Symposium on Plastic Pipe and Fittings: Yesterday, Today and Tomorrow

Sponsored by ASTM Committee F17 Plastic Piping Systems

November 9, 2009
Hyatt Regency Atlanta
Atlanta, GA

MONDAY, NOVEMBER 9, 2009

SESSION 1A
[CENTENNIAL BALLROOM III]
(See also Concurrent Session 1B)

Moderator: Dr. Tom Walsh
Walsh Consulting Services
Houston, TX

8:00am
Introduction and Opening Remarks
Tom Walsh, Walsh Consulting Services, Houston, TX

8:15am
The Hydrostatic Stress Board of PPI - Its Contributions towards the Establishment of the Most Appropriate Working Stress for Thermoplastics Piping Materials
S. Mruk, Stan Mruk, New Providence, NJ, USA

8:35am
North American Cinderella Pipe Story
R. Walker, Underground Solutions, Inc., Southlake, TX, USA

9:00am
Long-Term Hydrostatic Strength and Design of Thermoplastic Piping Materials and the Development of Polyethylene Compounds
S. Boros, Plastics Pipe Institute, Irving, TX, USA

9:25am
A History of the Introduction, Development and Growth of the Corrugated Polyethylene Pipe Industry in North America
J. Goddard, Advanced Drainage Systems, Inc., Hilliard, OH, USA

9:50am BREAK
Symposium on Plastic Pipe and Fittings: Yesterday, Today and Tomorrow, Monday November 9, 2009, Session 1A, continued

10:05am
**Trenchless Rehabilitation and New Construction – A Municipal Engineers Perspective**
J. Barsoom, Municipal Forum Program, TTC, Louisiana Tech University, Westminster, CO, USA

10:30am
**Designing Stormwater Chambers to Meet AASHTO Specifications**
T. McGrath, Simpson Gumpertz & Heger Inc., Waltham, MA, USA

10:55am
**NFS 14: Shaping the Future of the Plastic Piping Industry**
A. Ciechanowski, NFS International, Ann Arbor, MI USA

11:20am
J. White, Ingenia Polymers, Houston, TX, USA

11:45am LUNCH (On Your Own)

**SESSION 1B**
[CENTENNIAL BALLROOM IV]

Moderator: Craig Fisher
S&B Technical Products
Fort Worth, Texas

8:00am
**Introduction and Opening Remarks**
C. Fisher, S&B Technical Products, Ft. Worth, TX, USA

8:15am
**Polyamide 11 (PA-11) Gas Piping at 200 psig Under the US DOT New Rules**
F. Volgstadt, Volgstadt & Associates, Inc., Madison, OH, USA

8:35am
**Polyamide 12 Natural Gas Distribution Systems Operating at Pressure Greater than 125 psig**
R. Wolf, Polymer Processing Solutions, Inc., Birdsboro, PA, USA

9:00am
**Spoolable Steel-Reinforced Thermoplastic Pipe: Design and Applications**
A. Ethridge and M. Helger, Wellstream International, Houston, TX, USA
Symposium on Plastic Pipe and Fittings: Yesterday, Today and Tomorrow, Monday, November 9, 2009, Session 1B continued

9:25am
A New and Innovative Approach to the Design of Connectors for High Pressure, Large Diameter, Reinforced Thermoplastic Pipe
A. Ekelund, K. Bethel, M. Kanninen, R. Huriaux, and J. Reed, Smart Pipe Company, Inc., Katy, TX, USA; R. Viteaux, Enterprise Products, Houma, LA, USA

9:50am BREAK

10:05am
ASTM F 2018 Revisited
S. Choi, Hannam University, Daejeon, Korea Republic of (South)

10:35am
A New Qualification Method for Butt Fusion Joining of Polyethylene (PE) Pipe and Fittings
S. Sandstrum, ISCO Industries, Kingwood, TX, USA

10:55am
Notched Ring Test Standard under Development in ISO.TC138
S. Choi, Hannam University, Korea Republic of (South)

11:20am
Fluoropolymers Piping Systems – from Chemical Industry to Domestic Water Supply
B. Neubauer, Solvay Solexis, Bruxelles, Belgium

11:45am LUNCH (On Your Own)

SESSION 2A
[CENTENNIAL BALLROOM III]
(See also Concurrent Session 2B)

Moderator: Steve Boros
Plastic Pipe Institute
Dallas, Texas

1:00pm
Axial Response of HDPE Pipes as a Result of Installation by Directional Drilling
I. Moore, R. Brachman, J. Cholewa, and A. Chehab, GeoEngineering Centre at Queens University-RMC, Kingston, ON, Canada

1:25pm
Specifying Plastics Pipes for Trenchless Applications
L. Petroff, Performance Pipe, Bogart, GA, USA
Symposium on Plastic Pipe and Fittings: Yesterday, Today and Tomorrow, Monday, November 9, 2009, Session 2A, continued

1:50pm
High Performance Restrained-Joint PVC Pipe for Directional Drilling
S. B. Gross, CertainTeed Corp., Valley Forge, PA, USA

2:15pm
Design Considerations for Restrained Joints for PVC-U Pipe
C. Fisher, S&B Technical Products, Ft. Worth, TX, USA; G. Quesada, Mechanical Problem Solving, S.A., San Jose, Costa Rica

2:40pm
Methodology for Calculating Installation Loads on Horizontal Directional Drilled Fusible PVC Pipe
R. Botteicher, Underground Solutions, Inc., Denver, CO, USA; and S. Ariaratnam, Arizona State, Tempe, AZ, USA

3:05pm BREAK

3:20pm
Comprehensive Testing of Fusible Polyvinylchloride Pressure Pipe and Butt Fusion Joint using ASTM Mechanical and Hydrostatic Pressurization Testing Methodologies
S. Ferry, Microbac Laboratories, Boulder, CO, USA

3:45pm
Technical Considerations When Fabricating PVC Pressure Fittings
C. Fisher, S&B Technical Products, Ft Worth, TX, USA; and T. Franzen, Specified Fittings, Bellingham, WA, USA

4:10pm
Building Knowledge from Failure Analysis of Plastic Pipe and Other Hydraulic Structure
P. Sharff, Simpson Gumpertz & Heger Inc., Waltham, MA, USA

4:35pm
Challenges in Investigating CPVC Pipe Failures
M. Hayes and D. Edwards, Engineering Systems, Inc., Norcross, GA, USA

5:00pm
Quality of CPVC Pipes in Relation to Environmental Stress Cracking
R. Hauser, Ray Hauser Expertise, Boulder, CO, US

5:25pm
Evolved Steam Heating System with Plastic Conduit
I. Zhadnovsky, AEC, Newton, MA, USA
SESSION 2B
[CENTENNIAL BALLROOM IV]

Moderator: Jim Goddard
Advanced Drainage Systems
Columbus, Ohio

1:00pm
Past Growth and Bright Future for Plastic Pipe in North America
J. Jeyapalan, Civic Enterprises, LLC, New Milford, CT, USA

1:25pm
Stress Crack Protocol for Finished Product Testing of Corrugated High Density Polyethylene Pipe
J. Kurdziel, Advanced Drainage Systems, Hilliard, OH, USA

1:50pm
Long-Term Performance of Polyethylene Piping Materials in Potable Water Applications
P. Vibien, S. Chung, S. Fong, and K. Oliphant, Jana Laboratories, Inc. Aurora, ON, Canada

2:15pm
A Service Life Analysis for Corrugated HDPE Pipe for Drainage Applications
M. Pluimer, Plastics Pipe Institute, Irving, TX, USA

2:40pm
Determination of Deformation and Leakage Level of Plastics Pipes and Fittings Using Continuous Loading
H. Kye, Mok Won University, Daejeon, Korea Republic of (South)

3:05pm BREAK

3:20pm
Deflection Lag, Load Lag and Time Lag
A. Howard, Lakewood, CO, USA

3:45pm
Determination of Structural Integrity of Profile-Walled Pipes using Cyclic Fatigue Loading
S. Choi, Hannam University, Daejeon, Korea Republic of (South)

4:10pm
Design Development of Large Thermoplastic Chambers for Storm Water Retention
T. McGrath, Simpson Gumpertz & Heger Inc., Waltham, MA, USA
4:35pm
**Stresses Imposed on Underground Buried Plastic Pipes in Waste Service**
C. Ziu, Orion Enterprises, Kansas City, KS, USA; Y. Chen, Becht Engineering, Liberty Corner, NJ, USA

5:00pm
**Design and Performance of Plastic Drainage Pipes in Environmental Containment Facilities**
R. Brachman, Queens University, Kingston, ON, Canada

5:25pm
**How to Crawl Through a Pipe – Terminology**
A. Howard, Lakewood, CO, USA

5:50pm
**Closing Remarks**
T. Walsh, Symposium Chair

6:00pm  **SYMPOSIUM ADJOURNS**