

A Word from the Chairman:

The 2024 edition of PEI's Technical Forum returns to Louisville, KY at The Galt House from April 9-11. PEI is striving to make the 2024 Tech Forum event available to our entire membership and industry. 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, Jason Butz, Cliff Bynum, Monica Ebert, Phil Flasher, Cullen Hackler, Stewart Hackler, David Latimer, David Mitchell, Frank Mohar, Chris Myers, Jeff Robenson, and Ted Wolowicz. This team has spent several months finalizing this program. It includes several presentations on what is new in the world of porcelain enameling.

Our 39th Back-to-Basics Workshop gets us off to a great start on Tuesday, April 9th and is followed by the 33rd Suppliers' Mart that evening. The traditional presentation of lectures and papers happens on Wednesday and Thursday during our 86th 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 Galt House. 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 April.

Ian Toupin, Chairman
2024 PEI Tech Forum Program Committee

Advance Program

2024 PEI Technical Forum, Suppliers' Mart and "Back-to-Basics" Workshop

Monday April 8th, 2024 Early Registration & Arrivals

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

Tuesday April 9th, 2024 39th Back-to-Basics Workshop and 33rd Suppliers' Mart

Chairman: Ian Toupin – Vibrantz Technologies

Faculty (still some TBA*): Glenn Pfenndt (Ramtec), Pete Kullen (US Steel) Scott Burrows (Worldwide Finishing), Stephen Taylor (Atotech) Jeff Hoffmann (Paul O. Abbe), Jason Butz (PEMCO), Ryan Allen (Gema US), Bob Herrick (Worldwide Finishing & Supply), Ian Toupin (Vibrantz)

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

5:30 PM – 7:30 PM Suppliers' Mart Reception
Our exhibition will take place in the hotel after the completion of the presentations. We will provide you appetizers and drinks at this wonderful networking opportunity.

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

Wednesday April 10th, 2024 86th PEI Technical Forum and 33rd 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

“LionGlass,” Dr. Nicholas Clark, Penn State University

9:45 AM – 10:45 AM

Laboratory Investigations

“Enamel R&D Laboratory Investigation,” Charles Baldwin and Ian Toupin, Vibrantz Technologies

“Title TBA,” Christopher Myers, PEMCO International

10:45 AM – 11:00 AM

Break

11:00 AM – 12:00 PM

Powder Application Systems

“Automation in Powder Application,” Frank Mohar, Nordson Corporation

“Powder Application,” Ryan Allen, Gema US

12:00 PM – 1:00 PM

Lunch

1:00 PM – 2:30 PM

“Laser Firing of Porcelain Enamel,” Toby Strite, IPG Photonics

“PFAS Regulations,” Tom Lee, BCP Law

2:30 PM – 2:45 PM

Break

2:45 PM – 4:00 PM

Enamel Systems and Processes

“GE Enamel Case Study,” Cliff Bynum, Worldwide Finishing & Supply

“Induction Firing,” Glenn Pfendt, RAMTEC

“Pathway to a New Vit Steel,” Warren Norton, SRJ Steel

4:00 PM – 4:15 PM

Break

4:15 PM – 5:15 PM

Pre-Treatment for P/E Systems

“Wheelblast Machine Surface Preparation,” Brian Hastings and James Holland, Pangborn

“Stamping and Drawing,” Zach Magness and Brandon Stivers,
Calvary Industries

5:30 PM – 7:30 PM

Suppliers’ Mart Reception

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5:30 PM – 6:00 PM

ASTM B08.12 Committee Meeting

Thursday April 11th, 2024

86th PEI Technical Forum and Seminar

8:30 AM - 8:40 AM

Welcome and Introductions

8:45 AM – 9:45 AM

Drying, Firing and Furnaces

“TTI Case Study – Automated Flowcoat Process,” Ryan Limpus, Worldwide Finishing & Supply

“Self-Recuperative Burners, Low NOx,” Paolo Colombo, Trasmetal

9:45 AM – 10:00 AM

Break

10:00 AM – 10:30 AM

“Enamelability and Avoiding Fishscale,” Pete Kullen, US Steel

10:30 AM – 11:00 AM

“Particle Size Measurement,” Joe Wolfgang, Malvern

11:00 PM – 11:30 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

12:00 PM - 1:00 PM

Lunch (for attendees of the distillery tour only)

1:00 PM – 3:00 PM

Tour

Tour of Evan Williams Bourbon Experience located just a few minutes from the hotel. Additional payment is required and can be found on the registration form.

3:00 PM

2024 PEI Tech Forum Concludes