



TECHNICAL SPEAKERS

(Alphabetical by last name)

Ahmed Abdelrazik, Missouri University of Science and Technology, USA

Effect of Type of Fibers and Fiber Volume on Flexural Performance of Super-Workable Concrete, Ahmed Abdelrazik and Kamal H. Khayat

Fadel AbuShaaban, Dubai Municipality, Building Department, United Arab Emirates

Using Eco-Friendly Cementitious Materials for Sustainable Concrete, Fadel AbuShaaban

James Alleman, National Concrete Pavement Technology Center, USA

Approximation Assessment of Photocatalytic Air Cleaning Pavements, James E. Alleman, Joel K. Sikkema, Peter C. Taylor

Godwin Amekuedi, Argos USA Corporation, USA

Properties and Performance of Ground Glass Fiber as a Pozzolan in Portland Cement Concrete, Prasad Rangaraju, Hassan Rashidian, Gordon Nameni and Godwin Amekuedi

Marleisa Arocho, University of Puerto Rico at Mayagüez, Puerto Rico

Going Green on Campus with Pervious Concrete Pavement, Marleisa Arocho and Sangchul Hwang

Gonzalo Barluenga, University of Alcala, Spain

Assessment of Resilience and Sustainability of Cement Based Facades for Mid-rise Commercial Buildings Exposed to Coastal and Seismic Hazards, Gonzalo Barluenga, Oluwateniola Ladipo, Georg Reichard and Roberto T. Leon

Feksi Basha, Manhattan College, USA

Effect of Using 'Chat' on Mechanical Properties of Concrete, Goli Nossoni and Feksi Basha

Dale Bentz, NIST, USA

Minimizing Paste Content in Concrete Using Limestone Powders - Demonstration Mixtures, Dale P. Bentz, Scott Z. Jones and Didier Lootens

James Bogdan, National Ready Mixed Concrete Association, USA

Responsible Sourcing Certification for Concrete, James Bogdan

Rolands Cepuritis, Norwegian University of Science and Technology, Norway

Micro-proportioning of SCC with Crushed Aggregate: PART I Filler Particle Characterization and Properties, Rolands Cepuritis, Stefan Jacobsen, Sverre Smeplass, Ernst Mørtzell and Børge J. Wigum

Zhen Chen, The Hong Kong Polytechnic University, China

Recycling of Sewage Sludge Ash (SSA) as Construction Materials, Zhen Chen and Chi Sun Poon

Tim Cost, LafargeHolcim, USA

Case Study: Successful Market Place Implementation of More Sustainable Ready-Mixed Concrete using Portland-Limestone Cement, Tim Cost and Mark Stovall

Bart Craeye, University of Antwerp, EMIB Research Group, Belgium

Super Absorbing Polymers Increasing the Frost-thaw Resistance of Concrete Roads, Bart Craeye, Gilles De Brabander, Joop Bovend'Eerd and Geert Cockaert

Austin Dada, University of Alabama at Birmingham, USA

Strength Performance and Life Cycle Assessment of Recycled Aggregate Concrete with Class C Fly Ash, Austin Dada

Francesco Di Maio, Delft University of Technology, The Netherlands

Recycling of End of Life Concrete to New Concrete, Francesco Di Maio, Somayeh Lotfi, Peter Rem, Han Xia, Maarten Bakker and Mingming Hu

Giorgio Ferrari, Mapei SpA, Italy

New Permeability Reducing Admixture for Sustainable Concrete, Giorgio Ferrari, Vincenzo Russo, Danilo Passalacqua, Gilberto Artioli and Luca Valentini

Zhi Ge, Shandong University, China

Effect of Recycled Fine Aggregate on Mortar Properties, Xinsheng Wu, Yue Hou, Zhi Ge and Renjuan Sun

David Green, BASF Corp, USA

ProScale: A Life-Cycle Approach to Hazard, Risk and Exposure Assessment for the Construction Industry, David Green

Steffen Grünewald, Ghent University, Belgium

Optimization of Concrete for Prefabrication and Quantification of its Environmental Impact, Stijn Onghena, Steffen Grünewald and Geert de Schutter

Nash Hasan, AECOM, USA

Sustainability and Durability of Concrete Placed in Cold Weather, Nash Hasan

Maryam Hojati, Pennsylvania State University, USA

Drying Shrinkage of Alkali Activated Cements and the Influence of Curing Conditions, Maryam Hojati, Farshad Rajabipour and Aleksandra Radlinska

R. Doug Hooton, University of Toronto, Canada

Improving Concrete Sustainability through Design for Durability, R. Douglas Hooton and Majella Anson-Cartwright

Mingming Hu, Institute of Environmental Sciences, Leiden University, The Netherlands

Material Flow Analysis of the Concrete Chain in the Netherlands, Mingming Hu, René Kleijn, Jeroen Guinée and Francesco Di Maio

Daniel Hussey, Manhattan College, USA

Efficacy of Bacteria Encapsulated Self-healing Concrete Exposed to Salt Water and Freeze-Thaw Cycling, Goli Nossoni, Daniel Hussey and Marisa Budziszewski

Daniel Hussey, Manhattan College, USA

Effect of using Mineral Admixture on the Efficiency of Bacteria Encapsulated Self-healing Concrete, Goli Nossoni and Daniel Hussey

Zhangfan Jiang, University of Virginia, USA

Self-sensing Cementitious Composites with Graphene Nanoplatelets, Radhika Pavgi, Zhangfan Jiang, Andrei Ramniceanu, Osman E. Ozbulut and Devin K. Harris

Alireza Joshaghani, Texas A&M, USA

The Effects of Zeolite as Supplementary Cement Material on Pervious Concrete, Alireza Joshaghani

Florian Junker, Leipzig University of Applied Science (HTWK), Institute for Concrete Constructions, Germany

Mechanical Properties of Pumpable Steel Fiber Reinforced Lightweight Concrete for Application in Load-bearing Walls, Florian Junker, Torsten Mueller, Hubertus Kieslich and Klaus Holschemacher

H.K. Lee, Korea Advanced Institute of Science and Technology, Republic of Korea

Microstructural Characteristic of Alkali-activated Fly Ash Exposed to CO₂-rich Environment, S.M. Park, J.G. Jang, G.M. Kim and H.K. Lee

Lionel Lemay, National Ready Mixed Concrete Association, USA

Life Cycle Approach to Green Concrete, Lionel Lemay

Kai Li, Delft University of Technology, The Netherlands

An Engineering Approach for Permeability Assessment of Virtual Cement-based Materials, Kai Li, Piet Stroeven, Martijn Stroeven and Bert Sluys

Rui Liu, Kent State University, USA

Sustainability of Rubberized Concrete as Highway Pavement Construction Material, Rui Liu

Colin Lobo, National Ready Mixed Concrete Association, USA

Managing Returned Concrete – A new ASTM Specification, Colin Lobo

Mohamed Mahgoub, New Jersey Institute of Technology, USA

Behavior of Confined Recycled Aggregate Concrete, Mohamed Mahgoub

Wassim Mansour, Readymix Abu Dhabi, Innovation Center Iceland, United Arab Emirates

Ecocrete-Xtreme : Holistic Solution for Concrete Sustainability, Olafur Wallevik, Thordur Kristjansson, Wassim Mansour and Fouad Yazbeck

Jamie Meil, Athena Sustainable Materials Institute, Canada

The New Industry Average Slag Cement EPD Provides a Basis for Assessing Effect of Slag Cement on the Environmental Impact of Concrete Mixtures and Structures, Jamie Meil and John Melander

Reed Miller, Massachusetts Institute of Technology, USA

Context-dependence of Hazard Mitigation Strategies: Building Case Studies Around the US, Reed Miller, Jeremy Gregory and Randolph Kirchain

Reed Miller, Massachusetts Institute of Technology, USA

Streamlined Building Life Cycle Assessment, Josh Hester, Reed Miller, Jeremy Gregory and Randy Kirchain

Chetan Modhera, Sardar Vallabhbhai National Institute of Technology, India

Effect of Fibres on High Volume Fly Ash Self Compacting Concrete, Chetan Modhera and Ujjaval Shah

Sean Monkman, CarbonCure Technologies, Canada

The Durability of Concrete Produced Using CO₂ as an Accelerating Admixture, Sean Monkman, Mark MacDonald and Doug Hooton

Nsesheye Susan Msinjili, Bundesanstalt für Materialforschung und -prüfung, Germany

Obtaining Optimum Workability using Rice Husk Ash in a Modified Cementitious System, Nsesheye Susan Msinjili, Wolfram Schmidt and Andreas Rogge

Florian Mueller, IMP Bautech AG, Switzerland

Jobsite Experiences from a Tunnel Restoration with Freeze-Thaw-Resistant SCC, Florian V. Mueller

Antonio Nanni, University of Miami, USA

SEACON – A New Research Project Towards the Sustainability of Concrete, Antonio Nanni

Gilberto Nery, Bundesanstalt für Materialforschung und -prüfung, Germany

Post-impact Assessment of Reinforced Concrete Plate Load Capacity, Gilberto Nery, Falk Hille and Andreas Rogge

Karthik Obla, National Ready Mixed Concrete Association, USA

How Concrete Quality Impacts Sustainability, Karthik Obla

Margaret O'Gorman, Wildlife Habitat Council, USA

What's Your Biodiversity KPI?, Margaret O'Gorman

Clifford Okeh, University of Portsmouth, United Kingdom

Tensile Behaviour of Distinct Hooked End Steel Fibre Shape and Geometry on Material Properties of Self-compacting Concrete, A O Okeh, David W Begg, Stephanie J Barnett, Nikos Nanos

Ahmed Omran, University of Sherbrooke, Canada

Field Trials with Concrete Incorporating Biomass Fly Ash, Ahmed Omran, Ailing Xie, Tatyana Davidenko and Arezki Tagnit-Hamou

Ahmed Omran, University of Sherbrooke, Canada

Early-Age Expansion of Wastepaper Sludge Ash: Reduction and Benefits, Ahmed Omran, Majid Jerban, Arezki Tagnit-Hamou

Tien Peng, National Ready Mixed Concrete Association, USA

Guide to Material Ingredient Disclosure for Concrete, Tien Peng

Arnaud Perrot, University of South-Britany, France

The Effects of Cellulose Ether Admixture on Fresh Cement Pastes Submitted to a Hydraulic Gradient, Alexandre Pierre, Arnaud Perrot and Vincent Picandet

Anne Rønning, Ostfold Research, Norway

CO₂-binding by Concrete Carbonation into LCA and EPD of Concrete Products, Anne Rønning, Kari-Anne Lyng and Christian J. Engelsen

Seyedhamed Sadati, Missouri University of Science and Technology, USA

Statistical Mixture Design to Optimize Eco-efficient Binder for Infrastructure Construction, Seyedhamed Sadati and Kamal H. Khayat

Ayden Saglik, State Hydraulic Works (Turkey), Turkey

Design and Application of the Precast Concrete Anchor Blocks for the TRNC Water Supply Project, Aydin Saglik and Emre Ozalp

Ayden Saglik, State Hydraulic Works (Turkey), Turkey

The Characteristics Of Boron Modified Active Belite (BAB) Cement And Its Utilization In Concrete Technology, Aydin Saglik

Hamza Samouh, Ecole Centrale de Nantes, France

Effect of Recycled Concrete Aggregates Properties on Long Term Shrinkage and Cracking, Ahmed Z. Bendimerad, Hamza Samouh, Emmanuel Roziere and Ahmed Loukili

Leandro Sanchez, University of Ottawa, Canada

Recent Advances on the Use of Sustainable Structural Concrete: A Materials Perspective, Leandro Sanchez, Martin Noël, Gholamreza Fathifazl and Bruno Damineli

Don Satchell, Situ Biosciences LLC, USA

Microbial Challenges for Long-lived Concrete Formulations, Don Satchell

Sushobhan Sen, University of Illinois, USA

Multi-Functional Concrete Inlays for Pavement Preservation and Sustainability, Sushobhan Sen, Daniel King and Jeffery Roesler

Kathrina Simonen, University of Washington, USA

Comparing Concrete EPDs: Motivation, Challenges and Next Steps, Kathrina Simonen and Barbara Rodriguez Droguett

Mohammed Sonebi, Queen's University Belfast, United Kingdom

Investigation of Rheological Behaviour of Self-Compacting Marbled Paste, F. Messaoudi, O. Haddad, R. Bouras, M. Sonebi and S. Kaci

Wil Srubar, University of Colorado Boulder, USA

Design of Sustainable and Resilient Concrete Mixtures via Multi-objective Optimization, Wil V. Srubar III and Joseph R. Kasprzyk

Matteo Stefanoni, Swiss Federal Institute of Technology Zurich (ETH Zurich), Switzerland

Innovative Sample Design for Corrosion Rate Measurements in Carbonated Blended Concrete, Matteo Stefanoni, Ueli Angst and Bernhard Elsener

Prannoy Suraneni, Oregon State University, USA

The Influence of Pore Size and Freezing Rate on Ice Formation in Concrete, H. S. Esmaeeli, Y. Farnam, D. P. Bentz, P. D. Zavattieri and J. Weiss

Omar Swei, Massachusetts Institute of Technology, USA

Pavement Management Under Uncertainty: A Heuristic Approach, Omar Swei, Jeremy Gregory and Randolph Kirchain

Atsushi Teramoto, Hiroshima University, Japan

Study on the Effect of Expansive Additive on Autogenous Deformation in Early Age, Atsushi Teramoto, Kazuhiro Hotta, Takaaki Ohkubo and Ippei Maruyama

Sergio Tortelli, CTG - Italcementi Group, Italy

Performance of Calcium-Sulphoaluminate Cement for Concrete Pavements Applications: A Numerical and Experimental Investigation, Sergio Tortelli, Adriano Reggia, Giovanni Plizzari and Maurizio Marchi

David Walsh, Sellen Construction, USA

Theory and Reality: EDPs and Low Carbon Concrete in Construction, David Walsh

Jialai Wang, University of Alabama, USA

In-situ Production of Nano/Micro Particles in Fresh Concrete, Jialai Wang and Xin Qian

Jialai Wang, University of Alabama, USA

Internal Curing using Perforated Cenospheres, Fengjuan Liu and Jialai Wang

Jialai Wang, University of Alabama, USA

Green Chemistry of Concrete Recycling, Jialai Wang, Liang Wang and Peiyuan Chen

Jason Weiss, Oregon State University, USA

Is the Concrete Profession Ready for Performance Specifications that Provide an Alternative to Prescriptive w/c and Air Content Requirements?, Jason Weiss

Jason Weiss, Oregon State University, USA

Comparing the Mechanical and Fracture Properties of Concrete Made using Ordinary Portland Cement (OPC) and Calcium Silicate Cement (CSC), Andrew Wiese, Jitendra Jain, and Jason Weiss

Lauren Wingo, Arup, USA

Factors Affecting Embodied Carbon Comparison of Timber and Concrete, Frances Yang, Hans-Erik Blomgren and Lauren Wingo

Xin Xu, Massachusetts Institute of Technology, USA

Evaluating the Albedo-induced Radiative Forcing and CO₂ Equivalence Savings: A Case Study on Reflective Pavements in Selected U.S. Urban Areas, Xin Xu, Jeremy Gregory and Randolph Kirchain

Hailong Ye, Pennsylvania State University, USA

Mitigating Drying Shrinkage of Alkali-activated Slag: A Closer Look at the Influence of Curing Condition and Expansive Reaction, Hailong Ye and Aleksandra Radlinska