ABOUT THE SYMPOSIUM
Twenty-two years ago, ASTM Sub-Committee E06.55 sponsored its first symposium pertaining to water in exterior building walls. Since that time, proliferation of both new and previously repaired buildings that leak and/or continue to leak, and/or suffer from unintended moisture accumulation has increased. Through the continued efforts of many ASTM Committees, including E06.55, numerous standards have been and continue to be developed to address the evaluation, design and repair of building walls. The objective of this symposium is to document both the industry’s and ASTM’s efforts in addressing these problems through standard development, and to disseminate this information.

Session papers will include the following subjects:
- The efficacy of repairs completed including both success and failure (case studies).
- Development guidelines outlining preventative maintenance requirements to maximize service life, including what building owners should anticipate to expend over time.
- Statistical analysis/surveys indicating the extent and reasons for problems relating to water in exterior building walls.
- How to better share lessons learned with a focus toward sharing best practices and thereby increasing the use of these best practices.
- Modification through adaptive reuse of historic buildings and their envelopes to extend service life.
- Value analysis: Short-term construction savings versus long-term performance.

TUTORIAL SESSION
In addition to the symposium, a 3 hour pre-symposium workshop on “Using ASTM Standards to Identify and Mitigate Leakage” will be offered Sunday morning. Since 2001, ASTM Standard E2128 has become the acknowledged industry standard for assessing building leakage. The symposium is designed to aid architects, engineers, contractors, manufacturers, suppliers and building owners in the assessment of building leakage and best practice for repair.

SUNDAY, APRIL 14, 2013

9:00AM
Workshop Introduction
P.G. Johnson, Symposium Co-Chair

9:05AM
R. J. Kudder, Raths, Raths & Johnson, Inc., Willowbrook, IL, USA

10:00AM
Flashing and its Importance in All Buildings, A Contractor’s Perspective
J. L. Erdly, Masonry Preservation Services, Inc., Bloomsburg, PA, USA

11:00AM
Building Leakage from the Owner’s Perspective
J. S. Youngerman, Esquire, Flaherty & Youngerman, Chicago, IL, USA
11:45AM
Comments on Why We Are Here (Paul’s Rants and Raves)
P.G. Johnson, Smith Group, Inc., Detroit, MI, USA

12:00PM   LUNCH (On Your Own)

Symposium on Building Walls Subject to Water Intrusion and Accumulations: Lessons from the Past and Recommendations for the Future

Symposium Chairs:   Jeffrey L. Erdly
                    Masonry Preservation Services, Inc. (MPS)
                    Bloomsburg, Pennsylvania, USA
                    Paul G. Johnson, FAIA
                    Smith Group, Inc.
                    Detroit, Michigan, USA

1:00PM
Opening Remarks
J.L. Erdly, Symposium Co-Chair

1:05PM
Architectural Education and Licensing: What Architects Learn About the Building Enclosure
A. Dunlap, R. Asava and Z. Rusu, Smith Group, Detroit, MI, USA

1:30PM
The High Costs of Low-Priced Stucco: A Case Study from California
P. R. Vora, J.A. Bowlsby and J.E. Mendygral, Simpson Gumpertz & Heger Inc., San Francisco, CA, USA

1:55PM
Evaluation of the Potential for Corrosion, Mold Growth and Moisture Accumulation within Typical Brick Veneer Wall Assemblies Designed per 2006 International Energy Code in a Mixed Humid Climate
A. R. Whitlock, Whitlock, Dalrymple, Poston & Associates, Manassas, VA, USA; and R. A. Cyphers and C. M. May, Whitlock, Dalrymple, Poston & Associates, Charlottesville, VA, USA

2:20PM
Dynamic Wind Generation to Simulate Wind Driven Rain in Windows, Curtain Walls, Architectural Metal Walls, Masonry, EIFS and Concrete
M.T. Williams and J. Kistler, The Façade Group, LLC/WGBM, Portland, OR, USA

2:45 PM
Value Analysis from Behind the Curtain – The Illusion and the Reality of Value Analysis and Building Enclosures
J. E. Peterson and W. R. Nash, Whitlock, Dalrymple, Poston & Associates, Manassas, VA, USA; and R. A. Cyphers, Whitlock, Dalrymple, Poston & Associates, Charlottesville, VA, USA
Symposium on Building Walls Subject to Water Intrusion and Accumulations: Lessons from the Past and Recommendations for the Future, Sunday, April 14, continues

3:10PM   BREAK

3:25PM
Using Hygrothermal Simulation to Assess Risk of Water Accumulation from Wall Assembly Defects
T. A. Weston, DuPont Building Innovations, Richmond, VA, USA

3:50PM
Single Wythe CMU Buildings – Coating Problems and Solutions
K. A. Trimber and K.J. Brown, KTA-Tator, Inc., Pittsburgh, PA, USA; and K. D. Knight, Retro-Specs LTD, Winnipeg, MB, Canada

4:15PM
Water Leakage Testing of Glass Curtain Walls
S. G. Naggatz and S. F. Sinusas, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

4:40PM
Flood Damage-Resistant Materials: Draft Standard and Ongoing Research
J. Moline, Dewberry, Management and Consulting Services Division, Fairfax, VA, USA; and J. Ingargiola, FEMA Building Science Branch, Arlington, VA, USA

5:05PM
Comparative Analysis of Fluid-Applied Air Barrier Products
K.S. Wissink and S.S. Ruggiero, Simpson Gumpertz & Heger, Inc., Waltham, MA, USA

5:30PM   Symposium Adjourns for the Day

RECEPTION (CASH BAR)

MONDAY, APRIL 15, 2013

8:00AM
Opening Remarks
J.L. Erdly, Symposium Co-Chair

8:05AM
Dimensional Stability Considerations in Spray Polyurethane Foam Air Barriers
A.W. Wagner and J. E. Peterson Whitlock, Dalrymple, Poston & Associates, Charlottesville, VA, USA

8:30AM
Stone Cladding Joint Treatment Conundrum: Sealant or Mortar
E. Cardini and E. Gerns, Wiss, Janney, Elstner Associates, Inc., Boston, MA, USA

8:55AM
Do It Right the Second Time – Designing Minimally Invasive, Cost-Effective Solutions for Sustainable Construction
D.W. Boyer, R. Tatley and M. Travis, Building Envelope Analysis LLC, Lawrence, KS, USA
9:20AM
**Applying a Methodology of Investigation Tailored to the Building Envelope Affected by Water Infiltration**
R. Trempe and J. Borsellino, Patenaude-Trempe Inc., Varennes, Quebec, Canada

9:45AM BREAK

10:00AM
**Water Leaks due to Shadow Box Spandrel Conditions**
B. S. Kaskel and C. Ceja, Wiss, Janney, Elstner Associates, Inc., Chicago, IL, USA

10:25AM
**The Richmond Civic Center Complex: How Building Rehabilitation Can Help Save the World by Reducing Costs, Waste and Preserving our Past**
J.E. Mendygral and C. Searls, Simpson, Gumpertz & Heger Inc., San Francisco, CA, USA

10:50AM
**Damage Due to Water Intrusion and Accumulation in Masonry Walls – Design Considerations**
P. Fazio, Concordia University, Montreal, Quebec, Canada

11:15AM
**Final Comments**
P.G. Johnson, Symposium Co-Chair

11:30AM SYMPOSIUM ADJOURNS