Tuesday, July 13

3:00-3:10 pm Detroit Time
Welcome from ACI Global Moderators Charles Nmai and Tony Nanni

3:10-4:00 pm Quebec Time / 3:10-4:00 pm Detroit Time
Co-Host: ACI Quebec and Eastern Ontario Chapter

Local Moderator
Pierre-Luc Fecteau, Eng., MSc, President of the ACI Quebec and Eastern Ontario Chapter

1st Speaker
Eric Samson, Eng., PhD, VP Engineering (co-authored by Richard Cantin, Project Director)
Optimizing the value of field data for concrete structure durability analyses

2nd Speaker
Benoit Fournier, Eng., PhD, Professor - Department of Geology and Engineering Geology, Laval University
Standardization efforts for testing procedures to evaluate potential reactivity in sulphide bearing aggregates

3:00-4:00 pm Colombia Time / 4:00-5:00 pm Detroit Time
Co-Host: ACI Colombia Chapter

Local Moderator
Gonzalo E Gallo, PhD, Director de la División de Estructuras Hidráulicas y Líneas de Transmisión, INGETEC, Colombia

1st Speaker
Carlos Arteta, Associate Professor, Universidad del Norte, ACI 318 Committee Member
Compressive strain capacity model for reinforced concrete boundary elements

2nd Speaker
German Hermida, PhD, Director Tecnico - Cemex, Colombia
Shrinkage Concrete, a Multivariable Analysis

4:00-5:00 pm Ecuador Time / 5:00-6:00 pm Detroit Time
Co-Host: ACI Ecuador Chapter

Local Moderator
Guillermo Loayza

1st Speaker
Pablo Andrade, UNICON, Ecuador CEO
Problems and solutions with high-strength concrete in Quito at 2800 meters above sea level

2nd Speaker
Mr. Diego Paredes, Civil Engineer, MBA, Independent Structural Expert and Project Consulting
Change of Structures Use – A Specific Case
**Tuesday, July 13**

5:00-6:00 pm Mexico City Time / 6:00-7:00 pm Detroit Time
Co-Host: ACI Central & Southern Mexico Chapter

Local Moderator
José Alfredo Rodríguez Campos, ME

1st Speaker
Alma Luisa Reyes Zamorano, MSc
Durable concrete in Mexico

2nd Speaker
Sergio Manuel Alcocer Martínez de Castro, PhD
ACI in Mexico and Latinamerica – possible futures

5:00-6:00 pm Guatemala City Time / 7:00-8:00 pm Detroit Time
Co-Host: Instituto del Cemento y del Concreto de Guatemala (ICCG)

Local Moderator
Xiomara Sapón-Roldán

1st Speaker
Luis Velásquez, Investigation and Development Center Manager of Cementos Progreso
LC3 Concrete experience in Guatemala

2nd Speaker
Plinio Estuardo Herrera Rodas, Concrete Research and Development Manager at Cementos Progreso
Opportunities for Technological Innovation in the Concrete Industry, Due to the Covid 19 Pandemic. The Guatemalan Experience

5:00-6:00 pm Hermosillo Time / 8:00-9:00 pm Detroit Time
Co-Host: ACI Northwest Mexico Chapter

Local Moderator
Arturo Gaytan Covarrubias, Sustainability and Innovation Manager

1st Speaker
Genaro Salinas, Independent Concrete Construction Consultant
Large Dimension Industrial Floor Slabs

2nd Speaker
Roberto Stark, President of Stark+Ortiz
The Influence of ACI in projects in Mexico and Latinoamerica

**Wednesday, July 14**

1:00-2:00 pm Auckland Time / 9:00-10:00 pm Detroit Time
Co-Host: Concrete NZ Learned Society (New Zealand)

Local Moderator
Nicholas Brooke, President - Compusoft Engineering Limited

1st Speaker
Ken Elwood, Professor of Structural Engineering - The University of Auckland
Hollow-core floors in earthquakes – assessment and retrofit

2nd Speaker
Tim Shannon, Technical Director - Lewis Bradford Consulting Engineers
Tūranga Library Christchurch – Concrete Innovations to Achieve Low Damage Seismic Design
Wednesday, July 14

Noon-1:00 pm Sydney Time / 10:00-11:00 pm Detroit Time
Co-Host: Concrete Institute of Australia (CIA)

Local Moderator
David Millar, Chief Executive Officer, Concrete Institute of Australia

1st Speaker
Shan Kumar, National President, Concrete Institute of Australia
Innovation inPrefab Concrete Construction

2nd Speaker
Rodney Paull, Technical Director & Durability Consultant–Materials Technology, GHD
International Update on Formal Durability Planning in Design, Construction and Operational Maintenance

Noon-1:00 pm Tokyo Time / 11:00 pm-Midnight Detroit Time
Co-Host: Japan Concrete Institute (JCI)

Local Moderator
Prof. Mitsuyoshi Akiyama, Waseda University

1st Speaker
Prof. Ippei Maruyama, Nagoya University
Impact of drying on structural performance of reinforced concrete members

2nd Speaker
Prof. Toshiharu Kishi, Institute of Industrial Science, University of Tokyo
Durability Design Method Considering Reinforcement Corrosion due to Water Penetration

1:00-2:00 pm Seoul Time / Midnight-1:00 am Detroit Time
Co-Host: Korea Concrete Institute (KCI)

Local Moderator
Ki Yong Ann – Hanyang University

1st Speaker
Dong Joo Kim – Sejong University
Review on rate sensitive fiber-matrix interfacial properties

2nd Speaker
Dr. Sukhoon Pyo – Ulsan National Institute of Science and Technology (UNIST)
Rheological properties of cement binder for pervious concrete

1:00-2:00 pm Shanghai Time / 1:00-2:00 am Detroit Time
Co-Host: ACI China Chapter

Local Moderator
Associate Professor Qian-Qian Yu

1st Speaker
Prof. Guang-Ming Chen
Finite Element Analyses of FRP-Strengthened RC Structures

2nd Speaker
Associate Professor Qian-Qian Yu
Durability of Concrete with CFRP wrapping Over Ten Years
Wednesday, July 14

2:00-3:00 pm Singapore Time / 2:00-3:00 am Detroit Time
Co-Host: ACI Singapore Chapter

Local Moderator
Dr. Lu Jin Ping, President, ACI Singapore Chapter

1st Speaker
Dr./Assistant Professor Geng Guoqing
Concrete Research in Singapore Context – Experience from NUS

2nd Speaker
Dr. Hongjian Du, Lecturer, Dept. of Civil+Environmental Eng., Nat. Univ. of Singapore.
Improving Concrete Construction Productivity and University Education by 3D Printing

2:00-3:00 pm Bangkok Time / 3:00-4:00 am Detroit Time
Co-Host: Thailand Concrete Association (TCA)

Local Moderator
Assoc. Prof. Thanakorn Pheeraphan (Pete)

1st Speaker
Prof. Dr. Somnuk Tangtermsirikul
Off-Spec Fly Ashes: Are they really useless?

2nd Speaker
Chalermwut Snguanyat
The First On-Site 3D Construction Printing in Thailand: SCG Co-Working Space

1:30-2:30 pm Mumbai Time / 4:00-5:00 am Detroit Time
Co-Host: ACI India Chapter

Local Moderator
Dr. Surendra Manjrekar Chairman+Managing Dir.-Sunanda Speciality Coatings Pvt. Ltd., Mumbai

1st Speaker
Mr. Venkataramana Heggade, CEO, STUP Consultants
Introspection on recent failures of precast segmental bridges during construction in India

2nd Speaker
Mr. Pramod Ahuja, Director (Works), Metro PIU, Mumbai Metropolitan Region Development Authority
Measures to increase durability on Mumbai Metro Rail project to meet the design life requirement of concrete in severe coastal climate.

1:00-2:00 pm Dubai Time / 5:00-6:00 am Detroit Time
Co-Host: ACI UAE Chapter

Local Moderator
Ihab Bassiouni, Principal Studies Engineer at Dubai Municipality

1st Speaker
Ahmad Khartabil, Technical Manager at Transgulf Readymix
Sustainable Green Concrete in UAE and the Impacts of Incorporating Recycled Aggregate on its Fresh, Rheological, Mechanical & Durability Properties

2nd Speaker
Haider Al Haidary, Project Executive at MEET
MEET 3D Concrete Printing
Wednesday, July 14

1:00-2:00 pm Baghdad Time / 6:00-7:00 am Detroit Time
Co-Host: ACI Iraq Chapter

Local Moderator
Dr. Ali N. Attiyah

1st Speaker
Dr. Maan S. Hassan
Concrete Quality Control and Troubleshooting in Hot Weather

2nd Speaker
Dr. Ahmed Salih Mohammed
Artificial neural network (ANN), M5P-tree, and regression analyses to predict the early age compression strength of concrete modified with DBC-21 and VK-98 polymers

1:00-2:00 pm Alexandria Time / 7:00-8:00 am Detroit Time
Co-Host: ACI Egypt Chapter

Local Moderator
Prof. Nasser Darwish, Concrete Structures & Bridges, Alexandria University

1st Speakers
Dr. M. Nasser Darwish, Prof. of Concrete Structures & Bridges, Alexandria University
Lessons Learned & Challenges—Old & Existing RC Buildings: Averting A Structural Disaster – Faults, Experience & Lessons

1st Speakers
Dr. Ashraf El-Zanaty, Prof. of Concrete Structures, Cairo University
Lessons Learned & Challenges—Old & Existing RC Buildings: Case Study—Strengthening of a RC Building

2nd Speakers
Dr. Amr Abd El-Rahman, Prof. of Concrete Structures, Ain Shams University
Challenges in New RC Buildings Design: Applications of Post-Tensioned Slabs in Egypt

2nd Speakers
Dr. Tarek K. Hassan, Prof. of Concrete Structures, Ain Shams University; Head of Structural Design Unit, Dar El Handasah Egypt
Challenges in New RC Buildings Design: Challenges Facing Structural Design of Tall Buildings in Egypt – The Iconic Tower

2:00-3:00 pm Rome Time / 8:00-9:00 am Detroit Time
Co-Host: ACI Italy Chapter

Local Moderator
Luigi Coppola, President, ACI Italy Chapter; Professor, University of Bergamo

1st Speaker
Paolo Riva - Professor
HPFRC in Seismic Retrofitting of Existing Concrete Structures

2nd Speaker
Paolo Casadei Eng - Sireg
An Italian perspective of non-metallic reinforcement: strengthening and seismic upgrade with FRP and FRCM composite materials and GFRP rebars
Wednesday, July 14

3:00-4:00 pm Lausanne Time / 9:00-10:00 am Detroit Time
Co-Host: Fédération internationale du béton (fib)

Local Moderator
Dr. ir. Agnieszka Bigaj - van Vliet, Senior Scientist, TNO | Netherlands Organization for Applied Scientific Research

1st Speaker
Luc Taerwe, Emeritus Professor, Ghent University
Resilient Concrete Structures in a Digitalized World

2nd Speaker
Dr. ir. Agnieszka Bigaj - van Vliet & Motohiro Ohno, Assistant Professor, The University of Tokyo
fib Model Code 2020 – shift towards harmonized approach to design and life cycle management of sustainable concrete structures

4:00-5:00 pm Oslo Time / 10:00-11:00 am Detroit Time
Co-Host: Norwegian Concrete Association (NCA)

Local Moderator
Cecilie Hagby

1st Speaker
Kjell Skjeggerud, Head of Development Heidelberg Cement
The Worlds First Cement Carbon Capture Facility at Norcem Brevik cement plant—making concrete a zero emission building material

2nd Speaker
Erik Stormyr, Project Manager Hywind Tampen
Building Hywind Tampen, the World’s largest floating offshore wind farm

5:00-6:00 pm Madrid Time / 11:00 am-Noon Detroit Time
Co-Host: Asociación Española de Ingeniería Estructural (ACHE)

Local Moderator
Dr. Antoni Cladera, Civil Engineer, Vice-president of ACHE and Professor at the University of Balearic Islands

1st Speaker
Belén González-Fonteboa
Sustainable cement-based materials to build the future

2nd Speaker
Héctor Bernardo
Challenges in the construction of singular concrete structures for the 21st century

5:00-6:00 pm London Time / Noon-1:00 pm Detroit Time
Co-Host: Institute of Concrete Technology (ICT)

Local Moderator
Professor P. A. Muhammed Basheer

1st Speaker
Professor Kevin Paine
Autonomic self-healing concrete: A resilient material for life

2nd Speaker
Barry Gilroy
Delivering more sustainable concrete through accelerated carbonation curing
**Wednesday, July 14**

**2:00-3:00 pm Sao Paulo Time / 1:00-2:00 pm Detroit Time**
Co-Host: Instituto Brasileiro do Concreto (IBRACON)

**Local Moderator**
Ing. Prof. Cesar Henrique Sato Daher, M.Sc. - IBRACON International Relationships Director

**1st Speaker**
Ing. Julio Timerman - IBRACON 1st Vice-President Director
SIRIUS, Accelerating the Future of Brazilian Science

**2nd Speaker**
Ing. Prof. Enio Pazini Figueiredo - IBRACON 2nd Vice-President Director
Maracana for the 2014 World Cup and Olympics 2016: The largest work of rehabilitation of reinforced concrete structures in the world

**2:00-2:50 pm Santiago Time / 2:00-2:50 pm Detroit Time**
Co-Host: Instituto Chileno del Cemento y del Hormigón (ICH)

**Local Moderator**
Augusto Holmberg, General Manager ICH

**1st Speaker**
Mario Lafontaine, Partner and Director for New Technologies at Rene Lagos Engineers
The quest for resilience: The Chilean practice of seismic design for reinforced concrete buildings

**2nd Speaker**
Juan Pablo Covarrubias (Jr), General Manager TCPavements
Pavements with Optimized Slab Geometry: Lessons Learned from 15 Years of Performance

**2:50-3:00 pm Detroit Time**
Closing remarks from ACI Global Moderators Charles Nmai and Tony Nanni