

# The Institute of Concrete Technology



Yearbook: 2021-2022

————— 26th Edition —————

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# Annual Convention Symposium 2021 Net Zero Carbon Concrete

## - 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 the papers are linked by a theme. This year, as a consequence of the Covid-19 pandemic, the symposium was held online, split over the morning of the 29th and 30th April.

**Symposium Chairman: Ian Riley**, Chief Executive, World Cement Association

PAPERS PRESENTED:	AUTHORS:	PAGE:
Concrete and Cement Industry Roadmap to Beyond Net Zero	<b>Richard Leese</b> , Mineral Products Association	28
Hydrogen - a Step Towards Net Zero Cement Production	<b>Iain Walpole</b> , Hanson UK, HeidelbergCement Group	36
Reducing the Carbon Content of Concrete and the Manufacture of Low Carbon Aggregate from Kiln Dust and CO <sub>2</sub>	<b>Paula Carey</b> , Carbon8 Systems <b>Laury Barnes-Davin</b> , Groupe Vicat	39
Net Zero Emission Concrete: Applications in Construction and Mining Summary of Paper	<b>Cyril Attwell</b> , ARC Innovations, South Africa	45
Environmental Product Declarations, Carbon Footprinting and Concrete	<b>Hafiz Elhag</b> , British Precast <b>Matthew Butcher</b> , British Precast	47
Swedish Roadmap for a Climate Neutral Cement and Concrete Industry	<b>Professor Katarina Malaga</b> , RISE Research Institutes of Sweden <b>Urs Mueller</b> , RISE Research Institutes of Sweden,	55
Sustainable Concrete in Practice: A Holistic Approach	<b>Paul Astle</b> , Associate Building Structures, Ramboll UK	60
Developing the LEILAC Technology – A Novel, Low-cost Carbon Capture Solution for the Cement Industry	<b>Jan Theulen</b> , HeidelbergCement <b>Daniel Rennie</b> , Calix <b>Thomas Hills</b> , Calix	67
Zero OPC Self Compacting Concrete: A Flemish Case Study Using Local Slags	<b>Lukas Arnout</b> , ResourceFull BV <b>Wouter Crijns</b> , ResourceFull BV <b>Bram Dooms</b> , WTCB <b>Jeroen Vrijders</b> , WTCB <b>Thomas Lapauw</b> , ResourceFull BV	76
Delivering Low Carbon Concrete for Network Rail on the Routemap to Net Zero	<b>Helen McGarry</b> , Expedition Engineering <b>Bruce Martin</b> , Expedition Engineering. <b>Pete Winslow</b> , Expedition Engineering	84

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