Symposium on Masonry 2014

Sponsored by ASTM Committee C07 on Masonry

June 24, 2014
Sheraton Toronto
Toronto, ON Canada

Symposium Chair: Mike Tate
Graymont USA
Genoa, OH
USA

TUESDAY, JUNE 24, 2014

8:00AM Opening Remarks
M. Tate, Symposium Chair

8:10 AM
Improving the Insulating Value of Brick with Pore Forming Agents
J. Sanders, The National Brick Research Center, Clemson Univ., Anderson, SC, USA; E. Gerns, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

8:30 AM
Effects of a Finely Ground Aggregate on the Behavior of Cement-Lime Mortars
W. McGinley, University of Louisville, Louisville, KY, USA; M. Thomson, Lhoist North America, Fort Worth, TX, USA

8:50 AM
Feasibility Study on Replacing Steam by Carbon Dioxide for Concrete Masonry Units Curing
Y. Shao, Y. Jia, McGill University, Montreal, Quebec, Canada; L. Hu, 3H Company, Lexington, KY, USA

9:10 AM
Effect of Internal Curing on Freeze-Thaw Durability of Dry-Cast Concrete Segmental Retaining Wall Units and Solid Interlocking Concrete Paving Units
C. Walloch, ACM Chemistries, Inc., Norcross, GA, USA

9:30 AM
Recent changes to ASTM Specification C90 and Impact on Concrete Masonry Unit Technology
N. Lang and J. Thompson, National Concrete Masonry Association, Herndon, VA, USA
9:50 AM
Changing Faces: Examining the Evolution of the Masonry Facade
R. Will, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

10:10 AM Break

10:30 AM
The 2013 MSJC Code & Specification
D. Throop, International Masonry Institute, Cincinnati, OH, USA; R. Bennett, University of Tennessee, Knoxville, TN, USA; G. Dalrymple, Whitlock Dalrymple Poston & Associates, P.C., Manassas, VA, USA

10:50 AM
Success and Failure in Applying ASTM Standards to the Evaluation and Rehabilitation of Historic Masonry Structures - A Case Study

11:10 AM
Evaluating Manufacturing and Installation Practices of Adhered Masonry Stone Veneer to Optimize Product Performance and Appearance
R. Garagliano, Eldorado Stone, Everette, WA, USA

11:30 AM
A Test Method to Identify the Onset of Freeze-Thaw Deterioration in Masonry
P. Mensinga, Richmond Hill, ON, Canada; D. De Rose, Halsall Associates, Toronto, ON, Canada; and J. Straube, Building Science Consulting, Waterloo, ON, Canada

11:50 PM Lunch (On Your Own)

1:30 PM
Estimation of Moisture Expansion of Fired Clay Units
I. Chin, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA; F. D. Heidbrink, Wiss, Janney, Elstner Associates, Inc., Northbrook, IL, USA

1:50 PM
Compressive Strength Testing of Concrete Paving Units: Research on Configuration of Tested Specimens and Effects of Variables in Specimen Capping
C. Walloch, ACM Chemistries, Inc., Norcross, GA, USA; N. Lang, National Concrete Masonry Association NCMA, Research, Herndon, VA, USA; and D. Smith, Interlocking Concrete Pavement Institute ICPI, Herndon, VA, USA
2:10 PM
Air Permeability of Masonry Materials
J. Sanders, The National Brick Research Center, Clemson Univ., Anderson, SC, USA; E. Gerns, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

2:30 PM
Comparison of IRA of Clay Brick Measured at Time of Manufacture and in the Field
P. Kelly, Hanson Brick, Burlington, ON, Canada; and W. Strauss, Columbia, SC, USA

2:50 PM Break

3:10 PM
Carbonation of Lime-Based Masonry Mortars
M. Tate, Graymont Inc., Genoa, OH, USA; P. Suraneni, ETH Zurich, Zurich, Switzerland; and A. Salas, Universidad Nacional de Colombia, Bogota, Colombia

3:30 PM
Development of a New Test Method for Determining the Surface Infiltration Rate of Permeable Unit Pavement Systems
C. Walloch, ACM Chemistries, Inc., Norcross, GA, USA; and D. Smith, National Concrete Masonry Association NCMA, Research, Herndon, VA, USA

3:50 PM
Stress Relief in Terra Cotta Facades: Predicting the Unpredictable
R. Will and E. Gerns, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

4:10 PM Closing Remarks
M. Tate, Symposium Chair

4:15 PM SYMPOSIUM ADJOURNS