

**Half Day Talk on “Innovative Technology in Conveyance of Water and Sewerage  
- Oriented PVC Pipes”**

*(Co-organised with Molecor (SEA) Sdn. Bhd.)*

**Date** : Saturday, 14 October 2023  
**Time** : 9.00 a.m. – 1.00 p.m.  
**Venue** : Holiday Inn Johor Bahru City Centre  
**Speaker** : Mr. Mohd Farid bin Mohamed Nor, Molecor (SEA) Sdn. Bhd.

**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. Distinctions in the manufacturing process of the pipes and the type of pipes have evolved from time to time. PVC-O was invented during the late 1970s. The latest patented technology to produce PVC-O at the highest degree of orientation which is class 500 and also, with an integrated socket system uses an 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 relatively low weight, PVC-O pipes are strong, robust, and durable.

Time	Tentative Programme
8.30 a.m. – 9.00 a.m.	Registration
9.00 a.m. – 9.10 a.m.	Welcome Speech by IEM (SB) Organising Committee
9.10 a.m. – 10.30 a.m.	Session 1: Introduction to The Technology of PVC-O pipes
10.30 a.m. – 10.45 a.m.	Coffee Break
10.45 a.m. – 12.30 p.m.	Session 2: Application and Specification of PVC-O pipes in Malaysia
12.30 p.m. – 1.00 p.m.	- Case study and Discussion - Question & Answer Session
1.00 p.m.	Closing & End of Talk

**About the Speaker:**



**Mr. Mohd Farid Bin Mohamed Nor** is currently the Chief Executive Officer of Malaysia at Molecor (SEA) Sdn. Bhd. and one of the Director at the company. Mr. Farid graduated with a Mechanical Engineering degree from Imperial College London. He is a registered member of the Board of Engineers Malaysia, an Associate Member of the Institution of Mechanical Engineers UK, and an Associate Member of the City and Guild Institute UK. Prior to joining Molecor, Mr. Farid has served several multinational companies in the past 13 years. He started his early career at Sauber Petronas Engineering in Switzerland as a structural engineer, BRP-Rotax GmbH in Austria in product commercialization. He then finally returned home and served in the PETRONAS group of companies for the oil and gas industry, in a leadership role in research, technology, and engineering services and activities.

**Participant Fees:**

Grade	Online
IEM Members	RM 90.00
IEM Student Members	RM 25.00
Non-IEM Student Members	RM 50.00
Non-IEM Member	RM 150.00

**Closing Date: 11 October 2023**

The seminar is strictly limited to **35 participants** only. Registration will be on a first-come-first-serve basis. Kindly return the reply slip to the IEM (SB) office before **11 October 2023** together with a non-refundable cheque for the participant fees made payable to **The Institution of Engineers, Malaysia (Southern Branch)**. Alternatively, you could bank-in the participant fees into the Institution's Maybank Current Account (No. 5-013920-15708), and to facsimile both the Bank-in and Reply Slips to the Institution. The Institution requests all members co-operation in ensuring fees are paid in advance to the seminar. Please also be reminded that fees will not be refunded to absent participants who have paid, and to also note that all reservations must be paid despite participant cancellations. Thank you for your continuous support of the Institution.

Chairman, Sub-Committee on Seminar and Technical Talk, IEM (SB)

BEM Approved  
CPD Hours: 4.0  
Ref. No.: IEM23/SB/428/T

**REPLY SLIP**

To: Hon. Secretary, The Institution of Engineers, Malaysia (Southern Branch) **Fax: 07 – 3363406**  
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- Oriented PVC Pipes”**

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at Holiday Inn Johor Bahru City Centre

I wish to attend the above talk. I enclosed herewith a cheque no. .... for the amount of RM.....as payment for the participant fee.

Name of Member: ..... Membership No: ..... I/C No: .....  
Address: ..... Tel(O): .....(Fax).....  
..... Tel (H/P): .....  
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Company's Name: .....

Signature: ..... Date: .....

**Note** : Kindly **email to [iemsouthern@gmail.com](mailto:iemsouthern@gmail.com) the Reply Slip together with the payment slip** for confirmation.  
: Attendance by representative will not be issued with the Certificate of Attendance.

**PERSONAL DATA PROTECTION ACT**

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