Session A: Specification and Design of Concrete for Sustainability

In the new Singapore Standards SS EN 206-1 (Concrete – Specification, performance, production and conformity) and SS 544 (Concrete – Complementary Singapore Standard to SS EN 206-1), the method for specifying concrete has been changed from previous Singapore Standards SS289.

This seminar will introduce the concepts and requirements for specifying different types of concrete. Sustainability in the construction industry will remain a pipe-dream unless design for specified durable service life is the basis for all future construction. The presentation will also emphasise the durability and sustainability factor when specifying concrete.

Session B: Role of Silica Fume In High Performance Concrete

High Performance Concrete (HPC) has many definitions but the most commonly accepted one is that given by the American Concrete Institute, which states; “High Performance Concrete is concrete that meets special performance and uniformity requirements that cannot always be achieved routinely by using only conventional materials and normal mixing, placing and curing practices.”

It is now possible to achieve HPC with the availability of pozzalanic materials like silica fume, flyash and ground granulated blast furnace slag.

This seminar will detail how silica fume or micro silica improves the properties of concrete. It will also discuss how silica fume is utilised in achieving the HPC requirements in applications like high strength, controlling heat of hydration, reducing permeability for waterproofing and increasing the durability of concrete exposed to chlorides and sulphates.

Overview

Session A: Specification and Design of Concrete for Sustainability

• Methods of Specification
• Sustainable Concrete Design
• Design flowchart
• Case Studies

Session B: Role of Silica Fume In High Performance Concrete

• How silica fume improves properties of concrete
• Utilisation of silica fume to achieve high performance concrete requirements
• Design method for waterproofing of basement (Darcy’s formula and CIRIA Report 139)
• Calculation of design life of marine structures (Tutti model)

Who Should Attend

- Authorities
- Practising Engineers
- Contractors
- Project Managers
- Consultants
- Concrete Suppliers
- Developers
- Site supervisors

SEMINAR DETAILS

DATE
10 June 2011 (Friday)

TIME
2.00 pm - 5.30 pm

VENUE
Holiday Inn Atrium Singapore
(317 Outram Road)

FEE FOR ACI-SC Members
Early Bird Fee: S$250 nett
(Register & pay by 27 May 11)

Regular Fee: S$300 nett

FEE FOR Non-Members
Early Bird Fee: S$290 nett
(Register & pay by 27 May 11)

Regular Fee: S$340 nett

(Feaxes enclude GST, refreshments and seminar manuals. A certificate of attendance will be given to participants upon completion of the seminar.)

Organised by:

CONNEXXIS
LEARNING

Co-Organised by:

American Concrete Institute
Singapore Chapter
Mr Lu Jin Ping
Executive Director, Admaterials Technologies Pte Ltd

Mr Lu Jin Ping currently heads the testing operation of Admaterials Technologies Pte Ltd, managing the testing activities and analysis of construction materials. Mr Lu has more than 20 years of experience working in areas of research & development, testing and technical consultancy for construction materials. He was a Lecturer in the department of construction materials at Tongji University China from 1988-1994. He was also the Assistant General Manager of CPG Laboratories Pte Ltd in charge of Technology Development Division. In addition, he was the principle consultant for Vivo City Feature Wall Project.

Mr Lu is currently the President of American Concrete Institute - Singapore Chapter. He was also a member of the Singapore Concrete Institute and American Concrete Institute.

Mr Lu has also presented papers at various international conferences in the region and has published articles on testing, performance and research on construction materials. He is the approved person accepted by BCA for the testing and analysis of imported sand and aggregate and the lead auditor for certification of Ready-Mix Concrete Products by Singapore Accreditation Council.

Mr Joseph Khoo
Director, Scancem Materials

Mr Joseph Khoo is the Director of Scancem Materials Singapore and Malaysia responsible for the marketing of silica fume, steel fibres, synthetic fibres and other construction products.

He graduated from the National University of Singapore in 1986 in Civil Engineering. He was involved in the construction of the MRT tunnels in Singapore with Nishimatsu Construction Company in 1986 until its completion in 1987. He then moved on to marketing construction chemicals with Pan Malaysia Cement Works (S) Pte Ltd until 1991 when he was the manager of operations to Supermix Concrete.

In 1992, he moved to Malaysia as the Technical Manager for W.R. Grace. In 1995, he joined Scancem Materials based in Kuala Lumpur and has since been involved in promoting High Performance Concrete. In 2001, he moved to Singapore and now looks after the Asia Pacific region.

Mr Khoo is a member of the American Concrete Institute (KL Chapter) and the Singapore Concrete Institute. He has given a paper on “Application Of Silica Fume in the The Tanjung Pelepas Port in Johor” at the International Conference on Concrete In Marine Environments in Hanoi, Vietnam in Oct 2002. He has also given talks to the Institute of Engineers Malaysia and also to the National Readymix Concrete Association Conference over the years.

YES! We / I will attend the seminar on High Performance & Sustainable Concrete on 10 June 2011 (Friday), 2 pm - 5.30 pm.

Call: (65) 6747 0335 / (65) 9843 9964
Email: stella@connexis.com.sg

Payment
Please make your crossed cheque payable to ”Connexis Learning Pte Ltd” and mail to:
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There will be no refund for withdrawal but replacements are allowed. The full fee will be charged for withdrawal or no-show on the day of the programme.

Cancellation
The organiser reserves the right to substitute an equally-qualified trainer, change the venue, cancel or reschedule the programme should unforeseen circumstances warrant it.