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 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 35th Back-to-Basics Workshop gets us off to a great start on Tuesday, August 11th 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.

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 August 10, 2020  Early Registration & Arrivals
4:00 PM – 6:00 PM  Early arrivals & registration

Tuesday August 11, 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 August 12, 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

  “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 Defects,” 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,” Phil Flasher or Jeff Hale, 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 and Paolo Colombo, Trasmetal SpA

  “Keeping Your Furnace Healthy,” Jeff Robenson, Drennan/Ronalco
2:15 PM – 2:45 PM  Break

2:45 PM – 4:00 PM  Testing and Characterization
“Coating Testing – Proper Techniques and Calibration,” Chris Beninati, Elcometer

“Automatic Defect Analysis,” Bobby Benson, Nordson

“Color Measurement,” TBA, BYK Gardner

4:00 PM – 5:00 PM  Cleaning and Metal Preparation

“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  Suppliers’ Mart Reception

5:30 PM – 6:00 PM  ASTM B08.12 Committee Meeting

Thursday August 13, 2020  82nd PEI Technical Forum and Facility Tour

8:30 AM - 8:40 AM  Welcome and Introductions
Jason Crisp – Tech Forum Vice Chairman

8:40 AM – 9:10 AM  Porcelain Enamel Raw Materials
“Impact of EV Development on Cobalt Markets,” Marino Polpetti and Andreas Donati, Umicore

9:15 AM – 10:45 AM  Wet Enamel Materials & Processes
“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


“Matching and Developing 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 *Tentative*
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

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<thead>
<tr>
<th>Name</th>
<th>Company</th>
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<th>City, State, Zip</th>
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### Registration Fees (circle your choices)

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<td>PEI member company</td>
<td>$370.00</td>
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### Payment Information

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Comments: _____________________________________________________________

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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