

China



Name: China Civil Engineering Society (CCES)

Type of Structure: Non profit, open association

Number of Members: Total number 44064 people, number of corporate members 967 group members.

Supplement 1 for Modern Tunneling Technology in 2018, including 29 papers focusing on the construction technology of Chengdu-Lanzhou Railway Tunnels. In the Supplement 2 for Modern Tunneling Technology, the editorial office edited Collected Papers for 2018 CTUC and the 20th Annual Meeting of Tunnel and Underground Works Branch of China Civil Engineering Society, which include 168 papers.

ASSOCIATION ACTIVITIES DURING 2018 AND TO DATE

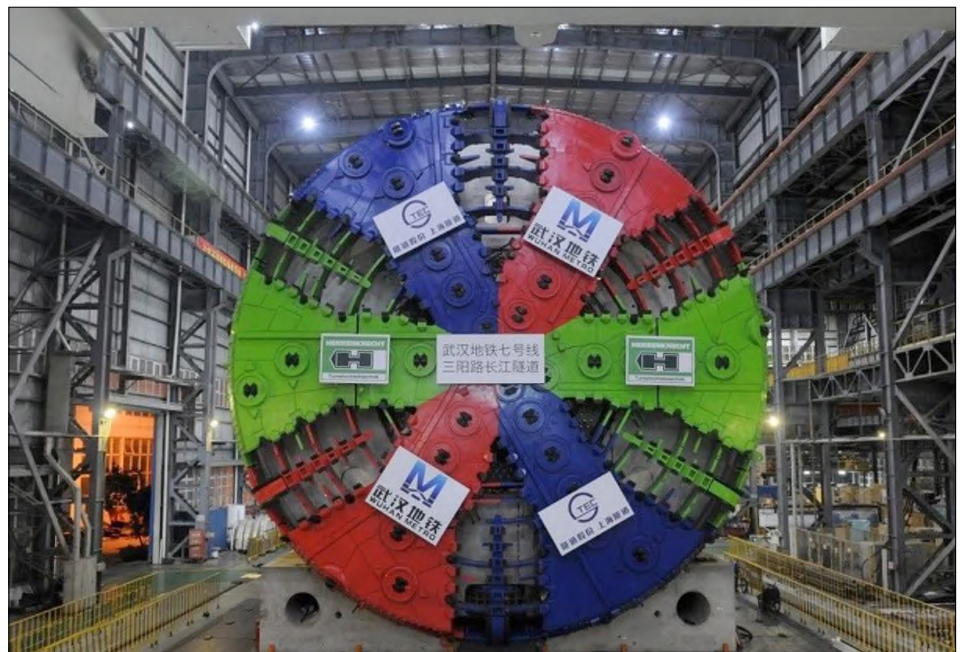
- 1) From May 26 to 27, 2018, Seminar on Technical Challenges of Extra Super Tunnel Projects in the Future – the 10th Parallel Session of the 20th Annual Meeting of the China Association for Science and Technology was held in Hangzhou International Expo Center
- 2) From September 18 to 19, 2018, the first international tunnel conference between China and Malaysia - SEASET 2018 was held at in Hilton Hotel in Selangor, Malaysia
- 3) From September 14 to 15, 2018, China Summit Forum for Tunnelling Technology over Four Decades After Reform and Opening-up was held in Nansha, Guangzhou
- 4) From November 5 to 6, 2018, the opening ceremony of the 2018 CTUC and the 20th Annual Meeting of Tunnel and Underground Works Branch of China Civil Engineering Society was held in Chuzhou, Anhui Province
- 5) On November 7, 2018, ITA 2018 Annual Award Conference was held in Chuzhou, Anhui Province, China. 289 participants from 20 countries attended the Awards 2018 conference and 310 participants for Awards 2018 ceremony.

The Society's Journal Modern Tunneling Technology has published 150 articles covering reviews and discussions, theoretical researches, analysis and calculation, planning and design, construction technology, construction equipment and materials in 6 issues, reflecting the current research trend and hot-debated and challenging issues of the tunnel industry. In addition, the editorial office also edited and published

CURRENT TUNNELLING ACTIVITIES

Railway Tunnels

According to a recent report of the railway infrastructure system, by the end of 2018, a total of 15,117 railway tunnels have been put into operation in mainland China, with a total length of 16,331km. In 2018, there were 550 new railway tunnels being put into operation, with a mileage of 1,005km. Currently railway tunnels under construction add



SEASET 2018-Southeast Asia Symposium & Exhibitions on the Challenges and Strategic Solutions of High Profile Projects on Tunnels 2018

up to about 7,465km. Among them, the Gaoligong Mountain Tunnel on the Dali-Ruili Railway is the longest railway tunnel under construction in China with a length of 34.54km. With an underground construction area of 36,000m², the Badaling Underground Station of the Beijing-Zhangjiakou High-Speed Railway

is by far the largest underground station for high-speed rail in the world. The crossover tunnel at both ends of the station has an excavation span of 32.7m and is the largest single arch span in China. At present, the total length of railway tunnels in China's construction planning reaches 15,634km.



Badaling Underground Station

Highway Tunnels

According to preliminary statistics from relevant highway administrations, by the end of 2018, there were more than 16,500 tunnels on highways of various classes in mainland China, with a total length of 15,940km. In the past five years, the length of the new highway tunnels put into operation has exceeded 1,000km per year. The longest highway tunnel under construction is a 17.10km long tunnel located in Muzhailing, Gansu Province. With a length of 5.66km and a maximum underwater depth of 44m, the recently connected immersed tube tunnel on the Hong Kong-Zhuhai-Macao Bridge Link is by far the longest undersea immersed tube tunnel in the world.

Metros

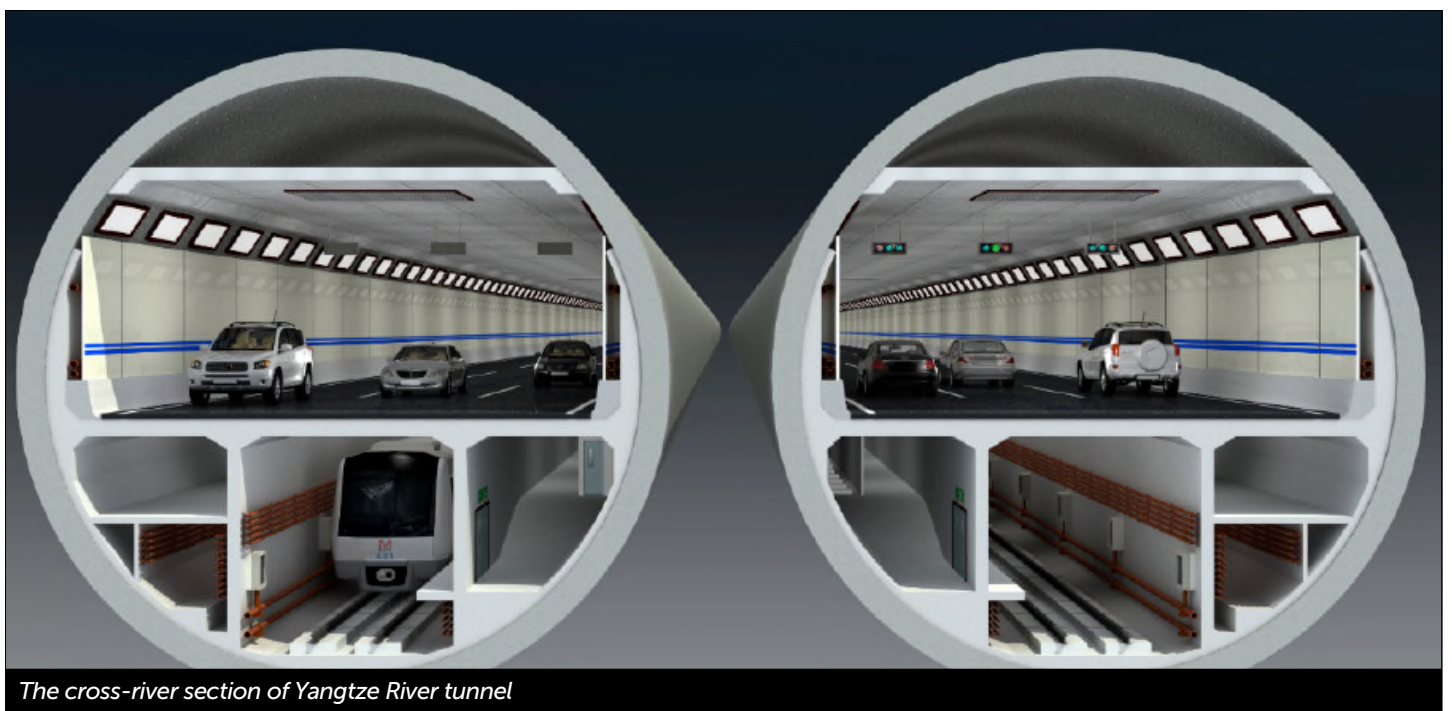
According to the latest rail transit network report, by the end of 2018, rail transit has become available in 35 cities in mainland China, with a total mileage of 5,766.6km (including 4,511.3km of metros). The newly added rail transit in operation reaches a length of 734.0km.



ITA Tunnelling Awards 2018

EDUCATION ON TUNNELLING IN THE COUNTRY

- Tongji University: Tunnel engineering;
- Tsinghua University: Tunnel engineering;
- Central South University: Tunnel engineering;
- Southwest Jiaotong University: Tunnel engineering; etc;



The cross-river section of Yangtze River tunnel