

The Institute of Concrete Technology

Celebrating **50** years



1972

2022

Yearbook: 2022-2023

— 27th Edition —

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Annual Convention Symposium 2022

50 Years of Concrete Progress ...

- papers presented

A major part of the ICT Annual Convention is the Technical Symposium, where guest speakers who are eminent in their field present papers on their specialist subject. Each year papers are linked by a theme.

This year, to mark the 50th Anniversary of the Institute, the title of Symposium was '50 years of concrete progress in association with *The Institute of Concrete Technology*'. The programme comprised eight papers dealing with advances in issues emanating from each of the five decades 1972-2022, addressed by recognised experts. The topics ranged from admixtures, standards, supplementary cementitious materials, self-compacting and high-performance concrete, precast and low-carbon concretes, ending with a look to future developments. The programme opened with the 11th Sir Frederick Lea Memorial Lecture, given by Professor Jorge de Brito of the University of Lisbon.

The Symposium was held on the 23rd June at the Royal Academy of Engineering, London.

Symposium Chairman: Professor P A M Basheer, President, Institute of Concrete Technology and
Professor Peter C Hewlett, Past President, Institute of Concrete Technology

PAPERS PRESENTED:	AUTHORS:	PAGE:
Sir Frederick M Lea Memorial Lecture: Sustainable Concrete - A Review and Prognosis	Jorge de Brito , CERIS, Instituto Superior Técnico, Universidade de Lisboa , Portugal	39
Admixtures – Their Contribution to Modern Concretes, Mortars and Grout	Peter Hewlett , Consultant. University of Dundee. Martin Liska , R&D Manager, Sika Ltd.	51
Supplementary Cementing Materials (SCM): past, present and future	Martin Cyr , LMDC-INSA/UPS-Université de Toulouse,Toulouse, France	65
Evolution of Concrete Standards and Future Developments	Chris A Clear , Chair, BSI Technical Committees responsible for concrete	75
Recent Developments and Future Trends in Self-Compacting Concrete	Mohammed Sonebi , School of Natural and Built Environment, Queen's University Belfast, Northern Ireland Ahmed Abdalqader , Tracey Concrete Ltd	91
High-Strength and High Performance Concrete	James Aldred , Technical Director - Concrete Future Pty Ltd, Adjunct Associate Professor – School of Civil & Environmental Engineering, University of New South Wales (UNSW), Sydney, Australia	106
Developments in Precast Concrete	Seamus McKeague , CEO Creagh Concrete Products Ltd.	112
AACM and Low Carbon Concrete	John L. Provis , Department of Cement Materials Science & Engineering, University of Sheffield	116
Future Developments in Cement and Concrete Technology - A holistic view of low-carbon concrete and cement technology in the built environment	Elaine Toogood , Director, Architecture and Sustainable Design, The Concrete Centre, Mineral Products Association	125

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