



Cementing the future of concrete

– science & sustainability lecture

Concrete 2010
Ambassador

The Concrete Society is pleased to announce a four-date lecture tour by concrete's leading advocate – **The Concrete Society Concrete Ambassador 2010, Professor Karen Scrivener.**

This **free** lecture, open to everyone from true concrete *aficionados* and specifiers to students new to construction, aims to show that not only is concrete the material of choice but also how, with the use of new technologies like nanoscience it can be further improved to meet the challenges of the modern world. Topics such as sustainability, reducing CO₂ emissions during manufacture, construction and in service, as well as recycling and the greater use of waste materials, are covered.

Professor Scrivener - researcher, professor and director of the Construction Materials laboratory at EPFL (Ecole Polytechnique Fédérale de Lausanne) in Switzerland will show that it's an exciting time to study cement and concrete, as the study of material behaviour at the 'nanoscale' will enable the industry to develop new materials and help reduce the environmental impacts of cement and concrete production, but;

Can we as an industry take up this challenge?

Register for your **FREE** place now:

Monday	7 June	Kingston University	London
Tuesday	8 June	Heriot-Watt University	Edinburgh
Wednesday	9 June	University of Derby	Derby
Thursday	10 June	Cardiff University	Cardiff

An essential event for all those involved in the industry.

Each event starts at **6pm** – refreshments provided together with a copy of the presentation

Entry is by ticket only as spaces are limited – for more information and to register go to www.concrete.org.uk/ambassador or call us on **01276 607140**



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Concrete is the most widely used structural building material in the world. The complex processes that turn cement, water, sand and gravel into concrete take place at the level of atoms and individual crystals and thanks to recent technological developments we are now better able to understand these nanoscale processes.

The current approach to concrete requires a lengthy testing and recording of empirical data from the final product to prove performance and restricts innovation that is possible with such a multi purpose material as concrete.

If we can obtain definitive and proven knowledge of how particles of cement, extender, admixture, water and aggregate behave in the microstructure and confidently predict the final performance of the concrete, a wider range of concretes could be produced from a wider range of materials. Materials can be chosen to reduce energy consumption, and CO₂ emissions thereby minimising environmental impact.

Professor Scrivener is the director and the driving force behind Nanocem, a consortium of European academic and industrial partners, all interested in fundamental research in the nanoscale science of cement and concrete. Working together, the members of Nanocem can make technological breakthroughs in the field, providing added value for the industry around the world.

Program

18:00	Registration and refreshments
18:30	Cementing the future of concrete -science & sustainability. Professor Karen Scrivener
19:15	Questions and answer session
19:30	Finish

All attendees will receive a copy of the presentation in their delegate pack
– for more information and to register go to www.concrete.org.uk/ambassador or call us on 01276 607140



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