

the APRU-IRIDeS Multi-Hazards Program

Takako Izumi International Research Institute of Disaster Science (IRIDeS), Tohoku University





• Founded in 1997 by four university presidents (Berkeley, Caltech, USC, UCLA)

Objectives

- To be 'big science' advisory body of presidents to APEC and promote scientific, educational and cultural collaboration among Pacific Rim economies.
- APRU aims to promote scientific, educational and cultural collaboration among Pacific Rim economies.



Australia

Australian National University University of Melbourne University of Sydney University of South Wales

Canada University of British Columbia

Chile University of Chile

China

Fudan University Hong Kong University of Science and Technology Nanjing University Peking University Tsinghua University University of Hong Kong University of Science and Technology of China Zhejiang University

Chinese Taipei National Taiwan University Indonesia University of Indonesia

Japan Keio University Kyoto University Osaka University Tohoku University University of Tokyo Waseda University

Korea

Korea University Seoul National University Yonsei University

Malaysia University of Malaya

Mexico

Monterrey Institute of Technology and Higher Education National Autonomous University of Mexico

New Zealand University of Auckland **Philippines** University of the Philippines

Russia Far Eastern Federal University

Singapore National University of Singapore

Thailand Chulalongkorn University

USA

California Institute of Technology Stanford University University of California, Berkeley University of California, Davis University of California, Irvine University of California, Los Angeles University of California, San Diego University of California, Santa Barbara University of Oregon University of Oregon University of Southern California University of Washington



APRU's Strategic Framework 2012-2015

Shaping Asia-Pacific Higher Education and Research

APRU universities can together shape the policy environment for higher education and research and influence social, economic, political and cultural forces that impact the future of universities.

Creating Asia-Pacific Global Leaders

APRU universities will cooperate to enhance the global leadership capabilities of faculty, administrators and students – as well as of their institutions.

Partnering on Solutions to Asia-Pacific Challenges

APRU universities will work together and with partners from government and business, international organizations, other universities and community leaders on solutions to regional and global challenges.



APRU (Association of Pacific Rim Universities) Multi-Hazard Program Partnering on Solutions to Asia-Pacific Challenges

- Sustainability & climate change (UC San Diego)
- Multi-hazards (Tohoku U)
- Global Health (USC)
- Food security
- Ageing in Asia
- Brain and Mind in the Asia-Pacific
- Research museums and innovation (Kyoto U)
- Global governance & public policy
- Biodiversity and resilience (University of Philippines TBC)



 The International Research Institute of Disaster Science (IRIDeS) of Tohoku University provides secretariat services as the regional program hub.

Purposes of the Program:

- Harness the collective capabilities of APRU universities for cuttingedge research on disaster risk reduction (DRR) and recovery,
- Share strategies to cope with campus disaster risk management
- Contribute to DRR related discussions at regional and international levels.





3-year activities under APRU Multi-Hazards Program



1) Core Group

- 10 members from China, Chinese-Taipei, Japan, Thai, USA, and Chile
- Develop 3-year workplan and provide assistance in planning and implementation of activities

2) Summer School

- IRIDeS organized the first summer school in July 2013 to learn from lessons-learnt from the Great East Japan Earthquake and Tsunami
- Emphasize importance of disaster preparedness on campus

3) Collaborative research paper

- Address the importance and need of campus safety
- Being used to develop policy statement to be shared at high level events



3-year activities under APRU Multi-Hazards Program



4) Collaborative data sharing

 Scientific data collected by APRU member universities to be shared widely through APRU network

5) Contribute to discussions at regional and international levels

 Share the research result and program outcome at international and regional events such as UN World Conference on Disaster Reduction to address need and voices from academic society



2013 Summer school program

"Lessons-learnt from the Great East Japan Earthquake and Tsunami, and Future Disaster Risk Reduction"

Dates:

23-24 July 2013: 2-day seminar
25 July 2013: Field trip to the affected sites
Participants: 31 participants from 9 countries
Main objectives:

- Share lessons and experiences on effective disaster preparedness from the Great East Japan Earthquake and Tsunami;
- Discuss the roles of universities/research institutes in DRR and their challenges;

Feedback:

 95% of the participants answered they were satisfied or very satisfied with the course contents.







2014 MH Summer School Program

"Prepare for high-impact disasters: towards the UN World Conference on Disaster Risk Reduction"

Dates:

- 22, 23, 25 July 2014: 3-day seminar
 24 July 2014: Field trip to Kesennuma city
 Participants: 47 participants from 7 countries
 Main objectives:
- Share lessons and experiences from the Great East Japan Earthquake and Tsunami;
- Discuss 1) the roles of universities/research institutes in disaster risk reduction (campus safety) and 2) the regional focus in disaster risk reduction (climate change, local action, resilience, early warning etc)









Campus safety



Survey on current status of disaster preparedness on campus among the APRU institutes

Purposes of the survey:

- Develop a minimum standard and checklist for disaster preparedness on campus.
- Promote the need of campus safety and share the best practices at international and regional levels.

Suggestions from the summer school:

- Universities should ensure all staff and student are aware of the university's disaster management mechanism and procedures.
- Conduct a regular drill and simulation exercise as well as a disaster preparedness guidance.
- Conduct a vulnerability and risk assessment and share the results
- Post-event data collection to use them as data and materials for future research







APEC Policy Partnership on Science, Technology and Innovation (PPSTI) through APEC Cooperation for Earthquake Simulations (ACES)

- Develop science, research and technology cooperation;
- Build human capacity;
- Develop innovation policy frameworks
- ACES is a researcher's network for earthquake simulation in the Asia and Pacific and aims for information dissemination and sharing the research outcomes

International and regional events such as the 2015 UN World Conference on Disaster Risk Reduction and the 2014 Asian Ministerial Conference on Disaster Risk Reduction

- Share the activities of the APRU Multi-Hazards Program and research and he research outcomes
- Address the voices of academic society on the needs and importance of science, campus safety and other areas to contribute to the process of Post-HFA discussion.



UNWCDRR Public Forum

Practical DRR and Science ~ Role of Universities and Academia in DRR~





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Session 1: "*Bridging the gap between science and practice*"

Session 2: "How can science and technology contribute to practical DRR?"

Session 3: "Role of social science in DRR"

21 disaster related experts and scholars were invited to this session as speakers from government, academia, NGO, the private sector, and research institute such as NASA.



