regarding future cooperation in disaster education, awareness activities, exhibitions, and international exchange. The three institutions reached a shared understanding regarding the direction of their future collaboration.

During this exchange and visit, we received tremendous support from Vice President Dr. CHENG, Shuenn-Ren and Vice Dean of International Affairs Dr. KO, Wu-Te of Cheng Shiu University. We would like to express our sincere gratitude once again.

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 An-Chi Cheng (Tsunami Engineering Lab)



Visiting Cheng Shiu University at Kaohsiung City, Taiwan



Group photo after the joint seminar at Cheng Shiu University



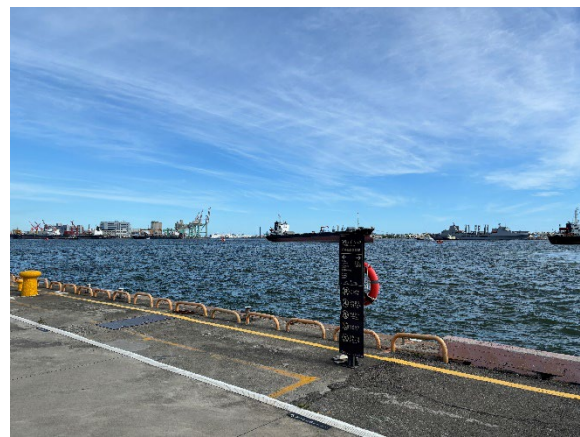
Workshop held in Cheng-Shiu University



Visiting Disaster Museum of the 2009 Typhoon Morakot flood disaster



Idea exchange after visiting the Disaster  
 Museum



Visiting Kaohsiung harbor, one of the most  
 important global shipping hubs

#### 1) Cheng-Shiu University

The university was originally established in 1965 as "Cheng Shiu Short-term College of Industrial Technology." It was later reorganized with the approval of the Ministry of Education and renamed "Cheng Shiu Institute of Technology and Commerce" in 1980. In 1999, it was promoted to "Cheng Shiu Institute of Technology," and in 2003, it was further elevated to its current status as "Cheng Shiu University." Since then, the university has continuously expanded its undergraduate programs to cover a wide range of key fields in business, technology, and the liberal arts. These include civil engineering and geodesy, electronic engineering, mechanical engineering, electrical engineering, industrial engineering and management, architecture and interior design, computer science and information engineering, biomedical engineering, international business, business administration, financial management, information management, creative industry management, early childhood education, cosmetics and fashion styling, applied foreign languages, leisure and sports management, food and beverage management, tourism and recreation, modern life and creative design, and digital multimedia design.

<https://www.csu.edu.tw/p/412-1000-101.php?Lang=en>

#### 2) Tohoku University & Cheng Shiu University Joint Seminar on Civil Engineering

##### **Joint seminar (Morning) : Presenter**

Prof. Fumihiko IMAMURA; Role of Disaster Science after the 2011 Tohoku earthquake and tsunami and transfer the lessons for future disaster mitigation

Dr. Shosuke SATO; Disaster Tradition / Memorial in Japan: Actual Situation and Scientific Research

Dr. An-Chi CHENG; Towards Advanced Tsunami Early Warning in Taiwan

##### **Workshop (Afternoon): Report and Moderation**

Fumihiko IMAMURA : Lectures; Disaster Prevention Measures of Japan

Misaki HOSHI; Lectures; Introduction of Tsunami Evacuation Behavior in 2024 Noto Peninsula Earthquake

Mari YASUDA ; Lectures; Knowledge and Practice of Disaster Prevention and Mitigation(Gensai YUI project)

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### 3) Cultural Revival and Museum Exhibitions in Xiaolin Village Following the 88 Flood Disaster

Following the 1999 Chi-Chi Earthquake, the most devastating disaster to strike Taiwan was the 2009 "88 Flood." On August 7, 2009, Typhoon Morakot hit Taiwan, bringing torrential rains to the central, southern, and eastern regions from August 8 to 9. As a result, six counties—Nantou, Chiayi, Tainan, Kaohsiung, Pingtung, and Taitung—suffered extensive damage from landslides and other disasters.

Approximately 90 Indigenous villages were severely affected by the 88 Flood. Disaster relief and compensation efforts were primarily led by the Council of Indigenous Peoples. However, tensions emerged, including protests by Indigenous communities and clashes with government authorities.

Demands for "dignified reconstruction" arose, including strong opposition to relocation policies and the selection of resettlement sites. In some cases, disaster-stricken communities filed administrative lawsuits against the government seeking state compensation. (呂怡屏, 2017)

[http://www.initiative.soken.ac.jp/journal\\_bunka/13\\_09\\_lu/lu.pdf](http://www.initiative.soken.ac.jp/journal_bunka/13_09_lu/lu.pdf)  
<http://www.nstm.gov.tw/english/>  
[https://en.wikipedia.org/wiki/Typhoon\\_Morakot#Typhoon](https://en.wikipedia.org/wiki/Typhoon_Morakot#Typhoon)  
<https://www.jss.or.jp/about/kako/typhoon.html>

### 4) Visiting counterparts:

Dr. KUNG, Jui-Chang, President, Chen Shiu University  
Dr. CHERN, Jen-Chuan, Board Member, The Tang Prize foundation, Prof. Emeritus National Taiwan University, Former President Chinese Institute of Engineering  
Board Member <https://www.tang-prize.org/en/publishing.php>  
Dr. WU, Pei-Hsui, Deputy director general, National Science and Technology Museum.88  
Dr. CHENG, Shuenn-Ren, Vice President international affairs, Chen Shiu University  
Dr. GONG, Ruey-Wei, Vice President academic affairs, Chen Shiu University  
Dr. Hsieh, Kun-Hung, Dean of Admissions, Chen Shiu University  
Dr. KO, Wu-Te, Vice Dean, Chen Shiu University  
Dr. LI, I-Cheng, Director of CSU Visual communication design, Chen Shiu University  
Dr. WANG, Hsin-Yi, Chairman of Civil Engineering, Chen Shiu University  
Mr. YUAN, Shi-Xun, Coordinator KANSAI Univ., Chen Shiu University  
Dr. KUO, Shih-Wen, Assistant researcher, National Science and Technology Museum.88