



ASSOCIATION OF
CONSULTING ENGINEERS
SINGAPORE

**ACES Half-Day Seminar on
Design Guide for Fibre-Reinforced Concrete Structures to
Singapore Standard SS 674:2021
16 September 2022 (Friday), 9 am – 1 pm**

Date:	16 September 2022 (Fri)
Duration:	9.00 am to 1.00 pm
Mode of Delivery:	In-person
Venue:	AUD302, NTU@one-north 11 Slim Barracks Rise, Singapore 138664
CPD:	PDU to be confirmed
Fee:	\$60 nett per person

Registration link and QR Code
<https://forms.gle/1StSCJ6MWLtbzp33A>



Synopsis

Fibre-reinforced concrete (FRC) refers to concrete with short, discrete fibres added to improve its performance, particularly in the post-cracking behaviour. It has been increasingly used in construction as it offers unique solutions to numerous structural and engineering problems. The design of FRC structures follows the provisions of Singapore Standard SS 674:2021 and SS EN 1992:2008. To further aid engineers in the design of FRC structures, a design guide is now available.

Objective

This seminar aims at providing participants with further recommendations and design examples, as given in the design guide. It also provides the opportunity for participants to clarify on the design aspects for FRC structures. The seminar will cover:

1. Overview and Scope of Singapore Standard SS 674:2021
2. Executive Classes and Quality Control
3. Material Properties: Strength Classes and Residual Flexural Tensile Strengths
4. Design for Ultimate Limit States, with examples on flexural and shear design
5. Design for Serviceability Limit States, with examples on crack and deflection control
6. Detailing of Reinforcement and Members

Instructor:



Professor Tan Kiang Hwee is a faculty member at the National University of Singapore (NUS) since 1981. He obtained his doctoral degree from the University of Tokyo in 1985. He is a Fellow of Institution of Engineers, Singapore, Japan Concrete Institute, and Japan Society of Civil Engineers, and is a registered professional engineer in Singapore.

He specializes in structural concrete, and has taught courses in reinforced and prestressed concrete design at both undergraduate and graduate levels. He has carried out extensive research on fibre-reinforced concrete and fibre-reinforced polymer (FRP) systems, and has published more than 300 refereed technical papers, and a book titled "Beams with Openings: Analysis & Design". Recently, he received the ICE Frederick Palmer Prize 2021.

He served as Chairman of Working Group on "Singapore Standard for Design of Fibre Reinforced Concrete Structures", and is the writer of the Design Guide.

The Programme

8.30 am		Registration
9.00 am – 9.10 am		Opening Address by ACES & BCA Er. Chuck Kho, ACES President Er. Chew Keat Chuan, BCA Commissioner of Building Control
9.10 am to 10.30 am	80 mins	Design Guide for Fibre-Reinforced Concrete Structures to Singapore Standard SS 674:2021 By Er. Prof. Tan Kiang Hwee
10.30 am to 10.50 am		Tea Break
10.50 am to 12.30 pm	110 mins	Design Guide for Fibre-Reinforced Concrete Structures to Singapore Standard SS 674:2021 (cont'd) By Er. Prof. Tan Kiang Hwee
12.30 pm to 1.00 pm	30 mins	Q&A
1.00 pm		End of Event

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
S56	ACES Half-Day Seminar on Design Guide for Fibre-Reinforced Concrete Structures to Singapore Standard SS 674:2021	\$60 nett per person	16 September 2022 (Fri) 9.00 am to 1.00 pm	AUD 302, NTU@one-north 11 Slim Barracks Rise, Singapore 138664

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