

A Word from the Chairman:

The 2023 edition of PEI's Technical Forum returns to Cincinnati, OH for the first time in many years from April 25-27. As we have offered in the past few years this will be a hybrid meeting; some people attending in-person and others attending virtually, though last year almost all of the attendees were in-person. PEI is striving to make the 2023 Tech Forum event available to our entire membership and industry, so the virtual component is a great solution again 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 shops 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, Cliff Bynum, Peter Dority, Monica Ebert, Phil Flasher, Cullen Hackler, Stewart Hackler, David Latimer, Joe Melaro, Frank Mohar, 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 38th Back-to-Basics Workshop gets us off to a great start on Tuesday, April 25th and is followed by the 32nd Suppliers' Mart that evening. The traditional presentation of lectures and papers happens on Wednesday and Thursday during our 85th 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 Westin Cincinnati. 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 Cincinnati in April, either face-to-face or virtually.

Ian Toupin, Chairman
2023 PEI Tech Forum Program Committee

Advance Program

2023 PEI Technical Forum, Suppliers' Mart and "Back-to-Basics" Workshop

Monday April 24th, 2022 Early Registration & Arrivals

4:00 PM – 6:00 PM Early arrivals & registration

Tuesday April 25th, 2022 38th Back-to-Basics Workshop and 32nd Suppliers' Mart

Chairman: Ian Toupin – Vibrantz Technologies

Faculty (still some TBD): Ian Toupin (Vibrantz), Cullen Hackler (PEI), Jeff Hoffmann (Paul O. Abbe), Jason Butz (Prince), Frank Mohar (Nordson), Chris Meid (Worldwide Finishing & Supply)

7:30 AM – 8:30 AM Registration

8:30 AM – 8:45 AM Welcome and Introductions

8:45 AM – 12:00 PM B2B Session One
Introduction to Porcelain Enamel
Steel (metal) selection
Design and fabrication
Cleaning and metal preparation
Wet P/E coating and Mill Additions

12:00 PM – 1:00 PM Lunch

1:00 PM – 5:00 PM B2B Session Two
Ball Milling
Electrostatic powder coating
Drying and firing
Inspection, handling and storage
Defect analysis and troubleshooting

3:00 PM – 5:00 PM PEI Board of Directors Meeting

5:30 PM – 7:30 PM Suppliers' Mart Reception

This is a Tentative Program. All times listed are Eastern Time (US)

Wednesday April 26th, 2023 85th PEI Technical Forum and 32nd Suppliers' Mart

8:30 AM - 8:45 AM

Welcome and Introductions

Glenn Mealer – PEI President

Ian Toupin – Tech Forum Chairman

8:45 AM – 9:45 AM

A. I. Andrews Memorial Lecture

“The Internet of Things, Dr. Mo Abuali, lotCo

9:45 AM – 10:30 AM

Laboratory Investigations I

“New Horizon with Direct-on Light Colours,” Christopher Myers, Pemco International

“Title TBA” Charles Baldwin, Vibrantz

10:30 AM – 10:45 AM

Break

10:45 AM – 12:00 PM

Pre-treatment for Porcelain Enamel Systems I

“Advanced Surface Finishing Techniques for Pre-Enamel Applications,” Stephen Taylor, Atotech

“Welding in Porcelain Enamel,” Mike Garcia, Linde

“Pre-treatment for Enameling Systems” TBA

12:00 PM – 1:00 PM

Lunch

1:00 PM – 2:40 PM

Testing and Processes

“Coatings and Inspection,” Jeff Truskowski, DeFelsko

“Automated Spray System,” Cliff Bynum, Worldwide Finishing & Supply

“Induction Porcelain Enameling,” James Lakeman, Glasslined Technologies

“Robotics for Enamel Spray,” Dave Wagenhauser, FANUC

2:40 PM – 3:00 PM

Break

3:00 PM – 4:15 PM

Drying and Firing

“Furnace Systems,” Chris Meid, Worldwide Finishing & Supply

“Temperature Profile Systems,” Mike Handscombe, Phoenix Temperature Measurement

“High Efficiency Burner Systems,” Steven Mickey, WS Burner Inc.

4:15 PM – 5:00 PM

Porcelain Enameling Q & A – Join us and several industry experts with your enameling questions. With years of combined experience, we can help you tackle any of your issues.

5:00 PM – 7:00 PM

Suppliers’ Mart Reception

5:30 PM – 6:00 PM

ASTM B08.12 Committee Meeting

Thursday April 27th, 2023

85th PEI Technical Forum and Seminar

8:30 AM - 8:40 AM

Welcome and Introductions

8:40 AM – 9:40 AM

“Materials Science,” Presenter TBA, American Ceramic Society

9:40 AM – 10:30 AM

Porcelain Enamel Powder

“Powder Application Systems,” Ryan Allen, Gema

“Powder Application Preventative Maintenance,” Frank Mohar, Nordson Corporation

10:30 AM – 10:45 AM

Break

10:45 AM – 11:15 AM

Porcelain Enamel Market

“Environmental Update,” Jack Waggener, AECOM

“Leachate Test Review,” Cullen Hackler, PEI

11:45 PM – 12:30 PM

PEI Committees and Programs

“ASTM B08.12,” Charles Baldwin, Vibrantz Technologies

“PEI Tech Forum Proceedings,” Ian Toupin, Vibrantz Technologies

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

12:30 PM - 1:30 PM

Lunch (for those attending the Shepherd Color Demonstration)

1:30 PM – 2:30 PM

Live Demonstration

Induction Porcelain Enamel demonstration by James Lakeman of Glasslined Technologies. Location TBA – We will either head to the nearby Shephard Color or Mr. Lakeman will set up his generator and equipment in the hotel lot.

2:30 PM

2023 PEI Tech Forum Concludes