

# SHOW PREVIEW

## FABTECH offers advancement for your finishing operations

CCAI's FINISHING Pavilion at FABTECH is where the finishing industry comes together to see what's now, what's new, and what's next.

Alicia Tyznik *Editor*

Investing in products and services, learning from industry experts, and networking with others is what FABTECH is all about. It's been eight years since the Chemical Coater's Association International's (CCAI's) FINISHING Pavilion & Education Program debuted at FABTECH in Atlanta, and time has proven that FABTECH is the place for finishing professionals to see the latest in finishing equipment, materials, and auxiliary supplies while they enhance their skills and exchange best practices. Your plans should be well underway to attend FABTECH 2018 from November 6-8 at the Georgia World Congress Center in downtown Atlanta.

With a short time to go until the show opens its doors, the FINISHING Pavilion at FABTECH 2018 is sold out with nearly 200 exhibitors. More than 35,000 attendees are expected to visit the show floor that covers over 650,000

net square feet of exhibit space. More than 1,500 exhibitors showcasing everything from welding, forming, fabricating, and stamping to finishing will share the exhibit floor. The CCAI FINISHING Pavilion is packed with suppliers that will bring countless products, services, innovative ideas, and equipment to attendees interested in all aspects of the finishing industry.

Finalizing plans to attend FABTECH now is critical to ensure you get the best hotels at the best rates, secure reasonable airfare to Atlanta, and reserve seats in the finishing education sessions. Visitors are encouraged to attend FABTECH for multiple days to take advantage of everything the event has to offer. "You can't explore the show floor, participate in education sessions, and attend our special events in one day," says Anne Goyer, CCAI executive director. "There are so many things to see and do at FABTECH that you need

two or three days to visit with exhibitors, attend sessions that are important to you, and enjoy networking events that allow you to meet other attendees."

"I've been amazed to watch the growth of CCAI's FINISHING Pavilion since we first partnered with FABTECH in 2010," says Goyer. "We have continually worked to diversify our educational offerings and bring new and innovative presentations to the finishing sessions. Our comprehensive program and show floor for all finishing industry segments makes FABTECH the place where the finishing industry comes together each year."

### Education

While you're at the show, don't forget to attend some of CCAI's FINISHING educational sessions taught by finishing industry experts. There are significant technical sessions for

## More info

**Location.** FABTECH 2018 will be held in the heart of downtown Atlanta at the Georgia World Congress Center, 285 Andrew Young International Blvd. NW, Atlanta, GA 30313; [www.gwcca.org](http://www.gwcca.org). MARTA rail and buses and taxis run throughout the city and to and from Hartsfield-Jackson Atlanta International Airport. Shuttle service is available at most downtown hotels.

**Hotels.** Special discounted hotel rates are available through the show's official housing partner, on-Peak. The easiest way to reserve your room is to follow the instructions under the Hotel & Travel tab on the show website. A free shuttle service will run daily between the convention center and official FABTECH hotels.

**Show hours.** 10:00 a.m. to 6:00 p.m. on Tuesday, November 6; 9:00 a.m. to 5:00 p.m. on Wednesday,

November 7; 9:00 a.m. to 4:00 p.m. on Thursday, November 8.

## Sponsoring associations.

Chemical Coaters Association International (CCAI); Fabricators & Manufacturers Association, Int'l (FMA); SME; American Welding Society (AWS); and Precision Metalforming Association (PMA).

**Registration.** Click on the yellow register button on the top of the FABTECH home page to register. Attendees can register for the exhibits for free until Friday, November 2, or present your CCAI membership card at onsite registration. After November 2 and for non-CCAI members, a \$50 registration fee applies for the show. FINISHING Pavilion exhibitors can also provide you with an expo pass that will allow you free onsite show registration. Contact any FINISHING Pavilion exhibitor for a pass to use onsite if you cannot preregister.

CCAI members also receive discounted pricing to attend the FINISHING Education Program at FABTECH. CCAI members must have their membership number available when registering to get the member discount. Plus, remember everyone can save 30 percent off pricing by entering the code FINISHING30 when registering. Call the CCAI office at if you cannot locate your membership number.

**Contact info.** For more information about CCAI's FINISHING Pavilion, contact Andy Goyer at CCAI at 941/373-1830 or [andy@goyermtg.com](mailto:andy@goyermtg.com). For general questions about FABTECH, call 888/394-4362 or email [information@fabtechexpo.com](mailto:information@fabtechexpo.com). The official show website is [www.fabtechexpo.com](http://www.fabtechexpo.com).

both finishing novices and industry experts. All sessions are two hours in length and offer practical knowledge you can apply as soon as you get back to your shop.

Take time to review all of the finishing sessions and presentation descriptions being offered before you get to the show. A complete list is available on the show website. In addition, CCAI is offering 30 percent off any FINISHING educational session by using the code FINISHING30 when you register.

## Exhibition

CCAI has packed the FINISHING Pavilion with exhibiting companies that will bring countless products, services, innovative ideas, and equipment to finishers interested in all finishing technologies.

In addition to the finishing section, there are other technical pavilions dedi-

cated to metalforming, welding, 3D/additive manufacturing, forming and fabricating, and tube and pipe. For a complete list of the more than 1,500 exhibitors at FABTECH, visit the show website.

## Special events

All FABTECH attendees are invited to enjoy several special events at the show, including keynote presentations and expert panel discussions. The following are some of the networking events you can choose from to enhance your show experience.

**Keynote presentations.** Embracing the wildly popular TED-style concept, FABTECH 2018 will kick off with an exciting format for the opening keynote. "FABx Tech Talks" will be held Tuesday, November 6, at 8:45 a.m. The presentation will spotlight visionary leaders who will motivate and inspire attendees via short inspirational

talks on the topics of transformation, growth, advancement, and expansion for the future of manufacturing. Come hear how these leaders are driving innovation to take their businesses to the next level.

The second keynote will be held on Wednesday, November 7, at 8:30 a.m. "What a Ride: Life, Family, Community, and the Race Track" will be pre-





*FABTECH crowd gathers before show opening.*

Wednesday, November 7, at 10:30 a.m. This lively discussion will bring together a panel of experts who will share a new perspective and help your company understand how to adapt and attract the millennial generation of employees. Topics covered will include best practices in such areas as creating a culture of care, communication, technology, teamwork, and mentoring.

“State of the Industry” will be held on Thursday, November 8, at 12:30 p.m. The manufacturing industry is in a constant state of transformation and manufacturing businesses are managing frequent changes in customer needs, handling competitor changing landscapes, and focusing on profit margins and revenue growth. Come and hear experts discuss the issues impacting manufacturing, including steel and commodity prices in general, chronic labor shortages, and global trade.

**Women of FABTECH Breakfast.**

Join your colleagues at a networking breakfast celebrating the importance of women in the manufacturing sector. This event will be held on Wednesday, November 7, from 8:00 to 10:00 a.m. It aims to foster relationships and dialogue between supporters and practitioners in the field. The breakfast will feature Laura Cox Kaplan, founder and host of the popular “She Said, She Said” podcast,

sented by NASCAR icon and philanthropist Kyle Petty. During this presentation, Petty will take audiences on an anecdotal journey through his life as a businessman, philanthropist, and as one of NASCAR’s most respected drivers. He’ll explore such topics as consistently striving for excellence, living up to your promises, teamwork, community, and commitment to family.

“Make Way for Gen Z!” will be held on Thursday, November 8, at 8:30 a.m. This third keynote, presented by best-selling authors Jonah and David Stillman, will discuss how a new generation is starting to hit the workplace and why no one is talking about it yet. Who are Generation Z? What has shaped them? What are their expectations around careers and the workplace? What’s it going to take to get this generation in the door, on board, and up to speed? Generation expert David Stillman teams up with his Generation Z son Jonah for this fresh and innovative presentation that will shed light on what makes this newest generation tick.

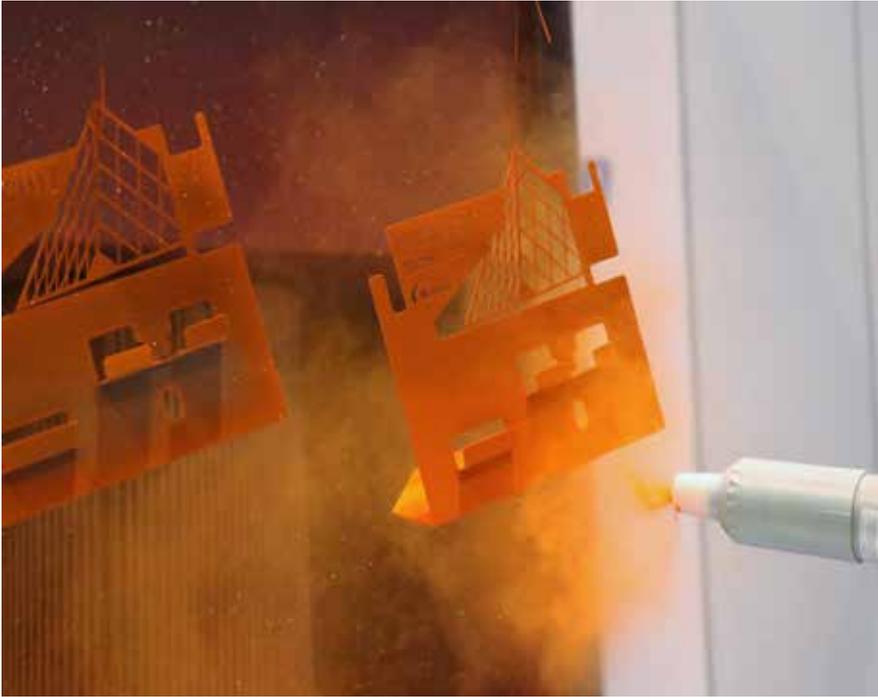
**Expert panel presentations.** There will be three expert panels held this year. “Innovate, Accelerate, and Advance Manufacturing” will take place on Tuesday, November 6, at 12:30

p.m. Learn how companies are using innovation and advanced technologies to stay at the forefront of manufacturing and how they embrace disruptive technologies to remain competitive and profitable. The panel will focus on the importance of manufacturing to the economy, jobs, and new manufacturing processes to accelerate innovation for the fourth industrial evolution.

“Manufacturing and the New Generation Workforce” will be held on



*Women in Finishing allows for networking in CCAI's booth.*



*CCAI's FAB to FINISH Production Experience allows attendees to follow a part from fabrication to finished product.*

interviewing BASF's Veronica Braker, VP, Operations Performance Materials North America. Braker is a certified Six Sigma Black Belt and Master Black Belt with a deep understanding of operational excellence and a passion for improving the representation of women in manufacturing and technical roles. The breakfast will conclude with a tech tour on the show floor. The cost to attend is \$25.

**Industry Night at Mercedes-Benz Stadium.** Enjoy an evening of fun, food, drinks, and networking during this event on Tuesday, November 6, starting at 6:30 p.m. Located just steps from the Georgia World Congress Center, the Mercedes-Benz Stadium is Atlanta's newest world-class sports and entertainment complex and home to the Atlanta Falcons. The evening will include exclusive access to the field, on-

field activities, stadium tours, and a keynote and meet-and-greet with special guest and legendary football coach Steve Spurrier. The advance ticket price is \$75.

**CCAI's FAB to FINISH Production Experience.** For the second year in a row, this program will offer attendees the opportunity to experience part production from fabrication through finishing on the exhibit floor. Participants will pick up their part in the fabrication portion of the show and will be directed to exhibitors in the FINISHING Pavilion, where the parts will be pretreated, coated, and cured for attendees to take back to their plant or office.

**CCAI's Women in Finishing Reception.** On Wednesday, November 7, at 4:00 p.m., CCAI will host a reception in their booth (B4700), providing an opportunity for women in the finishing industry to network and socialize with their peers.

**RUN4MFG 5K.** The fifth edition of this race will be held on Thursday, November 8, from 6:30 to 8:30 a.m. You can run or walk the course through Centennial Olympic Park to show your support for the future of manufacturing. It's a great way to meet up with other attendees and exhibitors while supporting the charitable foundations of the sponsoring associations. There is an additional fee of \$35 to participate (the cost increases to \$50 after November 2). **PC**

# EDUCATION PROGRAM



CCAI FINISHING education sessions are interactive.

## Conference sessions

**F**ABTECH 2018 will offer several conference tracks offering more than 100 targeted technical, operational, economic, and managerial sessions for beginners and advanced professionals alike. All sessions focus on practical knowledge that you can immediately implement. In addition to CCAI's finishing track detailed on these pages, the conference will include tracks on stamping, cutting, forming and fabricating, job shop solutions, automation and robotics, lean manufacturing, management, tube and pipe, and welding. A full conference schedule is available at [www.fabtechexpo.com](http://www.fabtechexpo.com). The schedule here is current as of September 18.

## Finishing Track

**Tuesday,  
November 6**

**10:30 a.m. to 12:30 p.m.**

### **C20: Building Blocks of Powder Coating**

*Building Blocks and Basics for an Effective Powder Coating System*

**Speakers:** John Sjudes, Midwest Finishing Systems; Frank Mohar, Nordson; Michael Withers, Axalta Coating Systems

Whether you are planning on converting from an existing liquid paint system or getting into powder coating from scratch, there are essential elements, or fundamental needs, required to ensure your best chance of

success. This presentation will discuss the requirements of a well-designed, high-performing powder coating system, from pretreatment and powder material selection to powder application and recovery to curing.

### **C21: Fundamentals of a Successful E-Coat Operation**

*Fundamentals of a Successful Electrocoating Operation*

**Speakers:** Chad Andrae, Therma-Tron-X; Dustin Jaeger, Axalta Coating Systems

Electrocoat is the process of using an electrical field to migrate charged colloidal particles onto an oppositely charged conductive electrode. It is a highly efficient process that offers many functional and performance features. This session will review how the process works, when electrocoat is a good choice, technology options, how to control costs and maximize the efficiency of the system, and basic troubleshooting.

dling throughout the plant will lead to additional productivity gains.

#### *Masking Solutions*

**Speakers:** Christopher H. Malone, Mike Connell, and Hans Nilarp, Caplugs

Masking is the art of protecting an area from any form of metal finishing. We will discuss how standard and custom masking solutions can help increase profits by reducing waste, labor, and rework. Masking products can be used in all forms of metal finishing processes, and in often times are used. We will also discuss types of materials used in masking products and why selecting the right material is important.

#### **C32: New or Improve? What's Better for Your Finishing System?**

*A Case Study Judging the Feasibility of Purchasing a New Finishing System*

**Speaker:** Nicholas Liberto, Powder Coating Consultants

Making equipment selections for a finishing operation can be difficult, as the equipment features and designs can be diverse and numerous. Successful finishing operations "right-sized" their equipment selections to meet defined production, flexibility, and quality goals to ensure their capital funds are spent wisely. Attendees of this workshop will receive a complete overview of the process considerations that affect capital costs and operational costs while meeting production, flexibility, and quality goals.

#### *Knowing When to Upgrade Your System*

**Speaker:** Matt Ambrose, Nordson

You have a great running powder booth, but your existing application equipment is getting up in age. When is the time to start thinking about upgrading? There are three major factors to consider: benefits such as improved coatings, reduced rejects, and powder savings; technology such as advancements in electrostatics and auto gun movement; and typical capital cost and potential payback.

## **C22: Pretreatment Challenges**

*From Pretreatment Issues to Finish Quality*

**Speaker:** Sergio Mancini, Bulk Chemicals

As your business grows, what are some of the challenges that confront your operations? This presentation will discuss the challenges that a small, growing, or a larger expanding business faces when deciding on what pretreatment chemistry to choose, what type of equipment to apply it with, what quality benefits it will provide, what its environmental impact is, and finally what will the cost/benefit be from those decisions.

*To Descale or Not to Descal... That is the Topic*

**Speaker:** Ken Kaluzny, Coral Chemical

Many know the significance of washer maintenance. However, it can be difficult for management to approve as cost justification can be intangible. The need for descaling a washer is generally met with reluctance. The intent of this presentation is to provide you with some metrics to attribute to the efficiency of your wash system as well as demonstrate the ability to achieve quality parameters at various and reduced system efficiency ratings.

*Cyanide Destruction: A New Look at an Age-Old Problem*

**Speaker:** Robin Deal, Hubbard-Hall

Traditional treatment for cyanide in industrial wastewater is a 2-stage treatment process that involves high pH. It is a chemically heavy process, using approximately 23 gallons of 12.5 percent sodium hypochlorite to destroy 1 ounce of cyanide. Advances in technology have found a new way to destroy the same amount of cyanide using one-sixteenth of the amount of sodium hypochlorite at a pH of 9.5. This technology and the advantages of switching to this process will be discussed.

*Optimizing and Maintaining Spray Patterns in a Wash System*

**Speaker:** Matthew W. Clark, Henkel

This presentation will provide a better understanding of the maintenance needed to optimize and maintain spray patterns, highlighting the different types of nozzles and their various functions. It will review the different variables that control spray patterns and the results that clogged nozzles can have on the system. Examples of how spray patterns impact quality and operational costs will also be given.

**1:30 p.m. to 3:30 p.m.**

## **C30: The ABCs of Infrared**

*Efficient Curing with Infrared*

**Speakers:** Scott Bishop, Alabama Power; Baskar Vairamohan, Electric Power Research Institute (EPRI); John Podach, Fostoria Process Equipment, div. of TPI; Tim O'Neal, Selas Heat Technology

This session will review the basics of infrared (IR) including what it is, how it is produced, and its characteristics. It will include all equipment sources of IR followed by a discussion of the wide variety of IR applications, which showcase the many ways in which IR can be utilized in today's industrial environment. Attendees will also learn several ways to troubleshoot with IR technology.

## **C31: First Things First – Hanging and Masking**

*Hanging Proficiency – A Key to Production Efficiency*

**Speaker:** Scott Rempala, Mighty Hook

This presentation will explore common hanging method inefficiencies and improved methods to improve production quality and throughput. Designing and constructing proper racking and conveyor tooling to consistently hang product will significantly improve operational efficiency. Improvement of product material han-

*Ideas for Implementing Lean into Your Powder Coating Operation*

**Speaker:** Marty Sawyer, Trimac Industrial Systems

Driving the principals of Lean Manufacturing into your Powder Coating operation has challenges whether you have a batch or flow-through operation. This talk is designed to discuss techniques to reduce waste through equipment design, material handling, and processing techniques. You will leave with ideas of how to reduce your time on the line, operating costs and WIP.

## Wednesday, November 7

**8:00 a.m. to 10:00 a.m.**

### **C40: Optimizing Batch Powder Coating Operations**

*Optimizing Your Batch Powder Coating Operations*

**Speakers:** John Sudges, Midwest Finishing Systems; John Cole, Parker Ionics; Suresh Patel, Chemetall US, a BASF Company

As with most processes, there are many well-known and easily identified areas where optimization can translate to cost efficiencies. This presentation will discuss optimization opportunities related to cleaning and pretreatment, powder application and booths, dry-off and cure ovens, and material handling options for batch operations. Attendees will go home with specific hints and things to look at in their own operations that can equate to cost savings and their bottom line.

### **C41: Blasting Your Way to Success**

*You Cannot Manage What you do not Measure – The Increasing Role of Technology in Measuring and Managing your Blast Operation*

**Speaker:** Joseph D. Craig, Blast Services

Technology can help you effectively measure what you're tasked to manage. The measurement of blast operation processes and the control of machine efficiency without a true understanding of some of the more complicated science involved can make management difficult. Technology can bring a better understanding of the physics of blast particles, the engineering of effective designs, and the mathematics of aerodynamics, and therefore greatly impact the efficiency and success of your operation.

*Reducing the Strain with Limited Maintenance Resources to Maintain your Shot Blasting Equipment*

**Speaker:** Carl Panzenhagen, Blast Cleaning Technologies

The hardest segment of the workforce for employers to staff in the finishing process is electricians, operators, and maintenance workers. Over 60 percent of the people filling skilled trades will retire within the next 12 to 15 years with a smaller, less skilled workforce coming in. The more automation, the more people you need to work the equipment. This presentation will discuss new solutions in finishing and some maintenance friendly features available today.

*CO<sub>2</sub> Spray Cleaning and Pretreatment of Surfaces for Automotive Applications*

**Speaker:** Nelson Sorbo, Cool Clean Technologies

Automated CO<sub>2</sub> spray technologies have been used for a wide range of applications. Recent developments in this technology now provide effective solutions in cleaning and pretreatment prior to coating and finishing processes. CO<sub>2</sub> spray cleaning offers the benefits of particle and residue removal in a noncondensing, cost effective spray. This presentation summarizes the technology, how it has been applied to cleaning of automotive parts, O&M cost factors, and explains advantages over traditional cleaning technologies.

### **C42: Architectural Coatings – Building a Lasting Finish**

*Architectural Coatings – Today & Future*

**Speakers:** Michael Withers and Manuel Mayer, Axalta Coating Systems; Dustin Mullet, Dura Coat Products

This presentation will discuss the performance requirements of the American Architectural Manufacturers Association (AAMA) and the powder coatings and liquid coatings that are designed to meet these requirements. We will discuss how they are produced and the different chemistries. We will also talk about the specific performance tests and the equipment needed to perform them.

**10:30 a.m. to 12:30 p.m.**

### **C50: Powder Coating and Industry 4.0, Really?**

*Powder Coating and Industry 4.0, Really?*

**Speaker:** Jeffrey W. Hale, Gema USA

When people hear the term "Industry 4.0," their eyes glaze over or their attention is peaked. For many, they are not sure what this means or how it affects them. This presentation will offer insight into Industry 4.0 and technology that is being implemented within the powder coating industry. This presentation will outline end user and supplier responses to this manufacturing movement and explore technology available or on the horizon for conveyors, washers, powder application equipment, and ovens.

*Data Acquisition and the Art of Powder Coating*

**Speaker:** Mike Thies, Gema USA

Data acquisition is not Zen nor is powder coating similar to a motorcycle, but quality is a thread found in both. As such, many seek good quality powder coating that is repeatable and reliable. Today, leading industry suppliers are

developing technology incorporating machine communication and data acquisition to improve process control. This presentation provides insight into technology offered by various suppliers and how it is maintaining better process control and improving quality.

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### **C51: Identify and Solve Finishing Defects: See It, Touch It, Fix It**

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*See It, Touch It, Fix It*

**Speakers:** David Schimpff, DuBois Chemicals; Tabitha McLeish and Curt Wild, Sherwin-Williams; Diego Bertolo, SAMES KREMLIN

This session will highlight examples of real world causes and solutions to common (and less common) finishing defects. Each key area of the finishing process will be covered, including pre-treatment, liquid and powder coating materials, and liquid and powder application equipment. Attendees will learn the best ways to identify the cause of a finishing defect as it relates to the coating process and prevent the defect from returning. Presenters will have actual samples of a variety of defects and discuss the problem solving process on how to correct and eliminate these finishing defects.

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### **C52: Developing a Liquid Coating Knowledge Base**

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*Basics of Liquid Coatings*

**Speaker:** Dan Szczepanik, Sherwin-Williams

This presentation will discuss the various types of liquid coatings currently available, including appropriate applications for each. An overview of liquid coating formulation will provide attendees with an understanding of the various additives available and the importance of balancing them properly to ensure the required performance specifications for the end user. In addition, information will also be provided about liquid technologies of the future.

*Building a Knowledge Base of Liquid Application Equipment*

**Speaker:** Martin G. Powell, Carlisle Fluid Technologies

This presentation will present the basic knowledge base of liquid application equipment, including the complete range of application technology from all aspects of manual applicators, automatic applicators, and rotary atomizers. Applicator selection criteria will also be presented regarding the choice of electrostatic or nonelectrostatic technology and the material being applied. Fluid transportation technology and selection criteria will provide the attendee a basic knowledge for packaging the best application solution.

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**1:30 p.m. to 3:30 p.m.**

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### **C60: Automation: Is It for Everyone?**

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*Levels of Automation in Automated Finishing Systems*

**Speaker:** John Claman, IntelliFinishing

Automation can be broken down into three or four levels both in terms of existing/historical systems and future systems up to the "Internet of Things." In this presentation, we will review, compare, and contrast each level and their typical applications as applied to finishing systems using descriptions and images from systems. This session would best help companies that want to understand automation options versus benefits and relative cost considerations.

*Robotic Paint and Powder Coating*

**Speaker:** Barton Faylor, FANUC America

This session will discuss when and why robotics is used, types of robots, the benefits of robotics, traditional processes versus flexible (robotic) automation, as well as customer and supplier criteria when considering robotic auto-

mation. Brief customer case samples and videos of various applications will also be presented.

*Finishing Robot Applications for Military and Aerospace Users*

**Speaker:** Michael D. Elberson, Autotquip Automation

This presentation will highlight current trends in finishing automation for military and aerospace users, including robot cleaning, sanding, and coating projects. Tactile robot sensors provide robot control systems the ability to adjust arm force for contour cleaning and sanding.

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### **C61: Safety – It Works for All of Us**

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*Focus on the Codes that Prevent Fires and Explosions*

**Speaker:** Martin G. Powell, Carlisle Fluid Technologies

This presentation will focus on the most common issues that face customers today regarding fire and explosion prevention. Some of the largest fines issued by OSHA have been on dust collection issues and not using the correct equipment. This session will discuss system design requirements that customers should focus on as well as how quality can be improved by code compliance to avoid fines for violations.

*Safety: It Works for All of Us*

**Speaker:** Martin Korecky, AkzoNobel Coatings

Over the past year, we have received many finishing system safety and regulation related questions. This segment will provide a presentation discussing the concerns raised and the best practice approach to resolution. Operators, owners, and engineers will all benefit from this interactive presentation, so come prepared to ask questions.

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## C62: Improving Performance of Pretreatment Processes

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*Best Practices for Manual Pretreatment Applications*

**Speaker:** Kirk Beaster, Chemetall US, a BASF Company

This presentation will discuss the best practices recommended to provide consistent results when applying pretreatment using manual equipment. Using best practices to develop the proper SOPs and conducting regular hands-on training is vital to providing consistent finished product quality. Cleaning, rinsing, and conversion coating best practices will be presented for advanced pretreatment (such as zirconium, thin film, and nonphosphorus) processes as well as the conventional iron phosphate processes utilized in many facilities.

*The Game Changer – Greener and More Cost-Effective Phosphatization*

**Speaker:** Michael Frechette, Hubbard-Hall

A new and novel technology has been developed for phosphate conversion coating. It combines two types of processes: a dry surface pretreatment process that will be followed by a wet phosphating process. This session will discuss several benefits of this technology, including accelerating phosphate conversion, reducing energy required (temperature), creating fine coating structure without refining, becoming fully compatible to current specs, reducing waste generation (sludge), and increasing ROI.

*Emerging Technologies and Future Developments of Cleaning and Pretreatment*

**Speaker:** Chris Berger, Calvary Industries

Cleaning and pretreatment technology has progressed significantly in the last 25 years. Increasing environmental and performance pressures drive these

changes. This presentation will focus on emerging technologies appearing in the next 5 to 15 years. Advancements in cleaners will allow for a very high level of cleanliness at truly ambient operation and ways to validate cleanliness. Pretreatments continue to emerge to comply with changing environmental regulations while providing for increased performance.

## Thursday, November 8

**8:00 a.m. to 10:00 a.m.**

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### C70: Top 10 Tips for Maintaining Your Powder Coating Operation

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*Top 10 Tips for Maintaining Your Powder Coating Operation*

**Speakers:** Joe Glassco and Hector Flores, Wagner Industrial Solutions

This session will highlight 10 critical tips for maintaining a powder coating operation. While they are not the only elements you need to know, these guidelines will provide key information you need to save time, money, and headaches. Master your understanding of each of these basic points and your powder coating operation will run efficiently and effectively.

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### C71: From E-Coat to Top Coat

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*E-Coat Prime/Powder or Liquid Top Coat – A First Class Combination*

**Speaker:** Joe Laubenthal, Thermo-Tron-X

This session will review design considerations for E-coat Prime/Top Coat Systems. Attendees will hear about major components of the system and how to develop a floor plan and process flow that meet the requirements of the customer. The audience will gain valuable insight on how to make good decisions when purchasing capital equipment for long-term production and efficiency.

*E-Coat Products – Selecting the Right Materials to Meet Performance Needs*

**Speakers:** Kevin Kahl and John Hromadka, Sherwin-Williams

E-coat solutions provide excellent part coverage and high transfer efficiency, and using the right materials provides corrosion protection in demanding environments. But how do you know what products are suitable to achieve your goals? This session will provide an overview on e-coat product types and how to determine the proper e-coat material and product type for your application.

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### C72: Advancements in Pretreatment

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*New Advances in Zirconium Chemistry*

**Speaker:** David G. Schimpff, DuBois Chemicals

Zirconium-based pretreatments continue to grow in use and popularity, based on their environmental footprint and their application performance. Over the past few years, advances have been made which allow for greater application and operational improvement. Enhancements in coating appearance, corrosion resistance, and performance in application will be discussed. Zirconium coatings will be compared and contrasted with existing pretreatment coatings technologies.

*Nine Must-Know Reasons to Consider to Zr-Based Advanced Pretreatments*

**Speaker:** Suresh Patel, Chemetall US, a BASF Company Intermediate

Would you like to know and learn about the newest zirconium-based, nonphosphorous pretreatments for the 3- and 5-stage system? If the answer is yes, attend this presentation to learn more. A case study and practical aspects of transitioning to advanced pretreatments will also be discussed.

**10:30 a.m. to 12:30 p.m.**

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**C80: Key Elements of Spray Booth Design**

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*How Codes Affect Your Spray Booth Design*

**Speaker:** Robert Hauck, Spray Systems

This presentation informs and inspires attendees to avoid costly code violations when designing an optimal spray booth. Targeted to spray booth users, federal, state, and local codes can stand in the way of customizing a spray booth solution. Codes cannot be underestimated – compliance is mandatory, from NFPA 33 and OSHA to other key codes. Violations can be very costly. What aspects of design create the biggest risk? Can you pass our “Code Smart” test? Attend this session to find out.

*Utilizing LED Technology to Best Light Your Booth*

**Speaker:** Nicole Boss, LDPI

This presentation will touch on the difference between LED and fluorescent booth lighting, including the benefits of LED lighting. We’ll discuss how to choose the appropriate LED lighting fixtures and/or controls solution for your booth. And lastly, we’ll discuss cost savings that go hand-in-hand with LED booth lighting solutions.

*Filtration Options for Paint Applications*

**Speaker:** John Owed, Col-Met Engineered Finishing Solutions

This session will cover the technologies, standards, and applications of filtration used in both wet paint and powder systems. A review of the basic mechanisms of particulate removal will be covered, as well as the regulatory and testing requirements pertaining to the industry. An overview of the available options of filtration media will be presented, including the considerations that go into proper filter selection.

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**C81: All About Ovens**

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*Benefits of Longwave Infrared for Drying, Gelling & Curing Liquid and Powder Coatings*

**Speaker:** Michael Chapman, Heraeus

This presentation will provide an update of the many new applications for catalytic infrared technology within the finishing industry, including applications ranging from dry-off ovens to the latest in primer gelling prior to top coating and then co-curing the two applications. It will also discuss the benefits of gelling powder prior to convection curing and how this reduces energy costs and speeds up production while improving the finish quality.

*The Cure for Success – Oven Design Basics*

**Speaker:** Bill Oney, Therma-Tron-X

This session will review basic oven designs and provide case studies where improper oven design impacted quality and how it was resolved. Topics will include basic oven design, fundamentals, and differences for maximum performance whether the attendee’s operation is a batch process, automated process, e-coat, liquid, or powder. How product is prepared for coating (drying) and correctly cured (post-paint) can be the difference between success and failure.

*Getting the Right Temperature*

**Speaker:** Bob Hertel, BYK-Gardner USA

Whether you have an oven or are considering purchasing an oven, you need to know how well that oven operates. This presentation will discuss the importance and benefits of monitoring an oven’s temperature. Attendees will learn the different types of oven monitoring technology that’s available. By accurately monitoring your oven, you can ensure maximum performance from your properly cured coating.

## EXHIBITORS

# 2018 FINISHING Pavilion exhibitor list

These exhibitors will display their products and answer your questions at this year's show. This list of exhibitors and booth numbers is current as of September 18. Companies advertising in this issue are in **bold type**.

**A**

|                                 |       |
|---------------------------------|-------|
| Accudraft Paint Booths .....    | B5441 |
| ACT Test Panels .....           | B4911 |
| AFC Finishing Systems .....     | B4851 |
| Air Power .....                 | B4955 |
| AkzoNobel Powder Coatings..     | B5347 |
| Alabama Washer and Oven.....    | B5453 |
| Alconox .....                   | B4916 |
| Alexandria Metal Finishers..... | B4634 |
| Alliance Manufacturing .....    | B4755 |
| American Industrial Sales ..... | B4537 |
| Amiberica .....                 | B5017 |
| Andreae Team .....              | B4937 |
| Apel International .....        | B4915 |
| Argon Masking .....             | B5452 |
| ASCO Carbon Dioxide.....        | B4721 |
| Assured Testing Services.....   | B4756 |
| Atotech USA.....                | B4535 |
| Axalta Coating Systems.....     | B5001 |
| AZZ Metal Coatings.....         | B5066 |

**B**

|  |       |
|--|-------|
| Baril Coatings USA.....                          | B5000 |
| BASF .....                                       | B4709 |
| BCI Surface Technologies/<br>Bulk Chemicals..... | B4944 |
| BEKO Technologies.....                           | B5014 |
| BEX Spray Nozzles .....                          | B5508 |
| Blast Cleaning Technologies ...                  | B4929 |
| Blast Services.....                              | B4529 |
| BlastOne International .....                     | B4821 |
| Burleigh Industries.....                         | B4733 |
| BYK-Gardner USA.....                             | B4550 |

**C**

|  |              |
|--|--------------|
| Calvary Industries .....   | B5333        |
| <i>Canadian Finishing &amp; Coatings<br/>Manufacturing .....</i> | <i>B4754</i> |
| Caplugs.....   | B5433        |
| Carlisle Fluid Technologies.....                                 | B5228        |
| Castrol .....  | B4615        |
| Catalytic Industrial Systems ....                                | B4933        |
| CCAI.....  | B4700        |
| Chemetall .....  | B4807        |
| <b>Chemtec North America.....</b>                                | <b>B4938</b> |
| Circle-Proscio .....   | B4551        |
| Clean Air Technology<br>Solutions.....                           | B5516        |
| ClearClad Coatings.....  | B4655        |
| Col-Met Engineered Finishing<br>Solutions.....                   | B5108        |
| Columbus Industries.....   | B4840        |
| Combustion and Systems.....                                      | B4914        |

|                     |       |
|---------------------|-------|
| Coral Chemical..... | B5021 |
| CPR Systems .....   | B4812 |
| CTI Systems .....   | B4713 |

## **Custom Fabricating & Supplies .....**

**B5420****D**

|                            |       |
|----------------------------|-------|
| D&B Plating.....           | B4814 |
| Decoral System USA.....    | B4648 |
| DeFelsko.....              | B4623 |
| Delfin Industrial .....    | B4729 |
| Diamond H2O.....           | B4544 |
| Dinamec Systems.....       | B4917 |
| DMP .....                  | B4811 |
| DuBois Chemicals .....     | B4829 |
| Duroair Technologies ..... | B4635 |
| Durr Systems .....         | B5256 |
| DV Systems .....           | B4639 |
| Dynabrade.....             | B4545 |

**E**

## **Echo Engineering & Production Supplies .....**

**B5009**

|                                  |              |
|----------------------------------|--------------|
| Eisenmann.....                   | B5355        |
| <b>Elcometer .....</b>           | <b>B5040</b> |
| The Electrocoat Association .... | B4820        |
| EnviroServe Chemicals .....      | B4959        |
| EPSI Masking Solutions.....      | B5067        |
| Ervin Industries.....            | B4632        |
| ESMA.....                        | B5532        |
| Euroimpianti .....               | B4651        |
| EUROSIDER .....                  | B5250        |



|  |                                      |   |
|--|--------------------------------------|---|
| <b>R</b>                                     | Southern Fluid Systems..... B5544    | Uni-Spray Systems..... B5054                |
| Raptor Blasting Systems..... B4521           | Spray Systems ..... B4941            | <b>V</b>                                    |
| Richards-Wilcox..... B4710                   | Spraying Systems ..... B5446         | V & S Galvanizing ..... B5432               |
| Rohner..... B5337                            | Spray-Tech/Junair ..... B4751        | Valmont Coatings..... B5416                 |
| RollSeal..... B5437                          | Sprimag Spritzmaschinenbau.. B4734   | Vapor Technologies..... B4839               |
| <b>S</b>                                     | Sunkiss-EPI ..... B4738              | Viking Blast & Wash Systems B5423           |
| S.E.F. ITALIA ..... B4643                    | System Technologies..... B4629       | Vitracoat America ..... B5116               |
| SAMES KREMLIN ..... B5244                    | <b>T</b>                             | voestalpine eifeler coatings ..... B5445    |
| Sata Spray Equipment..... B4616              | Tanis..... B4940                     | <b>Vogel Industrial Coatings..... B5454</b> |
| Scheugenpflug ..... B4620                    | TCI Powder Coatings..... B4745       | Vulkan Blast Shot Technology B5443          |
| Selas Heat Technology..... B5010             | Technotrans America..... B4832       | <b>W</b>                                    |
| Sherwin-Williams..... B4813                  | Therma-Tron-X ..... B5045            | W Abrasives ..... B4835                     |
| sia Abrasives ..... B5550                    | Transmet ..... B5417                 | Wagner Systems..... B5053                   |
| Sigma Abrasives North<br>America ..... B5542 | Trimac Industrial Systems..... B4744 | Washington Mills Ceramics.... B4519         |
| Southern Equipment &<br>Services ..... B4652 | <b>U</b>                             | Webb-Stiles ..... B4808                     |
|  | UniCure Spraybooths..... B4717       |   |

## DINING GUIDE

## Atlanta Restaurant Directory

**A**fter a day of learning and visiting exhibits, you'll want to enjoy some Southern hospitality at one of Atlanta's many delicious restaurants. From traditional Southern plantation classics such as buttermilk fried chicken and gravy to a variety of ethnic eateries and establishments for haute culinary dishes from French to Thai, you'll find something to satisfy any appetite. Taste those collard greens with lemon twists and sesame seeds or order pork shoulder with gorgonzola polenta. It's time to enjoy yourself and wind down for the day. For more restaurant info, visit [www.atlanta.net/dining](http://www.atlanta.net/dining).

**AG**

181 Peachtree St. NE  
404/221-6550

**Alma Cocina**

191 Peachtree St. NE  
404/968-9662

**Big Kahuna**

303 Peachtree Center Ave.  
404/343-0409

**Chama Gaucha**

3365 Piedmont Rd. NE, Ste. 1350  
404/842-0011

**Chops Lobster Bar**

70 W. Paces Ferry Rd.  
404/262-2675

**Dantanna's Downtown**

One CNN Center, Ste. 269  
404/522-8873

**Der Biergarten**

300 Marietta St. NW  
404/521-2728

**Gus's Fried Chicken**

231 Peachtree St. NE  
404/996-2837

**JP Atlanta Restaurant & Bar**

230 W. Peachtree St. NW  
404/523-4004

**Legal Sea Foods Restaurant and Oyster Bar**

275 Baker St. NW  
678/500-3700

**Lure**

1106 Crescent Ave. NE  
404/817-3650

**Max Lager's Wood-Fired Grill & Brewery**

320 Peachtree St. NE  
404/525-4400

**Meehan's Public House**

200 Peachtree St.  
404/214-9821

**Park Bar**

150 Walton St.  
404/524-0444

**Paschal's Restaurant**

180 Northside Dr. SW  
404/525-2023

**Prime Meridian**

100 CNN Center  
404/818-4450

**Ray's in the City**

240 Peachtree St. NW  
404/524-9224

**Smoke Ring**

309 Nelson St. SW  
404/228-6377

**Sun Dial Restaurant**

210 Peachtree Rd. NW  
404/589-7506

**Sweet Georgia's Juke Joint**

200 Peachtree St.  
404/230-5853

**Ted's Montana Grill**

133 Luckie St.  
404/521-9796

**Thrive Restaurant**

101 Marietta St. NW  
404/389-1000

**White Oak Kitchen & Cocktails**

No. 270 Peachtree St.  
404/524-7200

# EXHIBITOR SHOWCASE

## Product preview

The following represents a sampling of new products and services that will be featured by exhibitors at CCAI's FINISHING Technologies Pavilion at FABTECH. Stop by their booths to learn more about these and other solutions for the industrial finishing industry. Booth numbers are indicated.

### Coating thickness gage

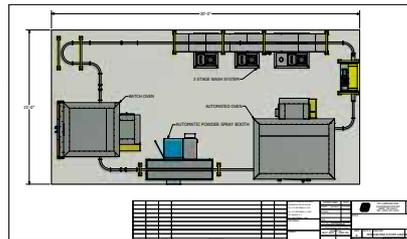
PosiTest DFT Coating Thickness Gage measures the coating thickness on metal substrates. Economical gage features a fast measurement speed of over 60+ readings per minute, onscreen averaging for up to 99 readings, a high contrast color LCD, and an auto rotating display with lock to prevent unintended rotations. Rugged, durable gage is available in a Ferrous model for measuring coatings on steel or a Combo model for measuring coatings on all metals. Strong, wear-resistant ruby-tipped probes and no calibration adjustment required for most applications make this gage ideal for powder coaters, paint applicators, and inspectors.



**Booth B4623**  
**DeFelsko, Ogdensburg, NY**  
**800/448-3835**  
**www.defelsko.com**

### Miniature curing systems

*Mini Powder Coating System* is designed for smaller powder operations or for powder coaters who need to squeeze a system into a smaller footprint than normally required for conventional systems. System includes all the major components for a complete powder system, including 3-stage wash, batch oven and/or automated pass-thru dry-off and curing ovens, spray booth, and conveyor and application equipment. System's size will vary due to part sizes and conveyor speed requirements; drawing depicts a typical mini system within a 15-foot by 30-foot area. Company also offers a *Micro-Mini* system for DIY powder coaters.



**Booth B5208**  
**Fostoria Process Equipment div. of TPI,**  
**Johnson City, TN**  
**800/495-4525**  
**www.fostoriaprocessequipment.com**

### External powered rotators

External powered rotators for hanging and part conveyance in the organic coating industry allow variable speed and reversibility. Rotational devices improve coating application quality and efficiency at an affordable cost. Devices can be specially designed for your specific manufacturing process.



**Booth B5032**  
**Mighty Hook, Chicago, IL**  
**773/378-1909**  
**www.mightyhook.com**

### Mobile coating thickness probe

PHASCOPE PAINT mobile pen probe quickly and reliably measures the thickness of coating and paint layers on various substrates. Small, pen-shaped probe is easy to use and has a large measuring range up to 98 mils, making it suitable for measuring very thick coatings. Device analyzes and reports its readings using a simple app for a smartphone or tablet. Flexible device relies on the eddy current method to automatically detect and select the appropriate mode for measuring magnetizable substrates or nonmagnetic metals without having to switch the device or the probe.



**Booth B4854**  
**Fischer Technology, Windsor, CT**  
**800/243-8417**  
**www.fischer-technology.com**

### Clip-on spray nozzles

BEX K-Ball Clip-on spray modular nozzle series includes hundreds of combinations of nozzle options that deliver the right spray pattern for parts cleaning, pretreatment, spray washing, and rinsing applications. Nozzle's threaded body adjusts spray direction with a simple twist of the cap. High-impact nozzles deliver a flat, thin spray with sharp edges and minimal atomization. Robust nozzles feature adjustable positioning, single-piece construction, and reinforced buttress threads.



#### Booth B5508

**BEX Spray Nozzles, Ann Arbor, MI**  
734/389-0464  
[www.bex.com](http://www.bex.com)

### Coating thickness probe

When connected to the Elcometer 456 coating thickness gauge, Elcometer 456 Scan Probe provides reliable and accurate dry film coating thickness measurements of ferrous and nonferrous substrates. Probe has a rate in excess of 140 readings per minute when used in Auto Repeat mode, significantly speeding up the inspection of large coating areas. Probe is designed for use with a snap-on replaceable end cap so that the sliding action used to scan a coated surface does not cause any wear to the probe tip, maintaining accuracy over the probe's life. Probe's offset feature excludes the end cap's thickness and wear effect in any coating measurement.



#### Booth B5040

**Elcometer, Rochester Hills, MI**  
248/650-0500  
[www.elcometerusa.com](http://www.elcometerusa.com)

### Control module

Redi-Pak operating and control unit is a compact generator with a self-contained blower, mixer, and control device used to light and monitor premix burners. In powder coating applications, unit can control a short bank of infrared burners in the vestibule ahead of a convection oven, bringing parts up to temperature and allowing the gelling process to begin before entering the oven to provide an efficient, consistent curing process. Unit is available in two sizes to fire single or dual burners.



#### Booth B5010

**Selas Heat Technology, Streetsboro, OH**  
330/653-4076  
[www.selas.com](http://www.selas.com)

### Powder coating

UVMax Polyester is a polyester-based UV-curable powder coating that is durable and functional for a variety of products and applications, including furniture, architectural, transportation, and industrial products. Coating is cured with UV LED, a rapidly growing curing application that provides cost, efficiency, and environmental benefits. Coating has zero VOCs, provides instant cure, is highly durable and chemically resistant, and comes in a large pallet of colors, glosses, and textures.



#### Booth B5419

**Keyland Polymer Material Sciences, Cleveland, OH**  
213/941-7191  
[www.keylandpolymer.com](http://www.keylandpolymer.com)

### Infrared booster

IRT-Booster infrared booster module can be placed before convection and drying ovens in any conveyerized processes to increase the parts temperature and improve process effectivity in paint lines. Booster only takes 1 minute to reach 356°F and needs about 3 minutes holding time to provide complete powder curing from the inside and out. Flexible booster is easy to program to any type of thermal cycle, and provides immediate shutdown when not in use to lower energy consumption. Booster module requires very little space and can easily be added to an existing coating line.



#### Booth B4628

**Hedson Technologies North America, Oakville, ON**  
905/339-2800  
[www.hedson.com](http://www.hedson.com)

### Turnkey systems

Company offers custom turnkey finishing solutions, including pretreatment washers, dry-off and cure ovens, environmental rooms, conveyance systems, and system controls. System features include modular design, quick installation, custom controls, and energy savings. Company's unique applications lab allows testing of customer parts to determine the best selection of pretreatment and cure options. Company's employees are trained to provide complete project management.



#### Booth B5329

**Midwest Finishing Systems, Mishawaka, IN**  
888/281-0099  
[www.powdercoating.com](http://www.powdercoating.com)

### Self-programming robot

OmniPainter self-programming autonomous robot's Artificial Intelligence allows it to understand the process, not just repeat an instructed motion, so that it can perform tasks on any product in real time. Robot can see, plan, and paint any part without any teaching or programming, making them especially useful for small production runs. Robot is adapted to continuous flow finishing lines operation, supporting both powder and liquid coating application and increasing productivity by 10 to 30 percent.



**Booth B4855**  
**Omnirobotic, Laval, QC**  
**450/232-6428**  
**[www.omnirobotic.com](http://www.omnirobotic.com)**

### Conveyor cart

Mono-Cart conveyor cart for power-and-free conveyors in finishing systems can load, unload, stop, and accumulate product carriers while the chain is running. Cart stops are located at key points for loading, unloading, and robotic interface, while accumulation is typically located in ovens and cool-down areas.



Cart provides a full 30-minute dwell time in paint booths or ovens. Cart can be equipped with automatic rotation to meet system requirements, allowing the design of a more efficiency, smaller finishing system with lowered utility costs.

**Booth B4710**  
**Richards-Wilcox Conveyor, Aurora, IL**  
**888/852-1020**  
**[www.rwconveyor.com](http://www.rwconveyor.com)**

### Small parts coating systems

Company combines its Protherm electric infrared heating and Kemac washing technology to wash, dry, coat, and cure parts in a small footprint at a minimal investment. Systems are designed and developed to coat small parts, such as those the size of a cell phone.



**Booth B4744**  
**Trimac Industrial Systems, Kansas City, KS**  
**913/441-0043**  
**[www.trimacsystems.com](http://www.trimacsystems.com)**