Recycled and Secondary Aggregates: Use in Concrete Construction

This one day Seminar, which should be of interest to all those engaged in concrete construction, such as design/specifying engineers, contractors, precast concrete manufacturers, ready mixed concrete suppliers, recycled and secondary aggregates suppliers, demolition contractors, will deal with the fundamentals, technology and practice of the use of recycled and secondary aggregates in concrete construction and uses case studies to show what has been achieved and the challenges that lay ahead in overcoming the barriers against the use of RSA and in so doing promote sustainable concrete construction.

The one day Seminar will consist of 7(seven) Lectures conducted by three prominent lecturers in this field. Don’t miss this great opportunity!

Date: 12 January 2011 (Wed)

Time: 9.00am – 6.00pm
(Registration starts at 9.00am)

Venue: “The Hall”
      Singapore Polytechnic
      500 Dover Road
      Singapore 139651
      **Enter by Gate 3

PDU Points: Pending
Programme:-

Morning Session

9.30am – 10.00am
Lecture 1: Professor R. K. Dhir
Sustainability and Recycled/Secondary Aggregates: Global Scenario

10.00am – 10.45am
Lecture 2: A/Professor K. C Gary Ong
Types of Recycled Aggregates and Relevant Singapore Standards

10.45am – 11.15am       TEA/COFFEE BREAK

11.15am – 12.00pm
Lecture 3: A/Professor K. C. Gary Ong    Processing of Recycled Aggregates
Production of recycled aggregates. Quality issues. Methods to improve Recycled aggregates; heating and rubbing method, acid pre-soaking method and microwave beneficiation method.

12.00pm – 12.45pm
Lecture 4: Professor R. K. Dhir
Engineering and Durability Performance of Concrete made with Recycled Aggregates: Potential for Use and Issues that are to be Resolved

12.45pm – 1.00pm       QUESTION AND ANSWERS

1.00pm – 2.00pm         LUNCH BREAK

Afternoon Session

2.00pm – 2.45pm
Lecture 5: Professor R. K. Dhir
Potential for Using Secondary Aggregates: Possibilities and Challenges
Possible sources and quantities. Characteristics and suitability for use; incinerated bottom ash, glass cullet, metallic slags and others.

2.45pm – 3.30pm
Lecture 6: Dr Ho Nyok Yong
Practical R&D and Case Studies for Use of Recycled Concrete Aggregates in Singapore

3.30pm – 4.00pm       TEA/COFFEE BREAK

4.00pm – 4.45pm
Lecture 7: Professor R. K. Dhir
Case Studies from the Rest of the World
A selection of up to five case studies covering a wide range of applications of recycled aggregates in concrete construction will be discussed.

4.45pm – 5.15pm       QUESTIONS AND ANSWERS
**Speakers**

**Professor Ravindra K Dhir OBE**, Past President of UK Concrete Society, is a scholar and practitioner in concrete science, technology and construction, with research covering many areas including sustainability, environment impact and reuse, recycle and reconstitution of materials. His approach to research has been visionary, creative and working with industry he has developed £15 million centre of excellence, ensuring a very meaningful dissemination of research to practice. This research model won him many awards, including the Order of British Empire and Honorary Fellowships of the UK Institute of Concrete Technology and Indian Concrete Institute. He serves on many technical committees, has a global network and published 55 books, 60 Technical Reports and 320 papers.

**Dr Ong Khim Chye, Gary** from the Department of Civil and Environmental Engineering, NUS, is a member of the Editorial Boards of the ASTM Journal of Testing and Evaluation and the Journal of Ferrocement. He is a member of the Building and Construction Standards Committee SPRING Singapore and is Convenor of WG2 for the Migration to Eurocodes in Singapore. He is also Chairman of the Technical Committee for Civil Engineering Testing, Singapore Accreditation Council. His research interests include advanced composite materials, durability and assessment of concrete structures, retrofitting and sustainability.

**Dr Ho Nyok Yong** is Technical Director of Samwoh Corporation, a leading integrated construction and sustainable recycling company, where he is heavily involved in R&D in efficient utilisation of waste material, sustainable construction and pavement engineering. He is a Past President of Singapore Concrete Institute and First Vice President of Singapore Contractors association. Dr. Ho is a Registered Professional Engineer of Singapore and Malaysia and Chartered Structural Engineer of UK and has 20 years diversified working experience in civil and environmental engineering. Recipient of many awards, He has published over 50 papers and is regularly invited to speak at conferences and seminars.
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Registration & Payment:-

Registration is confirmed upon payment. Cheque should be crossed and made payable to "Singapore Concrete Institute" and mail it together with your completed registration form to: Block 342 Ang Mo Kio Ave 1 #03-1563 Singapore 560342. Please register early as seats are limited.

Fees: S$75.00 (for SCI Members) S$90.00 (for Non-Member) (Fee includes course materials and refreshments)

** Closing Date : 5 January 2011

Enquiries/Contact (SCI):-
Tel: 6552 0674 Email: scinst@scinst.org.sg Contact: Ms Edina Koh

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