



CSRME NEWSLETTER

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CHINESE SOCIETY FOR ROCK MECHANICS & ENGINEERING

Dr. Zhihong Zhao delivered the seventh lecture of the "Propylite" Academic Salon Series



The seventh lecture of the "Propylite" academic salon series hosted by the Chinese Society for Rock Mechanics and Engineering (CSRME) was held on the morning of August 22, 2020. Dr. Zhihong Zhao From Tsinghua University, delivered a wonderful online lecture entitled "Key multi-physical issues regarding the sustainable exploration of geothermal resources in the Beijing-Tianjin-Hebei region" through

"Zhuanjiabao" - a live broadcast platform for engineering experts. The academic salon was moderated by Dr. Xin Huang, the secretary in general of the Youth Working Committee of CSRME.

During the lecture, Dr. Zhao firstly introduced the state-of-art about the geothermal exploration in the Beijing-Tianjin-Hebei region as well as its major scientific and engineering challenges. A variety of the recent work from his research group regarding the multi-physical laboratory tests, advanced numerical modeling and theoretical models for exploring the fundamental aspects of rock mechanics associated with geothermal exploration were presented. Finally, the technique for large-scale multi-physical modeling of geothermal exploration was introduced and its potential application and guidance to the design of geothermal wells for real projects was discussed. Nearly 900 audiences from both domestic and oversea watched the lecture online and Dr. Zhao and the audience had very intensive interactions regarding the design and consideration of multi-physical experiments, setup of numerical model, development and application of the modified hydraulic aperture model, and implication of the kilometer-scale numerical model to practical engineering of geothermal exploration at the end of the lecture. The Q&A lasted for nearly 45 mins.

The purpose of launching the online academic salon series "Propylite" is to overcome the obstacles to academic communication in this unusual period due to the COVID-19 pandemic. The salon aims at strengthening the academic communications among young scholars in rock mechanics and engineering, and stimulating the academic atmosphere.

The First Photo Contest with the Theme of Popular Science Launched Officially by CSRME

The CSRME held the "The First Photo Contest" from May 20 to June 30, 2020. The purpose of this contest is to facilitate the cultural creation, promote the scientific spirit, and spread scientific knowledge by combining the photographic art and popular science, to form a good atmosphere of "Talking about science, Loving science, Learning science, and Using science" in the whole society, gather people's spiritual strength extensively, and offer help to "scientific prevention and control".

With the support of CSRME members and scientific and technological workers, during the contest there are a total of 129 photographic works received from scientific researchers, engineering technicians and students. After public voting and photography experts' reviewing, the award-winning works include: one best work, five excellent works, three popular works, seven shortlisted works.

All of the award-winning works will be showcased at the annual conference of the CSRME (China Rock 2020).

The Best Work (A set of photos)

*The First High-Speed Railway within City Limits in China - Successful Reconstruction of Jinan-Laiwu High-Speed Railway
(by Fan Chengtao, China Railway 14 Bureau Group Co., LTD)*



The Excellent work (A set of photos)

*The Field Works of Shale Gas Project
(by Ren Hui, Institute of Geology and Geophysics, Chinese Academy of Sciences)*

