Symposium on Masonry

Sponsored by C01 on Cement, joint with C07 on Lime, C12 on Mortars and Grouts for Unit Masonry, and C15 on Manufactured Masonry Units

Symposium Chairs: Bill Behie
Holcim, Southeast Division
Huntersville, North Carolina, U.S.A.

Jamie Farny
Portland Cement Association
Skokie, Illinois, U.S.A.

ABOUT THE SYMPOSIUM
The objective of the symposium is to gather and disseminate the latest information on all aspects of masonry, including innovations in materials, design, specification, construction, maintenance, and rehabilitation. It will emphasize the application of ASTM standards to those areas, and their coordination with building codes, project specifications, and international standards. Designers, specifiers, builders, material suppliers, researchers, and forensic engineers will find the information valuable in building new structures, evaluating and rehabilitating existing ones, and ensuring quality masonry construction in general.

TUESDAY, JUNE 8, 2010

8:25AM
Opening Remarks
Bill Behie and Jamie Farny, Symposium Co-Chairs

SESSION 1: WATER MANAGEMENT AND EFFLORESCENCE

Session Chair: Bill Behie
Holcim, Southeast Division
Huntersville, North Carolina, U.S.A.

8:30AM
Efflorescence: Evaluation of Published Test Methods for Brick and Efforts to Develop a Masonry Assembly Test Method

8:50AM
Test Method for Determining the Efflorescence Potential of Masonry Materials Based on Soluble Salt Content
J. P. Sanders, and D. A. Brosnan, The National Brick Research Center, Clemson University, Anderson, South Carolina, U.S.A.
9:10AM  
Detailing Masonry Veneer/Steel Stud Backup Systems at Fenestration Systems to Avoid Moisture Problems  

9:30AM  
A Laboratory Evaluation of Plastic (Stucco) Cement-Based Plaster as a Barrier to Water Penetration of Concrete Masonry Construction at Hurricane Force Wind Speeds  

9:50AM  BREAK

SESSION 2: STRENGTH AND FREEZE-THAW TESTING

Session Chair:  Mike Tate
Graymont Dolomite, Inc.
Genoa, Ohio, U.S. A.

10:20AM  
Statistical Analysis of Flexural Tensile Strength of Clay Masonry as a Function of Void Area  
R. Bennett, The University of Tennessee, Knoxville, Tennessee, U.S.A; J. P. Sanders, The National Brick Research Center, Clemson University, Anderson, South Carolina, U.S.A.; and J. Bryja, General Shale Products Corporation, Johnson City, Tennessee, U.S.A.

10:40AM  
Comparative Study of Freeze and Thaw Test Procedures on Molded Brick  

11:00AM  
Proposed Masonry Specified Compressive Strength Requirements  
R. Bennett, The University of Tennessee, Knoxville, Tennessee, U.S.A

11:20AM  BREAK

11:30PM  LUNCH
SESSION 3: PERFORMANCE AND FAILURE ANALYSIS AND REPAIRS

Session Chairs: Brian Trimble
Brick Industry Association
Alexandria, Virginia, U.S. A.

Norbert Krogstad
Wiss Janney Elstner Associates, Inc.
Northbrook, Illinois, U.S. A.

1:00PM
Seismic Performance Tests of Masonry and Masonry Veneer
R. Klingner and S. Jo, The University of Texas at Austin, Austin, Texas, U.S.A; P. Benson Shing and H. Okail, University of California at San Diego, La Jolla, California, U.S.A; W. Mark McGinley, University of Louisville, Louisville, Kentucky, U.S.A; David I. McLean, Washington State University, Pullman, Washington, U.S.A.

1:20PM
Improving the Thermal Resistance of Brick Masonry Systems
J. P. Sanders and D. A. Brosnan, The National Brick Research Center, Clemson University, Anderson, South Carolina, U.S.A

1:40PM
Evaluation and Repair of Thin Brick Veneer Facades
C. L. Searls and J. L. Leafblad, Simpson Gumpertz & Heger, San Francisco, California, U.S.A.

2:00PM
Design and Use of Expansion Joints in New and Existing Clay Masonry Wall Systems

2:20PM
Common Sense and Masonry Repair

2:40PM
Closing Remarks

Contact information for session chairs

Mr. William Behie
Holcim, Southeast Division
10115 Kincey Ave. Suite 260
Huntersville, North Carolina 28078 U.S.A.
Mr. James Farny
Portland Cement Association
5420 Old Orchard Road
Skokie, Illinois 60077-1083 U.S.A.

Mr. Mike Tate
Graymont, Inc.
21880 W. State Route 163
P.O. Box 158
Genoa, Ohio 43430-0158 U.S.A.

Mr. Brian Trimble
Brick Industry Association
1850 Centennial Park Drive 301
Reston, Virginia 20191-1542 U.S.A.

Mr. Norbert Krogstad
Wiss Janney Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062 U.S.A.