

Keynote 4

Professor Jianlin Li

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Keynote Title

Unloading Rock Mass Mechanics



Professor Li obtained a Master Degree of engineering in hydraulic structure from China Institute of Water Resources and Hydropower Research in 1985, and a Ph.D. concerning geotechnical engineering from Chongqing Construction University in 1996. He worked for 31 years at China Three Gorges University (CTGU). Professor Li is currently visiting professor in Wuhan University as well as Hohai University, meanwhile he acted as doctoral supervisor in CTGU and the chairman at key laboratory of the Three Gorges Reservoir Geological Disasters. And he was awarded “National Excellent Scientist” for his research findings. At the same time, he worked as committee member of ISRM and managing director of Chinese Society for Rock Mechanics & Engineering as well as the Chinese society of hydroelectric engineering. Professor Li also hold the post of editorial board member for periodicals like Chinese Journal of Rock Mechanics and Engineering, Rock and Soil Mechanics, Chinese Journal of Geotechnical Engineering, and others.

He has consulted on more than 60 domestic rock engineering projects during 30 years, concerning some key hydraulic and hydroelectric engineering such as Three Gorges Project, Xiaowan and Baihetan hydropower station project, etc. He has 200 publications at first or single author, and has written 9 books, basically on rock slope engineering and unloading rock mass mechanics. He has 13 national or provincial awards including the National scientific and technological progress second prize.

Based on the previous relevant theory, he and his team devoted to develop new concepts and system for unloading rock mass mechanics from 1990 to 1996. Combined with lavish experience in hydraulic and hydroelectric engineering projects, the unloading rock mass mechanics theory has been consummated in several parts including anisotropy, granite rheological, the size effect and has applied to rock engineering since 1997. From 2007, professor Li bent himself to disaster mechanism and stability evaluation as well as engineering protection of the slope in large-scale hydroelectric project.