



About the speakers



Prof Chiew Sing Ping is currently the Professor of Civil Engineering and Cluster Director (Engineering) at Singapore Institute of Technology (SIT), Singapore's fifth autonomous university with strong focus on Applied Learning. He was previously the Head of the Division of Structural Engineering and Mechanics at Singapore's Nanyang Technological University (NTU) from 2008 to 2014.



Mr. Amol Singh currently works at Hilti Asia Pacific Pte Ltd and is responsible for providing regional technical consultation for structural fastening applications to professionals across India, South East Asia, Australia and New Zealand. He previously worked as a consulting structural engineer after having attained his Masters in Structural Engineering from Cardiff University, UK.

Synopsis

Presentation 1: Design Considerations for Shear Connectors in EC4

Shear connection between the concrete and steel interface in composite structures is important to ensure composite action. In this connection, mechanical shear connectors are provided to transmit longitudinal shear forces between the concrete and steel section without causing crushing or other damage to the concrete and without causing excessive slip or separation at the interface. Shear connectors should be strong enough to carry high shear forces, stiff enough to limit relative slippage while maintaining their high resistances at large deformations without fracture. This presentation will discuss the EC4 design requirements for shear connectors in general and the design characteristics of the headed stud shear connectors in particular.

Presentation 2: Innovative Shear Connector System for Jobsite Productivity

In a steel industry accustomed with using welded shear connectors as a means to connect metal sheeting to beams as part of the composite floor decks, there exist innovative techniques that remove the need to weld while performing the same function, thereby offering higher productivity and safety onsite. Mr. Amol will provide an introduction to such a system, the testing criteria that harmonises with the requirements stipulated by Eurocode 4, while maintaining the same design flow of composite metal decks with which engineers are familiar and integrated in an easy-to-use software. Additionally, the benefits of installing the system as intended by the design process without the consideration for additional performance reduction will be highlighted.

Event date

18 June 2021 (Fri)

Event time (Singapore time)

5pm to 7pm

Platform

Zoom

Registration is open to all.

Click here to register

or

Scan QR Code below



Programme

4:45pm Registration

5:00pm Design Considerations for Shear Connectors in EC4 by Prof Chiew Sing Ping

6:00pm Innovative Shear Connector System for Jobsite Productivity by Mr Amol Singh

7:00pm End

Attendance Policy and Certificate of Attendance

Please adhere to the following attendance policy in order to receive a certificate of attendance:

- Login at the beginning of the lecture (link will open at 4.45 pm)
- Stay online for the lecture
- Complete the quiz at the end of the lecture.