

Candidate for IUGS Executive Committee

Position: Vice President

Name: Zengqian HOU

Affiliation: National Natural Science Foundation of China (NSFC)

Nominating Organization: Geological Society of China (GSC) - IUGS China National Committee



Biography:

I obtained my PhD in Economic Geology from China University of Geosciences (Beijing) in 1988 and worked as a postdoctoral fellow at Geological Survey of Japan (1993-1994). Since then I have been a senior research geologist in Chinese Academy of Geological Sciences (CAGS) including served as the Director-General of Institute of Mineral Resources (2000-2005) and Institute of Geology(2005-2018), CAGS. Currently I am the Vice-President of NSFC, responsible for Earth Sciences and Management Sciences as well as International Collaboration. In addition, I am also appointed by the China Geological Survey as a chief scientist of the Deep-Earth Probe Center.

I have conducted several major scientific projects including an IGCP project and two Chinese State Key 973 Fundamental Research Projects on the lithospheric architecture and relevant mineral systems in collisional orogenies. These researches have led to an establishment of a new theoretical framework and genetic models for collision-related metallogenesis (REE, Cu, Pb-Zn, Au), and major discoveries of world-class copper and other metallic deposits in China. I authored or co-authored about 280 refereed papers with more than 10,000 citations.

I have been awarded several prestigious national and international awards and recognitions including elected as the academician of Chinese Academy of Sciences in 2017, and as fellow of the World Academy of Sciences (TWAS) for developing countries in 2019. I supervise PhD students in CAGS and in several other universities including Peking U, U of Alberta, and U of Western Australia, as an adjunct professor in geoscience programs.

The other professional duties I serve include the Editor-in-Chief of *Acta Geologica Sinica*, an English Journal published by GSC (2017-present), the Regional Vice-President of Society for Geology Applied to Mineral Deposits (2010-2013), and the Chairman of China National Committee for IGCP (2017-present). The promoting efforts of the current China National Committee for IGCP have resulted in active participation of Chinese scientists especially young

and female scientists in IGCP, and, more importantly, a substantial increment of Chinese financial support to UNESCO and IGCP.

As the Vice-President of NSFC (2018-present), I have set up the new strategic plan on Earth Sciences, and accordingly initiated a number of new big science programs including sponsoring several international collaborative programs such as Chinese-Italian polar and oceanic research, Chinese-US SDG research on urban system and human health, and IUGS recognized Deep-time Digital Earth (DDE) program.

Statement:

My motivation to serve on the IUGS EC mainly stems from understanding and dedication to frontier science and working experiences in academia and government organizations. These give me a clear perspective on how to promote IUGS in developed and developing regions and in academia, geological surveys and industries. Among other things, I would like to provide leaderships and supports in promoting IUGS science programs to facilitate international collaboration and interaction of geoscience communities, which will ultimately improve the membership and influence of IUGS. I am more than willing to devote time and wisdom to IUGS and to work with the IUGS EC and whole constituent groups if elected.