

Thursday, October 1st

Sessions "S": Sustainability; "D": Durability

9:00 Registration

9:30 Opening Ceremony

Prof. Roberto REALFONZO

ACI Italy Chapter President

Prof. Ivano DIONIGI

Rector of the University of Bologna

Prof. Alberto MONTANARI

Head of Department of Civil, Chemical, Environmental, and
Materials Engineering (DICAM) - University of Bologna

Greetings from city delegate

Municipality of Bologna

10:00 Session S1 - Chairman Prof. Mario A. Chiorino

Keynote Lecture:

**From the "old" to a "new" construction industry-
sustainability design of structures**

Koji SAKAI

Representative, Japan Sustainability Institute

Honorary Professor of The University of British Columbia

ID 24 - Alternative Cementitious Materials: Challenges And Opportunities

L. E. Burris, P. Alapati, K. E. Kurtis

ID 26 - Green Concrete: Optimization Of High-Strength Concrete Based On LCA

C. Dossche, V. Boel, W. De Corte, N. De Belie

ID 64 - Use Of Recycled Glass As Partial Replacement Of Natural Sand In Tile Adhesive Mortars

L. Fagandini, G. Mailli, L. Barbieri

ID 86 - Analyzing Factors Of Variability In Energy-Use In Concrete Production

S. Fujimoto

11:30 Coffee Break

12:00 Session S2 – Chairman Prof. Luigi Coppola

Keynote Lecture:

Building toward a sustainable and resilient future

Julie BUFFENBARGER

Lafarge

Chair of ACI Committee 130 "Sustainability of Concrete"

ID 41 - Mechanical And Environmental Performances Of Sulpho-Based Rapid Hardening Concrete

D. Sirtoli, P. Riva, S. Tortelli, M. Marchi, R. Cucitore

ID 25 - Lightweight Cementitious Mortar Made With Foamed Plastic Waste Aggregates

B. Coppola, L. Di Maio, L. Courard, P. Scarfato, L. Incarnato

**ID 42 - FRCM Mechanical Properties Using Carbon Fabrics
With Different Coating Treatments**

J. Donnini, V. Corinaldesi, A. Nanni

**ID 84 - Sustainability And High-Performance Of Concrete
– A Review**

T. R. Naik, F. Canpolat, G. Moriconi

13:30 Lunch Buffet

14:30 Session D1 - Chairman Prof. Tarun Naik

Keynote Lecture:

New trends in service life design

Giuseppe MANCINI

Department of Structural, Geotechnical and Building
Engineering, Politecnico di Torino

ID 54 - Natural Carbonation Of Concrete

F. Aguayo, T. Drimalas, K. Folliard

ID 29 - Self Healing Of Cement Based Materials

**Engineered Through Crystalline Admixtures:
Experimental Results From A Multinational University
Network**

*L. Ferrara, I. Albertini, R. Gettu, V. Krelani, S. Moscato, F.
Pirritano, M. Roig Flores, P. Serna Ros, S. M. Theeda*

**ID 52 - Action Mechanisms And Performances Of
Hydrophobizing Additives In Mortars**

A. Lagazzo, S. Vicini, A. Nora, R. Botter

**ID 50 - Self-Consolidating Concrete With C&DW:
Microstructure And Long-Term Behavior**

S. Manzi, C. Mazzotti, M. C. Bignozzi

**ID 79 - Safety-Shaped Concrete Bridge Railings And Traffic
Barriers Using GFRP Reinforcement**

V. Rinaldi, M. Savoia, A. Nanni

**ID 74 - AIJ guideline for production and construction
of recycled aggregate concrete**

Takafumi Noguchi

16:30 Coffee Break

17:00 Session D2 - Chairman Dr. Nicola BURATTI

**ID 85 - Analysis And Rehabilitation Of A R.C. High-Rise
Strategic Building In Milan**

*M. Acito, F. Cavagnera, C. Chesì, V. Lavermicocca, V.
Sumini*

**ID 70 - The Durability Of Restoration Of Exposed
Concrete. Case Histories Compared**

F. Albani

**ID 31 - Internal Curing Of Concrete With Presaturated
LWA: A Preliminary Investigation**

L. Ferrara, L. Cortesi, O. Ligabue

**ID 71 - Indirectly-Supported One-Way R/C Slabs:
Durability And Safety Issues**

P. G. Gambarova, F. Lo Monte

**ID 47 - Extruded Cementitious Hollow Tubes For Healing
Agent Delivery**

A. Formia, P. Antonaci, S. Irico, F. Canonico, J.-M. Tulliani

ID 59 - Durability And Conservation Of Twentieth-Century Concrete

C. Di Biase

Session S3 - Chairman Dr. Patricia KARA

ID 87 - Rheological And Mechanical Performances Of Concrete Manufactured By Using Washing Water Of Concrete Mixing Transport Trucks

L. Coppola, S. Lorenzi, S. Pellegrini

ID 58 - A Sustainable And Innovative Construction System

G. Bregoli, A. Madini Moretti, M. Parolari, P. Riva, M. Santicoli

ID 23 - Improving The Practice Of Maintenance Planning In Italy

C. Zampighi

ID 49 - Analysis Of A Jointless Floor With Calcium Sulpho-Aluminate And Portland Cement

Reggia, S. Tortelli, M. Marchi, M. Borsa, G. Plizzari

ID 83 - Greener concrete using post-consumer products

T. R. Naik, R. Kumar, G. Moriconi

ID 51 - Chloride Diffusivity Of Hardened Cement Paste From Multiscale Modeling

P. Carrara, L. De Lorenzis, T. Wu

18:30 Closing of the 1st Day

Friday, October 2nd

9:30 **Session D3 - Chairman Prof. Marco Savoia**

Keynote Lecture:

Prediction of service life of reinforced concrete by considering the initiation and the propagation periods

Carmen ANDRADE PERDIX

Institute of Construction Sciences “Eduardo Torroja” - CSIC

ID 94 - Use Of Recycled Aggregate And Expanded Clay For Self-Compacting Lightweight Aggregate Concretes

V. Corinaldesi, G. Moriconi

ID 30 - Natural Fibres As Promoters Of Autogeneous Healing In HPFRCCS: Results From On On-Going Brazil-Italy Cooperation

L. Ferrara, S. R. Ferreira, V. Krelani, M. Della Torre, F. Silva, R. D. Toledo Filho

ID 40 - Time-Variant Structural Reliability Of R.C. Structures Affected By Chloride-Induced Deterioration

B. Palazzo, P. Castaldo, A. Mariniello

ID 33 - Durability And Sustainability Of Fly Ash Hpc Exposed To Freeze-Thaw Cycles

A. Pasqualini, M. Bressan, F. M. Liberatore

ID 68 - Geopolymeric And Cementitious Mortars With The Same Mechanical Strength Class: Performances And Corrosion Behaviour Of Black And Galvanized Steel Bars

A. Mobili, C. Giosuè, A. Belli, T. Bellezze, F. Tittarelli

11:15 **Coffee Break**

11:45 Session S4 - Chairman Prof. Giacomo Moriconi

Keynote Lecture:

Structural Concrete in the Epoch of Sustainable Development

Vyacheslav FALIKMAN

Moscow State University of Civil Engineering (MSUCE)
Head of Structural Concrete Durability Department at the
Scientific Research Institute for Concrete and Reinforced
Concrete, Russia

ID 73 - TRC Precast Façade SANDWICH Panel For Energy Retrofitting Of Existing Buildings

G. Colombo, M. Colombo, M. Di Prisco

ID 61 - Self Compacting Light-Weight Concretes With Ground Bottom Ash From Municipal Solid Waste Incinerators (MSWI)

S. Collepardi, A. Borsoi, M. Collepardi, A. Quadrio Curzio

ID 38 - Towards Sustainability Of Concrete Without Chloride Limits

F. Selicato, M. Moro, L. Bertolini, A. Nanni

ID 63 - The Encore Project: Sustainable Solutions For Cementitious Materials

*E. Martinelli, J. A.O. Barros, G. Etse, L. Ferrara, P. C. Folino,
E. A.B. Koenders, R. D. Toledo Filho*

ID 48 - Fly Ash Geopolymers: Effect Of Admixtures On Fresh And Hardened Properties

L. Carabba, S. Manzi, M. C. Bignozzi

13:30 Lunch Buffet

14:30 Session D4 - Chairman Prof. Paolo Riva

Keynote Lecture:

Durability of concrete subjected to high temperature fields: continuum and discrete constitutive approaches

Guillermo ETSE

CONICET, Faculty of Exact Sciences and Technology,
National University of Tucuman

ID 69 - Damage Model For RC Elements Assessment Under Environmental Degradation

L. Berto, H. Budelmann, I. B. N. Finozzi, A. Saetta, D. A. Talledo

ID 43 - A Physically-Based Conceptual Approach For Designing RAC Mixtures

M. Pepe, R. Dias Toledo Filho, E. Koenders, E. Martinelli

ID 44 - Strength And Durability Of Sustainable Concrete: An Experimental Study

C. Faella, C. Lima, E. Martinelli, M. Pepe, R. Realfonzo

ID 60 - Effect Of Waste Fibers On The Mechanical Properties Of Concrete

D. Hamzacebi, O. Sengul

ID 45 - Design Of High Performance Concrete With Environmental Benefits

P. Kara, G. Moriconi

16:15 Coffee Break

16:45 Concluding remarks - Chairman Prof. Luigi Coppola

17:15 Closing of the 2nd day

18:30 Visit at Kerakoll Green Lab

20:30 Workshop Dinner (hosted by Kerakoll)

Saturday, October 3rd

9:00 Departure from Bologna to Milan
Visit to the [Expo 2015](#)