



**MASONRY SYMPOSIUM: INNOVATIONS IN COLLABORATIVE RESEARCH,
DEVELOPMENT AND APPLICATIONS**

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

June 26, 2018

Sheraton San Diego Hotel & Marina
San Diego, California

Symposium Chairs: Norbert Krogstad, AIA
Wiss, Janney, Elstner Associates Inc.
Northbrook, Illinois, USA

Dr. W. Mark McGinley, PE
University of Louisville
Louisville, Kentucky, U.S.A.

ABOUT THE SYMPOSIUM

The objective of the Masonry Symposium is to gather and disseminate the latest information on all aspects of innovations in masonry materials, design, specification, construction, maintenance, and rehabilitation. It will emphasize the application of ASTM standards to these 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 26, 2018

8:00 AM

Opening Remarks

Norbert Krogstad and Dr. Mark McGinley, Symposium Co-Chairs

8:15 AM

Overview of ASTM International

Krista Robbins, ASTM Staff Manager

SESSION 1: MEASUREMENTS AND TESTING

Session Chair: Dr. W. Mark McGinley, PE
University of Louisville
Louisville, Kentucky, U.S.A.

8:30AM

Evaluation of Existing Moisture Content of Brick for Hygrothermal Models in the Rehabilitation of Mass Masonry Walls

R. and A. Cyphers, J. Knorowski, and A. Skertic, WDP and Associates, PC, Manassas, Virginia, U.S.A.

8:55AM

Proposal for an Improved Procedure and Interpretation of ASTM C1531 for the In-situ Determination of Brick-Masonry Shear Strength

F. Graziotti, G. Guerrini, A. Rossi, G. Andreotti, and G. Magenes, Universita degli Studi di Pavia, Pavia, Italy

9:20AM

Ambient Vibration of Unreinforced Masonry Buildings in Dhaka City

M. Khan, A. Fahim, R. Ahsan, Military Institute of Science and Technology, Dhaka, Bangladesh

9:45AM BREAK

SESSION 2: MATERIAL AND PERFORMANCE

Session Chair: Brian E. Trimble, PE, LEED AP
International Masonry Institute
Seven Fields, Pennsylvania, U.S.A.

10:15 AM

Sustainable Cellulose Masonry

Z. Olson, W. Cook, and D. Henneke, New Mexico Institute of Mining and Technology, Socorro, New Mexico, U.S.A.

10:40 AM

Thermal Property Measurement of Non-Homogeneous Masonry Materials

J.P. Sanders, N. Huygen, and S. Smith, The National Brick Research Center, Clemson University, Anderson, South Carolina, U.S.A.

11:05 AM

Dynamic Thermal Performance Measurements of Residential Wall Systems

J.P. Sanders and N. Huygen, The National Brick Research Center, Clemson University, Anderson, South Carolina, U.S.A.

11:30 AM LUNCH (on your own)

SESSION 3: DESIGN AND CODE (Part 1)

Session Chair: Mike Tate
Graymont
Genoa, Ohio, USA

1:30 PM

Brick Masonry: Crisis in Aesthetics?

I. R. Chin, Wiss, Janney, Elstner Associates, Inc., Chicago, Illinois, U.S.A.

1:55 PM

The Evolution of Stone Masonry Veneer Requirements - Past, Present, and Future

J. Civitillo and E. Peterson, WDP and Associates, P.C., Manassas, Virginia, U.S.A.

2:20 PM

Shear Strength of FRP-Reinforced Concrete Masonry Beams

S. Sarhat and E. Sherwood, Queen's University, Kingston, Ontario, Canada

2:45 PM BREAK

SESSION 4: DESIGN AND CODE (Part 2)

Session Chair: Jamie Farny
Portland Cement Association
Skokie, Illinois, USA

3:15 PM

History of Cold-Formed Steel Framing Used as a Backing for Brick Veneer

C. Clark, Jr., C. Friend and J. Bryja, Brick Industry Association, Reston, Virginia, U.S.A.

3:40 PM

Addressing Maximum Design Deflection for Cold-Formed Steel Framing When Used as a Backing for Brick Veneer

C. Clark, Jr., C. Friend and J. Bryja, Brick Industry Association, Reston, Virginia, U.S.A.

4:10 PM

Closing Remarks

Norbert Krogstad and Dr. Mark McGinley, Symposium Co-Chairs

4:30 PM SYMPOSIUM ADJOURNS