

Communication

## The 7th Symposium on Disaster Risk Analysis and Management in Western China Was Successfully Held in Urumqi

Sen Qiao <sup>1</sup>, Tie-fei Li <sup>1,\*</sup> and Jia-qi Wu <sup>2,3</sup>

<sup>1</sup> Institute of Geophysics, China Earthquake Administration, Beijing (100081), China

<sup>2</sup> School of Big Data Application and Economics, Guizhou University of Finance and Economics, Guiyang (550025), Guizhou, China

<sup>3</sup> Guizhou Institution for Technology Innovation & Entrepreneurship Investment, Guizhou University of Finance and Economics, Guiyang (550025), Guizhou, China

\* Correspondence: 2fen222@163.com

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The 7th Symposium on Disaster Risk Analysis and Management in Western China (WDRAM 2023) was successfully held in Urumqi from September 16 to 17, 2023. This symposium was hosted by Risk Analysis Council of China Association for Disaster Prevention, jointly organized by Central Asia Earthquake Research Institute of Urumqi, China Earthquake Administration, and Seismological Society of Xinjiang Uygur Autonomous Region, and co-organized by SAIFEITE Engineering Technology Group Co., Ltd, Earthquake Disaster Risk and Earthquake Sociology Council of Seismological Society of China, Strong Motion Observation Technology and Application Council of Seismological Society of China, Journal of Catastrophology, City and Disaster Reduction, North China Earthquake Science, Inland Earthquake. The theme of this symposium is "Risk Analysis and Management Exploration in Western China in the New Era".



**Figure 1.** The 7th Symposium on Disaster Risk Analysis and Management in Western China Was Successfully Held.

The opening ceremony was attended and addressed by Researcher Zhiyong Lv, Party Secretary and Director General of the Xinjiang Uygur Autonomous Region Earthquake Administration, Mr. Jianliang Li, Deputy Secretary General of the China Association for Disaster Prevention, Researcher Xiaoqiang Wang, Chairman of the Seismological Society of Xinjiang Uygur Autonomous Region, Mr. Mingyan Hao, Chief Supervisor of the Xinjiang Association for Emergency and Safety Production, Professor Chongfu Huang, Chairman of the Risk Analysis Council of China Association for Disaster Prevention, Researcher Sen Qiao, Executive Vice Chairman of the Risk Analysis Council of China Association for Disaster Prevention, Senior Engineer Qiang Xu, Vice Chairman of the Risk Analysis Council of China Association for Disaster Prevention, Professor Guofang Zhai, Vice Chairman of the Risk Analysis Council of China Association for Disaster Prevention and Professor Hongbin Cao, Secretary General of the Risk Analysis Council of China Association for Disaster Prevention. Meanwhile, Professor Jiquan Zhang, Vice Chairman of the Risk Analysis Council of China Association for Disaster Prevention and Professor Mu Zhang, Vice Chairman of the Risk Analysis Council of China Association for Disaster Prevention, also attended the symposium online. The opening ceremony was chaired by Researcher Sen Qiao, Executive Vice Chairman of the Risk Analysis Council of China Association for Disaster Prevention.



**Figure 2.** Party Secretary and Director General of the Xinjiang Uygur Autonomous Region Earthquake Administration, Researcher Zhiyong Lv and Deputy Secretary General of the China Association for Disaster Prevention, Mr. Jianliang Li delivering speeches.

Researcher Zhiyong Lv, Party Secretary and Director General of the Xinjiang Uygur Autonomous Region Earthquake Administration, extended enthusiastic congratulations on the convening of the conference! He offered a warm welcome and heartfelt greeting to all the attendees! Secretary Lv provided a detailed introduction to the seismic structure and historical seismic activity in Xinjiang. He pointed out that under the guidance of General Secretary Jinping Xi's 'Two Adherences and Three Transformations' ideology, Xinjiang has made significant progress in earthquake prevention and disaster reduction in recent years. Progress has been achieved in seismic structure detection, earthquake monitoring, intensity early warning, and the development of macroscopic observation teams. Activities such as the creation of 1:250,000 geological structural maps and active fault detection in 9 cities have been conducted. Additionally, support has been provided

for the construction of 2.7 million earthquake-resistant housing units, promoting the application and popularization of earthquake isolation technology. Regular emergency drills and science promotion campaigns in primary and secondary schools have also been carried out, with efforts to ensure that 'Educate one student. Impact one family.' These initiatives aim to serve the high-quality development of the border region's economy through earthquake prevention and disaster reduction work.

Deputy Secretary General of the China Association for Disaster Prevention, Jianliang Li expressed heartfelt gratitude for the collaboration between the Central Asia Earthquake Research Institute and Seismological Society of Xinjiang Uygur Autonomous Region in hosting this conference. Deputy Secretary General Li introduced the significant transformation of the Risk Analysis Council of China Association for Disaster Prevention to adapt to the national disaster prevention and reduction strategy, establishing systems for 'technology incentive award', 'group standards', 'achievement evaluation', 'consulting services', and 'certification'. The association has also set up the 'Disaster Prevention Science and Technology Award' and achieved various milestones. He noted that the Risk Analysis Council is one of the earlier-established among the 23 branches of the China Association for Disaster Prevention. Over the years, it has played a crucial role in advancing research on disaster risk theory, risk prevention and control, practical disaster prevention and reduction applications, academic exchanges, and talent development. The Council possesses interdisciplinary and multi-hazard risk analysis capabilities. He expressed hope that the Risk Analysis Council would continue to pioneer efforts in advancing risk analysis technology in China's western regions, promoting high-quality economic and social development: First, conduct forward-looking risk analysis theory research for western regions; Second, strengthen the construction of interdisciplinary risk analysis technology teams; Third, Assist in the development and utilization of billions of pieces of disaster risk factor data in the nationwide comprehensive disaster risk survey; Fourth, diligently implement the relevant requirements of the Ministry of Emergency Management; Fifth, diligently implement the relevant requirements of the association to expand and strengthen branch institutions; Sixth, continuously integrate the upstream and downstream resources in risk research and develop professional advantages while enhancing technology transfer. In conclusion, he wished the conference great success.

On behalf of the Seismological Society of Xinjiang Uygur Autonomous Region, Researcher Xiaoqiang Wang, Chairman of the Society, extends a warm welcome to all the representatives! He expresses heartfelt gratitude for the high-level attention given by the national and various levels of government departments to disaster prevention and reduction efforts in Xinjiang, as well as the deep concern from all sectors of society. Researcher Xiaoqiang Wang highlighted the contributions of the Seismological Society of Xinjiang Uygur Autonomous Region in promoting earthquake prevention and disaster reduction knowledge dissemination, academic exchanges, and cooperation, serving as a bridge and link, and making contributions to the region's earthquake prevention and disaster reduction efforts. In conclusion, he wished all the representatives a fruitful outcome at this conference!

In his speech, Professor Chongfu Huang, Chairman of the Risk Analysis Council of China Association for Disaster Prevention, expressed sincere gratitude to the Central Asia Earthquake Research Institute of Urumqi, China Earthquake Administration, and Seismological Society of Xinjiang Uygur Autonomous Region for holding this conference, as well as the conference preparation team led by Executive Vice Chairman Sen Qiao, for overcoming various difficulties to successfully prepare for this conference. He emphasized the increasing importance of risk analysis

and management in the current global era of rapid change and the Risk Analysis Council should provide technological support for national disaster prevention, reduction, and relief efforts, and he encouraged active exchanges with colleagues from Central Asian countries to contribute to the 'Belt and Road' initiative.



**Figure 3.** Chairman of the Seismological Society of Xinjiang Uygur Autonomous Region, Researcher Xiaoliang Wang, and, Chairman of the Risk Analysis Council of China Association for Disaster Prevention, Professor Chongfu Huang delivering speeches.

Over the course of the two-day conference, ten experts delivered excellent keynote speeches. They are: Professor Chongfu Huang, from Beijing Normal University, presented "The Wave of Derisking in the Post-Pandemic Era."; Researcher Aiwen Liu, from Institute of Geophysics, China Earthquake Administration, discussed "Scientific Investigation of Earthquakes in Turkey - Cross-Fault Earthquake Risks and Implications."; Researcher Lijun Song, from the Seismological Society of Xinjiang Uygur Autonomous Region, presented "Earthquake Disaster Risk Assessment in Xinjiang."; Professor Jiading Wang, from Northwest University, discussed "Several Hazard Issues and Corresponding Risk Prevention & Control in the Construction of High-Speed Railways in China."; Chairman Di Li, from SAIFEITE Engineering Technology Group Co., Ltd, explored the "Development Path of Chemical Industrial Parks in Western China in the New Era."; Researcher Sen Qiao, from the Institute of Geophysics, China Earthquake Administration, talked about "Risk Prevention and Preliminary Measures for Major Earthquakes and Disasters in Western China - Using Several Extremely Large Earthquakes in Western China as Examples."; Professor Jiquan Zhang, from Northeast Normal University presented "Dynamic Evaluation Technology Research and Application of Multiple Hazard Major Agricultural Meteorological Disasters."; Professor Guofang Zhai, from Nanjing University, discussed "Regional Rainstorm Disaster Risk Governance from a Planning Perspective."; Researcher Xueliang Chen, from the Institute of Geophysics, China Earthquake Administration, focused on "Simulation and Analysis of Long-Period Strong Ground Motion for the Lushan Ms6.1 Earthquake."; Researcher Xizhen Wang, from the Institute of Geophysics, China Earthquake Administration, discussed "The Support Role of the Meridian Project in Natural Disaster Prevention and Control."

Simultaneously, this conference organized four sub-sessions: 'Seismic Hazard and Earthquake Disaster Risk Analysis', 'Agricultural, Environmental, and Meteorological Disaster Risk Analysis', 'Financial Risk Analysis', and 'Comprehensive Disaster Risk Analysis', with a total of 60 presentations. More than 110 scholars from across the country participated online and offline, engaging in in-depth discussions on the conference's main topics, reflecting industry dynamics and academic frontiers. The interactions between participants both online and offline were frequent, and discussions were enthusiastic, resulting in a fruitful exchange of ideas.

At noon on 17th, the conference delegates visited the Hutubi Active Source Seismic Testing Field at the Urumqi Earthquake Monitoring Center Station of the Xinjiang Uygur Autonomous Region Earthquake Administration. They acknowledged about the active source detection project and equipment, and observed the excitation process and real-time recording of the air gun seismic source. In the afternoon, they visited Queergou Town to inspect the post-earthquake reconstruction and housing projects following the Ms6.2 earthquake in Hutubi in 2016.



**Figure 4.** Part of the participants in the Hutubi active source seismic detection test site visit group photo.

The significance of this conference lies in its contribution to enhancing the theoretical research level of risk analysis in western China, facilitating the exchange of scientific and technological achievements in risk analysis, promoting effective management practices, fostering the transformation of scientific and technological accomplishments in risk analysis, nurturing skilled professionals, and ultimately serving the national and societal needs more effectively.



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