

HALF DAY WEBINAR PIPE JACKING INNOVATIONS FOR A SUSTAINABLE FUTURE

Date/Time: **17th March 2023 | 9.00 am – 12.00 pm**

Ref: ACEMSWK/SEMINAR/02/2023
CPD Hours : 3

ACEM (Sarawak Branch) Secretariat

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Organised by:



BIODATA OF SPEAKERS



Speaker 1

Ir. Dr. Choo Chung Siung is currently a Senior Lecturer of geomechanics and geotechnical engineering at Swinburne University of Technology, Sarawak Campus. He obtained his Bachelor of Engineering in Civil Engineering (1st Class Honours) for which he received the IEM Gold Medal Award. Subsequently, he completed his PhD, producing a thesis titled 'Development and assessment of equivalent rock strength parameters for the back-analysis of pipe-jacking forces'. He has contributed journal articles and has presented at various conferences and seminars. He currently serves as a committee member for the Malaysian Geotechnical Society (MGS), and for the Malaysian Association for Trenchless Technology (MATT). He is also a co-opted member of Engineers Australia, Malaysia Chapter (EAMC).



Speaker 2

Mdm. Sun obtained her Bachelor degree of Civil and Structural Engineering from Lanzhou University of Technology, China in 1982. Subsequently, she obtained a Master degree of Project Management from Heriot-Watt University, UK in 2008. She has accumulated valuable experiences during her over 40 years of working experience in the regions of China, Singapore, South East Asia and the Middle East. She has been employed as a Principal Engineer, Project Director, Associate Director and Overseas representative in various international consultants and enterprises. She is currently the Director for W&M Consultants, Singapore. She was involved in the education as a supervisor of Post Graduate students from the Xi'an Jiao Tong University, China and Adjunct Lecturer of Universiti Teknologi Petronas, Malaysia. She is active as a speaker and provides technical training and sharing in many countries such as China, Germany, Australia, India, Singapore, Malaysia and other countries in Asia. She is currently the Chairperson at Singapore Society for Trenchless Technology.

SYNOPSIS OF SEMINAR

Session 1:

Access to clean water and sanitation continue to present significant challenges for Malaysia's UN SDG ambitions. This can be a growing challenge amidst growing urbanization, requiring the installation of buried infrastructure amidst dense populations and varying geological conditions. Pipe jacking offers a solution within these challenging conditions.

This seminar will focus on recent innovations in the application of artificial intelligence (deep learning) to predict jacking forces based on operation parameters, such as jacking speed, lubrication, and jacking forces. The deep learning algorithm incorporates attention mechanisms that enable visualization of the AI's reasoning and uncover hidden knowledge in the pipe jacking data.

Session 2:

The introduction of trenchless development in Singapore has revolutionized the way infrastructure projects are carried out. In this webinar, we will be discussing the latest technology and developments in irregular-shape pipe jacking and irregular-shaped shielding.

We will start with an overview of the trenchless development in Singapore, highlighting its advantages over traditional methods. We will then delve into the latest developments in irregular-shape pipe jacking and irregular-shaped shielding. These technologies have enabled the construction of complex underground infrastructure, which would have been impossible using traditional methods in the construction schedule.

The speaker will discuss the design and construction considerations and challenges involved in irregular-shape pipe jacking and shielding. They will share their experiences and best practices for successful implementation of these technologies in Singapore and China. We will also explore the various types of equipment and machinery used in these processes.

REGISTRATION FEES

ACEM Member/Government : **RM 50** per person

Others/ IEM members : **RM 60** per person

CERTIFICATE OF ATTENDANCE

Certificate of Attendance will be issued to participants, subject to full attendance.

TENTATIVE PROGRAMME

8.30 am	Registration Log in
9.00 am	Session 1 begins
10.30 am	Session 1 ends
10.30 am	Session 2 begins
12.00 pm	Session 2 ends
12.00 pm	Q & A Session
12.30 pm	Seminar ends

CHANNEL PAYMENT

Submit the bank payment slip and registration form to ACEM (Sarawak Branch) Secretariat at acemsarawak@gmail.com or acemswk.edu@gmail.com by or before **15 March 2023 (Thursday)**.



Scan QR Code or
Click on the link To Register

<https://ibit.ly/UyLW>

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