

43rd Conference on
OUR WORLD IN CONCRETE & STRUCTURES
 29-31 August 2018, Goodwood Park Hotel, Singapore

Preliminary Conference Programme

Wed, 29 Aug 2018 (Early Registration and Welcome Reception for Speakers)	
1700	Early Registration & Cocktails Venue: Lounge @ NUSS Guild House, Level 2, Tower 5, Suntec City Mall, Singapore
1830	Chairman's Dinner (By Invitation only: Steering Committee, Keynote Speakers and Invited Guests) Venue: Bistro @ NUSS Guild House
Thur, 30 August 2018 (Day 1)	
0800	Registration at Goodwood Park Hotel, Windsor Ballroom Foyer
0900	43rd OWICS Conference Opening Emcee: Er Yogesh Chhabra
	<ul style="list-style-type: none"> Welcome Address by Conference Honorary Chairman, Dr C T Tam, and Co-chairman, Dr Teng Hooi Tan Congratulatory messages
0915	Conference Lecture, dedicated to Mark Sarkisian, Skidmore, Owings & Merrill LLP Chair: Dr Teng Hooi Tan OWICS Conference Co-chairman, Singapore
	Speaker: Er Mark Sarkisian, PE, SE, LEED, Skidmore, Owings & Merrill, USA "Inventing Concrete Systems for Structures of the Future"
1015	Morning Refreshments
1030	Special Session on "Challenges and Innovations in Concrete Tall Buildings" Chair: Er Neville Mathias, SOM, USA and Dr Elena Mola, ECSD S.r.l., Italy
	Lead Paper: Prof Dasui Wang, East China Architectural Design & Research Institute, China "The Analysis and Design of a Triple High-Rise Tower – Nanjing Golden Eagle Plaza" Speakers: <ol style="list-style-type: none"> 1. Dr James Aldred, Concrete Future Pvt Ltd, Australia "Thermal Control of Massive Concrete Rafts" 2. Dr John Kilpatrick, RWDI, Canada "Designing High Performing Super-Tall Concrete Buildings to Resist Wind" 3. Er Ahmad Abdelrazaq, Samsung C&T Corp, Korea "Optimizing the Structural Design and Construction of Lakhta Center" 12:00 – 12:10 Question and Answer <ol style="list-style-type: none"> 4. Dr Goman Ho, Arup, Hong Kong "Shaking Hands at High Level - Chongqing Raffles City" 5. Dr Sam Lee, Guangzhou University, China "A Modified Mode Damping Model For Explicit Dynamic Analysis Of Building Structure" 6. Professor Franco Mola, ECSD S.r.l, Italy "Interaction problems in outrigger structural systems subject to torsional effects" 7. Er Zhaofan Li and Joanna Zhang, SOM LLP, China "Innovation for Integration: Creative Structural Solutions for Tall Iconic Buildings" 13:10 – 13:15 Question and Answer

Thur, 30 August 2018 (Day 1) cont'

1315	Lunch	
1400	Keynote Session 1	Chair: Dr C T Tam, National University of Singapore, Singapore
	<p>Speakers:</p> <ol style="list-style-type: none"> Professor Tan Kang Hai, Nanyang Technological University, Singapore "Shear Behavior of Deep Precast/Prestressed Concrete Hollow Core Slabs at Ambient and under Fire Conditions" Professor Shoji Ikeda, Hybrid Research Institute, Japan "Prediction and Beyond-Prediction of Actions and Resistances in the Design of Concrete Structures" 	
1515	Afternoon Refreshments	
1530	Special Session on "Inspection, Appraisal, Repairs and Maintenance of Structures"	Chair: Dr T S Lok, Nanyang Technological University, Singapore
	<p>Lead Papers:</p> <ol style="list-style-type: none"> Er Yogesh Chhabra, Novaars International, Singapore "Advances in Structural Inspection Techniques" Dr Kuang Yak Lim, HDR Engineering, Inc, USA "Seismic Analysis, Design and Retrofit of Bridge Structures" <p>Speakers:</p> <ol style="list-style-type: none"> Dr Gopal Rai, DGC Infra. Pvt. Ltd, India "Retrofitting and Rehabilitation of Railway Bridge Using CFRP" Er Willie Kay, WAK Consultant, Singapore "Case Histories of Concrete Repair from 1967 – 2017" Dr Yoko Fukuoka, Kurabo Industries Ltd, Japan "Application of High Repeatability Infrared Thermography Inspection Method to Building Façade" Er Weng Khiong Fong, Ascent Facilities Engineering Pte Ltd, Singapore "Building Facade Inspections: Guidance and a Case Study" 	
1745	Adjournment of Day 1 Conference	
1900	<p>Conference Dinner Venue: Function Room @ NUSS Guild House, Level 2, Tower 5, Suntec City Mall *one-way transport from Goodwood Park Hotel to Suntec City Mall will leave at 6.15pm.</p>	
2100	End of Day 1	

Friday, 31 August 2018 (Day 2)

0830	Registration continues	
0900	Technical Session 1 – Construction Technology	Chair: Prof Franco Mola, Politecnico di Milano, Italy
	<p>Speakers:</p> <ol style="list-style-type: none"> Gary Connah, Halfen Moment Group, Singapore “Connections for prefabricated elements using concrete” Gary Connah, Halfen Moment Group, Singapore “Connecting to Eurocode – How to design connections using SS EN 1992-1-1 to reduce embodied CO2 and increase productivity” Ngoc Tuyen Nguyen Thi, FiCO Pan-United Concrete J.S.C, Vietnam & Singapore “High Performance Mix for Pumping up to the Height of 400m for Landmark 81 in Vietnam” Tomoyuki Oyake, Oriental Shiraishi Corporation, Japan “Self-elevating Sea Wall Constructed with Pneumatic Caisson Method” Koji Sakamoto, Hachinohe Institute of Technology, Japan “Influence of Member Height on Formation of Fragile Layer in side of Formwork” 	
1030	Morning Refreshments	
1100	Keynote Session 2	Chair: Prof Nobuaki Otsuki, Oriental-Shiraishi (OSJBHD cooperation), Japan
	<p>Speakers:</p> <ol style="list-style-type: none"> Prof Franco Mola, Politecnico di Milano, Italy “New Construction Ideas for Special Housing Complexes” Prof Sing Ping Chiew, Singapore Institute of Technology, Singapore “Design of High Strength Steel Reinforced Columns - A Eurocode 4” 	
1215	Lunch	
1315	Parallel Session	
	Technical Session 2A - Material	Technical Session 2B – Construction Design and Material
	Chair: Mr Kiat Huat Seow, BASF South East Asia Pte Ltd	Chair: Mr Jinping Lu, ACI-Singapore Chapter
	<p>Speakers:</p> <ol style="list-style-type: none"> Ryoji Sakurada, National Institute of Technology, Akita College, Japan “Ab-Initio Study on Hydraulic Activity of Belite” Kazuhito Niwase, National Institute of Technology, Hachinohe College “Compressive Strength of Cement Solid Form Mixed with Zeolite for Solidification of Cesium Adsorbed Zeolite” Yoko Ando, Taiheiyō Consultant Co. Ltd., Japan “Petrographic Observation and Evaluation of DEF in Concrete Using Fly Ash Cement” Yuji Mitani, Taiheiyō Singapore Pte Ltd, Singapore “Evaluation of Thermal Stress and DEF Risk of Concrete using Fly Ash Cement” 	<p>Speakers:</p> <ol style="list-style-type: none"> Takashi Misawa, Okumura Corporation, Japan “Experimental Study on Post-Installed Shear Reinforcement Using Rebar Headed with Anchor Plate” Shengxin Fan, Nanyang Technological University, Singapore “Behaviour of Reinforced Concrete Short Beams Subjected to Elevated Temperatures” Husain Al-Khariat, Kuwait University, Kuwait “Actual Compressive Strengths of Major Buildings Constructed in Kuwait in the 1970’s” Satoru Kobayashi, Kajima Technical Research Institute, Japan “Concrete Durability Enhancing Technique Using Mixed Silane and Siloxane Water Repellent Agent”

Friday, 31 August 2018 (Day 2) cont'

	Technical Session 2A - Material	Technical Session 2B – Construction Design and Material
	<p>5. Yohsuke Hara, Tokyo Cement Industrial Corporation, Japan “The Influence of Drying by Steam Curing and its Control”</p> <p>6. Bernard A. Zulu, Ashikaga Institute of Technology, Japan “Properties of Blast-Furnace Cement Concrete Subjected to Accelerated Curing”</p> <p>7. Liaqat Ali Qureshi, University of Eng. and Tech. Taxila, Pakistan “Sustainability in Concrete Construction by using Recycled Concrete as Coarse Aggregate”</p> <p>8. Alhagie Bakary CEESAY, Ashikaga University, Japan “Properties of Hardened Concrete Containing Recycled Roof Tile Aggregate”</p>	<p>5. P. Srinivasa RAO, JNTU College of Engineering College, Hyderabad, India “Flexural Behaviour of Copper Slag Reinforced Concrete Beams”</p> <p>6. DAS Mohd Areef, JNTU College of Engineering College, Anathapur, India “Behavioural Studies on Copper Slag Admixed Fibre Reinforced Concrete Slabs”</p> <p>7. E RIDENGAOQIER, Mie University, Japan “Study on Quality Evaluation of Porous Concrete Using Void Ratio Estimated by Ultrasonic Wave Velocity”</p> <p>8. Zilola KAMALOVA, Mie University, Japan “Construction of a Nonlinear Permeability Model of Porous Concrete and Drainage Simulation of Heavy Rain in a Residential Area”</p>
1530	Afternoon Refreshments	
1545	ACI Ambassador Lecture	Chair: Dr S F Wong, President, ACI-Singapore Chapter
	<p>Speaker: Er Andrew Taylor, KPFF Consulting Engineers “Review of the Development of the ACI 318 Building Code, and Key Updates to ACI 318-14”</p>	
1645	Closing Session	Chair: Dr Teng Hooi Tan, SUSS, Singapore
	<ul style="list-style-type: none"> • Closing Remarks by Conference Co-chair, Dr Teng Hooi Tan • Presentation of Awards to Highly Commendable Papers 	
1715	Adjournment of 43rd OWICS	

Note: The Organisers reserve the right to amend the programme as deem necessary without prior notice.