

**THIRTEENTH INTERNATIONAL
CONFERENCE ON RECENT
ADVANCES IN CONCRETE
TECHNOLOGY AND
SUSTAINABILITY ISSUES**

**HOTEL INFORMATION,
REGISTRATION DETAILS AND
TENTATIVE PROGRAM**

**July 14-17, 2015
THE WESTIN HOTEL
OTTAWA, CANADA**

**THIRTEENTH INTERNATIONAL
CONFERENCE ON RECENT
ADVANCES IN CONCRETE
TECHNOLOGY AND
SUSTAINABILITY ISSUES**

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**July 14-17, 2015
THE WESTIN HOTEL
OTTAWA, CANADA**

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REGISTRATION FEE

For more details see the registration card:

Before June 1st, 2015	After June 1st, 2015
Developed Countries \$850 ^{.00} U.S.	\$950 ^{.00} U.S.
Students/Developing Countries \$500 ^{.00} U.S.	\$600 ^{.00} U.S.

COMBINED REGISTRATION FEE

The combined registration for both Advances in Concrete Technology Conference and Superplasticizer Conference will be:

Before June 1st, 2015	After June 1st, 2015
Developed Countries \$1,200 ^{.00} U.S.	\$1,300 ^{.00} U.S.
Students/Developing Countries \$700 ^{.00} U.S.	\$800 ^{.00} U.S.

The registration fee will include:

- Admission to all sessions and receptions
- Coffee breaks
- A printed copy of the conference proceedings
- A printed volume of the supplementary papers

ACCOMPANYING PERSON REGISTRATION FEE

\$150^{.00} U.S.

This includes admission to all receptions
and awards banquet.

CONFERENCE LANGUAGE

The language of the conference will be English.

No simultaneous translation will be available.

REGISTRATION DETAILS

Registration desk will open at the conference hotel at

14:00 on Monday, July 13, 2015

CONFERENCE OPENING

- The Advances in Concrete Technology opening session will be at 08:45, Tuesday July 14, 2015

REGISTRATION CANCELLATION FEE

Cancellations after July 1, 2015 will be subject to a cancellation fee of \$300.00 U.S.

HOTEL REGISTRATION INFORMATION

Room Type

Single: \$179^{.00} (Canadian) + 16% Tax

Double: \$219^{.00} (Canadian) + 16% Tax

Note: Hotel Room Rates Do Not Include Breakfast

Payment and Reservation Guarantee

Credit Card: Visa Amex Master Card

Reservation cut-off date:

June 10, 2015

FOR RESERVATIONS PLEASE CONTACT:

THE WESTIN HOTEL

11 Colonel By Drive, Ottawa, ON Canada

Toll free: 1-800-937-8461

or 1-613-560-7000

Or visit the HOTEL WEB SITE below to book, modify or cancel a reservation.

<https://www.starwoodmeeting.com/StarGroupsWeb/booking/reservation?id=1407234432&key=3B1C3CBC>

RECEPTION

Sponsored by Industrial Co-Sponsors

Monday, July 13, 2015

18:00 – 21:30

DINNER IN HONOUR OF

Ara Jeknavorian, U.S.A.

Harald Justnes, Norway

Ioanna Papayianni, Greece

Tuesday, July 14, 2015

19:00 – 21:00

Tickets: \$30^{.00} U.S.

POSTER PRESENTATIONS

**There will be a number of Poster Presentations
by Authors from Various Countries**

RECEPTION AND AWARDS BANQUET

Wednesday, July 15, 2015

18:30 – 22:00

AWARDEES

Silvia Collepari, Italy

Benoit Fournier, Canada

Doug Hooton, Canada

Ivan Janotka, Slovakia

Roberto Magarotto, Italy

Pierre -Claver Nkinamubanzi, Canada

Johann Plank, Germany

**The awards banquet will be followed by a
cultural event.**

Tickets: \$40^{.00} U.S.

TECHNICAL VISITS

Friday, July 16, 2015

14:00 – 17:00

**CANMET Exposure Site for
Long-term Performance of
Concrete Containing Reactive Aggregates**

and/or

National Research Council of Canada

Cost: \$25^{.00} U.S.

THIRTEENTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN
CONCRETE TECHNOLOGY AND SUSTAINABILITY ISSUES - JULY 14-17, 2015

(Please type or print clearly)

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Details of Registration Fees are on the reverse side of this card

Return card and fee to:
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**THIRTEENTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN
CONCRETE TECHNOLOGY AND SUSTAINABILITY ISSUES - JULY 14-17, 2015**

The conference registration fees will be:

	<u>Before</u> <u>June 1st 2015</u>	<u>After</u> <u>June 1st 2015</u>
<u>Delegates from developed countries</u> <i>(Recent Advances Conference only):</i>	\$850.00 US	\$950.00 US
Combined registration <i>(Advances and Superplasticizers Conferences):</i>	\$1200.00 US	\$1300.00 US
<u>Developing Countries/Students</u> <i>(Recent Advances Conference only):</i>	\$500.00 US	\$600.00 US
Combined registration <i>(Advances and Superplasticizers Conferences):</i>	\$700.00 US	\$800.00 US

Payment

- Check enclosed (make check payable to "Ottawa Conference 2015")
- Charge to my MasterCard / Visa only # _____

Signature: _____ Expiry date: _____
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Bank transfer: CIBC, 7250, boul. Taschereau, Suite 01, Brossard (QC) CANADA J4W 1M9

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TUESDAY, JULY 14, 2015
OPENING CEREMONY
08:45 – 09:00

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

OPENING SESSION
09:00 - 10:30

Chairperson: George Hoff
Hoff Consulting LLC, U.S.A.

Proceedings

- **Responsibility, Durability and Construction Requirements in ACI 318-14**
Terence C. Holland, Consultant, USA

Supplementary

- **Continuous Production Of Cementitious Material for 3D-Printing Applications**
Alban Debacker, Raphael Bourquin, Pascal Hebraud and Didier Lootens, Sika Technology, SWITZERLAND

Supplementary

- **New Cementing Materials-Sodium Silicate Activated Slag-Fly Ash Cement**
Natalie Lloyd, Curtin University, AUSTRALIA

Supplementary

- **Concrete Manufacturing by Means of Grinded Asphalt as Partial Replacement of Natural Aggregates**
Luigi Coppola , Alessandra Buoso and Sergio Lorenzi, University of Bergamo, ITALY

COFFEE BREAK
10:30 - 11:00

TUESDAY, JULY 14, 2015
SESSION 2
11:00 - 12:30

Chairperson: Per Jahren
P.J.Consult AS, NORWAY

- **Sustainability of the Global Cement Industry in the Era of Changing Climate**
P.K. Mehta, University of California Berkeley, USA

Supplementary

- **Towards a Sustainable Cement Industry**
Laurent Barcelo, Anik Delagrave, Marie-Andrée Guindon and Rob Shogren, Lafarge Canada Inc., CANADA
Bruce Blair, Lafarge North-America, USA

Supplementary

- **Concrete and Sustainability - A Wide Menu of Challenges**
Per Jahren, P.J.Consult AS, NORWAY

Proceedings

- **An Overview of ACI Report on High-Volume Fly Ash Concrete**
Harvey H. Haynes, Haynes & Associates, USA

Supplementary

- **Portland-limestone Cement, Structural Performance and Environmental Benefits**
Richard McGrath, Codes and Standards and Engineered Structures, CANADA

LUNCH
12:30 - 14:00

TUESDAY, JULY 14, 2015

SESSION 3

14:00 - 15:30

Chairperson: A.A.Ramezaniapour,
Amirkabir University of Technology, IRAN

Proceedings

- **Effect of Steam Curing on Mechanical Properties of Self-Compacting Concrete Containing Pozzolan**
A.A.Ramezaniapour and S.A.Ghahari, Amirkabir University of Technology, IRAN
A.M.Ramezaniapour, University of Tehran, IRAN
Kh.Esmaeili, Amirkabir University of Technology, IRAN

Supplementary

- **Self Consolidating Concrete (SCC) Incorporating High Volume of Industrial By-Products. Early and Long Term Deformations**
I. Papayianni, E. Anastasiou and M. Papachristoforou, Aristotle University of Thessaloniki, GREECE

Supplementary

- **Research on Plastic Deformation Behavior of Self-Compacting Concrete Used in CRTSIII Slab Ballastless Track**
Li Hua-jian, Tan Yan-bin, Xie Yong-jiang and YI Zhong-lai, China Academy of Railway Sciences, CHINA

Supplementary

- **Research on Properties of SCC used in Filling Layer of High Speed Railway Slab Ballastless Track**
Yanbin Tan, Huajian Li , Yongjiang Xie and Zhonglai Yi, China Academy of Railway Sciences, CHINA

COFFEE BREAK

15:30 - 16:00

TUESDAY, JULY 14, 2015

SESSION 4

16:00 - 17:30

Chairperson: Arezki Tagnit-Hamou

University of Sherbrooke, CANADA

Proceedings

- **Influence of Coal Mining By-Products on the New Blended Cements Properties**

M. Frías and O. Rodríguez, Eduardo Torroja Institute for Construction Sciences (IETcc-CSIC), SPAIN

R. García and R. Vigil, Autonomous University of Madrid, SPAIN

I.Vegas, Tecnalia, SPAIN, S. Martínez-Ramírez, Institute for the Structure of Matter (IEM-CSIC), SPAIN, L.

Férrnandez-Carrasco, Polytechnic University of Cataluña, SPAIN,

M.I. Sánchez de Rojas, Eduardo Torroja Institute for Construction Sciences (IETcc-CSIC), SPAIN

Supplementary

- **Use of Recycled Concrete Aggregates for Granular Base in Road Pavement Works**

Prabir K. Kolay and Pralendra Singh, Southern Illinois University, USA

Supplementary

- **Ceramic Waste as Coarse Aggregate for Recycled Concrete under Marine Environment**

C. Medina, Avenida de la Universidad, SPAIN, I.F.Sáez del Bosqueand, M. Frías, Eduardo Torroja Institute for Construction Science, SPAIN

C. Thomas and J.A. Polanco, University of Cantabria, SPAIN

M. I. Sánchez de Rojas, Eduardo Torroja Institute for Construction Science, SPAIN

Proceedings

- **Characterization of Concrete with Recycled Aggregates Produced from Returned Concrete**
Giorgio Ferrari, Alberto Brocchi, and Luca Torelli, Mapei SpA, ITALY
Gilberto Artioli, Michele Secco Luca Valentini and Maria Chiara Dalconi, University of Padua, ITALY

Proceedings

- **Flexural Crack Width of Reinforced Concrete Beams with Roof Tile Waste Aggregate**
M. M. Macharia, Y. Ogawa, K. Kawai and R. Sato, Hiroshima University, JAPAN
K. Yamaguchi, Ministry of Land Infrastructure, Transport and Tourism, JAPAN

WEDNESDAY, JULY 15, 2015

SESSION 5

09:00 – 10:30

Chairperson: Sulapha Peethamparan
Clarkson University, U.S.A.

Supplementary

- **Durability of Geopolymer Concrete – Field and Lab Observations for Aggressive Conditions**
Natalie Lloyd, Curtin University, AUSTRALIA

Supplementary

- **Effect of a Micro-Copolymer Addition in the Thermal Conductivity of Fly Ash Mortars**
J. K. Campos-Dimas, A. Durán-Herrera and P. Valdez-Tamez, Universidad Autónoma de Nuevo León, MEXICO
Dale P. Bentz, National Institute of Standards and Technology, USA

Supplementary

- **Development of Alkali-Activated Concrete for Structures – Mechanical Properties and Durability**
Vlastimil Bilek, ZPSV a.s., CZECH REPUBLIC
Jan Hurta, Technical University of Ostrava, CZECH REPUBLIC

Supplementary

- **Low Calcium Fly Ash Geopolymer Concrete Response to Fluid Transmission Processes from Long Term Durability**
D S Cheema and N A Lloyd, Curtin University, AUSTRALIA

COFFEE BREAK

10:30 – 11:00

WEDNESDAY, JULY 15, 2015

SESSION 6

09:00 – 10:30

Chairperson: Natalie Lloyd
Curtin University, AUSTRALIA

Proceedings

- **Reinforcement of Hollow Concrete Beams with FRP Bars Made from Recycled Materials**

Robert Thomas and Sulapha Peethamparan, Clarkson University, USA

Proceedings

- **Compatibility of Superplasticisers in Concrete with Mixed Recycled Aggregate**

C. Medina, Avenida de la Universidad, SPAIN, W. Zhu, University of the West of Scotland, UK

E.Asensio, I. Saez, M. Frías and M. I. Sánchez de Rojas, Eduardo Torroja Institute for Construction Science, SPAIN

Proceedings

- **Case Studies of CO₂ Utilization in Concrete**

Sean Monkman and Mark MacDonald, CarbonCure Technologies, CANADA

Supplementary

- **Oil Swellable Polymer Modified Cement Paste: Expansion and Crack Healing upon Oil Absorption**

Lu Zichen, Kong Xiangming, Yang Ruifang and Jiang Lingfei, Tsinghua University, P. R. CHINA

Supplementary

- **Method for Specifying Ductile Behavior of Polymer Modified CSA Cement Mortars**

Joshua V Brien, University of Kentucky, Lexington, USA

COFFEE BREAK

10:30 – 11:00

WEDNESDAY, JULY 15, 2015

SESSION 7

11:00 - 12:30

Chairperson: R. Doug Hooton

University of Toronto, CANADA

Proceedings

- **The Influence of New Metal Silicate Hydrate Admixture on Concrete Strength and Durability**
Giorgio Ferrari, Vincenzo Russo, Davide Salvioni and Francesco Surico, Mapei SpA, ITALY
Gilberto Artioli, Maria Chiara Dalconi, Michele Secco and Luca Valentini, University of Padua, ITALY

Proceedings

- **Durability and Dimensional Stability of Concrete Containing Zinc Slag as Sand**
Bhavna Tripathi, Vivekananda Institute of Technology, INDIA,
Tarush Chandra and Sandeep Chaudhary, Malaviya National Institute of Technology, INDIA

Supplementary

- **Mechanical Properties of Concrete Exposed to Simultaneous CO₂ and Chloride Ion**
A.A.Ramezaniyanpour and S.A.Ghahari, Amirkabir University of Technology, IRAN
M.Esmaeili, Iran University of Science and Technology, IRAN

Supplementary

- **Verification of Concrete Durability of 124 Year Old Bridge in Bratislava**
Ivan Janotka, Building Testing and Research Institute, SLOVAKIA
Peter Paulík, Slovak University of Technology, SLOVAKIA
Patrik Ševčík and Michal Bačuvčík, Building Testing and Research Institute, SLOVAKIA

LUNCH

12:30 - 14:00

WEDNESDAY, JULY 15, 2015

SESSION 8

11:00 - 12:30

Chairperson: P.-C. Aïtcin

Université de Sherbrooke, CANADA

Proceedings

- **Effect of Supplementary Cementitious Materials on the Rheology of Blended Cements**

Ashok K. Tiwari, Maulik Panseriya, Prakash Mathur and Subrato Chowdhury, UltraTech Cement Limited, INDIA

Supplementary

- **Characterization of the Rheological Properties of Fresh Concrete**

Nodar Al-Manasir, Mapei AS, NORWAY

Anne-Lena Kjøniksen and David Soto, Østfold University College, NORWAY

Supplementary

- **Impact of the Thixotropy on the Concrete Properties**

Maxime Liard and Pascal Hebraud, University of Strasbourg , FRANCE,

Didier Lootens, Sika Technology, SWITZERLAND

Supplementary

- **Positive and Negative Aspects of Thixotropy**

Ahmed F. Omran, Université de Sherbrooke, CANADA

Kamal H. Khayat, Missouri University of Science and Technology, USA

Wael Abd El Megid, Université de Sherbrooke, CANADA

LUNCH

12:30 - 14:00

WEDNESDAY, JULY 15, 2015

SESSION 9

14:00 - 15:30

Chairperson: Theodore (Ted) Bremner

University of New Brunswick, CANADA

Proceedings

- **Microspheres-Based Admixture for Freeze-Thaw Durability of Concrete**

Frank Shaode Ong, Charles K. Nmai, James Curtis Smith and John Luciano, BASF Corporation, USA

Supplementary

- **Properties and Durability of Sand-Lime Bricks Containing Ground Limestone**

Zdzisław Pytel, University of Science and Technology, POLAND

Proceedings

- **Adoption of Resistivity Tests for Concrete Acceptance**

R. Doug Hooton and Gita Charmchi, University of Toronto, CANADA

Supplementary

- **Effect of Shrinkage-Reducing Admixtures on Chloride-Ion Penetrability of Concrete**

Tarun R. Naik, University of Wisconsin, USA
Fethullah Canpolat, Yildiz Technical University, TURKEY

COFFEE BREAK

15:30 - 16:00

WEDNESDAY, JULY 15, 2015

SESSION 10

14:00 - 15:30

Chairperson: Clifford N. MacDonald
FORTA Corporation Engineering Office, USA

Supplementary

- **Prediction of Mechanical Properties of Fiber-Reinforced Self-Consolidating Concrete for Repair**
Fodhil Kassimi, CANMET, CANADA
Kamal H. Khayat, Missouri University of Science and Technology, USA

Supplementary

- **Experimental Investigation to Study the Effect of Polyester Fibre on Durability of HVFA Concrete through Rapid Chloride Penetration Test**
Indrajit Patel, B V M Engineering College, INDIA
C. D. Modhera, S. V. National Institute of Technology, INDIA

Supplementary

- **Study on Performance of Negative Temperature Concrete Mixed with Antifreeze Admixtures**
Fei Xiao, Yongwei Wang, Hongtao Cui, Jinhuan Lv and Guibo Gao, Shandong Provincial Academy of Building Research, CHINA

COFFEE BREAK

15:30 - 16:00

WEDNESDAY, JULY 15, 2015

SESSION 11

16:00 - 17:30

Chairperson: Kamal H. Khayat

Missouri University of Science and Technology, USA

Supplementary

- **Effects of High Curing Temperatures and Fly Ash on the Compressive Strength of Concrete**

Yu Tao, Wang Yi, Wang Gaoming, Li Nan, Li Wei and Shi Yu, Jiangsu Arit New Materials Co., Ltd., CHINA

Supplementary

- **Activated High Volume Fly Ash for Sustainable Green Concrete**

D. F. Velandia, C. Lynsdale and J. Provis, University of Sheffield, UK, Fernando Ramirez, universidad de los Andes, COLOMBIA

Supplementary

- **Performance of Self-Consolidated Concrete Exposed To Fire or Aggressive Media**

Khaled M.Heiza, Minoufiya University, EGYPT

Supplementary

- **Microstructural Performance of Fly Ash Self-Compacted Concrete Under High Temperature**

Kh. M. Heiza, Menoufiya University, EGYPT
M. A. Helal, HBRC, EGYPT

WEDNESDAY, JULY 15, 2015
SESSION 12
16:00 - 17:30

Chairperson: Charles Nmai
BASF Corporation, OH, U.S.A.

Supplementary

- **Compatibility of AEA and Superplasticizers:
Robustness of Air-Entrainment Level**
Anatoly Vovk, Polyplast Novomoskovsk Ltd, RUSSIA

Supplementary

- **Development of a Kind of Polycarboxylate
Superplasticizer for Fair-Faced Concrete Using
Inferior Materials**
Zuiliang Deng, Weishan Wang, Qi Zou, Zhongjun Feng,
Lefeng Fu and Baicun Zheng, Shanghai Sunrise Polymer
Co., Ltd., P.R.CHINA

Supplementary

- **The Influence of Polycarboxylates on the Interaction
with Defoaming System**
Roberta Magarotto, Francesca Moratti and Sandro Moro,
BASF Construction Chemicals, ITALY

Supplementary

- **The Influence of Calcium Nitrate on Concretes with
Blended Portland Cements**
Silvia Colleparidi and Mario Colleparidi, Enco, ITALY
Roberto Troli, Yara, ITALY, and Wolfram Franke, Yara,
NORWAY

THURSDAY, JULY 16, 2015
SESSION 13
09:00 - 10:30

Chairperson: Alain Bilodeau
CANMET, CANADA

Supplementary

- **Influence of Steam-Curing on the Permeability of Track Slab Concrete of High Speed Railway**
Huajian Li, Yanbin Tan, Zhonglai Yi and Yongjiang Xie/
China Academy of Railway Sciences, CHINA

Proceedings

- **Aggregate Reactivity and Efficiency of Supplementary Cementing Materials**
Jens Kronemann and Klaus-Juergen Huenger,
Brandenburgische Technische Universität, GERMANY

Supplementary

- **On the Mechanism of ASR Inhibition by Si and Al Containing SCMS**
Klaus-Juergen Huenger, Jens Kronemann, Cornelia Huebert and Yvonne Scholz, Brandenburgische Technische Universität, GERMANY

COFFEE BREAK
10:30 – 11:00

THURSDAY, JULY 16, 2015
SESSION 14
09:00 - 10:30

Chairperson: Mario Collepardi
ENCO, ITALY

Proceedings

- **Research on Using Fluorosilicate for the Enhanced Performance of Concrete**
Wei Li, , Yi Wang , Gao-Ming Wang and Yu Shi, ARIT
New Materials Co.Ltd, CHINA
Zi-Ming Wang, Beijing University of Technology,
CHINA

Supplementary

- **Some Unusual Applications for ECC with CSA Cement**
Alla Linetsky, Concrete Elegance Inc., CANADA

Proceedings

- **Evaluation and Modification of FIB Service Life Design Model for Persian Gulf Region**
Aliakbar Ramezaniapour, Ehsan Jahangiri , Babak
Ahmadi and Faramarz Moodi, Amirkabir University of
Technology, IRAN

Proceedings

- **Characterization of Early Age Shrinkage in Alkali-Activated Cement-Free Binders**
Margueritte Ngami and Sulapha Peethamparan, Clarkson
University, USA

COFFEE BREAK
10:30 – 11:00

FRIDAY, JULY 17, 2015
SESSION 15
11:00 - 12:30

Chairperson: Benoit Fournier
Université Laval, CANADA

Proceedings

- **Processing of Sugar Cane Bagasse for Making it Pozzolanic**
Rein Terje Thorstensen, University of Agder, NORWAY

Supplementary

- **Optimization of the Use of Ground Limestone in Concrete**
Pierre-Claver Nkinamubanzi, NRC construction, CANADA
Caroline Talbot, Euclid Chemical Co, USA

Supplementary

- **Blended Portland Cements with Rice Husk Ash (RHA)**
Gemma Rodriguez de Sensale, Universidad de la Republica, URUGUAY
Liana Rodriguez Viacava and Daniel Godoy, Instituto de Ensayo de Materiales, URIGUAY

Supplementary

- **The Role of Fuel Substitution in CO₂ Emissions Abatement in the Cement Sector**
Adam Auer, Cement Association of Canada, CANADA

LUNCH
12:30 - 14:00

THURSDAY, JULY 16, 2015
SESSION 16
11:00 - 12:30

Chairperson: Vlastimil Bilek
ZPSV A.S., CZECH REPUBLIC

Proceedings

- **Performances of Sulpho-Based Rapid Hardening Concrete**

Sergio Tortelli and Maurizio Marchi, Italcementi Group, ITALY

Proceedings

- **Rapid Strength Concrete for Extending Service Life of Transportation Infrastructure**

B. Stein and R. Ryan, Twining, Inc., USA and V. Perez, CTS Cement, USA

Tanmay Kumar, CMT Research Associates USA

Supplementary

- **Comparative Evaluation of Piezoresistivity of CNTS/Cement Composites Measured by AC and DC Techniques**

Luigi Coppola, Alessandra Buoso, University of Bergamo, ITALY

Fabio Corazza, Italcementi Group, ITALY

Proceedings

- **Shotcrete Test Center**

Espen Rudberg and Thomas Beck, Mapei AS, NORWAY

LUNCH
12:30 - 14:00

THURSDAY, JULY 16, 2015
SESSION 17
14:00 - 15:30

Chairperson: Harvey H. Haynes
Haynes & Associates, USA

Proceedings

- **Phase Compositions and Strengths of One-Year Old Ternary Cement Composites**
Ľudovít Krajčí, Slovak Academy of Sciences,
SLOVAKIA
Ivan Janotka and Michal Bačuvčík, Building Testing and
Research Institute, SLOVAKIA
Subhash C. Mojumdar, University of Guelph, CANADA

Supplementary

- **The Effect Of SCM on Durability of Cementitious Materials – A Survey Based on Physical and Chemical Principles**
Harald Justnes, SINTEF, NORWAY

Proceedings

- **Designing Alternative Binders Utilizing Synergic Reactions**
Harald Justnes and Tone Østnor, SINTEF, NORWAY

Supplementary

- **Experimental Study on Using Trass as A Supplementary Cementing Material in Properties of Pervious Concrete**
Ali Akbar Ramezaniyanpour and Alireza Joshaghani,
Amirkabir University of Technology, IRAN

COFFEE BREAK
15:30 – 16:00

THURSDAY, JULY 16, 2015
SESSION 18
14:00 - 15:30

Chairperson: Ioanna Papayianni
Aristotle University of Thessaloniki, GREECE

Proceedings

- **Hydration Properties and Technical Behaviour of Calcium Sulfoaluminate Cements**
Antonio Telesca, Milena Marroccoli, Michele Tomasulo and Gian Lorenzo Valenti, University of Basilicata, ITALY

Supplementary

- **Selective Use of Non-Corrosive Reinforcement**
Alexis Borderon, Valbruna Spa, ITALY

Supplementary

- **Performance of Glass-Powder Concrete in Field Sites**
Ahmed Omran, Etienne Morin and Arezki Tagnit-Hamou, University of Sherbrooke, CANADA

Supplementary

- **Flexural Strengthening of Reinforced Concrete Beams Using High Performance Ferrocement**
Kamaluddin Kamal, Kandahar University, AFGHANISTAN

COFFEE BREAK
15:30 – 16:00

THURSDAY, JULY 16, 2015
SESSION 19
16:00 - 17:30

Chairperson: Luigi Coppola
Universita di Bergamo, ITALY

Supplementary

- **Assessment of Bamboo Culm Ash For Use as an Additive in Concrete**

Sara Soleimanzadeh, The University of Alabama, Charles A. Weiss, Jr., and Kevin Torres-Cancel, U S Army Corps of Engineers, Eric Giannini The University of Alabama, USA

Proceedings

- **Properties of Steam-Cured Fly Ash Concrete Using Porous Ceramic Waste Aggregate**

Phuong Trinh Bui, Yuko Ogawa, Naoki Doi, Kenji Kawai and Ryoichi Sato, Hiroshima University, JAPAN

Supplementary

- **Investigation of the Influence of Silica Fume and Nano Silica on Compressive Strength and Shrinkage of Foamed Concrete**

Kiachehr Behfarnia and Sina Saadat

Supplementary

- **Special High-Performance Concretes with Ground Bottom Ash from MSWI**

Silvia Collepari, Antonio Borsoi, and Mario Collepari, Enco, ITALY

Alessandro Quadrio Curzio, PETRACEM, ITALY

THURSDAY, JULY 16, 2015
SESSION 20
16:00 - 17:30

Chairperson: Silvia Collepardi
ENCO, ITALY

Supplementary

- **Production of Roller-Compacted Concrete Using Glass Powder**

Ahmed Omran, Lionel Muraz and Arezki Tagnit-Hamou,
University of Sherbrooke, CANADA

Proceedings

- **Grouts for Bridge Post-Tensioning Tendons at Below-Freezing Temperature**

Yang Fumin, Ma Rongtian, Zhang Yuanqing and Zhang Yong,
China Academy of Railway Sciences, P.R. CHINA

Supplementary

- **Additives Meet Sustainability in Cement and Concrete Industry**

Marco Goisis, Italcementi, ITALY

FRIDAY, JULY 17, 2015

SESSION 21

09:00 – 10:30

Chairperson: Ivan Janotka

Building Testing and Research Institute, SLOAVKIA

Supplementary

- **Scaling of the Mixer: From the Laboratory to the Ready Mix**

Didier Lootens, Sika Technology, SWITZERLAND

Martin Vachon, Mohammed Hachim and Frank

Moshopoulos, Sika Canada

Supplementary

- **Continuous Strength Measurement for Construction Optimization**

Luka Oblak and Raphael Bourquin, Sika Technology, SWITZERLAND

Martin Vachon, Sika CANADA,

Didier Lootens, Sika Technology, SWITZERLAND

Supplementary

- **Punching Shear Strength and Behavior of Ultra High Performance Reinforced Concrete Flat Plate Slabs**

Ghafur H. Ahmed and Omar Qarani Aziz, University of Salahaddin, IRAQ

Supplementary

- **CO₂ Uptake in Concrete Containing Fly Ash under Different Curing Conditions and Humidity and the Associated Mechanical Properties with Respect to Time**

Tarun. R. Naik, University of Wisconsin, USA

Rakesh Kumar, Central Road Research Institute, INDIA

COFFEE BREAK

10:30 - 11:00

FRIDAY, JULY 17, 2015
SESSION 22
09:00 – 10:30

Chairperson: Benoit Fournier
Université Laval, CANADA

- **Is the Alkali Content of Cement, Expressed as Na_2O Equivalent, the Right Tool for Assessing its Impact on ASR ?**
Soley Einarsdottir and Doug Hooton, University of Toronto, Toronto, CANADA
- **Evaluation of the Deleterious Potential of Sulphide-Bearing Aggregates for use in Concrete**
Andreia Rodrigues, Benoit Fournier and Josée Duchesne, Université Laval, CANADA
- **Testing Protocol for Assessing the Extent of Damage in Concrete Structures Affected by Alkali-Silica Reaction (ASR) - A Case Study.**
Anthony Allard, Benoit Fournier and Josée Bastien, Université Laval, CANADA

COFFEE BREAK
10:30 - 11:00

FRIDAY, JULY 17, 2015
AWARDEES SESSION
11:00 – 12:25
Chairperson: Terence Holland
Concrete Terry LLC, U.S.A.

- **Achieving Concrete Durability in Chloride Exposures**
Doug Hooton, University of Toronto, CANADA
- **Concrete Degradation in the Reactor of Nuclear Power Plants and a Motorway Tunnel due to Exposure to High-Temperatures**
Ivan Janotka, Building Testing and Research Institute, SLOVAKIA
- **High-Performance Concrete with Aggregates from Electric Arc Furnace (EAF) Steel Slag**
Silvia Collepari, Enco, ITALY
- **Specifying Preventive Measures Against Alkali-Aggregate Reactions in Concrete**
Benoit Fournier, Université Laval, CANADA

CLOSING REMARKS:
12:25- 12:30

V.M. MALHOTRA, Chairperson
Committee for the Organization of International
Conferencces

TECHNICAL VISITS

Friday, July 16, 2015

14:00 – 17:00

CANMET Exposure Site for
Long-term Performance of
Concrete Containing Reactive Aggregates

and/or

National Research Council of Canada

Cost: \$25^{.00} U.S.