Workshop on Weathering & Durability Testing 2019

Sponsored by ASTM Committees G03 on Weathering and Durability and ASTM Committee D01 on Paint and Related Coatings, Materials and Applications

June 26, 2019
Sheraton Denver Downtown Hotel
Denver, CO

Workshop Co-Chairs:
David Burns
Subcommittee Chair G03.94 and D01.15
3M Weathering Research Center (retired)
Woodbury, MN USA

Matt McGreer
Atlas MTT/Ametek
Mount Prospect, IL USA

Brad Reis
Q-Lab Corporation
Westlake, OH USA

WEDNESDAY JUNE 26, 2019

8:00 AM
Opening Remarks
David Burns, Chair G03.94 on Education and D01.15 on Lectures and Symposia

SESSION 1: CORRELATING ACCELERATED AND NATURAL WEATHERING METHODS

8:15 AM
A Comparison of Highly Accelerated Metal halide to Xenon Light Exposures for Vinyl Film Applications
Mark Alessandro, Avery Dennison Corporation, Mentor OH USA

8:45 AM
Laboratory Weathering Testing of Liquid-Applied Flashing on Lightweight Polyisocyanurate Sheathing
Diana Fisler, Will Sanborn, Brett Seward and Chris Schumacher, Johns Manville Corporation, Littleton CO USA and Waterloo, ON CAN
9:15 AM
Weathering Acceleration Factors for Aromatic Polymers: A Study in Contrasts
Olga Kuvshinnikova and James Pickett, SABIC Innovative Plastics, Selkirk, NY USA and Li-Pin Sung, NIST, Gaithersburg, MD USA

9:45 AM
Session 1 Panel Discussion
Moderated by Matt Mc Greer

10:00 AM BREAK

SESSION 2: RELATING EXPOSURE PARAMETERS TO SPECIMEN DEGRADATION

10:15 AM
Water Delivery During Accelerated Weathering Testing of Coatings for Improved Correlation to Outdoor Results
Sean Fowler, Q-Lab Corporation, Westlake OH USA

10:45 AM
The Reproducibility of Weathering Tests: Influencing Factors and Measures
Florian Feil, Atlas Material Testing Technology, Linsengericht, DE

11:15 AM
My Device is in Control, but What is My Sample Temperature?
William Hunt, 3M Commercial Solutions; Bryce Williams and David Burns (retired), 3M Weathering Research Center, Maplewood, MN USA

11:45 AM
Session 2 Panel Discussion
Moderated by David Burns

12:05 PM LUNCH (Included)
SESSION 3: WEATHERING METHOD DEVELOPMENT, MODELING AND VALIDATION

1:45 PM
Evaluation of Silicone and Polyurethane Sealant Mockups after Approximately 30 Years of Exposure to the Weather in the Chicago, Illinois Area
Ian Chin, Wiss, Janney, Elstner Associates, Inc, Chicago IL USA

2:15 PM
Development of an Outdoor Accelerated Seawater Spray Test for Coating Evaluation
Daniel Pope, Fred Lafferman and Tom Considine, US Army Research Laboratory, Aberdeen Proving Grounds, MD USA; Eliza Montgomery, Jerry Curran and Mark Kolody, NASA Kennedy Space Center, Titusville, FL, USA; and John Repp, Elzly Technology Corporation, Millville, NJ USA

2:45 PM BREAK

3:00 PM
Decoding Service Temperatures for Materials Used in Wall Assemblies
Andrea Wagner Watts, DuPont Performance Building Solutions, East Aurora NY, USA and Jim Katsaros, DuPont Performance Building Solutions, Midlothian, VA USA

3:30 PM
Annual Solar Spectral Energy Distributions from Spectroradiometer Data
James Pickett, Consultant, Schenectady, NY USA; Patrick Neale, Smithsonian Environmental Research Center, Edgewater, MD USA and Jacob Pickett, Worcester Polytechnic, Worcester, MA USA

4:00 PM
Session 3 Panel Discussion
Moderated by Sean Fowler

4:20 PM
Workshop Wrap up
David Burns

4:30 PM WORKSHOP ADJOURNS