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Keynote Lecture

Recent Developments in Underground Engineering in Shanghai

ABSTRACT

During the past three decades, especially the last decade, China has undergone a tremendous transformation in its social-economic structure and gained marvelous achievements in tunneling and underground engineering. China now tops the world in tunneling construction and underground development. The representative city of the infrastructure construction boom is Shanghai. This paper presents the status quo and recent development of underground engineering in MRT, utilities, road tunnels, cross-river tunnels and underground complexes and facilities in Shanghai with typical examples. Challenges and countermeasures are then briefly discussed. Furthermore, lessons learned from experiences of the underground development in Shanghai are addressed. Finally, a future perspective is given as well.

Keywords: underground engineering; MRT; road tunnel; cross-river tunnel; utility tunnel; foundation excavation

THE SPEAKER



Professor, Dr. Bai Yun has devoted to the civil engineering in China, Singapore, India, Vietnam, Thailand and other countries for twenty eight years. His experience covers many fields of civil engineering such as elevated expressways, MRT project (tunnels and stations), Water treatment facilities, water tunnels, road tunnels, river and sea bridges, soil improvement, rock Caverns and tunnels, site instrumentation, structural test, pile foundation, etc. As an author and co-author, he has published more than eighty papers. He also publishes more than ten books as an author, co-author and editor member. He is a deputy editor/an editorial board member of four technical magazines (three are local and one is international). As a vice president of International Tunneling Association and executive member of China Civil Engineering Society and a vice chairman of Shanghai Society of Civil Engineering, Professor, Dr. Bai Yun always pays his great enthusiasm for promoting the exchange and cooperation in civil engineering between different countries. He organized and chaired many international and regional technical exchanges.

Quote: My future perspective is that civil engineers will build tunnel more and more deeper, bigger, longer and quicker.