



CHINA HONG KONG RAILWAY INSTITUTION

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中國高速鐵路鋼軌焊接技術、品質保證及研究進展

China High Speed Rail Weld Technology, Quality Assurance and Study Progress

Date: Tuesday 8th May, 2018

Time: 6:30 pm to 7:30 pm

Venue: Theatre, 2/F, Fo Tan Railway House

隨着高速鐵路建設的發展，目前中國高速鐵路通車里程已接近 3 萬公里。高速鐵路對列車的運行線路的要求很高，為了保證列車運行的安全平穩，軌道需採用無縫線路，軌道的平順性是影響和控制行車速度的主要因素，而長鋼軌焊接是無縫線路的技術關鍵。本次交流主要從三個方面進行：

- 1、軌道焊接主要方法及其特點：主要介紹鋁熱焊、氣壓焊及閃光焊的優點、缺點、適用場合等。
- 2、軌道焊接施工技術及焊接品質保證體系：現場焊接施工工法、中國高鐵焊接的品質保證體系；
- 3、軌道閃光焊焊接工藝與裝備的現狀及發展趨勢：中國工廠和現場閃光焊裝備的現狀及發展趨勢，近幾年焊接工藝研究現狀（如何通過工藝適應各國品質標準要求）等。

With the development of high speed rail, China's high speed rail mileage now almost reaches 30000 km. High speed rail requires high quality tracks. To secure the safety and running smoothness, seamless track needed for high speed rail track. Track regularity is the main factor influencing the train speed and the long rail weld is the key technique for seamless track processing. This talk will focus on the following 3 key subjects:

1. Rail welding method and feature: introduction on advantages and disadvantages of thermit welding, gas-pressure welding and flush butt welding.
2. Rail welding technology and quality assurance system of China high speed rail
3. Flush butt welding technology and welding machine present situation and development on study

Speaker

呂其兵教授，材料科學碩士，電氣工程博士，國內知名的焊接技術專家。現任西南交通大學材料科學與工程學院教授，四川省機械工程學會焊接專委會主任委員。主要研究方向是焊接工藝及設備和電腦檢測及控制。所從事的鋼軌焊接成套設備與技術研究處於國內領先水準：數位化鋼軌氣壓焊設備通過鐵道部認證，在青藏鐵路建設中發揮了很好的作用，獲鐵道學會科技進步二等獎；研製的具有自主智慧財產權的鋼軌閃光焊軌機通過鐵道部上道審查，打破了由國外設備一統中國市場的局面，並且已經走向國際。

Professor Lv Qibing, master of material science, Dr. of electric engineering, well-known welding expert in China, is now the chairman of the welding Committee of Sichuan Province Mechanical Engineering Associations, and the professor of College of Material Science of Southwest Jiaotong University. The main research direction: welding technology and welding machine as well as computer detection and control.

Registration

For registration, each participant has to confirm to CHKRI his/her name, employer and contact telephone number by filling the online form on or before **26th Apr 2018**. Certificate of Attendance will be issued to paid-up members ONLY.

<https://goo.gl/forms/1YHO4Z605boDGbQT2>

Alex Lo
Secretary, CHKRI