



Cement Association of Canada
Association Canadienne du Ciment

**Ontario University Graduate Level Cement & Concrete
R&D Exchange Forum
Thursday, October 4, 2007
Davis Centre (DC)-Room 1302, University of Waterloo
Waterloo, Ontario**

**Moderator: Morning - Bart Kanters, RMCAO
Afternoon - Wafiq Thaha, St Marys Cement**

Agenda

- 8:30 – 9:00 a.m. Registration and Light Breakfast
- 8:50 – 9:00 Opening Remarks.....Wayne Dawson/CAC
- 9:00 – 10:15 Ph. D. Candidate Presentations
- 9:00-9:15 Recycled Concrete Aggregates – A Viable Aggregate Source for Concrete - *by James T. Smith, Waterloo*
 - 9:15-9:30 Optimization of Concrete Pavement Surface Texture for Skid Resistance & Noise - *by M. Alauddin Ahammed, Waterloo*
 - 9:30-9:45 Experimental Study on Characteristics of Pervious Concrete Pavement - *by Amir Golroo, Waterloo*
 - 9:45-10:00 Use of Cement Kiln Dust (CKD) as a Partial Replacement of Portland Cement - *by Om Shervan Khanna, Toronto*
 - 10:00-10:15 Concrete & Cement Containing Modified Waste Material in Order to Improve Sustainability - *by Lisa Federico, McMaster*
- 10:15 – 10:30 Refreshment Break
- 10:30 – 12:00 Ph. D. Candidate Presentations....continues
- 10:30-10:45 Concrete Columns Confined with Scrap Steel Belted Tires - *by Adel Bugaldian, Ottawa*
 - 10:45-11:00 Seismic Response of Smart Concrete Beam-Column Joints Reinforced with Superelastic Shape-Memory-Alloys - *by M. Shahria Alam, Western Ontario*
 - 11:00-11:15 Behaviour of Corroded Reinforced Concrete Beams Under Repeated Loading - *by Rania Al-Hammoud, Waterloo*

- 11:15-11:30 Investigation of Seismic Induced Leakage Behaviour of Reinforced Concrete Rectangular Tanks -
by Reza Sadjadi, Ryerson
- 11:30-11:45 Portland Cement: Soil Amendment to Reduce Brownfield Soil Metal Mobility and Enable Plant Growth -
by Raphael Lambert, Guelph

12:00 – 1:00 pm

Lunch (provided)

1:00 – 2:30

Master Candidate Presentations

- 1:00-1:15 Sulphate Resistance of Blended Cement - *by Giri Raj Adhikari, Ryerson*
- 1:15-1:30 The Role of Alkalis from Supplementary Cementing Materials on Alkali Carbonate Reaction - *by Steven Jagdat, Ryerson*
- 1:30-1:45 Constitutive Models for Concrete at Elevated Temperatures & during the Post-Cooling Stage - *by Salah El-Din El-Fitiany, Western Ontario*
- 1:45-2:00 Effects of Surface Condition on the Corrosion Resistance of Stainless Steel Rebar - *by Brad Bergsma, Waterloo*
- 2:00-2:15 Effects of Surface Conditions on the Corrosion Performance of Stainless Steel Rebar - *by Kyle Anders, Waterloo*
- 2:15-2:30 Progressive Collapse Analysis of R/C Buildings under Blast Loading - *by Sahar Mirhosseini, Ottawa*

2:30 – 2:45

Refreshment Break

2:45 – 3:30

Master Candidate Presentations....continues

- 2:45-3:00 Repair of Post-Tensioned Concrete Slabs Using CFRP Strands -
by Lucio Amato, Queens
- 3:00-3:15 The Cracking Behaviour of Reinforced Concrete Under Monotonic Increasing Load & Its Relation with Liquid Leakage - *by Armin Zyarishalmani, Ryerson*
- 3:15-3:30 Stress Block Parameters for Concrete Flexural Members Reinforced with Shape-Memory-Alloys -
by Yamen Ibrahim Ahmed Elbahy, Western Ontario

3:30 – 3:45

Break

3:45 – 3:55

Two Best Abstract/Presentation Awards (one for Master and one for Ph.D. Candidates)

3:55 – 4:00

Closing Remarks by Professor Susan Tighe, Waterloo

4:00 – 5:00 pm

Networking Reception at Graduate House, Waterloo