

ASSOCIATION OF
CONSULTING ENGINEERS
SINGAPORE

ACES-KSB Seminar

Engineering Services in Water and Wastewater Pumping Systems



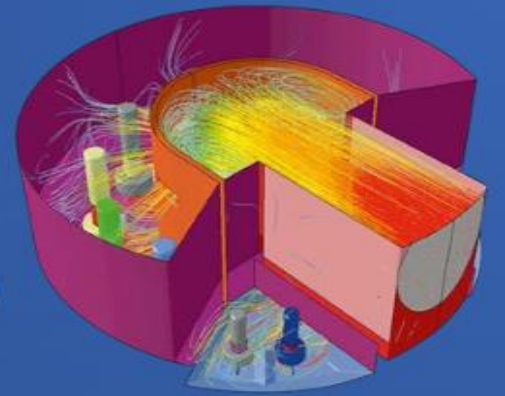
Date: 31 Aug 2018 (Fri)
Duration: 1.30 pm to 6.00 pm
Lunch is available from 12:30 pm

ACES Member:	\$20 / pax
RE/RTO (M&E):	\$40 / pax

Venue: Novotel Singapore on Stevens
28 Stevens Road, Singapore 257878 – *to be confirmed*

CPD: PDUs / STUs (M&E) – *to be confirmed*

**PUMP THE FUTURE
INTO YOUR WATER
& WASTEWATER
PUMPING SYSTEMS**



Synopsis

KSB SE & Co. KGaA hydraulic expert Mr. Tobias Toren Knop will be presenting vital topics that will benefit plant designers and operators to achieve optimum pumping solutions in water and wastewater applications.

With KSB's vast experience in this field, comprehensive research was conducted at Technical University of Berlin in Germany to establish guidelines on several aspects of pump station design and piping works. These guidelines will serve to equip the participants with good engineering practices and provide recommendations for building new pump stations or refurbishing the existing structures.

Topics during the seminar will include:

- ❖ **Pump Station Design** – Intake chamber design, sumps and piping arrangement recommendations
- ❖ **Computational Fluid Dynamic (CFD)** – Station design optimisation and customised solutions
- ❖ **Model Testing** – Flow simulation, problem identification and station design improvement
- ❖ **Water Hammer & Pressure Surge Control Solutions**

The Agenda:

12.30 – 13.30	Lunch & Registration
13.30 – 14.30	Pump Station Design I
14.30 – 15.30	CFD & Model Testing
15.30 – 15.45	Tea Break
15.45 – 16.45	Water Hammer
16.45 – 17.45	Pump Station Design II
17.45 – 18.00	Q& A & Closing



Tobias Toren Knop
Hydraulic & CFD
Expert

About the presenter: Mr. Tobias Toren Knop

Mr. Knop studied Mechanical Engineering with a focus on computer-aided product development at the Hannover University of Applied Sciences and Arts.

Working at KSB SE & Co. KGaA for project support in the field of water and wastewater, he is responsible for CFD and pressure surge calculations. His achievements in computer-aided engineering include numerically examining the particle flow in an exhaust system at an automotive supplier, as well as the air flow in blowers at a home appliance manufacturer to improve their operational performance.

About KSB

Our technology. Your success. And that's a promise.

Whenever there are fluids to be transported, controlled or shut off, customers around the world rely on pumps and valves from KSB. With over 140-year track record, KSB is one of the world's leading manufacturer of pumps and valves, providing a comprehensive range of service offering. With its 33 production and assembly sites in 16 countries and a tightly knit global sales and service network, the KSB brand promises

- competent advice
- excellent quality
- top reliability
- and guarantees service you can count on, worldwide.



Website: www.ksb.com



About KSB Singapore

Established in 1988, KSB Singapore is a wholly owned subsidiary of KSB SE & Co. KGaA in Germany. It is also where the Regional Headquarters of the KSB companies and sales offices in the Asia South and Pacific region is based at. KSB Singapore is supported by a dedicated team of highly experienced and professional employees who are committed to delivering consistently high level of service to local, regional and multinational customers.

Website: www.ksb.sg

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
S21	ACES-KSB Seminar	ACES Member: \$20 RE/RTO (M&E): \$40	31 Aug 2018 (Fri) 1.30 pm to 6.00 pm	Novotel Singapore on Stevens 28 Stevens Road, Singapore 257878

S/N	Full Name	PE No.	ACES M'ship No.	M&E RE / RTO No.	NRIC No.
1.					
2.					
3.					

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

PAYMENT

Enclosed is a Cheque No: _____ (Cheque should be crossed and made payable to “**Association of Consulting Engineers Singapore**” and mailed to “18 Sin Ming Lane #06-01 Midview City, Singapore 573960, Attention: ACES Secretariat”.

[Note: On the back of the cheque, please indicate participant name & event name]

<p>Terms and Conditions</p> <p>By submitting and signing this application form, the company and individual applicant agree to the following:</p> <ol style="list-style-type: none"> a) The company and individual applicant has read and understood the terms of the flyer (if available) and the application form. b) Payment for the course must be made (in form of cheque or cash) two weeks before the course commencement date. c) ACES reserves the right to amend any details relating to the course, revise the course fees without prior notice, cancel or postponed the course. d) Cancellation – In the event that participant is not able to attend, please inform us in writing at least 3 working days before the event date. Otherwise full payment is still applicable even if the participant did not turn up for the course. 	<p style="text-align: right;">To be completed by Company and Individual Applicant</p> <p>COMPANY APPLICANT</p> <p>Name: _____</p> <p>Signature: _____</p> <p>Date: _____</p> <div style="border: 1px dashed black; width: 100%; height: 80px; margin: 10px 0;"></div> <p style="text-align: center; font-size: small;">Company stamp (for company application)</p> <p>INDIVIDUAL APPLICANT</p> <p>Name: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
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