

A Word from the Chairman:

The 2021 edition of PEI's Technical Forum returns to Louisville, KY and in our current COVID-19 world it will be a hybrid meeting: some people attending in-person and others attending virtually. PEI is striving to make the 2021 Tech Forum event available to our entire membership and industry, so the virtual component is a great solution this year. This is your chance to learn what is new in the world of porcelain enameling and pick up some ideas that will have a positive impact for you back in your plants and laboratories. We will have a full schedule of information-packed technical papers and practical shop-based presentations. This event is a must for everyone involved in porcelain enamel shop or laboratory operations as well as for those providing materials, equipment, chemicals, and services to the industry.

Thanks to the following Program Committee members; Charles Baldwin, Jason Butz, Peter Dority, Phil Flasher, Cullen Hackler, Stewart Hackler, Mike Horton, David Latimer, Joe Melaro, Frank Mohar, Glenn Pfendt, Jack Waggener, and Ted Wolowicz. This team has spent several months finalizing this program. It includes over 25 presentations on what is new in the world of porcelain enameling.

Our 36th Back-to-Basics Workshop gets us off to a great start on Tuesday, May 11th and is followed by the 30th Suppliers' Mart that evening. The traditional presentation of lectures and papers happens on Wednesday and Thursday during our 83rd Technical Forum.

Please send your registration form to PEI today and take advantage of the "early registration" discount. And, separately, be sure to make your hotel reservations directly with the Seelbach Hilton Hotel (1-800-333-3399). You can also book your room online with the link from the PEI website, www.porcelainenamel.com.

On behalf of the entire Tech Forum Program committee, I look forward to seeing you in Louisville in May, either face-to-face or virtually.

Monica Ebert, PhD, Chairman
2021 PEI Tech Forum Program Committee

This is a Tentative Program. Due to the complications of COVID-19 speakers may not know yet whether they can attend or present. We will update you with any changes to the program.

Wednesday May 12, 2021	83rd PEI Technical Forum and 30th Suppliers' Mart
8:30 AM - 8:45 AM	<u>Welcome and Introductions</u> Ted Wolowicz – PEI President Monica Ebert, PhD – Tech Forum Chairman
8:45 AM – 9:45 AM	<u>A. I. Andrews Memorial Lecture</u> “Energy Conservation,” Nicholas Turko, Worthington Energy Innovations
9:45 AM – 10:05 AM	<u>Porcelain Enamel Powder Enameling Systems I</u> “Water Heater Applications,” Marco Ghirimoldi, Wagner Group
10:05 AM – 10:20 AM	<u>Break</u>
10:20 AM – 11:20 AM	<u>Porcelain Enamel Powder Enameling Systems II</u> “Industry 4.0 Controls,” Jeff Hale or Phil Flasher, Gema US “Electrostatic Powder Spray,” Frank Mohar, Nordson Corporation
11:20 AM – 12:20 PM	<u>Drying and Firing</u> “Burner Systems,” Mike Horton, Worldwide Finishing & Supply “Comparison of Insulation in Firing Furnaces,” Paolo Colombo, Trasmetal S.p.A.
12:20 PM – 1:20 PM	<u>Lunch</u>
1:20 PM – 2:30 PM	<u>Laboratory Investigations I</u> “Can You Do More with Inkjet?” John Hickey, Ferro Corporation “Addressing the Challenges of P/E Engineering in a Global Corporation,” Peter Vodak, A.O. Smith Corporation “Ecomail: A Fresh Look at Direct-on Enameling,” Dennis Flannigan, Prince Minerals “Review of Antimicrobial Porcelain Enamel,” Ashton Kelchner, TOMATEC
2:30 PM – 2:45 PM	<u>Break</u>

- 2:45 PM – 3:35 PM Wet Enamel Processes
“Wet Enamel Application Technology,” TBA, Carlisle

“Wet Spray Equipment,” Chris Meid, Worldwide Finishing & Supply
- 3:35 PM – 4:45 PM Cleaning and Metal Preparation
“Process Optimization using Automation and Filtration Systems,” Suresh Patel, Chemetall/BASF

“Molten Salt: A Unique Medium for Recovering Parts with Defective Coatings,” Louis Pignotti, Kolene Corporation

“Long-Life Cleaner Process,” John O’Connor, Atotech USA
- 5:00 PM – 7:00 PM Suppliers’ Mart Reception
- 5:30 PM – 6:00 PM ASTM B08.12 Committee Meeting

Thursday May 13, 2021 **83rd PEI Technical Forum and Seminar**

- 8:30 AM - 8:40 AM Welcome and Introductions
- 8:40 AM – 9:30 AM Base Materials
“Reactive P/E Coated Fiber for Concrete Reinforcement”
Frank Kuchinski, Ceramics, Composites & Coatings, Inc.

“Flat Material that Stays Flat” Dean Linders, Red Bud Industries
- 9:30 AM – 10:15 AM Laboratory Investigations II
“Porcelain Enamel Toxicology,” Douglas Frederick, University of Louisville

“Virtual Technical Service for Pandemics and Other Travel Restrictions,” Marion Lucelo, Ferro Corporation
- 10:15 AM – 10:25 AM Break
- 10:25 AM – 11:45 AM Testing and Characterization I
“Contactless Thickness Gauge,” J. Horne, Nordson Corporation

“Microscopes and Instruments,” M. Bailey, Keyence

“IoT/Industry 4.0 Opportunities for the Porcelain Enamel Industry,” Charles Cote, CapGemini

11:45 AM – 12:15 PM

Porcelain Enamel Market

“Environmental Update,” Jack Waggener, AECOM

“Leachate Test Review,” Cullen Hackler, PEI

12:15 PM – 12:30 PM

PEI Committees and Programs

“ASTM B08.12,” Charles Baldwin, Ferro Corporation

“PEI Tech Forum Proceedings,” Monica Ebert, PhD, CST Industries

“2022 IEI Congress Preview,” Stewart Hackler, PEI

“The State of the Institute,” Stewart Hackler, PEI

12:30 PM - 1:30 PM

Lunch (for those attending the Design Seminar in-person)

1:30 PM – 3:30 PM

Design Seminar

Join us as some of the industry leaders are gathered to help with your design. Will include discussions on part design, process/line design, etc.

3:30 PM

2021 PEI Tech Forum Concludes