



ANNOUNCEMENT

AGS (HK) Technical Seminar

Construction of the LBNF/DUNE Caverns – South Dakota (USA)

by

James Rickard (Arup)

Date: Thursday, 12 October 2023

Time: 18:30 – 19:30 (Hong Kong Time)

Venue: The webinar will be conducted through Zoom.

Successful applicants will be informed by emails with a Zoom's link to the webinar. Participants should arrange for their own device with a stable network environment to join the webinar.

Enquiry: agshk.org@gmail.com

Fee: Free of charge

Registration: https://us02web.zoom.us/webinar/register/WN_fkySR61rT2ice25A5nGPvg

Please register by 10 October 2023. Successful applicants will receive webinar details after registration. CPD certificate will be sent to the attendees, who attended more than 80% of the webinar time, within 2 weeks after the webinar.

Book Prize: The youth professionals under 35 years old are encouraged to submit their reports (max. 500 words) in quality on this event. Please refer to the AGS (HK)'s website "The AGS Book Prize Reports – Assessment Framework" for details before the submission. The successful candidate will be awarded with the Book Prize that comprises of a book "Geology of Site Investigation Boreholes in Hong Kong" that written by Chris Fletcher, and a coupon of HK\$500 from Eslite Spectrum (誠品生活) or equivalent. Ther awarded report will further be uploaded to the website of AGS (HK). Please send your report to Mr. Haydn Chan by email: haydn.chan@arup.com.



Synopsis:

This talk will present the Long Baseline Neutrino Facility Far Site (LBNF) project is located deep underground at the Sanford Underground Research Facility (SURF) in Lead, South Dakota. SURF is a dedicated underground scientific facility located at the former site of the Homestake Gold Mine. The new LBNF facility will house the Deep Underground Neutrino Experiment (DUNE), an international flagship experiment which will seek to enhance our understanding of the universe, the matter which comprises it, and ultimately the role that the neutrino plays in all of it. The project is funded by the US Department of Energy and managed by the Fermi Research Alliance. Fermilab is the host laboratory for DUNE, in partnership with a wider, global consortium of agencies and institutions. Four massive, liquid argon filled particle cryostat detectors will be sited nearly one mile underground at SURF and be on the receiving end of one of the world's most intense neutrino beams emitted from the LBNF Near Site facility on the grounds of Fermilab in Batavia, Illinois. The Long Baseline Neutrino Facility Far Site in Lead, South Dakota is currently under construction and involves drill and blast excavation of the largest and deepest caverns in North America.

About the Speaker:

James Rickard is currently seconded to Fermilab and is full time on site in Lead, South Dakota, USA, supervising the Cavern Excavation for the Long-Baseline Neutrino Facility/Deep Underground Neutrino Experiment funded by The Department of Energy. James has a degree in mining Engineering from the Camborne School of Mines, Cornwall, UK and a Master in Arbitration and Dispute Resolution from the City University Hong Kong. James has gained 29 years' international experience in managing large scale and complex underground projects, with an extensive knowledge of various tunnelling methods in varying ground conditions, large scale and complex excavations. He also has extensive explosives engineering experience in both underground and open cut blasting.