SUNDAY, MAY 3, 2015

2:00 – 4:00 P.M. Registration – Crowne Plaza Hotel – Seattle, Washington, U.S.A.
4:00 - 6:00 P.M. Welcome Reception
Hosted by ICMA & Executive Board Members

MONDAY, MAY 4, 2015

8:00 – 9:00 A.M. Registration – Crowne Plaza Hotel – Seattle, Washington, U.S.A.

9:00 – 9:10 A.M. Welcome Address
Arturo G. Nisperos
ICMA General Chairman

9:10 – 9:30 A.M. Remarks
Jim Borgen
Vice President Sales & Marketing
Lehigh Cement - Washington
Keynote Speaker

9:30 – 9:40 A.M. Program Introduction
Herbert Poellmann
Program Committee Co-Chairman

9:40 – 10:20 A.M. VALIDATION OF AN AUTOMATED SCANNING ELECTRON MICROSCOPY (SEM) TECHNIQUE FOR THE CHARACTERIZATION OF CEMENTS

Benjamin E. Watts, Christopher C. Ferraro
Engineering School of Sustainable Infrastructure & the Environment
University of Florida, Gainesville, Florida, U.S.A.

April Snyder and C.M. Hefferan
RJ Lee Group
Monroeville, Pennsylvania, U.S.A.

H.D. Deford
Florida Dept. of Transportation, Gainesville, Florida, U.S.A.
10:20 – 10:50 A.M.  KILN FEED BURNABILITY REEXAMINED

Donald Broton and Sang-Yun Lee
CTL Group
Skokie, Illinois, U.S.A.

10:50 – 11:05 A.M.  BREAK

11:05 – 11:35 A.M.  APPLICATION OF ALKALINE EARTH CHLOROACETATES FOR THE SETTING CONTROL OF CALCIUM ALUMINATE CEMENTS

Ronny Kaden and Herbert Poellmann
Martin Luther University
Department of Mineralogy & Geochemistry
Halle (Saale), Germany

11:35 – 1:00 P.M.  LUNCH BREAK

1:00 – 5:00 P.M.  BUS TOUR TO FAMOUS LANDMARKS AND INTERESTING SITES OF THE CITY OF SEATTLE, WASHINGTON, U.S.A.

5:00 – 6:00 PM  END OF TOUR, RETURN TO CROWNE PLAZA HOTEL

TUESDAY, MAY 5, 2015

8:00 – 9:00 A.M.  REGISTRATION & WELCOME

9:00 – 9:10 A.M.  INTRODUCTION OF EXHIBITORS
Kristen Freeman
Exhibitors Committee Co-Chairman

9:10 – 12:00 NOON  PANEL DISCUSSION – CEMENT & CLINKER

Topic: “RIETVELD QXRD ON CEMENT CLINKER AND BLENDED CEMENTS”

Dr. Karen Luke – Workshop Coordinator
Panelists:

- Dr. Luciano Gobbo – Panalytical, Sao Paolo, Brazil: “XRD with Cluster Analysis on the Evaluation of Portland Cement with Additions.”
- Dr. Prof. Gilberto Artillo – University of Padua, Padova, Italy: “Quantitative Rietveld Phase Analysis in Cement: Advantages and Pitfalls.”

12:00 Noon – 1:00 P.M.  LUNCH BREAK

1:00 – 1:30 P.M.  PETROGRAPHIC EVALUATION OF CONCRETE FROM DAISAN KAIHO (SEA FORT NO. 3) AT TOKYO BAY, DEMOLISHED ABOUT 80 YEARS AFTER COMPLETION

T. Katayama, Y. Ando, S. Hirono, N. Tsukamoto, N. D. Sawsaki, K. Mukai Taiheiyo Consultant Co. Ltd.
Sakura, Japan

T. Noguchi
Tokyo Bay Waterway Office
Kanto Regional Development Bureau, MLIT
Tokyo, Japan

1:30 – 2:00 P.M.  MICROSCOPIC CHARACTERIZATION OF CRYSTALLINE AND AMORPHOUS VARIETIES OF $\text{SiO}_2$ EXHIBITING DIFFERENT ASR POTENTIAL

Aneta Kucharova, Sarka Sachlova, Zdenek Pertold, Richard Prikry Charles University in Prague, Faculty of Science Institute of Geochemistry, Mineralogy and Mineral Resources Praha, Czech Republic

Jens Gotze
TU Bergakademie Freiberg, Institute of Mineralogy Freiberg, Germany
2:00 – 2:30 P.M.   **THAUMASITE SULFATE ATTACK: CASE STUDIES AND IMPLICATIONS**

Hugh Hou, Laura J. Powers, John Lawler, & Koray Tureyen
Wiss, Janney & Elstner, Associates, Inc.
Northbrook, Illinois, U.S.A.

2:30 – 2:45 P.M.   **BREAK**

2:45 – 3:15 P.M.   **FROST RESISTANCE AND MICROSTRUCTURE OF SLAG CEMENT CONCRETE: A CASE STUDY**

Peter Laugesen
Pelcon Materials & Testing ApS
Ballerup, Denmark

3:15 – 3:45 P.M.   **DETERMINATION OF WATER TO CEMENTITIOUS (W/CM) BINDER RATIOS BY THE USE OF THE FLUORESCENT MICROSCOPY TECHNIQUE IN HARDENED CONCRETE SAMPLES: PART IV**

Ted Sibbick, Steve Garrity, and Callie LaFleur
W.R. Grace & Co.
Cambridge, Massachusetts, U.S.A.

3:45 – 4:15 P.M.   **FROM QUARRY TO STRENGTHS: HOW COMPOSITION OF RAW MEAL AFFECTS CLINKIER QUALITY AND CEMENT ADDITIVES FORMULATION**

P. Forni, M. Magistri, A. Lo Presti, D. Salvioni
MAPEI, S.p.A., R&D Central Laboratory
Milan, Italy

4:15 – 4:45 P.M.   **INFLUENCE OF CURING ON SULFATE ATTACK OF CEMENT-LIMESTONE BASED PASTE AT LOW TEMPERATURE**

Liangwei Lou, Yongjiang Xie, Changhua Zhu, Xinhua Zhong
Railway Engineering Research Institute
China Academy of Railway Sciences
(State Key Laboratory for Track Technology of High-Speed Railway)
Beijing, China

4:45 – 5:15 P.M.   **INVESTIGATION OF THE INTERFACIAL TRANSITION ZONE OF LIGHTWEIGHT AGGREGATE AND RICE HUSK ASH USED AS PHASES CHANGE MATERIAL CARRIERS**
Naser P. Sharifi, and Aaron R. Sakulich  
Department of Civil and Environmental Engineering  
Worcester Polytechnic Institute  
Worcester, Massachusetts, U.S.A.

Madison G. Blanchard  
Department of Civil Engineering  
Wentworth Institute of Technology  
Boston, Massachusetts, U.S.A.

WEDNESDAY, MAY 6, 2015

9:00 – 9:05 A.M.  
WELCOME

9:05 – 9:35 A.M.  
MICROSTRUCTURAL CHARACTERIZATION OF WELLBORE CEMENT SHEATH UNDER HIGH TEMPERATURE AND PRESSURE

Ruixuan Guo, Kolawole Bello, Mileva Radonjc  
Craft & Hawkins Dept. of Petroleum Engineering  
Louisiana State University  
Baton Rouge, Louisiana, U.S.A.

9:35 – 10:05 A.M.  
TECHNICAL ASPECT OF ADOBE STONE RESTORATION OF THE HISTORIC MANILA CATHEDRAL (ESTABLISHED IN 1581), PHILIPPINES

Teresito B. Malicse, Gilbert B. Balin, and Iren A. Busbus  
Tertex International Phils, Inc.  
Makati, Metro Manila, Philippines

Maria Bernardita M. Reyes  
Conservation Consultant, Benoel Art Conservation Services and University of Santo Tomas  
Manila, Philippines

Melvin A. Patawaran  
Principal Architect  
Tropiks Design Studio  
Manila, Philippines

10:05 – 10:20 A.M.  
BREAK

5
10:20 – 11:00 A.M.  INVESTIGATION OF SELF-HEALING REBAR COATINGS FOR REINFORCED CONCRETE

Chris Xia, Yixi Chen, Amy Peterson
Department of Chemical Engineering
Worcester Polytechnic Institute
Worcester, Massachusetts, U.S.A.

Nicolas Rice, Nicholas Smith, Aaron R. Sakulich*
Department of Civil and Environmental Engineering
Worcester Polytechnic Institute
Worcester, Massachusetts, U.S.A.

11:00 – 11:30 A.M.  INVESTIGATION OF FLY ASH ACTIVATION WITH CHEMICAL ADDITIVES: INTERACTIONS WITH PORTLAND CEMENT HYDRATION

P. Forni, M. Magistri, A. Lo Presti, D. Salvioni
Mapei, S.p.A., R & D Central Laboratory
Milan, Italy

11:30 A.M. – 1:00 P.M.  LUNCH BREAK

1:00 P.M. – 4:30 P.M.  PANEL DISCUSSION: CONCRETE
Topic: “MICROBIAL SELF-HEALING OF CONCRETE
Dr. Karen Luke – Workshop Coordinator

Panelists:


• Dr. Paramita Mondal – Univ. of Illinois at Urbana-Champaign, U.S.A.: “Effect of Calcium Source on Microbial Self-Healing Concrete.”

• Dr. Raissa Ferron – Univ. of Texas, Austin, Texas, U.S.A.: “Self-Repairing Concrete: Approaches and Challenges to Bio-Based Concrete Remediation.”

5:00 P.M.  End of Panel Discussion
6:00 – 8:00 P.M.  ICMA HOSTED RECEPTION  
Crowne Plaza Hotel – Downtown Seattle, Washington, U.S.A.

THURSDAY, MAY 7, 2015

9:00 - 9:05 A.M.  WELCOME

9:05 – 9:35 A.M.  DEVELOPMENT OF RELATIONSHIP BETWEEN CLINKER PHASE COMPOSITION, POROSITY AND BOND WORK INDEX

K. Suresh, A. Sadangi, M. Kuchya, R.M. Sahu, S. Chowdhury
Central Research & Development
Ultra Tech Cement Ltd.
Aditya Birla Science & Technology Center
Mumbai, India

9:35 – 10:05 A.M.  PETROGRAPHIC EXAMINATION OF MORTAR-LIKE SAMPLE FROM SITE NEAR ANCIENT RUINS OF QUMRAN, ISRAEL

Sang Y Lee
CTL Group, Skokie, Illinois, U.S.A.

10:05 – 10:35 A.M.  POROSITY MEASUREMENT OF HYDRATED OIL WELL CEMENTS

K. Luke, A. Torres and G. Quercia
Trican Well Service, Ltd.
Calgary, Alberta, Canada

10:35 – 10:50 A.M.  CLOSING REMARKS
Arturo G. Nisperos
ICMA General Chairman

11:00 A.M.  ADJOURNMENT

END OF TECHNICAL PRESENTATION OF PAPERS
SEE YOU IN 2016 (38TH) ICMA CONFERENCE
VENUE: TO BE ANNOUNCED IN THE WEBSITE
ICMA WEBSITE: WWW.CEMMICRO.ORG