

**TENTH INTERNATIONAL CONFERENCE
ON
SUPERPLASTICIZERS AND OTHER
CHEMICAL ADMIXTURES
IN CONCRETE**

**TENTATIVE
PROGRAM**

**October 28 – 31, 2012
PRAGUE MARRIOTT HOTEL
PRAGUE, CZECH REPUBLIC**

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**October 28 – 31, 2012
PRAGUE MARRIOTT HOTEL
PRAGUE, CZECH REPUBLIC**

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Carmel Jolicoeur
Université de Sherbrooke
QC, CANADA

MONDAY, OCTOBER 29, 2012
OPENING CEREMONY
08:25 – 08:30

INTRODUCTORY REMARKS
V.M. Malhotra, Chairperson
Committee for the Organization of International Conferences

OPENING SESSION
08:30 - 10:00

Chairperson: *To be Announced*

- **A Novel PCE Possessing Silyl Functionalities**
J. Plank, J. Witt, F. Von Hoessle, Technische Universität München, Garching, GERMANY
- **Shrinkage Reducing Agents in Self-Compacting Concrete: Mode of Action and Performance**
C. Jolicoeur, M.I. Apaya, J. Sharman, N. Mikanovic, R. Gagné, K. Khayat, Université de Sherbrooke, CANADA
- **Modification of the Compressive Strength Requirements for the ASTM C494 Standard on Chemical Admixtures**
A. A. Jeknavorian, P. Press, W.R. Grace & Co., U.S.A.
- **Study on working Mechanism of PCE**
T. Hirata, Nippon Shokubai Co. Ltd, JAPAN
A. Lange, Technische Universität München, GERMANY

COFFEE BREAK
10:00 - 10:30

MONDAY, OCTOBER 29, 2012
SESSION 2
10:30 – 12:00

Chairperson: (*To be Announced*)

- **Compatibility between Polycarboxylate-Based Superplasticizers and Viscosity-Modifying Admixtures in Cement Pastes**
M. Palascios, R.J. Flatt, Institute of Building Materials, SWITZERLAND
F. Puertas, Eduardo Torroja Institute, SPAIN
J. Sanchez-Herencia, Instituto de Ceramica y Vidrio, SPAIN
- **Assessment of Cement-Superplasticizer Compatibility**
J. Custódio, S. Coelho, J. Catarino, A.B. Ribeiro, Laboratório Nacional de Engenharia Civil (LNEC) PORTUGAL
- **Study on the Compatibility of PCE with Raw Materials of Concrete**
Z.M. Wang, X. Liu, X. Cheng, College of Materials and Engineering University of Beijing, CHINA
M. Danzinger, T. Guo, Sika China Group, CHINA
- **Thixotropy and Viscosity of UHPC: Effect of Packing Density and Superplasticizer Molecular Structure**
O. Mazanec, D. Lowke, C. Gehlen, Technische Universität München, GERMANY
- **Incompatibility Issues between Superplasticizers and Wastepaper Sludge Ash Used as an Alternative Cementitious Material**
N. Mikanovic, T. Davidendo, A. Xie, A. Tagnit-Hamou, Université de Sherbrooke, CANADA
- **Effects of Calcium Carbonate Based Aggregates on Alkali Free Accelerators**
C. Maltese, M. Stefanoni, C. Pistolesi, D. Salvioni, A. Bravo, F. Cella, T. Cerulli, E. Dal Negro, Mapei S.p.A. ITALY

LUNCH
12:00 – 13:30

MONDAY, OCTOBER 29, 2012
SESSION 3
10:30 – 12:00

Chairperson: (*To be Announced*)

- **Study on the Interaction of Na-Montmorillonite Clays with Polycarboxylate Based Superplasticizers**
J. Plank, M. Glanzer-Heinrich, T. Hirata, I. Mintova, S. Ng,
Technische Universität München, GERMANY
- **Preparation and Application of Super Accelerative and Anti-Freezing Polycarboxylate Superplasticizer**
Y. Wang, X. Zhang, F. Xiao, Q. Wang, T. Lu, Shandong
Provincial Academy of Building Research, CHINA
- **Understanding the Effectiveness Polycarboxylates as Grinding Aids**
R. Flatt, ETHZ, SWITZERLAND
R. Mishra, H. Heinz, University of Akron, U.S.A.
J. Zimmermann, I. Schober, Sika Technology A.G.,
SWITZERLAND
- **Performance of Polycarboxylate Type Superplasticizers in the Presence of Fines and Clay**
F. Wombacher, C. Bürge, A. Peter, Sika Technology AG,
SWITZERLAND
W. Lopez, Sika Mexicana, MEXICO
- **PCE Adsorption and C₃A Effect of Crystallinity and Polymorphism**
F. Puertas, M.M. Alonso, Eduardo Torroja Institute for
Construction Science, SPAIN
- **Formation and Destabilization of Organo-Aluminate Phases**
J.-B. d’Espinose de Lacaillerie, C. Giraudeau, H. Van Damme,
ESPCI, FRANCE
A. Nonat, Institut Carnot de Bourgogne, FRANCE
R.J. Flatt, Sika Technology AG, SWITZERLAND

LUNCH
12:00 – 13:30

MONDAY, OCTOBER 29, 2012
SESSION 4
10:30 – 12:00

Chairperson: (*To be Announced*)

- **Recent Developments in ASTM Standards Specifications and ACI Guide documents for Chemical Admixtures**
C. Nmai, B. Violetta, BASF Corporation, U.S.A.
- **Fluidity Quality Change of Cement During Transportation Processes from Plants to Delivery Centers**
K. Yamada, H. Ozu, T. Miyago, T. Okamura, M. Ichikawa,
Taiheiyo Cement Corp. JAPAN
- **Breaking the Limits of Slump Retention**
D. Platel, J.-M. Suau, O. Guerret, Coatex SAS, FRANCE
- **Mock-up Tests for a Self-Flowing Underwater Concrete Plug**
N. Hasan, URS-Engineering and Construction, U.S.A.
- **Characterization of Colored Self-Compacting Concretes**
V. Corinaldesi, S. Monisi, Università Politecnica delle Marche,
ITALY
- **Epoxy Formulations for the Repair and Coating of Concrete**
F. Medici, G. Rinaldi, M. Scarsella, University of Roma, ITALY

LUNCH
12:00 – 13:30

MONDAY, OCTOBER 29, 2012
SESSION 5
13:30 – 15:00

Chairperson: (*To be Announced*)

- **The Influence of Admixtures on Relationship between the Frost Resistance and Parameters of Porosity of SCC**
B. Łaźniewska-Piekarczyk, Silesian University of Technology, POLAND
- **The Effect of Cement Composition on the Compatibility of NSF and PCE Superplasticizers**
L. Coppola, S. Lorenzi, A. Buoso, University of Bergamo, ITALY
- **The Adsorption of Superplasticizers on Cement Particles and its Relation with its Dispersibility**
Z.M Wang, Y.L. Wang, K. Zhang, Beijing University of Technology, CHINA
- **Study on Workability and Volume Stability of ACC with Viscosity Modifying Admixtures Used in Turnover Area of High Speed Railway Slab Ballastless Track**
L. Huajian, X. Yongjiang, T. Yanbin, Y. Zhonglai, China Academy of Railway Science, CHINA
- **Effectiveness and Optimization of Superplasticizer Admixtures for Self-Consolidating Concrete**
R.E. Rodriguez-Camacho, G. Martinez Corona, R. Uribe Afif, Cemex MEXICO
- **Working Mechanisms of Air-Entraining Admixtures and their Subsequent Activation Potential**
E. Eickschen, Research Institute of the Cement Industry, GERMANY

COFFEE BREAK
15:00 - 15:30

MONDAY, OCTOBER 29, 2012
SESSION 6
13:30 – 15:00

Chairperson: (*To be Announced*)

- **Analogies and Differences between Carboxylic-Based and Phosphorous-Based Superplasticizers**
M. Bellotto, G. Bozzetto S.p.A., ITALY
- **The Application of Slump-Retaining Polycarboxylate Superplasticizer in Moderate or Low Fluidity Concrete**
D.L. Zhou, Q.P.Ran, M. Qiao, J.P Liu, C.W. Miao, Jiangsu Academy and Jiangsu Bote, CHINA
- **Influence of Temperature on the Effectiveness of Stabilizing Agents in Flowable Cementitious Systems with and without Polycarboxylate Ether Superplasticizers**
W. Schmidt, BAM Federal Institute for Materials Research and Testing, GERMANY
- **Intercalation of PCE Superplasticizers into Calcium Aluminate Cement during Early Hydration**
J. Plank, M. Glanzer-Heinrich, T. Hirata, I. Mintova, S. Ng, Technische Universität München, GERMANY
- **Effect of Temperature on the Flowability of Concrete with Polycarboxylate Superplasticizers**
Y. Wang, X. Zhang, G. Cai, L. Guo, Y. Liu, Shandong Provincial Academy of Building Research, CHINA
- **Experimental Evaluation of a New Phosphonate-Based Superplasticizer for Concrete**
L. Coppola, S. Lorenzi, A. Buoso, University of Bergamo, ITALY

COFFEE BREAK
15:00 - 15:30

MONDAY, OCTOBER 29, 2012
SESSION 7
13:30 – 15:00

Chairperson: (*To be Announced*)

- **The Efficiency of Superplasticizers in Mixed-Type Binder Systems**
I. Papayianni, F. Karkantelidou, Aristotle University Thessaloniki, GREECE
- **How Polymer Design Can Control Air-Entrained Concrete?**
D. Platel, J.-M. Suau, O. Guerret, Coatex SAS, FRANCE
- **Influence of Different Admixtures on the Strength of Two-Stage (Pre-Placed Aggregate) Concrete**
H. S. Abdelgader, A.S. El-Baden, Al-Fatch University, LIBYA
- **Effects on In-Transit Addition of Superplasticizers**
E.P. Koehler, M.F. Roberts, W.R. Grace & Co. U.S.A.
- **Anomalous Behavior of Water Reducers in Roller-Compacted Concrete**
C. Hazaree, Hindustan Construction Co. INDIA
H. Ceylan, K. Gopalakrishnan, P. Taylor, Iowa State University, U.S.A.
- **Admixtures for Shotcreting**
A.Vovk, Polyplast Novomoskovsk Ltd. RUSSIA

COFFEE BREAK
15:00 - 15:30

MONDAY, OCTOBER 29, 2012
SESSION 8
15:30 – 17:00

Chairperson: (*To be Announced*)

- **Estimating Yield Stress of Superplasticized Cement Paste at High Temperatures and Prolonged Mixing Using Oscillatory Rheology and Shear Flow Tests**
S. Al Martini, Abu Dhabi University, U.A.E.
M. Nehdi, University of Western Ontario, CANADA

- **Influence of Chemical Admixtures on the Performance of Concrete-Equivalent Mortars with Adapted Rheology**
N. Mikanovic, J. Pan, K. Khayat, Université de Sherbrooke, CANADA

- **Study on Relationships of Rheology between Mortar and Concrete with Different Admixtures**
L. Zhang, F. Zhu, Dow Chemical Co. Ltd., CHINA

- **Effects of VMA, Fly Ash and different Types of Filler on the Rheological Parameters of Cement Paste**
Y. Şahin, A. O. Kaya, H. Yildirim, Istanbul Technical University, TURKEY

- **Rheological and Mechanical Properties, Hydrate Phase and Pore Structure of Metakaolin-Based Concrete**
I. Janotka, Building Testing and Research Institute, SLOVAKIA
M. Križma, L. Bágel, Slovak Academy of Sciences, SLOVAKIA
M. Zajiček, Stachema, SLOVAKIA

- **Chemical and Physical Effects Viscosity-Modifying Admixtures on Stability and Rheology of Concrete Equivalent Mortar**
N. Mikanovic, A. Mechaymech, K. Khayat, Université de Sherbrooke, CANADA

MONDAY, OCTOBER 29, 2012
SESSION 9
15:30 – 17:00

Chairperson: (*To be Announced*)

- **Influence of Synthesis Method on the Polymer Composition and Architecture of PCE Superplasticizers**
J. Plank, M. Glanzer-Heinrich, T. Hirata, I. Mintova, S. Ng,
Technische Universität München, GERMANY
- **Tricalcium Aluminate Hydration with Several Fineness Values in Presence of a Polycarboxylate Admixture and Different Calcium Sulphate Sources**
C. A. Orozco, Cementos Argos, COLOMBIA
- **Adsorption Behavior of a Polycarboxylate Superplasticizer (PC) on Cement Particles**
Y. Zuo, J. Guo, Q. Xue, China Academy of Building Research,
CHINA
P. Zhao, Shijiazhuang Railway University, CHINA
- **Synthesis and Application of Polycarboxylate-Based Superplasticizers Grafted by New Functions with Low Sensitivity to Sulfate Ions**
W. Fan, N. Lequeux, F. Stoffelbach, J. Rieger, UMR, FRANCE
L. Regnaud, A. Vichot, CTG Italcementi, FRANCE
- **Interaction of Polycarboxylates Having Different Structures with One Clinker and Two Cements. A Case Study**
N. Zeminian, J. Roncero, S. Moro, R. Magarotto, BASF, ITALY
- **Effect of Polymer Structure on the Setting Behavior of Cement**
J. Zimmermann, L. Frunz, Sika Technology AG,
SWITZERLAND

MONDAY, OCTOBER 29, 2012
SESSION 10
15:30 – 17:00

Chairperson: (*To be Announced*)

- **SCC and HSC (75 Mpa) for a Massive Block Foundation**
P. Helene, C. Britez, Universidade de São Paulo, BRAZIL
J. Gadea, Pöyry Technologia, BRAZIL
- **SCC Stability Affected by Fillers and VMA**
Y. Peng, S Jacobsen, Norwegian University of Science and
Technology, NORWAY
H. Vikan, SINTEF, NORWAY
B. Pedersen, Norway Public Roads Administration, NORWAY
- **The Influence of Admixtures on Selected Properties and
Parameters on Porosity of SCC**
B. Łaźniewska-Piekarczyk, Silesian University of Technology,
POLAND
- **Compatibility of Different Types of Concrete Admixtures
Using Different Dosages**
S. A.M. Khafaga, S. M.A. Abd El-Baky, H. Z. El-Karmoty,
HBNRC, EGYPT
El-Sayed Abd El-Raouf Nasr, University of Egypt, EGYPT
H. Abd-El-Aziz, Civil Engineer, EGYPT
- **Compatibility between Blended Cements and
Superplasticizers Admixtures**
F. Puertas, P. Rivilla, O. Burgos-Montes, Eduardo Torroja
Institute for Construction Sciences, SPAIN
M. Palacios, Institute for Building Materials, SWITZERLAND
- **Influence of Portland Cement Clinker Grinding by Small
Addition of Additives**
O. Dumitrescu, M. Muntean, University Politehnica of Bucharest,
ROMANIA

TUESDAY, OCTOBER 30, 2012
SESSION 11
08:30 – 10:00

Chairperson: *(To be Announced)*

- **Compatibility of Cements Available in Northern Ireland and a Novel Superplasticizer Designed for Use in Self-Consolidating Concretes**
P.A. Muhammed Basheer, E. A. Jackson, J. Kwasny, Queen's University, IRELAND
M.J. Mathews, R. Gettu, Indian Institute of Technology, INDIA
- **Compatibility of Superplasticizers with Blended Cements**
O. Schwoon, Sika Services AG, SWITZERLAND
- **Parametric Analysis of Superplasticizer Behavior at the Cementitious Interface**
L. Ferrari, J. Kaufmann, F. Winnefeld, EMPA, SWITZERLAND
L. Ferrari, J. Plank, Technische Universität München, GERMANY
- **Study of the Relationship between the Adsorption Behavior of a Superplasticizer and its Workability Retention Performance**
N. Okauchi, D. Hamada, M. Okubo, S. Nakai, Kao Corporation, JAPAN
- **Phenomenological Estimation of Compatibility of Admixtures with Cements According to Isothermal Calorimetry**
A.Usherov-Marshak, Kharkov State Technical University of Civil Engineering and Architecture, UKRAINE
- **Compatibility of Superplasticizing Admixtures**
R. E. Rodriguez-Camacho, G. Martinez-Corona, R. Uribe-Afif, Cemex, MEXICO

COFFEE BREAK
10:00 – 10:30

TUESDAY, OCTOBER 30, 2012
SESSION 12
08:30 – 10:00

Chairperson: *(To be Announced)*

- **Fundamental Interactions between Multi-Wall Carbon Nanotubes (NWCNRs) and Polycarboxylate Superplasticizers in Cementitious Systems**
J. Plank, M. Glanzer-Heinrich, T. Hirata, S. Ng, Technische Universität München, GERMANY
- **The Influence of C₃A Content in Cement on the Hydration and Properties of Mortars Modified with EVA Redispersible Powders**
L. Kotwica, AGH University of Science and Technology, POLAND
- **The Formation of C-S-H Phases in the Aqueous Phase of C₃S-Pastes and the Role of Superplasticizers**
T. Sowoidnich, C. Rößler, H-M. Ludwig, Bauhaus Universität Weimar, GERMANY
A. Völkel, Universität Konstanz, GERMANY
- **Interaction between Calcium Sulfoaluminate Cement and Admixtures**
L. Regnaud, A. Vichot, B. Le Rolland, E. Borgarello, CTG Italcementi Group, FRANCE
- **A New Design Direction of a Superplasticizer Providing Robustness against Cement Variations**
D. Hamada, S. Dikty, F. Goeller, S. Nakai, KAO Corporation, JAPAN
- **Influence of Superplasticizers on the Contacts Contribution to Macroscopic Viscosity of Cement Pastes**
J. Hot, N. Roussel, Université Paris Est, FRANCE

COFFEE BREAK
10:00 – 10:30

TUESDAY, OCTOBER 30, 2012
SESSION 13
10:30 – 12:00

Chairperson: *(To be Announced)*

- **Interactions between Superplasticizers Based on Polycarboxylate Ether and Granulated Blastfurnace Slag, Limestone or Fly Ash as Main Constituents for Cement Replacement**
J. Rickert, Research Institute of the German Cement Industry, GERMANY
J. Hermann, Science Foundation of the German Cement Industry, GERMANY
- **Compatibility of a PCP Superplasticizer with Portland Cements Partially Replaced with Natural Pozzolana and Fly Ash**
M. Goisis, G. D'Ambrosio Italcementi, ITALY
M. Pesci, University of Milano Bicocca, ITALY
- **Chemical Activation of Metakaolin in Cement-Based Materials**
M. Cyr, M. Mouret, F. Saidat, Université de Toulouse, FRANCE
- **Hardening Accelerators for Fly Ash Blended Cement at Low Temperatures**
K. D. Hoang, R. Myrdal, H. Justnes, M. Rica-Geiker, Norwegian University of Science and Technology, NORWAY
- **Repulsion Forces of Superplasticizers on Alkali-Activated Slag Pastes – From AFM Measurements to Rheological Properties**
P. Bowen, M. Stuer, École Polytechnique Fédérale de Lausanne, SWITZERLAND
M. Palacios, Institute for Building Materials, SWITZERLAND
M. Kappl, J-J. Butt, Max Planck Institute for Polymer Research, GERMANY
C. Pecharromán, Materials Institute, SPAIN
U. Aschauer, Princeton University, U.S.A.
F. Puertas, Eduardo Torroja Instituto, SPAIN
- **Chemically Reactive Acrylic Superplasticizers**
G. Ferrari, Mapei, ITALY

LUNCH
12:00 - 13:30

TUESDAY, OCTOBER 30, 2012
SESSION 14
10:30 – 12:00

Chairperson: (*To be Announced*)

- **Interaction of Superplasticizers with Calcium Sulfoaluminate Cements**
F. Winnefeld, Empa, Swiss Federal Laboratories for Materials Science and Technology, SWITZERLAND
- **Control of Cement Hydration by Sodium Gluconate in Recycling System**
D. Atarashi, E. Sakai, Tokyo Institute of Technology, JAPAN
Y-J. Song, H& Tech Co. Ltd. JAPAN
T. Nishimura, Grace Chemical Kabushiki Kaisya, JAPAN
- **Optimization of Synthetic Structural Macrofiber Dosage in Tunneling Concrete on the Basis of the Type of Polycarboxylic Additive Employed**
G. Mantegazza, A. Gatti, N. Ursi, Ruredil S.p.A., ITALY
- **Effect of Amphoteric Comb-Like Copolymer Dispersant on Dispersability Retention of Cement Pastes**
Q. Ran, Jiangsu, C. Miao, J. Liu, Jiangsu Academy of Building Science Co. Ltd., CHINA
Y. Yang, D. Zhou, Jiangsu Bote New Materials Co. Ltd., CHINA
- **Cement-Superplasticizer Interactions: Choosing on Optimal Combination**
M. Pagé, Y. Dénomme, Handy Chemicals Ltd., CANADA
T.C. Tho, C. Jolicoeur, Université de Sherbrooke, CANADA
- **Influence of Mixing Conditions on Fresh and Hardened Properties of Concrete with Superplasticizers**
M. Santhanam, IIT Madras, INDIA

LUNCH
12:00 - 13:30

TUESDAY, OCTOBER 30, 2012
SESSION 15
13:30 – 15:00 PM

Chairperson: (*To be Announced*)

- **The Influence of High-Calcium Fly Ash on Effectiveness of Concrete Admixtures**
T. Ponikiewski, J. Golaszewski, Z. Giergiczny,
A. Kostrzanowska, M. Drewniok, G. Cygan, P. Miera, Silesian University of Technology, POLAND
- **Effect of Superplasticizer Type and Dosage on Setting, Heat Evolution, and Early Deformations of Cementitious Binder Systems**
W. Schmidt, H.C. Kuehne, B. Meng, BAM Federal Institute for Materials Research and Testing, GERMANY
J. Brouwers, Eindhoven Technical University, NETHERLANDS
- **Pozzolanic Reactivity of Supplementary Cementitious Materials under Hydrothermal Conditions**
P. S. Thomas, K. Vessalas, A.S. Ray, B. Liu, H. Connan, J.-P. Guerbois, C. Chessum, University of Technology, AUSTRALIA
- **The Curing Properties of Cementitious Materials with a Hydrogel**
K.C. Hsu, Y.C. Chen, K. C. Chu, National Taiwan Normal University, TAIWAN
- **Influence of the Nature of a Superplasticizer on the Rheology of Slag Cement Grouts**
A.Bali, R. Kettab, École Nationale Polytechnique, ALGERIA
A. Laichaoui, A. Mira University, ALGERIA
- **Study of Rheological Properties of Recycled Aggregate Concrete Developed Using Specific Superplasticizers**
S. Braymand, Université de Strasbourg, FRANCE
- **The Effect of Admixtures on the Packing Density and Rheological Characteristics of Cement Paste**
S. Grünewald, S.A.A. M. Fennis, J.A. Den Uijl, J.C. Walraven, Delft University of Technology, NETHERLANDS

LUNCH
12:00 - 13:30

TUESDAY, OCTOBER 30, 2012
SESSION 16
13:30 – 15:00

Chairperson: (*To be Announced*)

- **Rheology of Fresh Cement Paste with Superplasticizer and Nanosilica Admixtures Studied by Response Surface Methodology**
A.J. Faria Bombard, Universidade Federal de Itajubá, BRAZIL
- **Novel-Pyrolysis-Gas Chromatography /Mass Spectrometric Techniques for the Characterization of Chemical Additives in Portland Cement and Concrete**
A.A. Jeknavorian, Grace Construction Products, U.S.A.
E.F. Barry, University of Massachusetts, U.S.A.
- **Characterization of Superplasticizing Admixtures by the Studies of Pastes and Mortars**
G.Martinez- Corona, R.E. Rodriguez-Camacho, R. Uribe-Afif, Cemex, MEXICO
- **Role of the Structure of the PCP in the Relationship to Adsorption-Dispersion**
S. Pourchet, A. Nonat, D. Perrey, Laboratoire Interdisciplinaire Carnot de Bourgogne, France
F. D'Agosto, CPE, LCPP, France
D. Rinaldi, LCR Lafarge, FRANCE
- **Influence of Admixtures on Alkali-Silica Reactivity**
N. Ghafoori, M.S. Islam, University of Nevada, U.S.A.
- **Rape Seed Oil as a Hydrophobizing Agent for Concrete**
H. Justnes, SINTEF, NORWAY
- **A Novel Hardening Accelerator and its Performance with Different Cementitious Systems**
N. Zeminian, J. Roncero, S. Moro, R. Magarotto, BASF, ITALY

LUNCH
12:00 - 13:30

TUESDAY, OCTOBER 30, 2012
SESSION 17
15:30 – 17:00

Chairperson: (*To be Announced*)

- **On the Benefits of SRA for Wet-Cured Highly Blended Cementitious Materials**
A. Eberhardt, Sika Technology AG, SWITZERLAND
- **Effects of Superplasticizers Structure on the Performances of Portland-Based Cements**
P. Gronchi, A. Casali, L. Eusebio, Politecnico di Milano, ITALY
M. Goisis, G. Manganelli, Italcementi, ITALY
- **Combined Effects of Superplasticizer and Silica Fume on the Flowability and Cohesiveness of Mortars**
W.W.S. Fung, Sun Hung Kai Properties Ltd. HONG KONG
A.K.H. Kwan, J.J. Chen, University of Hong Kong, HONG KONG
P.L. Ng, Dragages Hong Kong Ltd., HONG KONG
- **Influence of Polysaccharides on Fresh Properties of Portland Cement-Based Mortars**
A.Govin, . T. Poinot, P. Grosseau, École Nationale Supérieure des Mines de Saint-Étienne, FRANCE
- **Hydration of Blended Cements in the Presence of a Calcium Lignosulfonate Admixture**
R. A. Lauten, Borregaard, NORWAY
K. Reknes, Borregaard S.E.A., SINGAPORE
S. Kalahasti, N. Shinde, Orkla India Cement & Concrete Laboratory, INDIA
- **Study of Heat and Microstructural Evolution of Blended Cements with Superplasticizing Additives**
G. Garcia-Guillén, L.Y. Gómez-Zamorano, Universidad Autónoma de Nuevo León, MEXICO

TUESDAY, OCTOBER 30, 2012
SESSION 18
15:30 – 17:00

Chairperson: (*To be Announced*)

- **A Parametric Study of the Potential of Calcium Nitrate to Counteract Polycarboxylic Superplasticizer Retardation**
K. Lesage, Ö. Cizer, L. Vandwalle, Reyntjens Lab, Dept. of Civil Engineering, K.U. Leuven, BELGIUM
B. Desmet, J. Vantomme, Royal Military Academy, BELGIUM
G. De Schutter, Ghent University, BELGIUM
- **Mechanical Properties of Mortars at Early Ages: Understanding the Role of the Latexes**
F. Dhaini, S. Pourchet, A. Nonat, Laboratoire Interdisciplinaire Carnot de Bourgogne, France
B. Ruot, L. Wiatt, Centre Scientifique et Technique du Bâtiment, FRANCE
- **The Effect of Water/Cement Ratio, Content of Selected Components and Superplasticizers on the Portland Cement Hydration**
P. Siler, J. Kratky, J. Havlica, J. Brandstetr, T. Opravil, F. Soukal, P. Ptacek, I. Kolarova, Brno University of Technology, CZECH REPUBLIC
- **Technical Exploitation of Cement/Superplasticizer Interactions**
A.-E. Desmotz, Axim, FRANCE
L. Regnaud, Italcementi, FRANCE
- **The Effect of Elevated Temperatures on the Fluidity of a Grout with an Admixture**
M.H. Adjoudj, K. Ezziane, Laboratoire Géomatériaux, UHB Chlef, ALGERIA
- **Measurement of Interparticular Forces Using the Colloidal Probe Technique: Influence of Superplasticizers**
C. Glotzbach, D. Stephan, M. Schmidt, University of Kassel, GERMANY

WEDNESDAY, OCTOBER 31, 2012
SESSION 19
8:30 – 10:00

Chairperson: (*To be Announced*)

- **Admixtures and Fibers for the Reduction of Potential for Cracking Due to Restrained Shrinkage**
K.H. Khayat, F. Kassimi, O. Bonneau, Université de Sherbrooke, CANADA
- **Development of a Low Shrinkage Concrete Using a High-Performance Shrinkage Reducing Admixture**
H.K. Lee, C.K. Park, S.H. Lee, Samsung C&T Corp. Building, KOREA
- **Synthesis and Performance of Shrinkage-Reducing Admixtures of Comb-Like Copolymer**
G. Nanxiao, Z. Jiangang, R. Qianping, M. Changwen, L. Jiaping, Jiangsu Bote New Materials Co. Ltd. and Jiangsu Academy of Building Science Co. Ltd., CHINA
- **Reducing Concrete Shrinkage by Aggregate Treatment with a Polymer Latex and Water Repellent**
W. Fung, University of Hong Kong, CHINA
H.H.C. Wong, MTR Corporation, CHINA
W.W.S. Fung, Sun Hung Kai Properties Ltd., CHINA
P.L. Ng, Dragages Hong Kong Ltd., CHINA
- **Fundamental Research on the Freezing and Thawing Resistance of the Concrete with Delay-Added Drying Shrinkage Reducing Agent**
M. Sugiyama, Hokkai-Gakuen University, JAPAN
- **Performance of Concrete Shrinkage Mitigation Admixtures under Simulated Field Conditions**
A.M. Soliman, N.L. Nehdi, University of Western Ontario, CANADA
- **Hydrolyzed Cornstarch as a Water Reducer and Retarder for Cement and Concrete**
R. Bian, Nanjing University, CHINA

COFFEE BREAK
10:00 – 10:30

WEDNESDAY, OCTOBER 31, 2012
SESSION 20
10:30 – 12:00

Chairperson: (*To be Announced*)

- **Unique Applications of an Innovative Workability-Retaining Admixture**
C. Nmai, BASF Corporation, U.S.A.
- **Aspects of Calcium Nitrate Replacing Gypsum as a Set Retarder of Portland Cement Clinker**
H. Justnes, SINTEF Building and Infrastructure, NORWAY
- **Accelerators for Blended Cements: New Approaches to Improve Strength Development**
F. Wombacher, C. Bürge, C. Kurz, B. Marazzani, Sika Technology AG, SWITZERLAND
- **An Innovative Admixture for Clinker Substitution with SCMs**
R. Magarotto, F. Moratti, N. Zeminian, S. Moro, BASF Construction Chemicals, ITALY
- **An Unusual Air-Entraining Admixture**
A. Vovk, Polyplast Novomoskovsk Ltd., RUSSIA
- **A Newly Designed Accelerator for Improvement of Early-Stage Strength of Blended Cements of Alternative Fillers**
Y. Yoshinami, T. Hamai, H. Kawakami, S. Nakai, Kao Corporation, JAPAN
- **A New Method for Measuring the Specific Surface Area of C₃A/CaSO₄ System in the Presence of Superplasticizers**
F. Dalas, A. Nonat, S. Pourchet, Laboratoire Interdisciplinaire Carnot de Bourgogne, France
D. Rinaldi, M. Mosquet, LCR Lafarge, FRANCE

LUNCH
12:00 – 13:30

WEDNESDAY, OCTOBER 31, 2012
SESSION 21
13:30 – 15:00

Chairperson: (*To be Announced*)

- **Synthesis Characterization and Dispersing Performance of a Novel Cycloaliphatic Superplasticizer**
J. Plank, L. Lei, Technische Universität München, GERMANY
- **Hardening Process in the Cement – Flubet Superplasticizer System**
M. Muntean, O. Dumitrescu, University Politehnica of Bucharest, ROMANIA
- **Temperature Sensitivity of the Expansion of A MgO Based Composite Expansive Agent**
Q. Tian, J. Liu, C. Miao, Jiangsu Academy of Building Science, CHINA
S. Zhang, F. Guo, Jiangsu Bote New Materials Co. Ltd., CHINA
- **Effect of Diutan Gums and Superplasticizers on the Rheology of Cement-Based Grouts**
M. Sonebi, J. Kwasny, Queens University of Belfast, IRELAND
- **Power-Ultrasound: an Effective Method to Reduce Superplasticizer Content of Concrete**
C. Roßler, S. Peters, M. Kraus, H.-M. Ludwig, Bauhaus University Weimar, GERMANY
- **Application of Calorimetry for Monitoring of the Superplasticizers and Secondary Raw Materials Influence on Cement Hydration**
P. Siler, J. Kratky, Brno University of Technology, CZECH REPUBLIC
N. De Belie, Ghent University, BELGIUM
- **Raman Spectroscopy: an Appropriate Technique for the Characterization of Superplasticizers**
M. Vega-Cañamares, S. Sánchez-Cortés, S. Martinez-Ramirez, Instituto de Estructura de la Materia CSIC, SPAIN

COFFEE BREAK
15:00 – 15:30

WEDNESDAY, OCTOBER 31, 2012
AWARDEES SESSION
15:30 – 17:00

Chairperson: (To be Announced)

<p>AWARDEES SESSION</p> <p>Papers by the Awardees to be Announced</p>

CLOSING REMARKS
17:00 – 17:05
V.M. Malhotra