

2023 PEI Manufacturing Symposium

Initiatives for Our Future

Note: All times listed are Eastern time
Dress code for PEI events is Business Casual

Thursday 10-19-23 Registration, Board of Directors and Annual Membership Meetings

- 1:00 PM – 5:00 PM MFG Symposium Registration
- 3:00 PM – 5:00 PM PEI Board of Directors Meeting
- 7:00 PM – 9:30 PM Group Reception and Dinner

Friday 10-20-23 Manufacturing Symposium and Spouse Program

Spouse Activity and Lunch

- 9:00 AM – 2:00 PM TBD

Manufacturing Symposium

- 7:30 AM – 8:30 AM Registration and Check-in
- 8:30 AM – 8:45 AM Welcome and Introductions – Glenn Mealer (PEMCO International)
- 8:45 AM – 9:45 AM Lionglass, Dr. Nicholas Clark (Penn State University)

LionGlass is Penn State University's patent-pending zinc aluminosilicophosphate glass composition family that offers, for the first time, an alternative to soda lime silicate glasses. LionGlass provides optical transparency on par with soda lime silicate glass and high chemical corrosion resistance, while also providing over 10x the crack resistance. Most importantly, LionGlass lowers the melting and processing temperatures for glassmaking by 300-400°C while also eliminating the required use of carbonate batch materials. Instead of carbonates, LionGlass batches use other commonly available raw materials such as aluminum metaphosphate, disodium phosphate, and zinc oxide. On top of lowering the carbon footprint associated with glass manufacturing, LionGlass has the potential to provide significant savings to the manufacturer by lowering energy usage, prolonging furnace lifetime, and using cheaper refractory materials in furnace construction. The Mauro Group at Penn State is currently engaging with a wide variety of glass industry leaders to investigate the potential applications of LionGlass.

Dr. Nicholas Clark has been engaged in glass research at Penn State for the last 7 years. His undergraduate work involved studying the chemical durability of calcium-aluminosilicate glasses under Dr. Carlo Pantano. During his doctoral work he studied the relationship between controlled liquid-liquid phase separation in glass and mechanical properties under the guidance of Dr. John Mauro. He is currently a post-doctoral scholar at Penn State, where he is leading the development of LionGlass.

- 9:45 AM – 10:30 AM Individual table discussions on the LionGlass technology to explore ways this might be used to improve porcelain enameling and P/E products.
- 10:30 AM – 11:00 AM Break
- 11:00 AM – 12:00 PM David Logan (National Association of Homebuilders)

- 12:00 PM – 1:30 PM Lunch
- 1:00 PM – 1:30 PM ASTM B08.12 Subcommittee Meeting
- 1:30 PM – 2:00 PM “Auditing Application Equipment,” Ryan Allen (Gema US)
- 2:30 PM – 3:00 PM “Environmental Update,” Jack Waggener (AECOM)
- 3:00 PM – 3:30 PM Break
- 3:30 PM – 4:15 PM “Leachate Test Review,” Cullen Hackler (PEI)

The second round of small group discussions will relate to new Food Contact and Drinking Water regulations being developed in Europe and how we can be proactive in creating our own test.

- 4:15 PM – 5:00 PM “South American Enamel Association,” Stewart Hackler (PEI)

The third group discussion will center around how PEI can establish/operate a new arm to focus on providing the necessary meetings & events, training & assistance as well as the technical, marketing & promotional support for porcelain enameling in that region.

- 7:00 PM – 10:00 PM President’s Awards Reception and Banquet -

Saturday 10-21-23 Social Activities and Free Time

- 7:30 AM – 9:00 AM Breakfast (on your own)
- 9:00 AM – 2:00 PM Golf, tennis, spa, beach (tee times arranged by PEI)
- 9:00 AM – 6:00 PM Free time to enjoy the Kiawah Island area
- 6:00 PM – 9:00 PM Dinner - we will have several restaurant suggestions for small groups, etc. (Please note that this dinner is “on your own” and not a PEI group function)

Sunday 10-22-23 Free Time and Departures

Free time to enjoy the amenities of the greater Charleston, SC and Kiawah Island areas