



CHINA HONG KONG RAILWAY INSTITUTION

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城市軌道交通牽引供電系統的綜合節能與智慧運維 Energy Saving and Smart Maintenance in Metro Traction Power System

Date: 28th March, 2019

Time: 6:30 pm to 7:30 pm

Venue: Auditorium, 2/F, MTR Headquarter

城市軌道交通傳統的牽引供電系統存在著能源利用率低、系統複雜、供電品質差、運用維護成本高等問題。本演講的內容重點介紹了北京交通大學和北京千駟駟電氣有限公司在城市軌道交通牽引供電系統領域近十年利用現代智慧化技術和電力電子新技術的研究成果。該成果已經在大陸多個城市推廣應用。演講將從創新理念、系統原理、核心技術及設計原則等方面做一詳細介紹，最後介紹該技術在大陸的推廣應用情況。

The traditional traction power system in metros has problems such as low energy utilization, complicated system, poor power supply quality and high operation and maintenance costs. This talk share the research achievements of Beijing Jiaotong University and Beijing Qiansiyu Electric Co., Ltd in the field of traction power system in metros integrating modern intelligent technology and new power electronics technology in recent ten years. The scientific achievements have been promoted and applied in many cities in Mainland China. This talk will focus on introducing the concept innovation, system principle, core technology and design principles, as well as the promotion and application in the Mainland of China.

演講者

Speaker

劉志剛教授，現任北京市軌道交通電氣工程技術研究中心主任，北京交通大學電氣工程學院教授，主要從事軌道交通牽引傳動與控制、軌道交通牽引供電技術、載運工具工程應用、電力電子電路與系統、電腦網路通信與系統控制、特種電源技術等方面的研究。先後擔任過中國電工技術學會軌道交通電氣設備技術專家委員會副主任；中國城市軌道交通協會專家和學術委員會委員；北京市電工技術學會副理事長；中國鐵道學會軌道交通裝備分會委員；教育部全國工程專業學位研究生教育指導委員會委員；施仲衡院士專家工作室專家；北京市軌道交通節能工程中心技術委員會委員；《軌道交通縱橫》雜誌專家委員；《都市快軌交通》雜誌編委；Urban rail 編委會專家等。國務院政府特殊津貼專家，茅以升鐵道科技獎獲得者。

Professor Liu Zhigang is the director of Beijing Rail Transit Electrical Engineering Technology Research Center and professor in the School of Electrical Engineering of

Beijing Jiaotong University. He is mainly engaged in rail transit traction drive and control, rail transit traction power supply technology, vehicle engineering application, power electronic and system, computer network communication and system control, special power technology etc. He has served as the deputy director of the China Electric Power Technology Association Rail Transit Electrical Equipment Technology Expert Committee; the China Urban Rail Transit Association expert and academic committee member; the vice chairman of the Beijing Institute of Electrical Technology; member of Rail Transit Equipment Branch of China Railway Society; member of the national steering committee for graduate education of engineering of the Ministry of Education; expert of the Experts Etudio of Academician Shi Zhongheng; member of the technical committee of Beijing Rail Transit Energy Conservation Engineering Center; expert member of Rail Transit magazine; Member of the editorial board of the Urban Fast Track Transit magazine; expert of editorial board of Urban Rail. Winner of the Mao Yisheng Railway Technology Award.

Registration

For registration, each participant has to confirm to CHKRI his/her name, employer and contact telephone number by filling in the online form on or before **22th March 2019**. Maximum capacity of the venue is 60 participant. In case of over-subscription, priority will be given to paid-up members & ballot if necessary. Successful registrants will be notified in due course. Certificate of Attendance will be issued to paid-up members ONLY.

<https://goo.gl/forms/6Wxy7cZvFbKq0DK03>

Alex Lo
Secretary, CHKRI