ASSOCIATION OF CONSULTING ENGINEERS SINGAPORE

ACES-Danfoss Seminar 2023

Danfoss

Date:	**17 February 2023 (Friday)**
Duration:	9.30 am to 2.00 pm
Mode of Delivery:	In-person
Venue:	**Nordic European Centre** (3 International Business Park Road, Singapore 609927)
CPD:	PDU to be confirmed
Fee:	ACES Member $40 nett per person

Registration link and QR Code
https://forms.gle/jE7ArWcBKKsuECeX7

Seminar Program

Time	Activity
9.00 am to 9.30 am	**Registration**
9.30 am to 10.30 am (60 mins)	**Topic 1: Hydronic balancing & control design for energy efficient centralized cooling system by Mr. Stanley de Vries**
10.30 am to 11.00 am	**Tea Break**
11.00 am to 12.00 pm (60 mins)	**Topic 1: Hydronic balancing & control design for energy efficient centralized cooling system by Mr. Stanley de Vries (Cont'd)**
12.00 pm to 2.00 pm (120 mins)	**Topic 2: Next Generation Variable Frequency Drives for Energy Efficient buildings of Future by Mr. Vinod Jethani**
2.00 pm	**End of Seminar and Lunch**

Topic 1: Hydronic balancing & control design for energy efficient centralized cooling system

Synopsis

This seminar provides a comprehensive knowledge of HVAC hydronic balancing & control design principles to achieve indoor thermal comfort while maintaining the energy efficiency of HVAC system. Participants will understand the differences between Pressure Independent Balancing & Control Valve (PIBCV) and Electronic Pressure Independent Control Valve (EPIV).

Objectives

- Importance of chilled water balancing
- Different methods of chilled water balancing
- Importance of valve authority in chilled water system
- Importance of differential pressure controller
- Key differences between PIBCV and Electronic Pressure Independent Control Valve (EPIV)
- Myth of low Delta T
- Balancing & control for District Cooling network
- Best possible way to optimize hydronic balancing & control together with Variable Speed Drive technology

SPEAKERS PROFILE

Stanley de Vries is the Global Application Development Expert of Danfoss. He has more than 20 years' experience in supporting customers from different regions on hydronic balancing & control applications in Non-residential buildings.

Danfoss is always at the forefront of energy efficient solutions and as such has been an important driver of the market switch to pressure Independent technology worldwide. Stanley has supported this conversion of the market and has built up a wide working knowledge of practical applications.

He has also conducted many trainings and seminars for customers and HVAC associations globally. Among others he conducted seminars for ASHRAE (US, India, Middle East, South Africa, Mexico), ISHRAE (India), CIBSE (Sri Lanka), TVVL (Netherlands), AIRAH (Australia) and more.

Topic 2: Next Generation Variable Frequency Drives for Energy Efficient buildings of Future

Synopsis

This seminar provides a comprehensive knowledge of dedicated "HVAC Variable Frequency Drives" for improving the energy efficiency of HVAC system and maintain thermal comfort of occupants, to save energy, meet environmental regulations and reduce costs in modern buildings.

The modern HVAC Drives are designed to bring optimized process control to all heating, ventilation, and air conditioning (HVAC) applications.

Objectives

- Basics of VFD, Fan Laws and selection criteria
- Key differences between standard VFD and Dedicated HVAC VFD
- EC+ High Efficiency fan system
- Pump dedicated control features
- Drive as AHU controller
- Kw/Rt measurement as per GM 2021 standards
- EMC and Harmonic in VFD's (standards & mitigation)
- Conditioned based monitoring

SPEAKERS PROFILE

Vinod Jethani has been associated with HVAC industry for more than 22 years, currently working with Danfoss as a Regional BDM, Commercial Buildings for Asia Pacific region is based in Singapore. Malaysia and India region have been a part of his work experience before moving to Singapore.

He has been supporting customers on different aspects of HVAC solutions for commercial buildings that includes use of Variable Frequency Drive for AHUs, Pumps, Chillers and Cooling Towers to improve energy efficiency and reduce carbon footprint.

He has also conducted many trainings and seminars for customers and HVAC associations regionally. Among others he conducted seminars for ISHRAE (India), IEM (Malaysia) IEE (Philippines) and more.

REGISTRATION FORM

For enquiry, please call ACES Secretariat at Tel: 6659 5023
Kindly sign and submit your completed registration form to **secretariat@aces.org.sg**

Code	Title	Fee per pax	Schedule	Venue
S55	ACES-Danfoss Seminar 2022	ACES Member: $40 Non-Member: $80	17 February 2023 (Friday) 9.30 am to 2.00 pm	**Nordic European Centre** (3 International Business Park Road, Singapore 609927)

S/N	Full Name	PE No.	Contact	Email
1.				
2.				
3.				

Company:		
Address:		
Contact Person:	**Mobile No.:**	**Email:**

PAYMENT METHOD

FOR CHEQUE:
Local Cheque should be crossed and made payable to "Association of Consulting Engineers Singapore".
Mail to ACES address: Association of Consulting Engineers Singapore 18 Sin Ming Lane #06-01 Midview City, Singapore 573960.
Please indicate your name and course code 'S55' on the back of the cheque.

FOR FUND TRANSFER:
Account Name: "Association of Consulting Engineers Singapore"
Account Number: 918-340-5361
Bank: UOB Current Account
Kindly indicate the course code 'S55' and your name when doing the fund transfer.
Please email a copy of your payment transaction details to secretariat@aces.org.sg

FOR PAYNOW
PayNow ID: UEN S71SS0040F
Please email a copy of your transaction details to secretariat@aces.org.sg for payment tracking.

Terms and Conditions

By submitting and signing this application form, the company applicant agree to the following:

- Fees Payment for this activity should not be combined with payment for other ACES events/courses.
- Fees paid are non-refundable under all circumstances. Replacement of participant will be allowed only if written notification is made at least 3 working days before the event.
- Where a Non-Member replaces a Member (must be from the same Org.) the fee difference will have to be made good to ACES prior to the event.
- Registration will be on a First-Come-First-Served basis and will be accepted upon receipt of registration form and payment to ACES.
- You allowed the use of photos and videos of you which may be taken during the event for marketing and publicity purposes. By registering for this event, you consent to allow ACES to collect, use and disclose personal data for event planning and registration purposes.

To be completed by Company Applicant

COMPANY APPLICANT

Name: _____

Signature:_____

Date: _____

Company stamp (for company application)