

Candidate for IUGS Executive Committee

Position: Councilor (2024-2028)

Name: Weijun Zhao

Affiliation: Shenyang Center, China Geological Survey

Nominating Organization: Chinese Academy of Geological Sciences



Biography:

I am a Senior Research Geophysicist at Shenyang Center, China Geological Survey. My Bachelor's and Master's degrees in Geophysics are from Changchun University of Science and Technology in 1999 and Jilin University in 2002, both located in Changchun, China. In 2008, I received a PhD in Geophysics from Kangwon National University in Chuncheon, South Korea, and I was a post-doctoral research fellow at Tohoku University in Sendai, Japan. Subsequently, I joined Shenyang Center, China Geological Survey in 2009. I was an adjunct graduate supervisor in Engineering Geology at Liaoning Technical University, China, in 2019. In 2022, I held a Visiting Scientist position in the Department of Earth Sciences at Memorial University of Newfoundland in St. John's, Canada. I also served as a committee member of the Liaoning Geological Society in 2023. Currently, I serve as an editor of *Geology and Resources*.

I specialize in electromagnetic methods in geophysics, particularly applied to exploring ore deposits and hydrocarbon reservoirs. My research has focused on electromagnetic data analysis and inversion to solve challenging geological problems. I also use gravity and magnetic surveys to cross-validate the research results. My studies have extended beyond geophysics to geological structures in the Earth's crust.

During my PhD and post-doctoral period, I studied well logging and ground penetrating radar (GPR) techniques and was involved in engineering logging and GPR projects. Studying abroad allowed me to learn more foreign languages and cultures, as well as cultivate research collaboration. In addition, I have presented at international conferences (76th EAGE conference 2014 and ASEG conference 2016).

After returning to China, as principal investigator, I organized and ran the projects “Integrated geophysical survey in critical ore district in Eastern Liaoning, China” (2016-2021) and “Geophysical survey at the western periphery of the Songliao Basin” (2019-2020).

I have authored or co-authored over 20 articles in peer-reviewed academic journals, numerous technical reports, and conference proceedings for domestic and international meetings. I also actively serve as a reviewer for *Journal of Applied Geophysics*, *Exploration Geophysics*, *Chinese Journal of Geophysics*, and *Geology and Exploration*.

Statement:

I consent to be nominated as a candidate for the councilor (2024-2028) on the IUGS Executive Committee. I am willing and excited to serve as a member of IUGS, and I am able to devote myself to completing the tasks assigned by the President and Bureau during this tenure.

My main motivation for joining IUGS as a councilor is to help promote the study of geological problems, especially those of worldwide significance, and facilitate internationalization and interdisciplinary cooperation in the Earth Sciences. I wish to identify critical economic and environmental issues whose resolution depends on the understanding of geology and geophysics. My research focuses on using comprehensive geophysical methods and surveys to solve challenging geological problems. As an IUGS councilor, I would like to foster public awareness of geological sciences and their influence on public policy decisions at a global scale.

It is an honor to be considered for this nomination and I look forward to actively participating in IUGS events.