



DEPARTMENT OF CIVIL ENGINEERING

PUBLIC LECTURE**Innovative Solutions to Selected Underground Construction Challenges**

Dr. Wolfgang Aldrian

Head of Global Technical & Product Management, Underground Construction
BASF Schweiz AG, Switzerland

Date: 17 November 2017 (Friday)
Time: 6:00 p.m. - 7:00 p.m. (Tea Reception starts at 5:30 p.m.)
Venue: Lecture Theatre KK201, 2/F, K.K. Leung Building
The University of Hong Kong

Abstract

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. Through science and innovation, we enable our customers in nearly every industry to meet the current and future needs of society. We interact an amazing 8 times per day with BASF chemistry ranging from waterproof fabrics, and bio-degradable plastics to performance car paint coatings and fuel additives. With Master Builders Solutions, BASF introduces a global brand of advanced chemical solutions for construction. The brand builds on the strengths of many existing BASF brands and products and represents our experience of more than 100 years in the construction industry.

Wolfgang will take us through a journey from mainland Europe to Seattle, stopping off in London and Scandinavia discussing the various technical challenges faced in constructing a variety of underground structures and the innovative solutions implemented. We will visit a large scale TBM project and delve into the latest in soil conditioning with state-of-the-art foams; descend shafts where the latest in sprayed concrete liquid accelerators were used for early strength in ground support; explore huge caverns and sealing them against water ingress with PUS injection; rescuing TBMs through foam injection from surface, and how versatile double bonded sprayed waterproof membranes were used on sealing London clay.

About the Speaker

Dr. Wolfgang Aldrian is the Head of Global Technical & Product Management, Underground Construction Chemicals for BASF. Before joining BASF in 1998, Wolfgang gained a PhD from the Mining University of Leoben, Austria. He then plunged into the world of design consultants with GeoConsult, where he worked on numerous prestigious projects, namely: London Heathrow Express Link; Siebertunnel High Speed Railway and SSSP Project Riyadh in Saudi Arabia.

A seasoned tunneling professional with +30yrs within the industry, Wolfgang is passionate about sprayed concrete for temporary and final tunnel linings and underground structures. Recently he presented at the acclaimed international short course on 'Tunneling Fundamentals, Practice and Innovations' (Sept. 18-21, Colorado School of Mines, USA).

Registration (free of charge) at: https://hkuems1.hku.hk/hkuems/ec_hdetail.aspx?guest=Y&ueid=52849

The seminar is considered suitable for 1 CPD-hour credit. A certificate of attendance will be issued after the lecture.

FREE ADMISSION - ALL ARE WELCOME