



The Institution of Engineers, Malaysia

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Talk on "Innovative Technology in Water Conveyance - Oriented PVC pipes"

Organised by Water Resources Technical Division, IEM
BEM Approved CPD/PDP Hours:2 Ref No: IEM16/HQ/053/T

Date : 29th March (Tuesday)
Time : 5:30 pm – 7:30 pm (Refreshments will be served at 2nd Flr at 5.00pm)
Venue : C&S & TUC Lecture Hall, 2nd Floor, Wisma IEM, Petaling Jaya
Speaker : Mr. Walter Pattynama

SYNOPSIS

Water may be conveyed through pipeline by gravity flow or pumping method. From metal to thermoplastic pipes, these has been laying around above and underground to supply water to the consumers since ages ago. Distinction in manufacturing process of the pipes and type of pipes have evolved from time to time.

PVC-O was invented since the late 1970s. The latest patented technology to produce PVC-O at the highest degree of orientation which is class 500 and also, with integrated socket system is by using air based system. PVC-O is made by realigning the PVC molecules through a process of orientation. This greatly enhances the material properties - around twice the strength and ten times the impact resistance is achieved compared to traditional PVC-U material.

The result is that PVC-O has a larger bore offering greater hydraulic capacity; the pipe is manufactured with significantly less embodied energy and is more material efficient compared to other pipe options.

The orientation process imparts high strength at maximum material efficiency. It is the most eco-friendly pipe system in the world as it requires less energy to produce than conventional PVC-U and other pipe materials. It also uses less energy in service than all other pipe types.

Considering their relative low weight, PVC-O pipes are strong, robust and durable. It is easy to handle and installed and due to its light weight, no heavy machinery is needed for size below 315 mm.

BIODATA OF SPEAKERS

Mr. Walter Pattynama Being a multi-lingual business development professional, he has extensive experience in the water industry having been the area manager of Wavin Overseas and subsequently area manager of Rollepaal Middle East and Asia. He was the co-founder and co-owner of MedicaScripta – a Barcelona based medical publisher which publishes high quality medical and scientific information to the healthcare community. Additionally, he also has a background in building distribution networks in the engineering plastics industry in south and central America, Malaysia, Thailand, Indonesia, Philippines and Japan. He holds an MBA from the European University and currently plays a pivotal role in Molecor, engaging different stakeholders of the water industry to modernize conventional pipelines towards using state-of-the-art PVC-O pipes.

Dato' Ir. Haji Hanapi Mohannad Noor
Chairman
Water Resources Technical Division, IEM

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required).
- Non-members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of RM15. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which fee of RM25 will be imposed. GST inclusive.

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of RM15 is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

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