Notes From The Director

2018 is starting out with a flurry of activity vis-à-vis our mission to promote the precast industry and educate stakeholders on the many benefits of the products we produce. I will be attending the New England Precast Association winter conference on February 2nd followed by the NY Capital District Engineer’s Week event February 15 & 16 where I will have an exhibit booth and present a PDH program about precast utility structures. I will also be teaching a 2-hour class on basic design skills for estimators of precast products at The Precast Show in Denver on Friday February 23.

Finally, I just couldn’t resist showing off my granddaughter’s engineering potential (see below). Programs like the one at her school are so important for promoting and getting kids interested in STEM education. The future of our industry depends on it.

Warmest Regards,

Ronald E. Thornton, P.E.
BK6 Salt Lot Improvements—Brooklyn, NY

Submitted by David Wan, PE of Oldcastle Precast Building Systems Division

The NYC Department of Sanitation needed three salt storage facilities with eleven [11] compartments each to protect their salt piles during winter months. Precast concrete provided a simple, durable, and economical structure for this application. Stainless steel inserts, angles, and bolts were used to make connections between precast elements in order to resist corrosion.

Oldcastle Precast Building Systems designed and manufactured the following precast components for the three buildings:

- 25 pieces of 6" thick precast walls with wood grain ship-lap formliner finish
- 11 pieces of 10"x14" precast beams
- 16 pieces of 6" thick precast prestressed solid roof slabs

All three buildings were erected by the general contractor within one month during winter conditions in January 2017.

Project Credits:
Owner: NYC Department of Sanitation
Contractor: WWC Contracting
Engineer-of-Record: GHD Consulting Services, Inc.
Precast Manufacturer: Oldcastle Precast, Selkirk, NY
Pipe-to-Manhole Connectors—Resilient and Watertight

By Ronald Thornton, PCANY

The conveyance of wastewater from homes, businesses and public facilities to a treatment facility for process and safe disposal includes many components including tanks, manholes, pipes, wet wells, valve vaults, meter vaults, and others. Each of these components is part of a system that needs to be watertight in order to protect our environment from unwanted exfiltration and to prevent the infiltration of groundwater into the treatment facility. Having a resilient watertight connection between pipes and wastewater structures is critical to the integrity of the conveyance system.

Pipe-to-manhole connectors conforming to ASTM C923 “Resilient Connectors Between Reinforced Concrete Manhole Structures Pipes, and Laterals” are made to fit nearly any type and size of pipe including PVC, ductile iron, clay, concrete, etc. There are essentially two primary types of connectors including cast-in and post installed. Cast-in connectors have a waterstop ring that is cast directly into the wall of the structure. Post-installed connectors come with stainless steel expansion rings, tension bands and take-up devices for mechanically compressing the resilient portion of the connector to either a cored or cast hole in the wall of the structure.

ASTM C923 connectors are required to withstand a minimum hydrostatic test pressure of 13psi (30ft of head) for 10 minutes with no leakage.

Trelleborg Pipe Seals, Press-Seal Corporation, and A-Lok Products are Associate members of PCANY. Check out all of our members in the PCANY Buyer’s Guide located on our website.
NEPCA Winter Conference
The Northeast Precast Concrete Association will hold its Winter Conference at Mohegan Sun, Uncasville, CT on Friday February 2. NPCA president, Ty Gable, will be presenting a talk about embracing change titled “Hugging the Porcupine”. (Information)

Capital District Engineer’s Week Event
Will be held February 15-16 at the Albany Marriott on Wolf Road. PCANY will be exhibiting at this event and Director Ronald Thornton, PE will be presenting “Precast Utility Structures Design and Installation”(Information & Registration)

The Precast Show 2018
TPS 2018 will be taking place February 22-24, 2018 at the Denver, CO. Convention Center. The Precast Show is the largest precast-specific trade show in North America. (Information)