WORKSHOP PROGRAM

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>0900 - 0930 hrs</td>
<td>Registration &amp; Collection of Course Material.</td>
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<tr>
<td>0930 - 1045 hrs</td>
<td>Presentation 1: Structural Cracks in Concrete Structures - By Er Dr Niall MacAlevey, Consultant, Singapore.</td>
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<tr>
<td>1045 - 1130 hrs</td>
<td>Tea / Coffee Break</td>
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<tr>
<td>1130 - 1230 hrs</td>
<td>Presentation 2: Cracks Due to Shrinkage &amp; Settlement of Concrete: Issues &amp; Solutions - By Dr Jong Herman Cahyadi, Nanyang Technological University (NTU), Singapore</td>
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<tr>
<td>1230 - 1330 hrs</td>
<td>Lunch Break</td>
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<tr>
<td>1330 - 1445 hrs</td>
<td>Presentation 3: Early Thermal Cracking in Concrete: Issues &amp; Solutions - Er Dr Tam Chat Tim, National University of Singapore (NUS), Singapore</td>
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<tr>
<td>1445 - 1515 hrs</td>
<td>Tea / Coffee Break</td>
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<tr>
<td>1515 - 1630 hrs</td>
<td>Presentation 4: Crack Evaluation Methods &amp; Crack Repair Techniques - By Dr Arvind Suryavanshi, Setsco Services Pte Ltd, Singapore</td>
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<tr>
<td>1630 - 1700 hrs</td>
<td>A Video Show</td>
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COURSE BACKGROUND

Cracks in concrete structures appear due to numerous reasons. They may affect appearance only, or they may indicate significant structural distress or lack of durability. Their significance depends on the type of structure, as well as the nature of cracking. This workshop focuses on the causes, implications & remedial methods to control various types of structural & non-structural cracks in field concrete structures. The related theory is also covered in brief. The workshop attempts to educate engineers, architects & designers in identifying the best available solution to cracking problems.

ABOUT THE ORGANISER

SETSCO is one of Singapore’s largest testing & inspection companies accredited by the Singapore Accreditation Council (SAC). It offers a comprehensive range of testing, calibration, inspection, consultancy & training services to a wide spectrum of industries.
How You Will Benefit?
- Acquire skills from experts in the field to become a successful problem solver.
- See how poor construction practices lead to defects such as cracks.
- Discover practical solutions to avoid cracks.
- Understand how to repair cracks effectively.
- Take home course material full of useful information that helps in solving future troubleshooting.

What You Will Cover?
- Structural cracks.
- Cracks due to shrinkage, settlement & thermal effects in concrete.
- Cracks & crack repair methods.
- Actual case studies as experienced on site.
- Video show

SPEAKERS PROFILES

Dr Niall MacAlevey: Dr Niall is currently an independent consultant specialising in the analysis & design of reinforced & prestressed concrete structures, forensic engineering & the strengthening of concrete structures. He is the founder of the firm “Shamrock Consultants”, is a member of the Institution of Engineers of Ireland & is a registered Professional Engineer in Singapore. He graduated from University College Dublin, Ireland, in 1987 & completed his M.Sc. degree in “Concrete Structures” at Imperial College, London. He completed his PhD degree at the Nanyang Technological University in 1997 on “The Strengthening of Concrete Structures” & later joined the academic staff there. His main research interest there was in the strengthening of concrete structures using carbon fibre. He has worked for a number of consulting engineering firms and specialist prestressing subcontractors in London, Cambridge, Hong Kong & Singapore.

Dr Herman Cahyadi: Dr Herman received his PhD degree from the University of Tokyo, Japan, in 1995. He is currently working as an Assistant Professor in the School of Civil & Environmental Engineering, NTU. His research interests include durability of concrete, micro-structure of concrete, hydration models for cement-based materials, computerised concrete mix design, non-destructive tests on concrete, & application of waste materials in concrete. So far he has published 19 technical papers in international journals & conference proceedings. He was awarded the Yoshida Award in 1994, & Monbusho Scholarship from 1990-1995.

Er Dr Tam Chat Tim: Dr Tam holds PhD degree in Materials Science from University of Calgary, Alberta, Canada, & MEng in Structures from University of Adelaide, South Australia. He is a registered Professional Engineer & Fellow of many national & international professional bodies. He has been involved in drafting of many of the Singapore Standards for concrete making materials & testing of concrete. He has worked in the industry before engaging in teaching, research & consultancy activities for over 40 years in the field of concrete materials & construction, in particular, tropical weather concreting & introduced the concept of sandwich layered casting method with the use of low heat blended cement in many projects in the region. He has published widely in the field of concrete materials & construction. He has been involved in drafting of many of the Singapore Standards for concrete making materials & testing of concrete & a member of standards council & first deputy chairman of the Building & Construction Standards Committee.

Dr Arvind Suryavanshi: Dr Arvind received his PhD degree from University of Manchester Institute of Science and Technology (UMIST), England. He has been involved in research, teaching and consultancy for over ten years. His research interests relate to construction materials & construction technology with special emphasis on concrete materials & their performance in real environment. He has published 24 refereed technical papers in International Journals and Conferences. He is the recipient of Commonwealth Fellowship awarded by the Association of Commonwealth Universities, UK. His current interests include education & training of engineers in the field of construction materials & construction technology.


Please fill-in the registration form & fax to 6566 7718 or e-mail to wonglk@setsco.com before 27 April 2007. Cheques should be made payable to “SETSCO Services Pte Ltd”. Please forward the cheque along with a copy of the filled-in registration form to SETSCO Services Pte Ltd, 18 Teban Gardens Crescent, Singapore 608925 (Attention to Miss Wong Li Kien).

Name 1 (Dr/Mr/Ms) : ___________________________ SIA*/PEB reg. no* : ___________________________
Name 2 (Dr/Mr/Ms) : ___________________________ SIA*/PEB reg. no* : ___________________________
Name 3 (Dr/Mr/Ms) : ___________________________ SIA*/PEB reg. no* : ___________________________
Company name : _____________________________ Contact person : _____________________________
Company address : ___________________________ Tel/Fax : _____________________________
E-mail : _____________________________

For more information, please contact: Wong Li Kien @ 6895 0626, e-mail: wonglk@setsco.com or Dr. Arvind @ 6895 0633, e-mail: arvind@setsco.com

In-house training: SETSCO is able to customise similar course (s) to fit your needs. For more details, please contact the above.

Note: SETSCO Services Pte Ltd reserves the right to cancel the workshop or amend the schedule, venue & speaker due to circumstances beyond its control. Registration is on first-come-first-serve basis. We regret that we cannot refund the registration fees, however replacement is accepted.