Symposium on Lime: Building on the 100-Year Legacy of ASTM Standards

Sponsored by ASTM Committee C07 on Lime

June 28, 2012
Sheraton San Diego
San Diego, CA

Symposium Co-chairs:  
Margaret L. Thomson  
Lhoist North America  
Fort Worth, Texas  
USA

Joseph H. Brisch  
Manitowoc, WI  
USA

THURSDAY JUNE 28, 2012

8:15 AM  
Opening Remarks  
M. Thomson, Symposium Co-Chair

8:30 AM  
C7 – 100 Years of Standards  
Michael Tate, Graymont Inc., Genoa, OH, USA

Session Chair:  
Greg Andersen

8:55AM  
Impact of Lime and Liquid Additives on Life Cycle Cost of Asphalt Pavements  
P. Sebaaly, University of Nevada, Reno, NV, USA

9:20 AM  
Proposal to Compare Typical Mechanical Properties of Hot Mix Asphalt with and without Hydrated Lime to Warm Mix Asphalt with and without the Addition of Hydrated Lime and Foaming Agents  
D. Little, Texas A & M University, College Station, TX, USA

9:45 AM  
Tennessee Lime-Fly Ash Stabilized Base Using a High Loss-on-Ignition Fly Ash  
L. Crouch and S. Dillon, Tennessee Technological University, Cookeville, TN, USA

10:10 AM  
Break
Session Chair: Michael Kroc

10:30 AM  
**Determination of Metals in Lime and Limestone Using Automated Borate Fusion for ICP-OES Analysis**  
J. Pitre and M. Bédard, Corporation Scientifique Claisse, Quebec, QC, Canada; and A. Hineman, PerkinElmer Health and Sciences Canada, Woodbridge, ON, Canada

10:55 AM  
**Measurement and Control Methodology for the Flowability of Lime Fines in Steel Injection Systems**  
D. McKinney, Carêmeuse Lime and Stone, Pittsburgh, PA, USA

11:20 AM  
**Treatment of Marine Clay with Hydrated Lime and Quicklime**  
A. Kavak, Kocaeli University, Kocaeli, Turkey

11:45 AM  
**The Use of Lime in Concrete as a Cement Replacement, Change in Physical Properties Concrete**  
J. Nichols, Texas A&M University, College Station, TX, USA

12:10 PM  
**Testing Pozzolanic Hydraulic Limes (PHL) with ASTM C1707-09: Suggestions for Improved Conditions of Tests**  
R. Gibson, Limeco Limited, Greystones, Cotherstone, County Durham, United Kingdom

12:30 PM  
**Lunch**

Session Chair: Durant Maske

1:45 PM  
**Lime Kiln Dust - An Overlooked Resource New Products**  
M. Tate, Graymont Inc., Genoa, OH, USA

2:10 PM  
**Application of Test Methods for Use in Limestone Selection for Wet Flue Gas Desulfurization**  
S. R. Brown and R. F. DeVault, The Babcock & Wilcox Power Generation Group, Barberton, OH, USA

2:35 PM  
**Impacts of Hydrated Lime Injection on Electrostatic Precipitator Performance**  
R. A. Mastropietro, Lodge-Cottrell Inc., The Woodlands, TX, USA
3:00 PM  Break

Session Chair:  Melanie Houghton

3:20 PM  Manganese Levels in Limestone-Operational Issues in Wet Limestone Flue Gas Scrubbing Technologies
S. Fraley, Carmesue Lime and Stone, Pittsburgh, PA, USA

3:45 PM  Lime in Papermaking: - A Historic Review Paper
K. Doelle, SUNY-ESF, Syracuse, NY, USA

4:10 PM  A Survey of Particle Characterization Techniques for Lime and Other Powders
A. Thornton, Micromeritics, Norcross, GA, USA

4:35 PM  Developing a New Test Method for Determining Free Moisture in Hydrated Lime by Thermogravimetric Analysis (Moisture Balance)
M. Thomson, Lhoist North America, Fort Worth, TX, USA

5:00 PM  Closing Remarks
M. Thomson, Symposium Co-Chair

5:15 PM  SYMPOSIUM ADJOURNS