

2016 International Concrete Sustainability Conference Tentative Schedule

Sunday, May 15, 2016

8:00 – 17:00	MST, RILEM and NRMCA committee meetings SCHEDULE TBD POTOMAC ROOMS and WASHINGTON ROOMS
18:00 – 19:00	Reception in Exhibit Area REGENCY BALLROOM FOYER

Monday, May 16, 2016

7:00 – 8:00	Continental Breakfast in Exhibit Area REGENCY BALLROOM FOYER	
8:00 – 9:30	Plenary Session 1 REGENCY BALLROOM Opening Remarks VIP – TBD Chris Drew - Jeddah Tower, Sustainability of Tall Buildings Olafur H. Wallevik - From Low Binder Self Consolidating Concrete (Eco-SCC) to Vibration Free Stiff Concrete (VFC)	
9:30 – 10:00	Break in Exhibit Area REGENCY BALLROOM FOYER	
10:00 – 12:00	Session D-1: Environmental Impact Reduction WASHINGTON A Recent Advances on the Use of Sustainable Structural Concrete: A Materials Perspective, <i>Leandro Sanchez, Martin Noël, Gholamreza Fathifazl and Bruno Damineli</i> Design and Application of the Precast Concrete Anchor Blocks for the TRNC Water Supply Project, <i>Aydin Saglik and Emre Ozalp</i> Sustainability of Rubberized Concrete as Highway Pavement Construction Material, <i>Rui Liu</i> The Effects of Zeolite as Supplementary Cement Material on Pervious Concrete, <i>Alireza Joshaghani</i>	Session E-1: Material Science WASHINGTON B Effect of Using ‘Chat’ on Mechanical Properties of Concrete, <i>Goli Nossoni and Feksi Basha</i> Recycling of Sewage Sludge Ash (SSA) as Construction Materials, <i>Zhen Chen and Chi Sun Poon</i> Effect of Sustainable Nanofibers on Cement-based Materials, <i>Jessica Flores and Ali Ghahremaninezhad</i> Obtaining Optimum Workability using Rice Husk Ash in a Modified Cementitious System, <i>Nsesheye Susan Msinjili, Wolfram Schmidt and Andreas Rogge</i>

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	<p>Optimization of Concrete for Prefabrication and Quantification of its Environmental Impact, <i>Stijn Onghena, Steffen Grünewald and Geert de Schutter</i></p> <p>Minimizing Paste Content in Concrete Using Limestone Powders - Demonstration Mixtures, <i>Dale P. Bentz, Scott Z. Jones and Didier Lootens</i></p>	<p>Field Trials with Concrete Incorporating Biomass Fly Ash, <i>Ahmed Omran, Ailing Xie, Tatyana Davidenko and Arezki Tagnit-Hamou</i></p> <p>Properties and Performance of Ground Glass Fiber as a Pozzolan in Portland Cement Concrete, <i>Prasad Rangaraju, Hassan Rashidian, Gordon Nameni and Godwin Amekuedi</i></p>
12:00 – 13:30	<p>Lunch REGENCY BALLROOM</p>	
13:30 – 15:10	<p>Session D-2: Environmental Impact Reduction WASHINGTON A</p> <p>Evaluating the Albedo-induced Radiative Forcing and CO2 Equivalence Savings: A Case Study on Reflective Pavements in Selected U.S. Urban Areas, <i>Xin Xu, Jeremy Gregory and Randolph Kirchain</i></p> <p>Approximation Assessment of Photocatalytic Air Cleaning Pavements, <i>James E. Alleman, Joel K. Sikkema, Peter C. Taylor</i></p> <p>Going Green on Campus with Pervious Concrete Pavement, <i>Marleisa Arocho and Sangchul Hwang</i></p> <p>Multi-Functional Concrete Inlays for Pavement Preservation and Sustainability, <i>Sushobhan Sen, Daniel King and Jeffery Roesler</i></p> <p>Microbial Challenges for Long-lived Concrete Formulations, <i>Don Satchell</i></p>	<p>Session E-2: Material Science WASHINGTON B</p> <p>Adhesion and Rheology of Joints Fresh Mortars, <i>C. Sihadj Mohand, R. Bouras and M. Sonebi</i></p> <p>Effect of Recycled Fine Aggregate on Mortar Properties, <i>Xinsheng Wu, Yue Hou, Zhi Ge and Renjuan Sun</i></p> <p>Mechanical Properties of Pumpable Steel Fiber Reinforced Lightweight Concrete for Application in Load-bearing Walls, <i>Florian Junker, Torsten Mueller, Hubertus Kieslich and Klaus Holschemacher</i></p> <p>Effect of Fibres on High Volume Fly Ash Self Compacting Concrete, <i>Chetan Modhera and Ujjaval Shah</i></p> <p>The Effects of Cellulose Ether Admixture on Fresh Cement Pastes Submitted to a Hydraulic Gradient, <i>Alexandre Pierre, Arnaud Perrot and Vincent Picandet</i></p>
15:10 – 15:40	<p>Break in Exhibit Area REGENCY BALLROOM FOYER</p>	
15:40 – 17:20	<p>Session D-3: Environmental Impact Reduction WASHINGTON A</p> <p>Recycling of End of Life Concrete to New Concrete, <i>Francesco Di Maio, Somayeh Lotfi, Peter Rem, Han Xia, Maarten Bakker and Mingming Hu</i></p> <p>Material Flow Analysis of the Concrete Chain in the Netherlands, <i>Mingming Hu, René Kleijn, Jeroen Guinée and Francesco Di Maio</i></p> <p>Behavior of Confined Recycled Aggregate Concrete, <i>Mohamed</i></p>	<p>Session E-3: Material Science WASHINGTON B</p> <p>Self-sensing Cementitious Composites with Graphene Nanoplatelets, <i>Radhika Pavgi, Zhangfan Jiang, Andrei Ramniceanu, Osman E. Ozbulut and Devin K. Harris</i></p> <p>Optimization of Packing Density for a Self-compacting Clay Concrete (SCCC), <i>Gnanli Landrou, Coralie Brumaud and Guillaume Habert</i></p> <p>Early-Age Expansion of Wastepaper Sludge Ash: Reduction and Benefits,</p>

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	<p><i>Mahgoub</i></p> <p>SEACON – A New Research Project Towards the Sustainability of Concrete, <i>Antonio Nanni</i></p> <p>Strength Performance and Life Cycle Assessment of Recycled Aggregate Concrete with Class C Fly Ash, <i>Austin Dada</i></p>	<p><i>Ahmed Omran, Majid Jerban, Arezki Tagnet-Hamou</i></p> <p>Investigation of Rheological Behaviour of Self-Compacting Marbled Paste, <i>F. Messaoudi, O. Haddad, R. Bouras, M. Sonebi and S. Kaci</i></p> <p>In-situ Production of Nano/Micro Particles in Fresh Concrete, <i>Jialai Wang and Xin Qian</i></p>
17:20 – 19:30	<p>Poster Session and Reception in Exhibit Area REGENCY BALLROOM FOYER See SCC 2016 schedule for poster topics</p>	

Tuesday, May 17, 2016

7:00 – 8:00	<p>Continental Breakfast in Exhibit Area REGENCY BALLROOM FOYER</p>	
8:00 – 9:30	<p>Plenary Session 2 REGENCY BALLROOM</p> <p>Henry Green – Pathways to Resilient Communities (invited) Nicolas Roussel - New Trends in Rheology Driven by Sustainable SCC Robert Flatt, Timothy Wangler, Lex Reiter, Heinz Richner, Ena Lloret-Kristensen, Norman Hack, Matthias Kohler, Fabio Gramazio - Digital Fabrication and Concrete: Opportunities and Challenges</p>	
9:30 – 10:00	<p>Break in Exhibit Area REGENCY BALLROOM FOYER</p>	
10:00 – 12:00	<p>Session D-4: Resilience and Durability WASHINGTON A</p> <p>Assessment of Resilience and Sustainability of Cement Based Facades for Mid-rise Commercial Buildings Exposed to Coastal and Seismic Hazards, <i>Gonzalo Barluenga, Oluwateniola Ladipo, Georg Reichard and Roberto T. Leon</i></p> <p>Context-dependence of Hazard Mitigation Strategies: Building Case Studies Around the US, <i>Reed Miller, Jeremy Gregory and Randolph Kirchain</i></p>	<p>Session E-4: Material Science WASHINGTON B</p> <p>Microstructural Characteristic of Alkali-activated Fly Ash Exposed to CO₂-rich Environment, <i>S.M. Park, J.G. Jang, G.M. Kim and H.K. Lee</i></p> <p>Low CO₂ Supersulfated Cement Mortars: Mix-design and Mechanical Performances, <i>Alexandre Pierre, Christophe Lanos, Bérenger Aranda and Mélissa Laurans</i></p> <p>The Characteristics Of Boron Modified Active Belite (BAB) Cement And Its Utilization In Concrete Technology, <i>Aydin Saglik</i></p>

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	<p>Post-impact Assessment of Reinforced Concrete Plate Load Capacity, <i>Gilberto Nery, Falk Hille and Andreas Rogge</i></p> <p>Design of Sustainable and Resilient Concrete Mixtures via Multi-objective Optimization, <i>Wil V. Srubar III and Joseph R. Kasprzyk</i></p> <p>Pavement Management Under Uncertainty: A Heuristic Approach, <i>Omar Sweij, Jeremy Gregory and Randolph Kirchain</i></p> <p>Is the Concrete Profession Ready for Performance Specifications that Provide an Alternative to Prescriptive w/c and Air Content Requirements?, <i>Jason Weiss</i></p>	<p>Utilization of Industrial Waste (Foundry Slag) as a Partial Replacement of Cement and Sand, <i>Shubham Kumar Sharma, Sanjay Meena and Shahrukh</i></p> <p>Performance of Calcium-Sulphoaluminate Cement for Concrete Pavements Applications: A Numerical and Experimental Investigation, <i>Sergio Tortelli, Adriano Reggia, Giovanni Plizzari and Maurizio Marchi</i></p> <p>Internal Curing using Perforated Cenospheres, <i>Fengjuan Liu and Jialai Wang</i></p>
12:00 – 13:30	<p>Lunch REGENCY BALLROOM</p>	
13:30 – 15:10	<p>Session D-5: Resilience and Durability WASHINGTON A</p> <p>Super Absorbing Polymers Increasing the Frost-thaw Resistance of Concrete Roads, <i>Bart Craeye, Gilles De Brabander, Joop Bovend'Eerd and Geert Cockaert</i></p> <p>New Permeability Reducing Admixture for Sustainable Concrete, <i>Giorgio Ferrari, Vincenzo Russo, Danilo Passalacqua, Gilberto Artioli and Luca Valentini</i></p> <p>Sustainability and Durability of Concrete Placed in Cold Weather, <i>Nash Hasan</i></p> <p>An Engineering Approach for Permeability Assessment of Virtual Cement-based Materials, <i>Kai Li, Piet Stroeven, Martijn Stroeven and Bert Sluys</i></p> <p>The Influence of Pore Size and Freezing Rate on Ice Formation in Concrete, <i>H. S. Esmaeeli, Y. Farnam, D. P. Bentz, P. D. Zavattieri and J. Weiss</i></p>	<p>Session E-5: Life Cycle Assessment WASHINGTON B</p> <p>Streamlined Building Life Cycle Assessment, <i>Josh Hester, Reed Miller, Jeremy Gregory and Randy Kirchain</i></p> <p>Comparing Concrete EPDs: Motivation, Challenges and Next Steps, <i>Kathrina Simonen and Barbara Rodriguez Droguett</i></p> <p>Factors Affecting Embodied Carbon Comparison of Timber and Concrete, <i>Frances Yang, Hans-Erik Blomgren and Lauren Wingo</i></p> <p>CO₂-binding by Concrete Carbonation into LCA and EPD of Concrete Products, <i>Anne Rønning, Kari-Anne Lyng and Christian J. Engelsen</i></p> <p>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, <i>Jamie Meil and John Melander</i></p>
15:10 – 15:40	<p>Break in Exhibit Area REGENCY BALLROOM FOYER</p>	
15:40 – 17:20	<p>Session D-6: Resilience and Durability WASHINGTON A</p> <p>Drying Shrinkage of Alkali Activated Cements and the Influence of Curing</p>	<p>Session E-6: Environmental Impact Reduction WASHINGTON B</p> <p>Using Eco-Friendly Cementitious Materials for Sustainable Concrete,</p>

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	<p>Conditions, <i>Maryam Hojati, Farshad Rajabipour and Aleksandra Radlinska</i></p> <p>The Durability of Concrete Produced Using CO2 as an Accelerating Admixture, <i>Sean Monkman, Mark MacDonald and Doug Hooton</i></p> <p>Effect of Recycled Concrete Aggregates Properties on Long Term Shrinkage and Cracking, <i>Ahmed Z. Bendimerad, Hamza Samouh, Emmanuel Roziere and Ahmed Loukili</i></p> <p>Study on the Effect of Expansive Additive on Autogenous Deformation in Early Age, <i>Atsushi Teramoto, Kazuhiro Hotta, Takaaki Ohkubo and Ippei Maruyama</i></p> <p>Mitigating Drying Shrinkage of Alkali-activated Slag: A Closer Look at the Influence of Curing Condition and Expansive Reaction, <i>Hailong Ye and Aleksandra Radlinska</i></p>	<p><i>Fadel AbuShaaban</i></p> <p>Life Cycle Approach to Green Concrete in Dubai, <i>Rabih Fakih</i></p> <p>Ecocrete-Xtreme : Holistic Solution for Concrete Sustainability, <i>Olafur Wallevik, Thordur Kristjansson, Wassim Mansour and Fouad Yazbeck</i></p> <p>Case Study: Successful Market Place Implementation of More Sustainable Ready-Mixed Concrete using Portland-Limestone Cement, <i>Tim Cost and Mark Stovall</i></p> <p>Statistical Mixture Design to Optimize Eco-efficient Binder for Infrastructure Construction, <i>Seyedhamed Sadati and Kamal H. Khayat</i></p>
17:20 – 18:00	BREAK	
18:00 – 19:00	Reception in Exhibit Area REGENCY BALLROOM FOYER	
19:00 – 21:00	Banquet REGENCY BALLROOM	

Wednesday, May 18, 2016

7:00 – 8:00	Continental Breakfast in Exhibit Area REGENCY BALLROOM FOYER	
8:00 – 10:00	<p>Session D-7: Resilience and Durability WASHINGTON A</p> <p>Improving Concrete Sustainability through Design for Durability, <i>R. Douglas Hooton and Majella Anson-Cartwright</i></p> <p>Effect of Different Environmental Exposure on the Efficiency of Bacteria Encapsulated Self-healing Concrete, <i>Goli Nossoni, Daniel Hussey and Marisa Budziszewski</i></p> <p>Effect of using Mineral Admixture on the Efficiency of Bacteria Encapsulated Self-healing Concrete, <i>Goli Nossoni and Daniel Hussey</i></p>	<p>Session E-4: Environmental Impact Reduction WASHINGTON B</p> <p>Responsible Sourcing Certification for Concrete, <i>James Bogdan</i></p> <p>What's Your Biodiversity KPI?, <i>Margaret O'Gorman</i></p> <p>Guide to Material Ingredient Disclosure for Concrete, <i>Tien Peng</i></p> <p>ProScale: A Life-Cycle Approach to Hazard, Risk and Exposure Assessment for the Construction Industry, <i>David Green</i></p> <p>Theory and Reality: EDPs and Low Carbon Concrete in Construction, <i>David Walsh</i></p>

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	<p>Tensile Behaviour of Distinct Hooked End Steel Fibre Shape and Geometry on Material Properties of Self-compacting Concrete, <i>A O Okeh, David W Begg, Stephanie J Barnett, Nikos Nanos</i></p> <p>Innovative Sample Design for Corrosion Rate Measurements in Carbonated Blended Concrete, <i>Matteo Stefanoni, Ueli Angst and Bernhard Elsener</i></p> <p>Comparing the Mechanical and Fracture Properties of Concrete Made using Ordinary Portland Cement (OPC) and Calcium Silicate Cement (CSC), <i>Andrew Wiese, Jitendra Jain, and Jason Weiss</i></p>	<p>Green Chemistry of Concrete Recycling, <i>Jialai Wang, Liang Wang and Peiyuan Chen</i></p>
<p>10:00 – 10:30</p>	<p>Break in Exhibit Area REGENCY BALLROOM FOYER</p>	
<p>10:30 – 12:30</p>	<p>Plenary Session 3 REGENCY BALLROOM</p> <p>Geert De Schutter - Vision for Future Advancement of SCC Industry TBD</p> <p>Suru Shah - Constructability, Sustainability, and Nanotechnology Closing Remarks</p>	