



# CSRME NEWSLETTER

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## CHINESE SOCIETY FOR ROCK MECHANICS & ENGINEERING

### *CSRME Held a Lecture on the Spirit of Scientists and the Construction of Study Style*



On May 29, 2020, CSRME held a lecture on the topic of "Promoting the Spirit of Scientists, Strengthening the Construction of Study Style".

This lecture was given by Prof. Qihu Qian, who is the winner of the 2018 National Top Science and Technology Award and the Chairman of the Board of Supervisors of CSRME. Prof. Xia-ting Feng, the president of CSRME presided over this lecture.

Prof. Qian vividly and faithfully described the progressive and typical stories of Chinese senior scientists. Firstly, he explained what the spirit of scientists is. He emphasized that the essence and core of the scientist's spirit is that of pursuing

truth and devoting to science formed in the long-term practice of scientific studies. Finally, he hoped that Chinese young scientists in current situations should continue to promote the spirit of scientists and strengthen the construction of study styles.

This lecture received widespread attention and praise. The cumulative live and playback amount is as high as more than 200,000 times.

### *The second lecture of the "Cloud Class of Rock Mechanics and Engineering"*



On May 29, 2020, the second lecture was given in the "Cloud Class of Rock Mechanics and Engineering". Prof. Zuyu Chen from the China Institute of Water Resources and Hydropower Research presented a lecture entitled "The Application of Deep Learning in Inverse Analysis of the Tunnel Collapse during TBM Construction in the Line of Water Supply Project from Songhua River". Prof. Xiaojie Yang, the Secretary-General of CSRME, presided over this lecture.

Prof. Chen briefly introduced the interface and main functions of the deep learning-based TBM software platform. Then he introduced some typical tunneling results of the water supply project from the Songhua River using deep learning from massive tunneling data. Finally, he presented some application

prospects of machine learning in TBM torque and speed prediction and tunnel collapse analysis. The cumulative live and playback amount is as high as more than 10,000 times.

### *The Academic Salon Series Entitled "Youth Rock Scientists" Launched Successfully*



The academic salon series entitled "Youth Rock Scientists" hosted by the Chinese Society for Rock Mechanics and Engineering (CSRME) was successfully launched on the morning of May 30, 2020, which was coinciding with the "National Science and Technology Workers Day of China". Prof. Xiongyao Xie, the Executive member of the CSRME Council and the Chairman of the Youth Working Committee of CSRME, delivered a wonderful online lecture entitled "Intelligent Construction and Risk Management Technology of Underground Engineering". The academic salon was moderated by Dr. Xin Huang, the Secretary-General of the Youth Working Committee of CSRME.

Prof. Xie firstly introduced the background and challenges in underground engineering in accordance with the major strategies of development advocated by the country. Then, based on his own scientific achievements and engineering experiences, he pointed out the future development of underground engineering construction and operation safety control in China. A total of 428 audiences attended the lecture over the internet. Prof. Xie and the audiences had a very intensive interaction at the end of the lecture.

The purpose of launching the online academic salon series of "Youth Rock Scientists" is to overcome the obstacles for academic communication in this unusual period due to the COVID-19 pandemic. Besides, the salon aims to strengthen the academic communications among young scholars in rock mechanics and engineering, and to active their academic atmosphere