

**OCTOBER 20, 2015 (TUESDAY)**

8.00 – 9.00 am	Registration
9.00 – 9.30 am	<b>OPENING CEREMONY</b> (Venue: Atrium Ballroom, Level 4)
	<p><b>Welcome Address by Mr Lu Jin Ping</b> Chairman, ICPIIC 2015 Organising Committee President, American Concrete Institute (Singapore Chapter)</p> <p><b>Address by Prof Kyu-Seok Yeon</b> President, International Congress on Polymers in Concrete</p> <p><b>Address by Guest-of-Honour, Er Ong See Ho</b> Deputy CEO (Building Control) / Commissioner of Building Control, Building and Construction Authority of Singapore</p>
	<b>Session Chairs: Prof Tam Chat Tim (Singapore), Prof Lech Czarnecki (Poland)</b>
9.30 – 9.50 am	<p><b>Keynote Session 1: Are Polymer Concrete Materials Really Sustainable?</b> <i>By: Professor David W. Fowler, The University of Texas at Austin, United States</i></p>
9.50 – 10.10 am	<p><b>Keynote Session 2: Merging Cement Concrete, Concrete-Polymer Composites and Inorganic Polymer Technologies for Sustainability in Construction and Restoration</b> <i>By: Professor Dionys Van Gemert, University of Leuven, Belgium</i></p>
10.10 – 10.30 am	<p><b>Keynote Session 3: FRP Strengthening of Discontinuous Members</b> <i>By: Professor Tan Kiang Hwee, National University of Singapore</i></p>
10.30 – 11.00 am	<b>COFFEE BREAK / NETWORKING</b>
	<b>Session Chairs: Prof Gary Ong (Singapore), Prof. David Fowler (United States)</b>
11.00 – 11.20 am	<p><b>Keynote Session 4: Application of Non-Destructive Methods for Quality Control of Concrete Repair Efficiency</b> <i>By: Professor Andrzej Garbacz, Warsaw University of Technology, Poland</i></p>
11.20 – 11.40 am	<p><b>Keynote Session 5: The Effect of Polymer Emulsion Addition on the Setting Time, Crack Formation and Strength of Cementitious Patch Repair Mortars</b> <i>By: Mr Deon Kruger, University of Johannesburg, South Africa</i></p>

11.40 – 12.00 pm	<b>Keynote Session 6: Novel Geopolymers Incorporating Wollastonite and Recycled Mixed Plastics</b> <i>By: Dr Wong Sook Fun, Temasek Polytechnic, Singapore</i>		
12.00 – 1.20 pm	<b>LUNCH</b> <b>Venue: Atrium Restaurant, Level 4</b>		
1.20 – 3.00 pm	<p style="text-align: center;"><b>BREAKOUT SESSION 1 :</b>  <b>Use of Polymers to Enhance Concrete Performance</b>  <b>(Venue: Changi 3, Level 4)</b></p> <p><i>Session Chairs: Mr Joseph Lim (Singapore) &amp; Prof. Oliver Weichod (Germany)</i></p>	<p style="text-align: center;"><b>BREAKOUT SESSION 2</b>  <b>Use of Polymers in Green Building Materials</b>  <b>(Venue: Kallang Room, Level 4)</b></p> <p><i>Session Chairs: Dr Wong Sook Fun (Singapore) &amp; Prof Kyu-Seok Yeon (South Korea)</i></p>	<p style="text-align: center;"><b>BREAKOUT SESSION 3</b>  <b>Use of Polymers in Sustainable Construction and Development</b>  <b>(Venue: Seletar Room 3, Level 3)</b></p> <p><i>Session Chairs: Dr Arvind K Suryavanshi (Singapore) &amp; Prof Hulusi Ozkul (Turkey)</i></p>
1.30 – 1.45 pm	<b>Apparent vs. True Bond Strength of Steel and PC with Nanoalumina</b> <i>By: Professor Mahmoud Reda Taha, University of New Mexico, United States</i>	<b>Deformability of Mortars Incorporating Polyurethane Foam Waste under Cyclic Compression Fatigue Tests</b> <i>By: Prof Carlos Junco, University of Burgos, Spain</i>	<b>Development of Foam One-Part Geopolymers with Enhanced Thermal Insulation Performance and Low Carbon Dioxide Emissions</b> <i>By: Dr José B Aguiar, University of Minho, Portugal</i>
1.45 – 2.00 pm	<b>Comparison of Ordinary Pores with Internal Cured Pores Produced by Superabsorbent Polymers</b> <i>By: Dr Jin Yang, Wuhan University of Technology, China</i>	<b>Development of Polymer Concrete with Non-Standardised Fillers for Innovative Building Materials</b> <i>By: Mr Alexander Flohr (representation for Prof Andrea Osburg), Bauhaus Universitat Weimar, Germany</i>	<b>Lightweight Polyurethane Mortar with Structural Properties</b> <i>By: Prof Verónica Calderón, University of Burgos, Spain</i>
2.00 – 2.15 pm	<b>Current Status of Expansion Joints Used for Road Bridges in Japan and an Advanced Buried Joint</b> <i>By: Prof Makoto Kawakami, Akita University, Japan</i>	<b>Durability Performance of Polymeric Waste Crumb Rubber as Fine Aggregates Replacement in Concrete</b> <i>By: Ms DYG Siti Quraisyah Bt Abg Adenan, Infrastructure University Kuala Lumpur, Malaysia</i>	<b>Properties of Foamed Concrete Using Polymer Based Foaming Admixture</b> <i>By: Mr Joung Soo Sun, Kongju National University, South Korea</i>
2.15 – 2.30 pm	<b>Effect of Latex Film Distributions on Flexibility of Redispersible Polymer Powders Modified Cement Mortar Evaluated by SEM</b> <i>By: Mr Zhao Guorong, Tongji University, China</i>	<b>Use of Polishing Alumina as Flame Retardant in Orthophthalic Polyester Resin Matrix Composites</b> <i>By: Prof Jane Proszek Gorninski, Universidade Federal de Sao Paulo, Brazil</i>	<b>Restoration of Historic Concrete Structures with Modern Materials - A Case Study</b> <i>By: Mr Alexander Gypser, Bauhaus Universitat Weimar, Germany</i>

2.30 – 2.45 pm	<b>Strengthening of Column Stump Using Glass Fiber Composite Strengthening System</b> <i>By: Mr Lu Jin Ping, Admaterials Technologies Pte Ltd, Singapore</i>		<b>Serviceability Behavior of Reinforcement Concrete Beams with Polypropylene and Steel Fibers</b> <i>By: Dr Jakob Šušteršič, Institute for Research in Materials and Applications, Slovenia</i>
3.00 – 3.30 pm	<b>Coffee Break / Networking</b>		
3.30 – 5.30 pm	<p style="text-align: center;"><b>BREAKOUT SESSION 4: Polymers in Concrete – Concrete Polymer Composite (C-PC) (Venue: Changi 3, Level 4)</b></p> <p><i>Session Chairs: Mr Lu Jin Ping (Singapore) &amp; Prof Mariaenrica Frigione (Italy)</i></p>	<p style="text-align: center;"><b>BREAKOUT SESSION 5: Polymer Coatings and Polymer Reinforcement of Concrete (Venue: Kallang Room, Level 4)</b></p> <p><i>Session Chairs: Dr Chen En Yi (Singapore) &amp; Mr David Whitney (United States)</i></p>	<p style="text-align: center;"><b>BREAKOUT SESSION 6: Polymers for Repair of Concrete (Venue: Seletar Room 3, Level 3)</b></p> <p><i>Session Chairs: Mr Logendran Doraipandian (Singapore) &amp; Prof. Roslan Zainal Abidin (Malaysia)</i></p>
3.40 – 3.55 pm	<b>Chemical Resistance of Concrete-Polymer Composites – Comparison Based on Experimental Studies</b> <i>By: Dr Tomasz Piotrowski, Warsaw University of Technology, Poland</i>	<b>BFRP Bars as an Alternative Reinforcement of Concrete Structures - Compatibility and Adhesion Issues</b> <i>By: Prof Andrzej Garbacz, Warsaw University of Technology, Poland</i>	<b>A Functional Polymer Cement Mortar for Repair of Partially Damaged Asphalt Pavement</b> <i>By: Mr Susumu Shimizu, Chichibu Concrete Industry Co., Ltd, Japan</i>
3.55 – 4.10 pm	<b>Coefficient of Thermal Expansion of Polymer Concrete with Different Polymeric Binders</b> <i>By: Mr Kwan-Kyu Kim, Kangwon National University, South Korea</i>	<b>Comparison and Evaluation of Retrofitting Different Modes of Concrete Structures by FRP</b> <i>By: Dr Mehdi Shahraki, Islamic Azad University, Saravan, Iran</i>	<b>Application of Wedge Splitting Test for Evaluation of the Bond Strength in Repair System Alumina Cement Concrete vs. PCC Mortar</b> <i>By: Dr Bogumiła Chmielewska, Warsaw University of Technology, Poland</i>
4.10 – 4.25 pm	<b>Curing of Polymer-Cement Concrete – Search for a Compromise</b> <i>By: Prof Piotr Paweł Woyciechowski, Warsaw University of Technology, Poland</i>	<b>Economic Aspect of Hybrid Fiber Reinforced Composite</b> <i>By: Mr Dongyeop Han, Seoul National University, South Korea</i>	<b>Concrete Crack Repair with Polymer Modified Materials - The Need for Specialized Training of Applicators, Suppliers, Consultants and Clients</b> <i>By: Mr Jannes Bester, University of Johannesburg, South Africa</i>

<p><b>4.25 – 4.40 pm</b></p> <p><b>4.40 – 4.55 pm</b></p> <p><b>4.55 – 5.10 pm</b></p>	<p><b>Determination of Polymer Type and Content in Concrete Materials by FTIR and TGA</b>  <i>By: Ms Joyce Lim, Shimadzu (Asia Pacific) Pte Ltd, Singapore</i></p> <p><b>Development and Application of PIC Form</b>  <i>By: Mr Kenji Okamoto , Materras Oume Concrete Industry Ltd, Japan</i></p> <p><b>Hard and Soft: Toughening Concrete by Impregnation with Functional Elastomers</b>  <i>By: Prof Oliver Weichold, Institut für Bauforschung (ibac), Germany</i></p>	<p><b>Improvement of the Adhesion between Epoxy-Based Surface Coating and Hydrophobic Impregnated Concrete</b>  <i>By: Mr Shinsuke Kumagai, Public Works Research Institute, Japan</i></p> <p><b>Influence of Film Thickness and Ambient Temperature to the Protective Performance of Surface Coating Material</b>  <i>By: Mr Hiroki Sakuraba, Public Works Research Institute, Japan</i></p>	<p><b>Concrete Crack Repair with Polymer Modified Mortars: The Status Quo in the South African Construction Industry and the Way Forward</b>  <i>By: Mr Deon Kruger, University of Johannesburg, South Africa</i></p> <p><b>Use of Polymer for Rehabilitation of Uneven Settlement in Concrete Roadbed Slabs of Tunnels</b>  <i>By: Mr Liu Jing, Railway Engineering Research Institute of China Academy of Railway Sciences, China</i></p>
<p><b>6.15 – 7.00 pm</b></p> <p><b>7.00 – 10.00 pm</b></p>	<p><b>ICPIC 2015 WELCOME DINNER</b>  <b>Venue: Atrium Ballroom, Level 4</b></p> <p><b>Registration / Cocktail Reception</b></p> <p><b>Banquet Dinner</b></p>		

**OCTOBER 21, 2015 (WEDNESDAY)**

<b>8.30 – 9.00 am</b>	Registration  <b>Keynote Sessions Venue: Atrium Ballroom, Level 4</b>
	<b>Session Chairs: Dr Wong Sook Fun (Singapore) , Prof. Dionys Van Gemert (Belgium)</b>
<b>9.00 – 9.20 am</b>	<b>Keynote Session 7: Monitoring Fatigue Damage in Polymer Concrete using Carbon Nanotubes</b> <i>By: ACI Ambassador -Professor Mahmoud Reda Taha, University of New Mexico</i>
<b>9.20 – 9.40 am</b>	<b>Keynote Session 8: Use of Polymers to Enhance Concrete Performance</b> <i>By: Professor Lech Czarnecki, Warsaw University of Technology, Poland</i>
<b>9.40 – 10.00 am</b>	<b>Keynote Session 9: Status of Research and Application of Concrete-Polymer Composites in China</b> <i>By Professor Ru Wang, Tongji University, China</i>
<b>10.00 – 10.20 am</b>	<b>Keynote Session 10: Mechanical Behaviour of Engineered Cementitious Composites under Quasi-Static and High Strain Rate Applications</b> <i>By: Professor Tan Kang Hai, Nanyang Technological University, Singapore</i>
<b>10.20 – 10.50 am</b>	<b>Coffee Break / Networking</b> <b>Venue: Atrium Restaurant, Level 4</b>
	<b>Session Chairs: Prof Tan Kang Hai (Singapore) &amp; Prof. Mahmoud Reda Taha (United States)</b>
<b>10.50 – 11.10 am</b>	<b>Keynote Session 11: Influence of Re-Dispersible Powders on Very Early Shrinkage in Functional Mortars</b> <i>By: Professor Thomas Bier, Technische Universität Bergakademie Freiberg, Germany</i>
<b>11.10 – 11.30 am</b>	<b>Keynote Session 12: The Effect of Nano-Silica Particles on Fresh and Hardened State Properties of Polymer Cement Mortars</b> <i>By: Prof Dr Hulusi Ozkul, Istanbul Technical University, Turkey</i>
<b>11.30 – 11.50 am</b>	<b>Keynote Session 13: Recent Development and Application of Polymer Concrete in Singapore</b> <i>By: Dr Tao Nengfu, Singapore Polytechnic, Singapore</i>

<b>11.50 – 1.20 pm</b>	<b>Lunch</b>		
<b>1.20 – 3.00 pm</b>	<p align="center"><b>BREAKOUT SESSION 7: Use of Polymers to Enhance Concrete Performance (Venue: Changi 3, Level 4)</b></p> <p><i>Session Chairs: Dr Jiang Jia Biao (Singapore) &amp; Prof Thomas Bier (Germany)</i></p>	<p align="center"><b>BREAKOUT SESSION 8: Use of Polymers in Green Building Materials (Venue: Kallang Room, Level 4)</b></p> <p><i>Session Chairs: Ms Li Wei (Singapore) &amp; Dr Bogumiła Chmielewska (Poland)</i></p>	<p align="center"><b>BREAKOUT SESSION 9: Use of Polymers in Sustainable Construction and Development (Venue: Atrium Ballroom, Level 4)</b></p> <p><i>Session Chairs: Dr Tao Nengfu (Singapore) &amp; Mr Deon Kruger (South Africa)</i></p>
<b>1.30 – 1.45 pm</b>	<p><b>Effect of Epoxy Resin on the Microstructure and Properties of Oil Well Cement Pastes</b> <i>By: Ms Yue Lei, Tsinghua University, China</i></p>	<p><b>Effect of Perlite Waste Powder on Chemical Resistance of Polymer Concrete Composites</b> <i>By: Prof Paweł Łukowski, Warsaw University of Technology, Poland</i></p>	<p><b>Longitudinal Thermal Movement of Polymer Concrete Irrigation Aqueducts</b> <i>By: Prof Jung Heum Yeon, Gachon University, South Korea</i></p>
<b>1.45 – 2.00 pm</b>	<p><b>Testing and Specification of Polymer Concrete Materials in Singapore</b> <i>By: Mr Lu Jin Ping, Admaterials Technologies Pte Ltd, Singapore</i></p>	<p><b>Interactions between Non-Ionic Additives and Cement Phases</b> <i>By: Mrs Ulrike Schirmer (representation for Prof Andrea Osburg), Bauhaus Universitat Weimar, Germany</i></p>	<p><b>Performance of a Fly Ash Geopolymeric Mortar for Coating of Ordinary Portland Cement Concrete Exposed to Harsh Chemical Environments</b> <i>By: Dr José B Aguiar, University of Minho, Portugal</i></p>
<b>2.00 – 2.15 pm</b>	<p><b>Innovative Applications of Steel Fibres on Composite Beam with Profiled Plain Concrete Flange Subjected to Combined Negative Bending and Axial Tension</b> <i>By: Mr Mahesan Bavan, National University of Malaysia, Malaysia</i></p>	<p><b>Influence of Superplasticizers on the Properties of Lightweight Mortar Plaster Made with Recycled Polymers</b> <i>By: Prof Javier Garabito, University of Burgos, Spain</i></p>	<p><b>Restoration of Glass Panel – Reinforced Concrete Grillage Roof Shell of Ensor Gallery in Ostend (B)</b> <i>By: Prof Sven Ignoul, Triconsult nv, Belgium</i></p>
<b>2.15 – 2.30 pm</b>	<p><b>Properties of VA/E/MMA Terpolymer Powder-Modified Mortars</b> <i>By: Ms Sunhee Hong, Kyoto University, Japan</i></p>	<p><b>Interaction of Polymer Latexes: Adsorption and Film Formation</b> <i>By: Dr. Joerg Nieberle, BASF Advanced Chemicals Co. Ltd</i></p>	<p><b>Strength and Sulfuric Acid Resistance of Three Component Geopolymer</b> <i>By: Dr Hiroki Goda, Kyushu Institute of Technology, Japan</i></p>
<b>2.30 – 2.45 pm</b>	<p><b>The Performance of Low Air-Entraining Polycarboxylate Superplasticizer</b> <i>By: Mr Li Nan, Jiangsu Arit New Materials Co Ltd, China</i></p>	<p><b>Manufacture of High-Performance Concrete Made with Powdered Polyester Resin Waste and Carboxylic-Ester Based Superplasticizer</b> <i>By: Prof Javier Garabito, University of Burgos, Spain</i></p>	<p><b>Utilization of Fly Ash with Higher Loss on Ignition for Geopolymer Mortar</b> <i>By: Prof Yasutaka Sagawa, Kyushu University, Japan</i></p>

<b>3.00 – 3.30 pm</b>	<b>Coffee Break / Networking</b>		
<b>3.30 – 5.30 pm</b>	<p><b>BREAKOUT SESSION 10: Polymers in Concrete - Concrete Polymer Composite (C-PC) (Venue: Changi 3, Level 4)</b></p> <p><i>Session Chairs: Dr Arvind K Suryavanshi (Singapore) &amp; Professor Ru Wang (China)</i></p>	<p><b>BREAKOUT SESSION 11: Polymer Coatings and Polymer Reinforcement of Concrete (Venue: Kallang Room, Level 4)</b></p> <p><i>Session Chairs: Mr Joseph Lim (Singapore) &amp; Prof Makoto Kawakami (Japan)</i></p>	<p><b>BREAKOUT SESSION 12: Polymers for Repair of Concrete (Venue: Atrium Ballroom, Level 4)</b></p> <p><i>Session Chairs: Dr Tao Nengfu (Singapore) &amp; Prof Andrzej Garbacz (Poland)</i></p>
<b>3.40 – 3.55 pm</b>	<p><b>Comparative Study on the Elastic Modulus of Polymer Concrete</b> <i>By: Mr Kwan-Kyu Kim, Kangwon National University, South Korea</i></p>	<p><b>Advanced Active Prestressed CFRP in RCC Structures</b> <i>By: Dr. Gopal L Rai, R &amp; M International Pvt Ltd, India</i></p>	<p><b>Analytical Model for Assessing Reinforced Beams</b> <i>By: Mr Rodrigo Henrique Ruschel, Universidade Santa Cecilia, Brazil</i></p>
<b>3.55 – 4.10 pm</b>	<p><b>New Applications for Polymer Overlays</b> <i>By: Mr David Whitney, The University of Texas at Austin, United States</i></p>	<p><b>Evaluation of Coating Properties Produced with Polyester Resins and Industrially Processed Components</b> <i>By: Prof Jane Proszek Gorninski, Universidade Federal de Sao Paulo, Brazil</i></p>	<p><b>Efficient Repair of Crack in SFRC with Low-Viscosity Epoxy Adhesive</b> <i>By: Dr Jakob Šušteršič, Institute for Research in Materials and Applications, Slovenia</i></p>
<b>4.10 – 4.25 pm</b>	<p><b>Polymers in Concrete – The Shielding against Neutron Radiation</b> <i>By: Dr Tomasz Piotrowski, Warsaw University of Technology, Poland</i></p>	<p><b>Fiber Reinforced Polymers in Civil Engineering: Durability Issues</b> <i>By: Prof Mariaenrica Frigione, University of Salento, Italy</i></p>	<p><b>Sprayed Polymer Concrete for the Rehabilitation of Sewage Systems</b> <i>By: Mr Robert Schulte Holthausen, Institut für Bauforschung, Germany</i></p>
<b>4.25 – 4.40 pm</b>	<p><b>Study on Crack Bridging Ability of Polymer-Modified Cement Based Compounds for Waterproofing Material</b> <i>By: Ms Zhao Hong, Tongji University, China</i></p>	<p><b>Innovative Applications of Steel Fibres in Concrete Flange of Composite Beam Subjected to Combined Negative Bending and High Axial Tension</b> <i>By: Mr Mahesan Bavan, National University of Malaysia, Malaysia</i></p>	<p><b>Tensile Properties of Polymer Repair Materials - Effect of Test Parameters</b> <i>By: Mr Kamil Załęgowski, Warsaw University of Technology, Poland</i></p>
<b>4.40 – 4.55 pm</b>	<p><b>The Properties of Polymer-Modified Mortars Using Pozzolana Active Admixtures</b> <i>By: Assoc Prof Nikol Žižková, Brno University of Technology, Czech Republic</i></p>	<p><b>Sustainable Mortars with Incorporation of Microencapsulated Phase Change Materials</b> <i>By: Dr José B Aguiar, University of Minho, Portugal</i></p>	<p><b>The Need to Uplift Quality Control and Quality Assurance for Specialized Concrete Crack Repair in the South African Construction Industry</b> <i>By: Mr Jannes Bester, University of Johannesburg, South Africa</i></p>