

A Word from the Chairman:

The 2020 edition of PEI's Technical Forum returns to Louisville, KY and it is shaping up to be another great event for the porcelain enameling industry. Here 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'll 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, Jason Crisp (Vice-Chair), Peter Dority, Phil Flasher, Cullen Hackler, Stewart Hackler, Mike Horton, David Latimer, Joe Melaro, Frank Mohar, Glenn Pfenndt, 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 35th Back-to-Basics Workshop gets us off to a great start on Tuesday, May 12 and is followed by the 29th Suppliers' Mart that evening. The traditional presentation of lectures and papers happens on Wednesday and Thursday during our 82nd Technical Forum. We are delighted to have Mr. Mo Abuali (IoTco) speaking on Industry 4.0 for the A. I. Andrews Memorial Lecture.

On Thursday afternoon we will have a tour of GE – FirstBuild facility in Louisville limited to 25 participants.

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). The PEI room rate is \$179 plus taxes. 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,

Monica Ebert, PhD, Chairman
2020 PEI Tech Forum Program Committee

Advance Program

2020 PEI Technical Forum, Suppliers' Mart and "Back-to-Basics" Workshop

Monday May 11, 2020 Early Registration & Arrivals

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

Tuesday May 12, 2020 35th Back-to-Basics Workshop and 29th Suppliers' Mart

Chairman: Monica Ebert, PhD – CST Industries

Faculty: Charles Baldwin (Ferro), Kevin Buchanan (PolyVision), Dave Latimer (Whirlpool), Ken Kaluzny (Coral), Jeff Hoffmann (Paul O. Abbe), Jason Butz (Prince), Frank Mohar (Nordson), Jeff Robenson (Drennan/Ronalco) and Ian Toupin (Ferro)

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

5:00 PM – 7:00 PM Suppliers' Mart Reception

Wednesday May 13, 2020

82nd PEI Technical Forum and 29th Suppliers' Mart

8:30 AM - 8:45 AM

Welcome and Introductions

Michael Cukier – PEI President

Monica Ebert, PhD – Tech Forum Chairman

8:45 AM – 9:45 AM

A. I. Andrews Memorial Lecture

“Internet of Things,” Mo Abuali, IoTco

9:50 AM – 10:20 AM

Laboratory Investigations I

“ISO Water Resistance Testing,” TBA, A. O. Smith Protective Coatings

“Matte Finish Electrostatic Powder Coating for Cast Iron,” Ashton Kelchner, TOMATEC

10:20 AM – 10:40 AM

Break

10:40 AM – 11:25 AM

Laboratory Investigations II

“Welding Defect,” Ian Toupin, Ferro Corporation

“Current Food Contact Regulations for Porcelain Enamel,” Dennis Flannigan, Prince Corporation

“Migration Behavior of Vitreous Enamel Coatings with Drinking Water,” Yasin Yilmaz, Gizemfrit

11:30 AM – 12:15 PM

Porcelain Enamel Powder Enameling Systems

“Transition to Robotic Dry Powder Spray,” Frank Mohar, Nordson

“Electrostatic Powder Case Study,” Chris Merritt, Gema USA

12:15 PM – 1:15 PM

Lunch

1:15 PM – 2:15 PM

Drying, Firing, and Furnaces

“History of the Furnace,” Mike Horton, Worldwide Finishing & Supply

“High Efficiency Burners for Porcelain Enameling,” Steven Mickey, WS Thermal Process Technology

“Keeping Your Furnace Healthy,” Jeff Robenson, Drennan/Ronalco

2:15 PM – 2:30 PM

Break

2:30 PM – 4:00 PM	<u>Testing and Characterization</u> “Coating Testing – Proper Techniques and Calibration,” Chris Beninati, Elcometer “Holiday Testing of P/E Lined Ductile Iron Pipe,” Cory Allen, Vulcan Painters, Inc. “Automatic Defect Analysis,” Bobby Benson, Nordson “Color Measurement,” TBA, BYK Gardner
4:05 PM – 5:00 PM	<u>Cleaning and Metal Preparation</u> “Blasting Basics – A Review of Blast Cleaning Processes,” Mat Loutzenheiser, Pangborn Corp. “Phosphate Free Cleaners,” John O’Connor, Atotech USA “Molten Salt: A Unique Medium for Recovering Parts with Defective Coatings,” Louis Pignotti, Kolene
5:00 PM – 7:00 PM	<u>Suppliers’ Mart Reception</u>
5:30 PM – 6:00 PM	<u>ASTM B08.12 Committee Meeting</u>

Thursday May 14, 2020 **82nd PEI Technical Forum and Facility Tour**

8:30 AM - 8:40 AM	<u>Welcome and Introductions</u> Jason Crisp – Tech Forum Vice Chairman
8:40 AM – 9:10 AM	<u>Porcelain Enamel Raw Materials</u> “Impact of EV Development on Cobalt Markets,” Marino Polpetti and Andreas Donati, Umicore
9:15 AM – 10:45 AM	<u>Wet Enamel Materials & Processes</u> “Update on Reactive Porcelain Enamel Coated Wire for Concrete Reinforcement,” Dr. Frank Kuchinski, CCC “Robotic Technology for Powder and Powder Enamel Coatings,” Mike Dilday, FANUC America “Enameling of Ductile Iron vs. Cast Iron,” Bob Hollenbaugh, US Pipe Fabrication “New Colors,” Kyla McKinley, Ferro Corporation

“Flat Materials that Stays Flat – Producing Laser Quality Sheets,” Dean Linders, Red Bud Industries

10:45 AM – 11:00 AM

Break

11:00 AM - 11:30 AM

Porcelain Enamel Markets

“Environmental - New Silica Rule, EPA, OSHA, TSCA, etc.,”
Jack Waggener, AECOM

“An Update on the Porcelain Enamel Market,” Cullen Hackler,
PEI

11:30 AM – 12:15 PM

PEI Committees and Programs

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

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

“2021 IEI Congress Preview,” Stewart Hackler, PEI

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

12:15 PM - 1:15 PM

Lunch (for FirstBuild tour participants only)

1:30 PM – 3:30 PM

Tour – GE FirstBuild

(Specific registration is required)

3:30 PM

2020 PEI Tech Forum Concludes

2020 PEI Tech Forum & Back-to-Basics (B2B)

Registration Form

(online form at www.porcelainenamel.com)

Attendee Information

Name	
Company	
Address	
Address	
City, State, Zip	
Phone	
Fax	
E-mail	
Website	

Registration Fees (circle your choices)

	B2B Workshop	Technical Forum	Tour
PEI member company			
Before April 17, 2020	\$370.00	\$395.00	\$10.00
After April 17, 2020	\$420.00	\$445.00	\$10.00
Non member			
Before April 17, 2020	\$525.00	\$555.00	\$10.00
After April 17, 2020	\$575.00	\$605.00	\$10.00

Payment Information

Amount (check enclosed or charge)	
Credit card number (Visa, MC & AMEX only)	
Expiration date	
CVV Number	
Name on card	
Address and Zip Code (if different than above)	
Signature	

Comments: _____

Please make your room reservations directly with the Seelbach Hilton Hotel (1-800-333-3399) or via the booking link in the email – be sure to ask for the PEI room block and rate of \$179 plus tax.

**Contact the PEI office with any questions & mail or fax the completed form at your earliest convenience to: PEI, PO Box 920220, Norcross, GA 30010
Phone 770-676-9366 Fax 770-409-7280 www.porcelainenamel.com**