Haul Road Design Workshop

Brisbane - Friday, 4 March 2016

Overview:

Presented by Prof Roger Thompson of the Western Australian School of Mines, Curtin University and Dr Leigh Wardle, Mincad Systems and facilitated through the Centre for Pavement Engineering Education (CPEE), this one day Course will introduce the principles of mine haul road design.

Topics covered include philosophy of provision, road building material selection and characterisation, road-user (truck and traffic) requirements, fundamental geometric design concepts, structural (layerworks) design, sheeting (wearing course) selection and improvement and road maintenance management. The Course will also introduce rolling resistance assessment methodologies and from a haul road maintenance perspective, haul road performance assessment and optimisation strategies, as a basis for designing or upgrading new or existing roads.

You will be also introduced to the Haul Road Structural Design feature of CIRCLY 6.0.

Presenters:

Professor Roger Thompson, Western Australian School of Mines
Roger is Professor of Mining Engineering with Curtin University’s Western Australian School of Mines. Roger has undertaken numerous contact research and consulting assignments, centred on surface mining transportation.
and the provision, rehabilitation or improved design and management of mine haul roads for many of the world’s leading surface mining operations.

He is the co-author of numerous peer reviewed publications in the field of mine haul road design and has also run Australian, ARRB, mine-site and International workshops in mine road design, construction and management. He is also the contributing author of the 2011 SME Mining Engineering Handbook Chapter on Road Design.

Leigh Wardle, Principal, Mincad Systems Pty Ltd

Leigh is the developer of CIRCLY, APSDS (Airport Pavement Structural Design System) and HIPAVE for Heavy Industrial Pavements such as intermodal container terminal pavement Design.

Workshop Scope:

- The Benefits of Building Good Haul Roads
- Rolling Resistance – Concepts and Application in Haul Road Design
- Designing and Building Haul Roads- Equipment & Materials
- Fundamental Concepts in Geometric Design
- Structural Design and Layerworks – CIRCLY 6.0
- Functional Design, Sheeting Material and Palliative Selection
- Road Performance Evaluation and Managing Road Maintenance
- Root-cause-Analysis for Mine Haul Roads

Suitable for:

An intensive one day short course ideal for engineers and engineering technologists working for Consultants, Mining Companies, Contractors and Federal, State, or local authorities impacted by or involved in haul road development and use. It is ideal for those involved with heavy loaded non-highway roads, with specific emphasis on unpaved haul roads and their particular dynamics involving heavy equipment with very high pay-loads. The course will provide delegates with an understanding of the overall concepts & principles of Mine Haul Road Design. Mine consultants, contractors, truck fleet operators and personnel involved with design, construction and day-to-day operations and maintenance of mine roads will benefit from the course.

Click for Further Information and Registration Forms.