CELEBRATING OUR CENTENARY

ENGINEERS AUSTRALIA

Lessons Learned

from the Oberau Bypass Tunnel

Join industry professionals for an open discussion on the learnings from the Oberau Bypass Tunnel project.

5.30 - 7.00pm | Wednesday 21 August 2019

Hawken Auditorium
Level One, 447 Upper Edward Street, Brisbane City, QLD 4000

Delivered by experienced international Civil Engineer Erik Neun, you will partake in an evening of discussion on the learnings from the Oberau Bypass Tunnel: A 3km-long project that underpasses various buildings, and traverses alpine rock formations and grainy soil in Gießenbach Valley.

Due to the possibility of a sudden rise of groundwater levels above the tunnel alignment in cases of heavy rainfall during tunnel excavation, the installation of a groundwater lowering well gallery has been called for.

Consideration has also been given to the impact of surface settlements caused by the tunnelling in the built-up area of Oberau. Based on an initial assessment of expected settlements, compensation grouting has been foreseen for three buildings (two workshops with individual foundations and a residential building with a raft foundation).

The paper being discussed focuses on various aspects of the design and construction of the tunnel, and the experience with and lessons learned from the project, including limitations of FE modelling concerning the influence of specific tunnelling technics, the compensation grouting, and the optimisation of forward spiling.

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TICKETS

EA & ATS Members	COMPLIMENTARY
EAGCG, ICE, AusIMM, AGS	COMPLIMENTARY
Other Society Members	$30
Non-members	$30

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AUSTRALIAN TUNNELLING SOCIETY

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Meet your keynote speaker for the evening.

Erik Neun

Principal Engineer International

EDR Engineering Consultants, Munich

A Civil Engineer with over 20 years' experience in the design and design management of large, international underground infrastructure and tunnel projects, Erik has been involved in a variety of landmark projects on four continents, ranging from deep excavations, cut and cover tunnelling, top down construction, caverns, conventional tunnelling to TBM tunnelling in soil and rock conditions.

As a structural engineer, Erik has been responsible for the detailed design of retaining structures and the temporary and final lining of road and railway tunnels using state-of-the-art 2D and 3D numerical analysis software.

Erik has lead design teams in the preparation of proposals, including the development of alternative solutions and elaboration of detailed designs, whilst having experience in producing technical reports and providing value engineering services.

He has also been responsible for the preparation of check engineering reports for the German Railway Authorities.

Further activities include the preparation of expert opinions, conduct of tunnel related research and development activities and providing on-site construction phase services, including the sign-off on non-conformance reports and preparation of as-built drawings.

Erik is an expert in structural fire engineering and has been presenting the results of his developments in national and international conferences. On the side, Erik also responsible for developing EDR's international activities within the Ingérop group.