



The Institute of Concrete Technology  
40<sup>th</sup> Annual Convention/Symposium

# Cement and Concrete

## Science, Technology and Experience

22<sup>nd</sup> March 2012

Cement and concrete always have been, and continue to be, materials that evolve with time. Such evolution up to about 100 years ago was based on experience rather than detailed scientific and technological understanding. Nevertheless, the advances were significant.

However, modern concretes require fundamental understanding of the material both chemically and physically and the last 50 years have seen major advances based on this knowledge. Such advances create new uses and opportunities that have to be adopted into practice based on experience.

We are now at the threshold of new prospects and these need to be considered and understood. This Symposium will address these changes, past, present and future, presented by eminent individuals expert in various fields.

The programme features this year's Sir Frederick Lea Memorial Lecture, and the event is registered for CPD.



**Bosworth Hall Hotel, The Park, Market Bosworth, CV13 0LP**

**<http://ict.concrete.org.uk>**



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## Provisional Programme

21 <sup>st</sup> March GOLF COMPETITION		
	A 'Stableford' competition for teams of four, including breakfast, 18 holes, two-course roast dinner, prizes	Held at Forest Hill Golf & Country Club
22 <sup>nd</sup> March AMM and TECHNICAL SYMPOSIUM		
08.30	Registration opens/coffee	
09.00	AMM (Annual Members' Meeting)	
TECHNICAL SYMPOSIUM		
09.55	Introduction by the symposium chairman	Professor Peter Hewlett, ICT President
10.00	Cement hydration	Professor Fred Glasser University of Aberdeen, Scotland
10.30	Chemical admixtures: Science, technology and applications over the years	Dr. Bruce Christensen Head of Global Innovation and Technology Management, BASF
11.00	Discussion	
11.15	Coffee	
11.45	Nanotechnology: Cement and concrete	Professor Karen Scrivener EPFL, Switzerland
12.15	The development and application of bacteria-based self-healing concrete	Dr. H.M. Jonkers, Delft University of Technology, The Netherlands
12.45	Discussion	
13.00	Lunch	
14.00	The Sir Frederick Lea Memorial Lecture: The evolution of cement and concrete	Dr John Newman TALENT
14.45	Discussion	
15.00	Channel Tunnel to Crossrail: What's changed over the past 25 years	Peter Shuttleworth Crossrail
15.30	Discussion	
15.45	Tea	
16.15	Back to the future: Modern methods of construction and future opportunities in the field of thin concrete shells	Andrea Menardo Happold Ingenieurbüro, Germany
16.45	The Shard: Europe's tallest structure	Donald Houston, Byrne Bros Ltd Adrian Thompson, Mace Ltd
17.15	Discussion	
17.30	Chairman's summary and close	
CONVENTION DINNER		
19.30	Drinks reception hosted by ICT	
20.00	Gala Dinner (also featuring ACT Diploma awards, entertainment by a comedian, and a prize draw in aid of the President's charity – the Queen Elizabeth Foundation for Disabled People – <a href="http://www.gef.org.uk">www.gef.org.uk</a> )	
	Donations of prizes for the prize draw are welcome. Please contact <a href="mailto:ict@concrete.org.uk">ict@concrete.org.uk</a>	
	Space is available in the exhibition adjoining the conference hall. For full details please contact: Edwin Trout at <a href="mailto:ict@concrete.org.uk">ict@concrete.org.uk</a> or Raman Mangabhai at <a href="mailto:raman_mangabhai@o2.co.uk">raman_mangabhai@o2.co.uk</a>	
	For details of the Golf Competition, please contact Richard Boulton: <a href="mailto:richard.boulton@uk.lafarge.com">richard.boulton@uk.lafarge.com</a>	

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