

A Word from the Chairman:

The 2019 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 (Chair), Monica Sawicki, PhD (Vice chair), Jason Butz, 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 34th Back-to-Basics Workshop gets us off to a great start on Tuesday, May 7 and is followed by the 28th Suppliers' Mart that evening. The traditional presentation of lectures and papers happens on Wednesday and Thursday during our 81st Technical Forum. We are delighted to have Mr. Tom Kiser (Worthington Energy Innovations) presenting the A I Andrews Memorial Lecture.

On Thursday afternoon we will have a seminar titled "Furnaces and Advanced Furnace Maintenance" which will be coordinated by Jeff Robenson, Kevin Coursin and Mike Horton.

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,

Charles Baldwin, Chairman
2019 PEI Tech Forum Program Committee

Advance Program - Tentative

2019 PEI Technical Forum, Suppliers' Mart and "Back-to-Basics" Workshop

Monday May 6, 2019 Early Registration & Arrivals

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

Tuesday May 7, 2019 34th Back-to-Basics Workshop and 28th Suppliers' Mart

Chairman: Charles Baldwin – Ferro Corporation

Faculty: Jason Butz (Prince), Mike Horton (Worldwide Finishing),
David Latimer (Whirlpool), Frank Mohar (Nordson), Suresh
Patel (Chemetall), Glenn Pfendt (A. O. Smith) 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
 Steel (metal) selection
 Design and fabrication
 Cleaning and metal preparation
 P/E Frit, raw materials & mill additions

12:00 PM – 1:00 PM Lunch

1:00 PM – 5:00 PM B2B Session Two
 Wet P/E coating
 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 8, 2019

81st PEI Technical Forum and 28th Suppliers' Mart

8:30 AM - 8:45 AM

Welcome and Introductions

Michael Cukier – PEI President

Charles Baldwin – Tech Forum Chairman

8:45 AM – 9:45 AM

A. I. Andrews Memorial Lecture

“America’s Energy Coach,” Tom Kiser, Worthington Energy Innovations

9:50 AM – 10:05 AM

Porcelain Enamel Markets

“An Update on the Porcelain Enamel Market,” Sandra Frydryk, Ferro Corporation

10:05 AM – 10:25 AM

Break

10:25 AM – 12:00 PM

Laboratory Investigations

“The Effect of Application Equipment on Powder Performance,” Ian Toupin, Ferro Corporation

“Water Heater Enamel Solubility: Temperature and Energy Impact,” Roger Wallace, A. O. Smith Protective Coatings

“Electrostatic Powder Application of Exhaust Pipes for Stoves,” Dieter Jacobs and Johan DeSoete, Prince Minerals

“Investigation of Low Lithium/Lithium Free Frit to Meet German Food Contact Regulation,” Ashton Kelchner, TOMATEC America

“Critical Raw Materials in the Porcelain Enamel Industry,” Eric Jelen, Ferro Corporation

12:00 PM – 1:00 PM

Lunch

1:00 PM – 2:30 PM

Enameling Processing and Systems

“Advancements in Robotic Coatings Technologies and the Benefits They Bring,” Mike Dilday, FANUC America

“Reduce, RECLAIM, Reuse, Recycle: Comparing Porcelain Coating Reclamation Systems,” Glenn N. Pfendt, A. O. Smith Corporation

“Wet Spray Guns and Enamel Delivery,” Tim Byrne, Worldwide Finishing and Supply

“Larger Format Digital Printing for Enamels,” Mark Wood, Digital Ceramics Ltd.

2:30 PM – 2:45 PM	<u>Break</u>
2:45 PM – 3:45 PM	<u>Enameling Equipment and Controls</u> “Advanced Furnace Maintenance,” Chris Meid, Worldwide Finishing and Supply “Application of Non-Contact Coating Thickness Measurement,” Martin Rola and Andor Bariska, Sapience Automation
3:45 PM – 5:15 PM	<u>Cleaning and Metal Preparation</u> “Reducing Water Consumption While Maintaining Quality,” John O’Connor, Atotech USA “Chemical Process Sustainability: Don’t Forget the Physics,” Ken Kaluzny, Coral Chemical Company “Chemical Cleaning,” Scott Schaff, Americo Chemical “Basting Basics – A Review of Blast Cleaning Processes,” Mat Loutzenheiser, Pangborn
5:15 PM – 7:15 PM	<u>Suppliers’ Mart Reception</u>
5:30 PM – 6:00 PM	<u>ASTM B08.12 Committee Meeting</u>

Thursday May 9, 2019 **81st PEI Technical Forum and Furnace Seminar**

8:30 AM - 8:40 AM	<u>Welcome and Introductions</u> Monica Sawicki, PhD – Tech Forum Vice Chairman
8:40 AM – 9:15 AM	<u>Enamel Products & Processes</u> “Update on Reactive Porcelain Enamel Coated Wire for Concrete Reinforcement,” Dr. Mark McGinley, University of Louisville “Heat Transfer – Radiation, Convection and Conduction,” Marty Sawyer, Trimac Industrial Systems
9:20 AM – 10:30 AM	<u>Powder Enameling Systems</u> “New Developments in Electrostatic Powder Systems,” Frank Mohar, Nordson Corporation “Color Change Enamel Systems,” Joe Glassco, Wagner Systems

“The Robots Are Coming, The Robots Are Coming!
Smart Factory Coating Applications Embracing the Use of
Robots,” Jeff Hale, Gema

10:30 AM – 10:45 AM

Break

10:45 AM - 11:40 AM

Porcelain Enamel Environmental Issues

“Cobalt and Other Conflict Minerals,” P. Mishra, Umicore

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

“Complying with the New Silica Rule - New Materials,
Equipment and/or Measurements,” Glenn N. Pfendt, A. O.
Smith Corporation

11:45 AM – 12:15 PM

PEI Committees and Programs

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

“PEI Tech Forum Proceedings,” Charles Baldwin, Ferro
Corporation

“2018 IEI Congress Review,” Glenn Pfendt, A. O. Smith
Corporation

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

12:15 PM - 1:15 PM

Lunch (lunch for “Furnace” seminar participants only)

1:15 PM - 4:15 PM

Seminar - Furnaces and Firing Technologies

(Specific registration is required)

We will have three presentations and then ask the speakers to remain as a panel to answer questions, etc. from the audience. Please send any questions that you have to us early and we will be sure they are asked of the panel.

4:15 PM

2019 PEI Tech Forum Concludes

2019 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	Furnace Seminar
PEI member company			
Before April 15, 2019	\$370.00	\$395.00	Confirm only
After April 15, 2019	\$420.00	\$445.00	Confirm only
Non member			
Before April 15, 2019	\$525.00	\$555.00	Confirm only
After April 15, 2019	\$575.00	\$605.00	Confirm only

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) – 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**