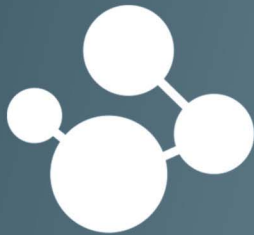


**SHOW ISSUE:** Bonus Circulation from our Booth at uv.eb WEST 2015



# CFCM

**CANADIAN FINISHING & COATINGS MANUFACTURING MAGAZINE**



PRODUCTS



COMPANY



OUR TEAM



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## Corporate Profile Issue

### Also in this issue

#### Industrial Finishing

- Stripping
- Manual Liquid Paint Spray Guns
- UV Curing Equipment

#### Paint & Coatings Manufacturing

- Silicones
- UV Coating Formulation
- UV Photo Initiators
- Paint and Coatings in Canada:  
Taking Stock

#### Plating and Anodizing

- Automatic Plating Systems
- Gold Plating

## McKeever Inc. talks about the Chemcraft Mobile Product App

We traveled to El Cajon, CA, just outside of San Diego to talk with Dan McKeever, owner of McKeever Inc, and Rob Olivarez, his Finish Specialist from Chemcraft Distributor E.B. Bradley.

McKeever Inc. was founded in 2005 and produces architectural millwork, cabinetry and custom woodwork for commercial and residential customers.

“We’ve had a long relationship with Rob and E.B. Bradley,” said Dan McKeever “They’ve been with us from the beginning.”

“As Dan said, we’ve been with McKeever since about 2005, but only in the last couple of years have we been supplying their coatings.” said Rob Olivarez, “We also provide them product training and technical support. Because of the Low VOC regulations here in Southern California, one of the most important things we supply is product documentation. We make sure they have what they need for the inspectors and regulators.”

“It’s a real a challenge keeping up with all the VOC data for the products.” said McKeever, “We need to have the information readily available for inspections and for submitting new project bids.”



Front, L to R: Rob Olivarez - Finish Specialist, E.B. Bradley. Dan McKeever - Owner, McKeever Inc.  
Back, L to R: Terry Best - Sales Representative, E.B. Bradley. Colin McKeever, Technology Supervisor, McKeever Inc.



“The Chemcraft App has made it a lot easier. It’s the same information as before, but now it’s at Dan’s or someone else in the facilities fingertips.” said Olivarez.

“On new jobs, we have to show product data up front, and the mobile app makes it easy for us to pull that information up.” said McKeever, “It works out pretty well for us. The app is a very good thing to have. It’s easy to use, and you can find what you need quickly.”

“From a distributor side of things, I really like the tools that Chemcraft has brought to market to benefit the end-user.” said Olivarez “The app is a great example of that. To put product information, how-to videos,

a troubleshooting guide in an easy-to-use app is great. While this is all information that I have readily available to give to our customers, there are just times when they need it faster. It’s a great tool.”

To get the Chemcraft Mobile App, go to [chemcraft.com/mpca](http://chemcraft.com/mpca) on your mobile device and follow the instructions to download.

Visit [chemcraft.com](http://chemcraft.com) to locate your nearest distributor.

## Let our history improve your future. More than 200 years of expertise with wood coatings.

Let our history improve your future. For more than 200 years, the world's leading manufacturers of cabinetry, furniture, flooring and building products have depended on AkzoNobel industrial wood coatings to beautify and protect their products.

We have some of the brightest minds in the business in our strategically placed R&D laboratories around the world, set up to collaborate and share knowledge with each other. That gives our customers a resource for innovation that we feel is unmatched anywhere and ensures that our customers stay ahead of regulatory and environmental requirements.

Our market leading wood coating systems are robust and efficient, and are designed to be user-friendly and provide optimum performance in any production environment. We offer a complete line of stains, lacquers, catalyzed coatings, urethanes, polyesters, and UV-cured wood coatings all backed by experienced support teams of technicians, chemists, engineers and sales representatives to ensure the highest efficiency and performance of our coatings.

Our experts work closely with our customers providing market-leading custom formulations and systems that adapt to the unique complexities of their product design, substrate, finish and manufacturing requirements. And, our industry leading trends, color styling and design services helps our customers maintain market leadership

Global innovation and local customization backed with outstanding customer support and service. It's no small wonder that our finishes protect and beautify more wood products than any other company in the world.

Explore our Website, [www.akzonobel.com/wood](http://www.akzonobel.com/wood) to learn more about how AkzoNobel can solve your finishing challenges and help your business thrive. Don't hesitate to contact us with questions or requests.

### Environmental Concerns

AkzoNobel welcomes our role in helping to preserve our planet and currently are ranked #1 on the Dow Jones Sustainability Index. Beyond merely following the regulations governing manufacturing and our products, we strive to exceed the most stringent environmental standards without compromising the look, durability, or ease of use that distinguish our coatings.

We continue to drive and be the leader in "green" technology with a large percentage of our R & D time being spent coming up with new solutions to this growing requirement.

We have complete systems to meet the need for lower VOC's and formaldehyde free coatings using both conventional and UV cured technologies. We have also developed a full line of 275 VOC g/l coatings in anticipation of regulatory changes. Our carefully tested, fully compliant coatings will enable our customers to keep producing without delays when the stricter standards take effect. AkzoNobel offers creative, customized system changes to reduce your VOC tonnage.



Tell us about your environmental concerns. We've probably already solved them. If your dilemma is new to us, we will eagerly seek out the creative, economical solution that's best for you. We owe our success to such partnerships. Your challenges are our opportunities.

### Safety First

AkzoNobel takes the safety of our personnel as our top priority. We have successfully implemented several new safety programs in our facilities, which are monitored by the personnel on the shop floor as well as management at all facilities. AkzoNobel has re-engineered several pieces of equipment with the goal of a safe work environment for all AkzoNobel employees. AkzoNobel globally recognizes Safety Day's throughout the year with all of our employees continuing to take the following pledge "No one will be injured on my watch, in my work area, on my team, or in my location." This is "Every Employee's Responsibility"



### Distribution

The Chemcraft® Distribution brand continues to be the brand of choice throughout our strong distribution network. Chemcraft® distributors have factory trained staff to help you with all your finishing requirements and applications. This network allows our technology and local expertise to be available to all businesses. To find a distributor near you along with information and tools regarding the Chemcraft® brand products please use our distribution website.

[www.chemcraft.com](http://www.chemcraft.com)

### Akzo Nobel Wood Coatings Ltd.

#### Ontario

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For almost 90 years, Univar has connected the paint and coatings industry with the world's premier chemical manufacturers, and has served Canada for over 60 of those years.

Established in 1924 as a local Seattle source for soda ash and a handful of related products, Univar has grown into a global chemical distributor, employing 7,000 people at 180 sites in North America, Europe, Asia-Pacific, the Middle East, Africa and Latin America.

Univar began serving Canada in 1950. Today, Univar Canada, Ltd. is Canada's leading chemical distributor, and serves Canada's industrial chemical and agricultural chemical needs from over 20 facilities coast-to-coast, from British Columbia to Newfoundland. Univar supplies its CASE (Coatings, Adhesives, Sealants and Elastomers) customers with a comprehensive line of raw materials ranging from core products to specialty chemicals. Our extensive distribution network, global reach and unparalleled logistical expertise provide our customers a consistent and reliable source of supply.

We take great pride in maintaining close, hands-on relationships with our customers, linking them with the latest technologies and products, and with a commitment to deliver what they need to be successful. In today's rapidly changing regulatory landscape, our team of business development specialists can provide unique insights on new market opportunities and advanced product development, offering assistance with green and alternative formulations, including low-VOC.

## Our commitment to the Specialties industries includes:

- A knowledgeable team of technical specialists
- Real solutions to green formulation challenges
- Expertise in safety and legislation
- An extensive warehousing network and dedicated logistics

Univar is dedicated to delivering leading-edge application and formulation strategies to help you meet and exceed your goals. Our team of technical experts has over 120 years of formulating experience to help our customers with solutions to the problems that may arise in any stage of the production process — from concept and formulation all the way to commercialization.

We also offer our customers with a set of unique product selection tools, designed to help customers choose the right product for their application. The Specialties Product Selection Guide gives a detailed overview of products we offer, and there are seven guides available, segmented by market focus and application: Architectural, Powder coatings, Epoxy, Polyurethane, Plastics, Robber and Low-VOC.

## Unsurpassed product line

Univar offers an extensive portfolio of products to the Canadian coatings, inks and adhesives manufacturing industry, representing the world's premier suppliers. The breadth of our product line is unsurpassed, including solvents, titanium dioxide, resins, dispersants, defoamers, biocides, surfactants, plasticizers, pigments and much more.

### Our CASE product line includes:

- Adhesion promoters • Algaecides
- Antiblock and slip aids • Antifoams
- Anti-setting agents • Biocides
- Block copolymers • Coalescents
- Coupling agents • Cross linkers
- Cure agents • Defoamers
- Dispersants • Epoxies
- Epoxy vinyl esters
- Functional Extenders and Fillers
- Flame retardants • Flexibilizers
- Monomers, reactants and intermediates
- Pigments, opacifiers and colorants
- Plasticizers • Polyols
- Resins, rosins and tackifiers
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- Solvents • Surfactants
- Thickeners • Urethanes
- Vinyl esters • Wax additives
- Wetting agents

## Services: Innovation. Expertise. Value.

Univar continuously refines its distribution business model to provide suppliers and customers with the highest level of service, reliability and timeliness of deliveries while offering cost-competitive products. We have several channels to market, including warehouse delivery and direct-to-consumer delivery.

## Product availability and inventory management

We manage inventory in order to meet customer demands on short notice. Our key role in the supply chain also enables us to obtain access to chemicals in times of short supply. Our global distribution network also permits us to stock products locally to enhance just-in-time delivery and provide outsourced inventory management to our customers.

## Blending and repackaging services

We provide our customers with a full suite of blending and repackaging services. Leveraging our technical expertise, we are able to utilize our blending and mixing capabilities to create specialty chemical formulations to meet specific customer performance demands. Additionally, we can fulfill small orders through our repackaging services, enabling customers to maintain smaller inventories.

Other available services include:

- Application development expertise
- Automated documentation (C of A, MSDS, Labeling, Bar Coding)
- Consolidated invoicing (summary billing)
- Custom blending
- Document control
- E-Blasts (new product introductions and market trends)
- Environmental and regulatory expertise
- Paint testing lab
- Private label packaging
- REACH advice
- Remote Sentry bulk tank storage monitoring
- Vendor-managed inventory

## Safety, health and the environment — our number one priority.

The highest priority in the conduct of our business is safety and environmental protection. Univar mandates commitment to this priority, requiring thorough compliance with our own stringent standards and all government regulations. We are committed to constant vigilance and continuous improvement.

Our operations are guided by the Distributor Code of Practice, the industry standard developed by the Canadian Association of Chemical Distributors (CACD). We participate in the Canadian Paint and Coatings Association (CPCA), Canadian Chemical Producers (CCPA) Responsible Care Program. Our major locations are registered to ISO 9002 standards. Our commitment to these codes and standards is paramount, and is stated in our Policy.

## Quality Policy

Univar is committed to contributing to the success of our customers, suppliers and partners by providing value added products and services that consistently meet requirements. Univar's Quality Improvement Process is a fundamental tool to achieve the company's mission and to focus on customers. The Quality Process is integrated into all aspects of the company's business practices. Quality is woven into strategic planning, training, and all the daily activities of our core work processes and the processes that support them.

For more information, speak to a Univar CASE Specialties technical specialist:

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Customers involved in challenging finishing applications in particular, and the industrial marketplace overall, know and rely on the equipment and solutions from DeVilbiss, Binks, Ransburg and BGK. These globally recognized brands have been inventing, introducing and improving finishing technology and processes for over 125 years.

Today, these respected finishing equipment names are part of the Finishing Brands' family. Finishing Brands is the global manufacturing company focused on integrated total system solutions through the spraying, pumping, mixing, metering, and curing of a variety of coatings used in the transportation, general industrial, protective coating, wood, specialty and auto-refinish markets.

By joining the precision fine atomization of DeVilbiss with the diversity of Binks atomization and fluid handling, along with Ransburg electrostatics, BGK curing and controls, distributors of Finishing Brands equipment are able to provide exceptional solutions through a coordination among research, development, and technical support.

For over 125 years, the DeVilbiss philosophy has been finding innovative solutions to problems. DeVilbiss is the leading supplier of spray finishing equipment to the industrial and automotive markets with a focus on fine atomization.

Binks is at work in virtually every industry around the world with its wide range of finishing resources. Since 1890, Binks has been setting global standards for industrial finishing from spray guns, tanks, pumps and complete fluid handling systems, to 2K solutions in a diverse range of applications.

Invented as a way to minimize waste, Ransburg remains the global electrostatic process leader. Ransburg electrostatic application system results in up to 98 per cent transfer efficiency. Ransburg also manufactures manual and robotic applicators, electronic metering, process controls and complete systems working in many industries throughout the world.

BGK is the leader in coating curing solutions utilizing high intensity electric infrared and gas catalytic. BGK combines high intensity electric infrared ovens and material handling equipment into custom systems, providing customers with tech-

nology that reduces heating times from minutes to seconds, saving floor space and energy.

The DeVilbiss, Binks, Ransburg and BGK brands were brought together into one group by Finishing Brands to provide more advanced finishing technology, expert support and better solutions as the one source with world-wide resources and experience for industrial customers' finishing needs.

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Technologies by **Finishing Brands**

## #paintyourbridge... Let Bill Gates Paint the Bridge!

A story surfaced before the end of 2014 about how Quebec Mayors have appealed to Bill Gates and his endowment fund to finish the paint job on his rusty bridge. Pocket change for Bill, but a huge expense for the cities of Lévis and Quebec.

The Quebec Bridge, a steel bridge spanning the St. Lawrence River between Lévis and Quebec City has been a source of tension since ownership was transferred from the federal government to CN Rail in 1995, when the railway was privatized. Completed in 1918 — at a

cost of 89 workers' lives — it is the longest cantilever bridge in the world and has been designated a national historic site.

Initially built for trains, it is now primarily a roadway, with 35,000 vehicles crossing it daily. When CN took ownership, it agreed to contribute \$36-million of the \$60-million total deemed necessary to spruce up the bridge. But the money proved insufficient and the paint job was never completed.

The federal government went to court, arguing CN had reneged on its promise, but the courts ruled the company was under no obligation to spend anything beyond the \$36-million.

The railway argues the rusting problem is aesthetic and has been caused by de-icing salt used by Quebec's Transport Department over the years. Nobody is calling into question the safety of the bridge.

Bill Gates is the largest shareholder in CN Rail. The charitable foundation created by former Microsoft chief executive Bill Gates and his wife Melinda oversees a \$42-billion endowment, working to alleviate poverty and improve health care in the developing world. It receives a lot of requests, but the one mailed from Quebec City was most likely the first seeking a paint job for a rusty bridge.

The letter complete with photos of the rusty bridge, sent by mayors, Régis Labeaume of Quebec City and Gilles Lehouillier of Lévis appeals to Gate's sense of civic responsibility.

Besides the letter, the mayors have also rallied citizen support with press conferences, youtube video and with the social media campaign #PaintYourBridgeBill

There are even T-shirts. The federal, provincial and municipal governments announced they were prepared to contribute a combined \$100-million toward painting the bridge (\$75-million from Ottawa, \$23.5-million from Quebec and \$1.5-million from the municipalities). But the total cost is now estimated at \$200-million and the government money is contingent on CN covering the rest.

So now, it is up to the richest man in the world to cough up the money for a little paint. Doesn't sound unreasonable at all. Let's hope it is in the cards for 2015.

Meanwhile, Welcome to a new year. A lot is new at CFCM ... we have a newly designed website and a new magazine print format. We are looking forward to an exciting year.

*sandra.anderson@cfc.ca*

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## Corporate Description

Since 1987 Mighty Hook has specialized in the design, manufacture and distribution of stock and custom hooks, racks, and high temperature masking products for the coating industry. We have a staff of engineers to design custom hanging and masking solutions for those customers with unique requirements. Mighty Hook's products and services can be accessed by phone, fax, from our catalog, or through our interactive website.



## Markets Served

Mighty Hook customers include some of the largest OEM and Job Shop coating operations in North America. We design complete hanging systems for large scale coating operations and engineer innovative custom solutions. Our extensive stock program is designed to handle the majority of the requirements of the coating community, and will benefit any size or type of coating operation.

## Products & Manufacturing Capability

Mighty Hook maintains one of the largest inventories of stock hanging and masking products in the world. Standard hanging products include hooks, racks/crossbars and load bars. Our standard masking products include tape, disks, plugs and other high temperature products.

## Angle Pivot® Products

Our patented Angle Pivot Hanging System allows for closer rack spacing on conveyor lines allowing a more solid wall of finishing, increasing productivity by 50% on conveyors with 30° inclines or declines. These unique products attach to existing conveyors to create closer rack spacing and increase coating efficiency. The net effect is a 15-50% decrease in required space for hanging relatively "flat ware package" products.

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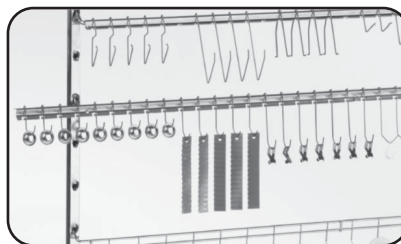


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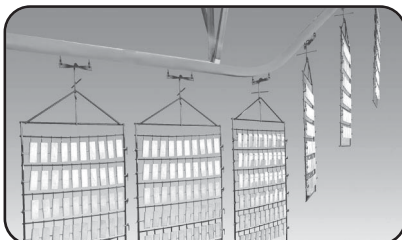
### Racks



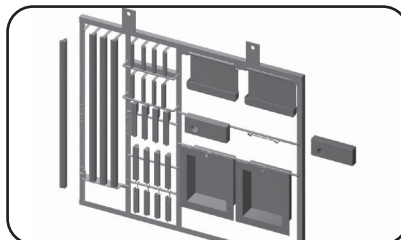
### Masking



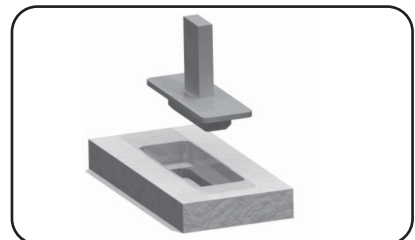
### Angle Pivot®



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### Custom Masking



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**OUR  
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YEAR**

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## Association News

### CPCA to Kick-off “Lunch n’ Learn” Meetings

In 2015, Canadian Paint and Coatings Association’s (CPCA) President Gary LeRoux will be launching a series of collaborative Lunch n’ Learn sessions as he visits member companies across Canada.

CPCA is interested in learning about a company’s business, current projects, teams and any issues of concern that management and staff may have. CPCA will also outline the work it’s doing to help sustain the vitality and stability of the coatings industry in Canada. The primary goal of these sessions is to understand the issues that matter to members and obtain the feedback CPCA needs to better represent its members’ interests.

As the recognized voice of the paint and coatings industry in Canada, CPCA has been dedicated to taking action for more than 100 years. The success of CPCA has been made possible by a dedicated Board of Directors and member representatives on key committees working diligently on a wide range of issues on behalf of the industry.

These issues cover a broad spectrum that includes ongoing work on new regulations for the sector, including those under Canada’s Chemicals Management Plan (CMP); health and safety issues that are always of concern to companies in the chemical sector; sustainability and stewardship issues that are most important to ensure the industry continues to have a social license to operate; ongoing trends and challenges in delivering sustainable products of high performance for customers; and more.

The Lunch n’ Learn sessions will include a wide range of issues that matter to a business, as well as information on volunteering, networking and valuable insight offered exclusively by CPCA, such as:

- GHS Implementation and Training;
- Regulatory Challenges and Harmonization;
- CMP: Risk Assessment, Risk Management Plans and Compliance;
- CPCA Technical Committee Work;
- Regulatory Cooperation Council Activities;
- VOC Regulatory Activities and Ongoing Compliance;
- Best Practices in Health and Safety;
- CPCA’s 2015 Networking Events;
- Sustainability and Product Stewardship;
- New CPCA Programs and Services; and

- CPCA’s Diploma in Coatings Technology; Information to become a member of CPCA or schedule a Lunch n’ Learn session with Gary LeRoux contact: [www.canpaint.com](http://www.canpaint.com).

### New Date for CPCA’s Annual Conference & AGM in Spring 2015

The Canadian Paint and Coatings Association (CPCA) has moved the date of its Annual Conference and Annual General Meeting to the spring. It will take place this year on May 27-29, 2015 at the Pillar and Post in Niagara-on-the-Lake.

The conference will also feature a new format that is as robust, but more compressed than in the previous years to accommodate busy schedules. The agenda will still include the popular business sessions that update attendees on the latest trends, opportunities and challenges facing the Canadian paint and coatings industry, as well as keynote speakers, a welcome reception and the annual Chair’s Gala Dinner.

“Moving our Annual Conference to the spring isn’t the only change this year – we’re also offering a streamlined and value-added program,” says Gary LeRoux, CPCA’s President. “The beautiful setting of Niagara-on-the-Lake is an excellent gathering place for members of our industry to reflect on the opportunities and challenges of the paint and coatings sector while looking towards the future.”

Once again, the association will also recognize several individuals for their outstanding contributions to the Canadian paint and coatings industry with Industry Awards presented during the Chair’s Gala Dinner.

“We hope both our members and non-members will join us for an excellent networking opportunity,” added Mr. LeRoux. “Our annual conference brings the industry together once a year to share experiences and celebrate our achievements, whether you are a manufacturer, supplier or affiliated with the industry in some way.”

### CPCA Announces New Board Chair and Board Directors for 2014- 2015

The Canadian Paint and Coatings Association (CPCA) is pleased to announce that Tim Vogel, Vice-President of Cloverdale Paint, has been appointed Chair of its Board of Directors.

Mr. Vogel joined the CPCA Board in 2006 and he previously served as the Chair of the Board’s Finance and Audit Committee. He replaces Dale Constantinoff of Sherwin-Williams.

“As CPCA’s new Chair, I am eager to continue to work with the board and management on the many important issues we deal with on a daily basis in the paint and coatings industry,” said Mr. Vogel. “Thanks to a strong and fully engaged Board of Directors, the association continues to be at the forefront of what matters to the entire industry.”

CPCA also approved its Board of Directors for 2014-2015 at its Annual Conference and Annual General Meeting in Quebec City this past October. Also recently appointed to the CPCA Board was Nancy Houle of BASF Canada.

CPCA’s Board of Directors for 2014-2015 are:

**Tim Vogel**, Cloverdale Paint (Board Chair)

**Paul Macko**, AkzoNobel Canada Inc.

**Andy Doyle**, American Coatings Association

**Brian Collicot**, A.R. Monteith

**Brent Jamieson**, Axalta Coating

Systems Canada Company

**Nancy Houle**, BASF Canada Inc.

**Richard Tremblay**, Benjamin Moore & Co. Ltd.

**Doug Crabb**, The Duha Group

**Darrin Noble**, Home Hardware

**Sharon Kelly**, KelCoatings Limited

**Ed Thompson**, L.V. Lomas Ltd.

**Fred Veghelyi**, OPC Polymers Canada

**Ron Nakamura**, PPG Canada Inc.

**Glen Knowles**, Sherwin-Williams

**Andre Buisson**, Société Laurentide Inc.



### Western Manufacturing Technology Show Edmonton, June 15-17, 2015

Despite a decline in oil prices, growth is forecasted for the Canadian manufacturing industry thanks to a lower dollar. From June 15-17, 2015, thousands of manufacturers are expected to attend Western Canada’s largest manufacturing event, the Western Manufacturing Technology Show (WMTS) in Edmonton, as rising export profits enable local businesses to invest in new production technologies that are necessary to improve their competitive edge. Through state-of-the-art manufacturing equipment, educational sessions and networking opportunities, WMTS

*continued on page 14*



Daemar manages the sourcing and delivery of millions of essential components including the complete line of Caplugs masking and protective products to Canadian manufacturing and finishing industries. Our Caplugs inventory includes over 12,000 lines of standard parts - featuring caps and plugs developed specifically for masking applications and available in materials including:

Silicone, EPDM, Flex 500 and Vinyl. Our tapes and standard die-cut discs are available in polyester, polyimide, glasscloth, crepe, aluminum and more. Do you require a unique shape, size, colour, material or processing requirement? Daemar's technical team along with Caplugs' in-house design engineers

can develop custom moulded parts, custom die cuts and custom kits for specific applications. For hanging parts our line of hooks and modular racks is available.

For over 40 years Daemar has provided solutions for industry applications from high volume production lines requiring design assistance and supply chain management, down to a simple one off application requiring a single cap. Daemar's regional warehouse network with stocking facilities in Toronto, Montreal and Edmonton provide fast and efficient delivery of parts to customers throughout the country. Trust Daemar and our extended team's expertise to solve your masking challenges.



## Masking and Part Protection Solutions for Industrial Finishing Processes

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- Thousands of standard designs

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Connecting**Chemistry**

**BUILDING  
A BRIGHTER  
WORLD**



Globalization and ever more stringent regulation confront the manufacturing industry each year, presenting greater and greater challenges. Brenntag Canada recognizes that the specialty chemicals market does not have to be so complicated, however – we aim to make all aspects of chemical distribution less complex for our customers and suppliers.

Through a dedicated and experienced team of technical experts and sales agents, Brenntag Canada offers tailor-made solutions to each customer's individual needs and business challenges with a degree of professionalism that few of our competitors can match. From providing advice on improving formulations, to devising innovative supply-chain solutions, to sourcing specialty ingredients, Brenntag Canada delivers products and services which put our customers and suppliers a step ahead of the competition.

We at Brenntag demonstrate that the distribution of chemicals and ingredients is not just a business for us. It is an attitude. And our passion is to be the best partner connecting you as our customers and suppliers in local markets worldwide.

Brenntag Canada Inc.  
Corporate Office  
43 Jutland Road  
Toronto, ON M8Z 2G6  
Phone: (416) 259-8231  
(800) 387-7324  
Fax: (416) 259-5333  
email: sales@brenntag.ca

[www.brenntag.ca](http://www.brenntag.ca)

Brenntag, the global market leader in chemical distribution, covers all major markets with its extensive product and service portfolio. Headquartered in Mülheim an der Ruhr, Germany, the company operates a global network with more than 480 locations in more than 70 countries. In 2013, the company, which has a global workforce of more than 13,000, generated sales of EUR 9.8 billion (USD 13.0 billion). Brenntag connects chemical manufacturers and chemical users. The company supports its customers and suppliers with tailor made distribution solutions for industrial and specialty chemicals. With over 10,000 products and a world-class supplier base, Brenntag offers one-stop shop solutions to around 170,000 customers. This includes specific application technology, an extensive technical support and value-added services such as just-in-time delivery, product mixing, formulation, repackaging, inventory management and drum return handling. Long-standing experience and local excellence in the individual countries characterize the global market leader for chemical distribution.

Brenntag purchases and stores large-scale quantities of industrial and specialty chemicals from various suppliers, repackages them into smaller quantities and provides a full-line portfolio of chemicals in less-than-truckload quantities as well as value-added services. This includes specific application technology, an extensive technical support and value-added services such as just-in-time delivery, product mixing, formulation, repackaging, inventory management and drum return handling. Brenntag aims to be the partner of choice for our customers and suppliers with these products and services.

When we think of our business, we need to ask ourselves two questions: How can we help our business partners to succeed – today and in the future? What is the benefit for our partners working with us? Our strap line "ConnectingChemistry" is the ultimate answer to both of these questions.



Brenntag strives to be the industry's most effective and preferred channel partner. Our industry and customer-focused approach to chemical distribution builds on connecting customers and suppliers in a winning partnership. Always being committed to our partners' success, we serve as their extension, sharing our intelligence on markets, industries and applications. We support them in reacting flexibly to ever-changing market conditions and help them focus on their core business by managing their complexity. We are the only chemical distributor, which complements a broad global network with outstanding local execution. Brenntag is there for its partners - anytime, anywhere.

Brenntag is truly a "people's business". Everything we achieve as a business is accomplished with and through our employees. They are the connection between our business partners. They connect people and build relationships. All in all, they connect chemistry on all levels.

We demonstrate that the distribution of chemicals and ingredients is not just a business for us. It is an attitude and our passion to be the best partner connecting you as our customers and suppliers in local markets worldwide.

**Brenntag - ConnectingChemistry**

provides an unprecedented venue to help ensure the continued long-term success of Western manufacturers.

**WHAT:** Western Technology Manufacturing Show (WMTS) 2015

**WHEN:** June 15-17, 2015

**WHERE:** Edmonton EXPO Centre, Northlands, Halls F, G & H, 7515-118 Avenue, Edmonton

**ABOUT:** WMTS is Western Canada's largest manufacturing technology show, bringing the latest technologies, products and processes, the most relevant industry information, and prime networking opportunities, to Western manufacturers.

**FEATURING:** A one-stop, all-encompassing venue for the latest technologies and trends in machine tools, tooling and accessories, metal fabrication, design, automation and assembly, advanced manufacturing, plant maintenance and process control. More than a tradeshow, WMTS features

educational sessions, an industry keynote, an interactive town hall panel and key networking opportunities.

**AUDIENCE:** Geared towards the needs of manufacturers in Alberta and throughout Western Canada in in

**PRESENTED BY:** SME, a nonprofit organization that has served practitioners, companies, educators, government and communities across the manufacturing spectrum for more than 80 years. Through its strategic areas of events, media, membership, training and development, and the SME Education Foundation, SME is dedicated to advancing manufacturing by addressing both knowledge and skill needs for the industry.

**CONTACT:** For more information, or to register, please visit [www.wmts.ca](http://www.wmts.ca) or call 1-888-322-7333 ext. 4435.

## Company News

### EQMBO-Entreprises launches its new laboratory

EQMBO-Entreprises, one of the three reference centers managed by Victoriaville College, recently opened a brand new research laboratory dedicated to industrial finishing processes with low impact on environment. This laboratory will allow the development of new finishing or drying

processes, aimed at reducing volatile organic compounds (VOCs) while maintaining profitability for the wood and furniture industries.

This major project was supported financially by the Canadian Foundation for Innovation and by the Quebec government.

"For the Canadian Foundation for Innovation (CFI), it is very important to help colleges meet the technological challenges that face our manufacturers. This new laboratory will not only help



Partners of the new EQMBO Lab project From left: Daniel Ayotte, Ayotte Techno-Gaz, Christian Giguère, Finiquip Expertise Inc., Michel Bresolin, Kremlin-Rexson-Sames, Vincent Guay, Director of EQMBO-Entreprises, Roger Ducharme, researcher in industrial finishing EQMBO-Entreprises Inc., Tommy Gagnon, Automatech Robotik Inc., Serge Larocque, Laflamme Air Libre Inc., Nathalie Carrier, project manager EQMBO-Entreprises Inc., Michel Laflamme, Laflamme Air Libre Inc., (Not present: Richard Doroski of Prime Heat Systems).



New Robot in new lab serving wine at the grand opening.



Also involved in the new lab launch, from left: Roger Ducharme, researcher in industrial finishing for EQMBO-Entreprises, Éric Vaillancourt, Canlak, Denis Berthiaume, Akzo Nobel, Isabelle Gélinas, Société Laurentide, Nathalie Carrier project manager for EQMBO-Entreprises, Paul-Henri Turgeon, National Research Council of Canada, Denis Blanchette, Akzo Nobel, (Not present : Alain Dumont, Victoriaville Funeral Supplies Inc.)

the college in solving manufacturers problems, but will also give the students an opportunity to develop new skills by experimenting with the most modern instruments,” says Gilles G. Patry, CFI president.

When a project is submitted to CFI for approval, it must get the support of industries or research organizations. Thus, Eqmbo-Entreprises’ Nathalie Carrier, project manager expressed her gratitude to entreprises such as Akzo Nobel Peintures Bois ltée, Canlak, Société Laurentide, Fouritures funéraires Victoriaville inc. and the National Research Council of Canada who believed in this project from the very beginning.

With more than 1 million dollars worth of equipment, this initiative required equal participation from the federal government through CFI

(40 per cent) and the Quebec government through the Ministère de l’Économie, de l’Innovation et des exportations (40 per cent). EQMBO-Entreprises and four of its partners (Automatech, Kremlin Exel Rexon, Prime Heat and Ayotte-Technogaz) also contributed for the equivalent of 20 per cent of the project.

Researches done in this laboratory will allow the development of three aspects related to surface finishing: application processes, drying techniques, and quality control of the finished

surfaces. Thanks to equipment such as: robotized finishing station for application and 3D UV curing, a weathering unit using xenon that will allow the evaluation of the quality of a finish over time, and various drying ovens including a microwave unit, the laboratory is set to start its first research projects. This new laboratory will also have an impact on education because college and university students will also use the equipment to conduct research projects related to finishing technologies.

## Dempsey Distributes BYK

Dempsey Corporation is proud to be chosen as the new Canadian distributor for the BYK line of waxes made in Chester, NY, formerly known as ChemCor Waxes. As of November 3, 2014, these water-based waxes further complete Dempsey’s selection of wax additives already offered by BYK for various industries and applications including floor finishes, exterior paints, deck stains, graphic arts coatings and inks, and mould release products. They allow the creation of a variety of solutions and functions, such as adhesion, rub resistance, slip, anti-block, surface tension, and water beading of coatings.

Dempsey Corporation technical sales staff and BYK technicians are trained to help customers find the right wax additive for their applications. Dempsey stocks these products in its warehouses in BC, Alberta, Ontario and Quebec.

## New Clariant rotational moulding lab promises fast color-matching and prototyping

Clariant, a world leader in specialty chemicals, announces the opening of a new rotational moulding laboratory and prototype-development cell at the Clariant Canada facility in Toronto. Similar rotational moulding equipment and services are also available at the Clariant location in Auckland, New Zealand.

The rotational moulding lab was designed to replicate ‘real world’ production conditions at leading rotational moulders, providing customers fast with prototypes of color-matched, multi-textured products in just five to seven days.

The system is equipped with an automated shuttle arm that supports two clamshell-style moulds. Several different moulds are available to replicate common part configurations with various surface textures including smooth, matte and rough. The oven is powered by natural

gas, the most common heat source used in rotational moulding.

Equipment selection for the new lab was driven by the need for “precise and scalable color-matching solutions,” explains Peter Prusak, Head of Marketing for Clariant Masterbatches in North America. “The unique characteristics of the rotational moulding process make it impossible to achieve such precision with simulations using injection moulding or extrusion,” he explains. Even the oven fuel makes a difference: “Gas is real-world rotational moulding. Most rotational moulders use gas, not electric, ovens. Electric ovens do not simulate a real world experience.”

The new equipment will facilitate rapid development of rotational molded parts, enabling customers to collaborate with Clariant technicians to:

*continued on page 16*

Since its beginnings in 1982, Canlak has grown to become one of the largest privately held manufacturers of industrial wood coatings in Canada.

They have also become an important partner to the woodworking industry by inaugurating "The Evolutionary Systems for the enhancement of woodworking". These systems confirm that Canlak is listening to the needs of its customers. The development and start-up of a new product can be quite challenging. Canlak can help you reduce the risks with its Partnership Program. A unique approach in the woodworking industry.

The company headquarters is located in Daveluyville, Quebec. This facility houses Canlak's Research and Development laboratories, application facility as well as its administration offices and manufacturing facility. Canlak also has a strong presence in Mississauga, Ontario. Where it maintains a sales office, colour development lab and warehouse facility. In total Canlak employs over 100 people.

Its' major markets are cabinet making, hardwood flooring, wood furniture, and architectural woodworking.

## Expertise in Product Quality

Canlak has developed a wide range of products that meet the industry's highest standards with constant efforts in research and development. Canlak provides industrial finishing products

including solvent-based, water-based and UV coatings as well as polyester and polyurethane products to meet your needs.

If you are facing some challenges, there is no need to worry; Canlak will develop the formula that corresponds precisely to your requirements. The company invested \$1.5 million in a new application lab in Quebec and uses it to simulate the customers finishing lines. The Application Laboratory is equipped with various application equipment including robot automated equipment capable of applying all types of industrial wood coatings. Products are fine-tuned in its labs eliminating production time losses for its customers.

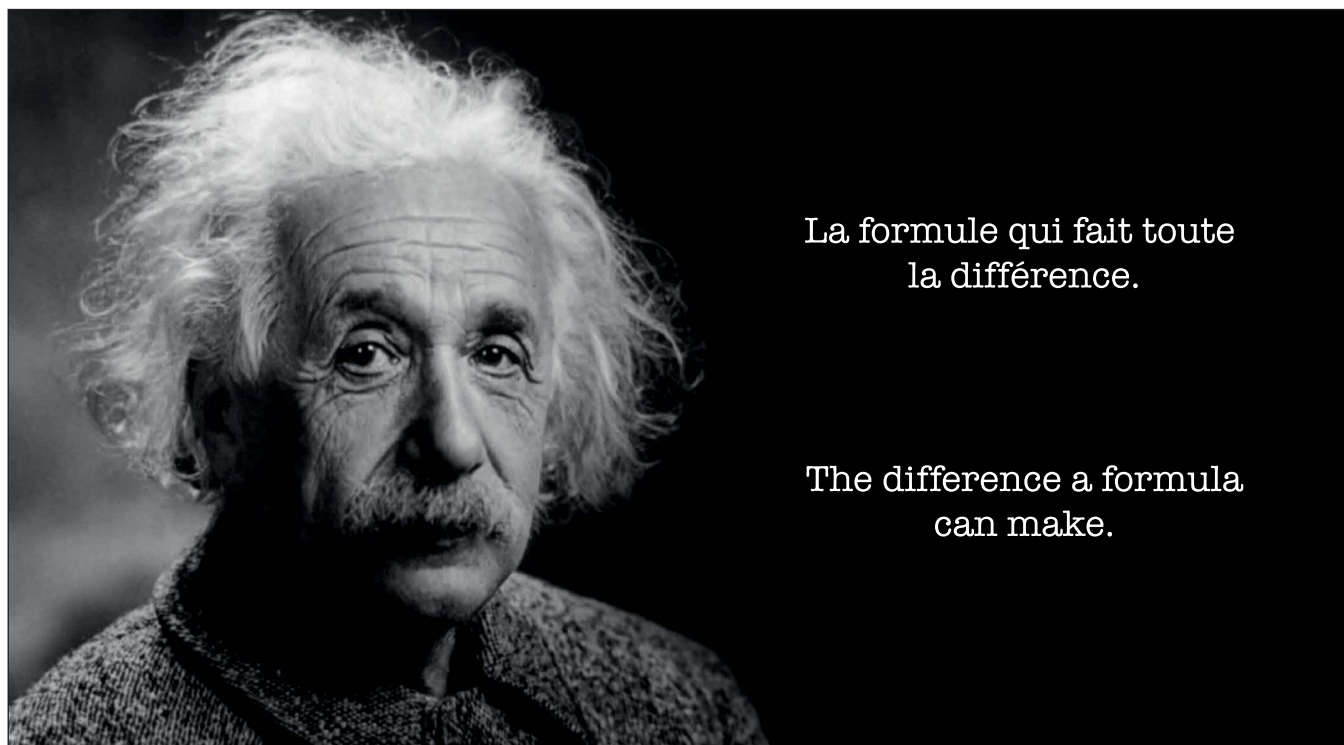
Canlak products are second to none when it comes to quality.

## Canlak and Verinlegno - A Perfect Match

Canlak is pleased to announce that it has joined forces with Verinlegno, a top European wood coatings company.



Together, we promise to keep offering services and products that exceed expectations.



La formule qui fait toute  
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The difference a formula  
can make.

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- test critical properties and performance of a wide range of dry and liquid colorants, additives, and process aids with various resins including LLDPE, LDPE, HDPE, MDPE, and plastisols,
- evaluate part color characteristics across a range of surface structures and textures and wall thicknesses,
- validate the compatibility and scalability of customized color solutions with the customer's end process, and,
- quickly perform part color confirmation and, potentially, accelerate the process of part approval with scalable solutions that reduce or eliminate the need for extensive production trials at the end-moulder.

This latest Clariant investment represents a significant boost in commercial support capabilities for its North American rotational moulding customers, says Prusak. "With global color knowledge and manufacturing resources, Clariant has always been an ideal color partner for moulders and manufacturers. With the help of these new capabilities, Clariant wants to be the North America go-to supplier for rotational moulding support."

Clariant's rotational moulding product line features dry color 'combibatches' - highly concentrated pigments with custom performance additives - that mix readily with resin granules or powders. The dry color is highly loaded with pigments and the necessary performance additives so it can be used at an addition rate of only about 0.2 per cent. Fillers are not used. This approach delivers the performance of a precoloured compound without the time and cost of premixing, extrusion, and grinding that pre-coloured compound requires. Because the same dry color formula can be used in a wide variety of parts that a moulder might be making, inventory is kept to a minimum and working capital can be conserved.

The same ingredients - colorants and performance additives - are also available separately, and liquid formulations are in development. If a moulder prefers them, Clariant can also produce pre-coloured compounds, ready for moulding

### Graco to Sell Liquid Finishing Business Assets

Graco Inc., a manufacturer of fluid handling equipment, has signed a definitive agreement to sell the Liquid Finishing business assets that were

purchased as part of Graco's acquisition of the Finishing Brands business from Illinois Tool Works (ITW) on April 2, 2012. The \$590 million cash transaction with Carlisle Companies Inc. is expected to close during the first quarter of 2015 and is subject to regulatory approval and other customary closing conditions.

The Liquid Finishing assets include Binks spray finishing equipment, DeVilbiss spray guns and accessories, Ransburg electrostatic equipment and accessories, and BGK curing technology. The 2012 acquisition of Finishing Brands from ITW also included Gema, a global leader in powder coating technology, which passed review by the FTC and is now part of Graco. No other Graco businesses or assets are included in the transaction with Carlisle.

Graco will continue to hold the Liquid Finishing business separate from its other businesses until the sale process is complete.

### Graco Acquires GeoBlaster

Graco Inc. a leading manufacturer of fluid handling equipment, has announced that it has acquired abrasive-blasting equipment manufacturer GeoBlaster Equipment Service and Sales Inc. Based in Dunnville ON, GeoBlaster manufactures innovative, wet abrasive blasting equipment for coating removal and surface preparation. GeoBlaster products will become part of the product portfolio of Graco's Applied Fluid Technologies Division (AFTD).

GeoBlaster's wet abrasive blasting equipment offers adjustable abrasive to water consumption, using from 70 to 200 pounds of abrasive per hour and as low as 0.20 gallons of water per minute. Wet blasting eliminates airborne particles produced in typical dry-blasting applications by adding a water mist during the spraying process.

Financial terms of the transaction were not disclosed.

[www.geoblaster.com](http://www.geoblaster.com) [www.graco.com](http://www.graco.com)

### Valspar Reports Fiscal 2014 Fourth Quarter and Full Year Results

The Valspar Corporation reports fiscal fourth quarter 2014 net sales of \$1.2 billion, an increase of 11 per cent over the prior year. Fourth quarter 2014 adjusted net income and earnings per diluted share, excluding these nonrecurring items, were \$117 million and \$1.38, respectively. Fourth quarter 2013 adjusted net income and earnings per diluted share were \$86 million and \$0.97

respectively. Fiscal year 2014 net sales were \$4.5 billion, up 10 per cent compared to the previous year. Fiscal year 2014 adjusted net income and earnings per diluted share, excluding nonrecurring items, were \$374 million and \$4.35, respectively. Fiscal year 2013 adjusted net income and earnings per diluted share were \$320 million and \$3.54, respectively. Net sales in the Coatings segment increased 15 per cent to \$694 million in the fiscal fourth quarter of 2014. Excluding acquisitions, sales in the segment increased 11 per cent, and volumes were up high single-digits. Sales growth in the Coatings segment was led by Packaging, General Industrial (excluding acquisitions) and Coil. Coatings segment adjusted earnings before interest and taxes (EBIT) of \$117 million (or 16.9 per cent of net sales) increased 25 per cent as a result of acquisitions, increased volume, improved sales mix and productivity initiatives.

Net sales in the Paints segment increased 7 per cent to \$479 million in the fiscal fourth quarter of 2014, and volume increased high single-digits. Sales grew (in local currency) in all regions in the Paints segment. Paints segment adjusted EBIT of \$70 million (or 14.6 per cent of net sales) was up 41 per cent from the prior year primarily due to increased volume, favorable mix and productivity initiatives.

### Valspar Acquires Madison Chemical Industries

The Valspar Corp. has completed the purchase of Madison Chemical Industries Inc., a coatings manufacturer headquartered in Ontario, Canada. Madison was founded in 1975 and has developed a global reputation for its technically advanced products used for critical infrastructures such as water transmission pipelines, water and wastewater management, and potable water storage.

### Cefla Celebrates Success Of Fifth "Cefla Live" Event

Representatives from more than 245 manufacturers participated in the most recent edition of Cefla Live, held October 9-11, 2014 at the company's headquarters in Imola, Italy.

Representing 32 countries, Cefla Live guests were able to participate in a broad range of demonstrations, across all Cefla machines and technologies.

More than 30 companies; representing manufacturers, coatings and production equipment



Erie Powder Coatings (EPC) has been offering custom and stock powder coatings and manufacturing powder coatings in Niagara since 1994. Erie has built up a strong customer base on both sides of the border and across North America. The company is very flexible, able to manufacture products from 10,000kg or more down to a single box. The addition of the US facility near Erie PA has added a great advantage for Erie's customers, many of which also have operations on both sides of the border, to purchase from both facilities.

The addition 5 years ago of the US facility has allowed the company great flexibility in dealing with customers. While the Canadian facility acts as a manufacturing base and corporate headquarters, the US facility allows local production of coatings to the US market, as well as warehousing and sales functions.

Erie manufactures a wide variety of standard thermoset coatings, including polyester TGIC, TGIC-Free and polyester urethanes, epoxy, hybrid and acrylic hybrid coatings. But custom manufactured powders are our specialty.

Erie offers a strong line of custom manufactured products, built to customers' specifications. The company offers a unique ability to offer small volume custom built orders, while still being competitive on larger volumes, and also offering advanced chemistry's and coatings.

EPC has had a strong offering in some very specialized markets, such as anti-graffiti coatings, SEFA grade coatings and fast cure coatings.

The company offers a very strong and varied line of anti-graffiti products. As with any anti-graffiti product, the key to their use is not that graffiti can't be put onto them. Of course, unwanted graffiti from spray cans or permanent markers can be put just about anywhere on any surface. The key to these AG coatings is whether the graffiti can be cleaned from them without doing damage to the product surface.

Four separate chemistries are available for AG applications from Erie, but the newest and most popular product is the hybrid anti-graffiti product. This product is substantially different from others on the market. Other AG products are expensive, difficult and often contain a number of hazardous ingredients. Erie's hybrid AG products have the distinct advantage of being fast cure but oven stable, and free of TGIC and isocyanate, which are often used in these products.

Erie Powder offers two lines of SEFA grade products. SEFA (Scientific Equipment and Furniture Association) sets standards for laboratory furniture and cabinets. Erie / EPC has been active in this market and has qualified both epoxy and urethane products that meet or exceed these specifications. While this is a select and niche market, Erie has found this market to be a strong one.

Fast cure product lines are also a specialty that Erie excels in. One of the primary reasons for this is the type of equipment that Erie uses - specialty Swiss made plastics extruders that are better at producing low-cure temperature coatings than other types of extruders.

Erie Powder Coatings is proud to be ISO 9000 compliant.

## **ERIE** Powder Coatings



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suppliers, attended the event, taking the opportunity to test their products on Cefla Finishing machines. Events like Cefla Live help develop new and innovative forms of cooperation between Cefla and its partners.

“The growth in attendance helps confirm that we are continuing to offer our customers technologically innovative solutions that meet their needs today, and provide them with ideas that open new markets for their business,” said Alberto Maestri, Sales Director Cefla Finishing Group.

Guests were also able to see two new additions to the broadest range of programmable, articulating spray machines in the industry; the iGiottoApp and Mito K. These join the spray equipment range, which already includes the market-proven products, Easy, Prima, iBotic and iGiotto.

### **Dow Sells Angus Chemical**

The Dow Chemical Co. (Dow) has signed an agreement to sell ANGUS Chemical Co. (ANGUS) to Golden Gate Capital for \$1.215 billion. The transaction is expected to close during the first quarter of 2015.

ANGUS includes the business headquarters and R&D facility in Buffalo Grove, IL; manufacturing facilities located in Sterlington, LA, and Ibbenbueren, Germany; a packaging facility in Niagara Falls, NY; as well as the associated business, inventory, customer contracts, process technology, business know-how and certain intellectual property.

Approximately 290 employee positions globally are expected to transition employment status as ANGUS moves to being owned by Golden Gate Capital. Under terms of the purchase agreement, ANGUS will continue to honour customer, licensing and supplier contracts and related agreements.

### **Michelman Takes Steps to Better Anticipate and Serve Customers' Needs Around the Globe**

Michelman, a global manufacturer of surface additives and polymers, has introduced an improved organizational structure consisting of three Strategic Business Groups. The new structure will help Michelman better anticipate and serve its customers' needs by driving collaboration between its experienced industry focused business teams - now fully integrated into the Strategic Business Groups - that serve customers in the flexible packaging, paint & coatings, fibers

& composites, engineered wood, paper & corrugated, digital printing and other industries. The three groups are Coatings, serving coating formulators with advanced polymers and additives; Industrial Manufacturing, whose expert teams work hand-in-hand with discrete product manufacturers to improve productivity and end-use performance; and Printing & Packaging, helping move the industry forward with innovative solutions in print receptive, functional and barrier coating technologies.

Michelman has appointed the following people, all with extensive global experience, to lead the new groups. Dr. Gautham Parthasarathy has been hired as Group Director, Coatings. Gautham comes to Michelman from Emerald Performance Materials, where he was VP and General Manager of the K-Flex specialty plasticizers business. He has held leadership roles with responsibilities for strategic development, marketing, business development, M&A, R&D, and operations. Mr. Michael Annis has been hired as Group Director, Industrial Manufacturing. Mike was most recently with Celanese Engineered Materials, where he held the position of Global OEM Manager and North America Business Development Manager in the Electronics Business Unit. He has previous experience in R&D, operations, sales, marketing and quality functions. Dr. Rick Michelman, Michelman's Chief Technology Officer, has assumed the role of Group Director, Printing & Packaging on an interim basis.

All three strategic groups are supported regionally around the world by enhanced management teams led by Mr. Jean-Marc Verhaeghe, VP/Managing Director, EMEA, Mr. Steven Wong, VP/Managing Director, Asia-Pacific, and Mr. Marty Riehemann who will assume the new role of VP/Managing Director, Americas in addition to his corporate role as Chief Commercial Officer.

### **IDI names Walter Surface Technologies Industrial Supply Vertical Vendor of the Year**

Walter Surface Technologies proudly announces that IDI Independent Distributors Inc. has selected Walter as their Industrial Supply Vertical Vendor of the year for 2014!

The annual award ceremony took place on January 21st, 2015 at the Eaton Chelsea hotel in Toronto, Ontario.

To determine the winner, IDI's product committee first nominates their top 4 vendors. Then



IDI names Walter Surface Technologies Industrial Supply Vertical Vendor of the Year.

their 100 members are asked to fill out a detailed survey to rank each of the vendors on a number of criteria. Criteria include quality of the vendor program, quality of the customer service, quality of delivery, quality of the relationship, and overall value of the supplier.

This is the third time that Walter Surface Technologies has received this award from IDI in the last 15 years.

IDI is a network of Canadian distributors specializing in bearings, fluid power products, industrial supplies, janitorial supplies, power transmission products and safety supplies.

### **Albemarle Corporation Completes Acquisition of Rockwood Holdings**

Albemarle Corporation has completed its acquisition of Rockwood Holdings, Inc. pursuant to the terms of their Agreement and Plan of Merger announced in July 2014.

Under the terms of the Merger Agreement, Rockwood has become a wholly-owned subsidiary of Albemarle.

### **PPG Completes Acquisition of Comex**

PPG Industries has finalized the acquisition of Consorcio Comex, S.A. de C.V. ("Comex"), an architectural coatings company with headquarters in Mexico City, in a transaction valued at \$2.3 billion.

Comex manufactures coatings and related products in Mexico and sells them in Mexico and Central America through more than 3,700 stores that are independently owned and operated by more than 700 concessionaires. Comex also sells its products through regional retailers and wholesalers, and directly to customers. The company has approximately 3,900 employees, eight manu-

*continued on page 20*

DeFelsko Corporation, a leading U.S. manufacturer of inspection instruments, offers a variety of instruments to meet the coating industry's needs.

## Introducing PosiTector® SmartLink™ - A Smart New Way to Measure

DeFelsko is pleased to introduce another industry first, the PosiTector® SmartLink™. The PosiTector SmartLink and free mobile app turns your cell phone or tablet into a virtual PosiTector gage.

Wirelessly connect PosiTector probes to your iPhone, iPad or iPod Touch to take full advantage of the simplicity and utility of your device with or without an internet connection.

The PosiTector SmartLink allows you to take advantage of the features of your smart device including touch screen, keyboard, microphone, camera, email, WiFi, Bluetooth, cellular, dictation tools, and more.

With an internet connection, you can share, backup, synchronize and report measurement data via email, apps and the cloud. Readings can be automatically backed up to PosiSoft.net or synced manually. Professional PDF reports and CSV data can be shared instantly via email, AirPrint™, Dropbox, Evernote and other applications on your smart device.

The PosiTector app is available immediately on the Apple iTunes store. An Android app will be available later in 2015.

The PosiTector SmartLink accepts all PosiTector 6000, RTR-H, SPG and DPM probes easily converting to a coating thickness gage, replica tape reader, depth micrometer surface profile gage or dew point meter.

### Award winning probe interchangeability

The award winning PosiTector gage accepts ALL coating thickness (6000/200), environmental (DPM), surface profile (SPG/RTR-H), and ultrasonic wall thickness (UTG) probes.

This innovation allows quick and easy conversion from a



coating thickness gage to a surface profile gage, dew point meter or ultrasonic wall thickness gage with a simple probe change. Each probe retains its own unique calibration information allowing for full probe interchangeability. Long form certificates of calibration are included with each probe.

Available as either Standard or Advanced, all models feature built-in memory, onscreen statistics and PosiSoft USB drive. Advanced models also include color LCD, onscreen graphing, and more.

Download and transfer options include USB, WiFi, Bluetooth, PosiSoft.net cloud-based storage and NEW PosiSoft 3.0 Desktop Software.

DeFelsko also offers quality inspection instruments including the PosiTest AT Adhesion Tester.

Call DeFelsko at (800) 448-3835 or visit our website at [www.defelsko.com](http://www.defelsko.com) to get assistance selecting the optimal instrument for your application.

For more information:

DeFelsko Corporation

802 Proctor Avenue

Ogdensburg, New York 13669-2205 USA

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# PosiTector® SmartLink™

**Wirelessly connect PosiTector probes to your smart device**

PosiTector SmartLink™ and free mobile app turns your cell phone or tablet into a virtual PosiTector gage.

### Unprecedented Mobile Integration (no internet required)

Take advantage of the simplicity and utility of your smart device. Instantly prepare professional PDF reports containing measurements, images and notes.

### Seamless Online Integration with an Internet Connection.

Share, backup, synchronize and report measurement data via email, apps and the cloud

### PosiTector Probe Interchangeability

Easily convert from a coating thickness gage to a surface profile gage or dew point meter

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facturing facilities and six distribution centers, and it had sales of approximately \$1 billion in 2013. Comex was founded in 1952.

### **Axalta Coating Systems Celebrates 50 Years of Commercial Powder Coatings**

Axalta Coating Systems, a leading global supplier of liquid and powder coatings, celebrates 50 years of commercially produced latest generation powder coatings, making it one of the oldest powder coating manufacturers in the world. Axalta got its start in commercial powder coatings in 1964 with the acquisition of the Teodur brand that had been manufactured by Wagemakers Lekbrieken, a Dutch family-owned paint company founded in 1848 that sold its first architectural grade thermosetting powder at its site in Teodur.

Axalta's powder coatings deliver superior coverage and transfer efficiency with both thermosetting and thermoplastic coatings manufactured under the names of Alesta, Nap-Gard and Abcite. These products have earned a reputation for corrosion resistance, durability due to superior edge coverage, thick film build, and efficiency because no primer is required.

For the past 20 years, Abcite powder coatings have been protecting water infrastructures, power plants, fences, light poles and many more structures against corrosion in all weather conditions. Abcite has remained successful over the years due to excellent performance and easy application, which requires no primer, top coat and virtually no maintenance.

[www.powder.axaltacs.com](http://www.powder.axaltacs.com)

## **People**

### **New at TTX**

Therma-Tron-X, Inc. is pleased to announce that Joe Laubenthal of Elgin, Ill., has joined TTX as a sales engineer. He brings comprehensive expertise in the powder coating industry as well as experience in marketing, leadership, development, and networking.

Joe has extensive experience in manufacturing and finishing systems including sales, engineering, manufacturing, and staff management. He most recently was with Acme Finishing Company, Inc. in Illinois and has worked with other major manufacturers in powder coatings and equipment.



Joe Laubenthal



Riccardo Quattrini

### **Jessica Ding to lead North American Marketing Efforts in Coatings, Construction Chemicals for Dow Corning**

Yujie (Jessica) Ding has joined Dow Corning Corporation – a global leader in silicones, silicon-based technology and innovation – as the company's North American regional marketer for coatings and construction chemicals. Ding comes to Dow Corning from Chemtura Corporation, where she had worked in commercial and marketing roles in the industrial performance products and urethanes divisions.

In her role, Ding is responsible for deepening Dow Corning's market understanding in the coatings and construction chemicals markets and for developing and implementing tactical marketing plans. She is based at Dow Corning's Midland, Michigan, USA, headquarters.

### **New at NETZSCH**

NETZSCH Premier Technologies announces that Patrick (Pat) Salvi has joined the company as Northeast Regional Manager. The addition of Mr. Salvi to the NETZSCH sales team allows the company to further develop their growing portfolio of accounts.

Pat comes with a wealth of experience within the industry, working for leading companies in the size reduction, classification, mixing, drying, feeding, pneumatic conveying, containment and isolation industries for more than 25 years. Prior to joining NETZSCH, Pat worked at ProSys Containment & Sampling Technology, Howorth Air Technology, K-Tron, Prater Sterling Industries and Hosokawa Micron Powder Systems.



Alberto Maestri

### **Cefla Finishing Group Announces Promotions**

The Cefla Finishing Group, a leading provider of finishing, decoration and digital printing solutions for wood, metal, glass and other applications, is pleased to announce two promotions of management personnel in Italy, effective January 1, 2015.

Riccardo Quattrini, currently Cefla Finishing Managing Director is being promoted to Cefla International Director.

Alberto Maestri, currently Cefla Finishing Sales Director, will become Cefla Finishing Managing Director.

Cefla management is pleased by the exceptional results both gentlemen have produced in their current positions and looks forward to similar success in their new roles.

### **Brenda Peters appointed Vice President International of OCCA**

Brenda Peters has been appointed Vice President International of the Oil and Colour Chemists'

*continued on page 24*

"Caps'n Plugs is a leading Canadian distributor and custom manufacturer of plastic injection mouldings, vinyl dip mouldings and rubber/silicone compression mouldings. We have an extensive product line of caps, plugs, grommets and handle grips for shipping protection, paint/plate masking and product finishing for virtually any application. Please visit our new website at [www.capsnplugs.com](http://www.capsnplugs.com). Our sales team is focused on finding solutions for our customers. If a suitable part does not exist in our standard product line, we can design, prototype and produce the correct part. Caps'n Plugs strives to find the best and most economical solution for our customers. Our team is committed to achieving complete customer satisfaction with our service and products."

## Masking Solutions

"Caps'n Plugs has the largest stock of standard masking products in Canada of tapered plugs, pull plugs, flange pull plugs, several styles of caps, various types of tape, cord, round tubing and more - that can be used for all high temperature painting, coating and plating. All our stock silicone or EDPM rubber parts can durable to withstand repeated painting and bake cycles. Our several plug styles can be pushed or pulled into round holes, used for threaded or unthreaded round holes, beveled or unbeveled round holes and will contort to fit off-round holes. Our flexible caps can mask off external round threaded studs, round pins, and they can even stretch to fit odd

sizes or irregular shapes.

Our flexible silicone foam easily compresses to seal off grooves or holes, and it can seal irregular shaped holes. We also stock silicone tubing ideal for a variety of applications.

We stock a variety of polyester, polyimide, hi-temp crepe and other paint masking tape in logs that we are now able to slit to whatever roll width you require, if it is not already on our shelves.

Most of the popular cut widths of green polyester tape are in stock ready for immediate delivery. Our three types of sandblasting tape are much more efficient at masking off parts during sandblasting (with no residue) than the commonly used duct tape. Our high temperature masking discs are ideal for masking off holes or grounding areas around holes. These high temperature masking discs remove cleanly from surfaces without leaving any residue behind.

Again, the popular diameter discs are stocked on our shelves. We are now able (in-house) to cut virtually any tape masking in any shape required in-house as per our customer requirements at a very reasonable cost.

If you need to mask off studs, pins, threaded holes or any part of an item that you are painting, powder coating, e-coating, plating or blasting, Caps'n Plugs can help! If you have requirements for a non-standard mask, our custom prototype prices, piece prices and production tooling costs are the lowest available in Canada."

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- ***Largest stock and best prices for standard hi-temp masking products in Canada.***
- ***Ultra competitive prototype, production tooling and piece costs for custom designed masking.***
- ***In-house tape slitting and tape die cutting for hi-temp masking shapes or kits.***

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Email: [westsales@capsnplugs.com](mailto:westsales@capsnplugs.com)

Please visit our new website at [www.capsnplugs.com](http://www.capsnplugs.com)

# Canada's Leading Supplier of Coatings Inspection and Test Equipment



Stone Tucker Instruments is celebrating the opening of a second facility in Edmonton, Alberta. We are pleased to be able to provide even better service to our Western Canadian customers at our new home away from home. We would be pleased to speak with you at 587-758-8367. Stone Tucker Instruments was incorporated in 2004 to meet the Canadian coatings industry's need for cutting-edge inspection and testing technology backed by world-class customer service and the expertise of NACE-certified staff.

## Stone Tucker Instruments provides a full range of calibration and repair services

Stone Tucker Instruments recognizes the importance of timely delivery in the fast-paced coatings industry. As DeFelsko's primary Canadian distributor, all standard product lines, and a

wide variety of other items are in stock at all times in both locations. DeFelsko's full range of products, including the new PosiTector SmartLink™ and the new FXS Xtreme™ probe can be found online at [www.stone-tucker.com](http://www.stone-tucker.com). There will be several exciting new products we will be premiering in the coming year including the PosiTector RTR-p.

Stone Tucker Instruments is committed to providing our customers with nothing but the best equipment available to the coatings and non-destructive inspection industries. Stone Tucker Instruments has introduced a number of new products this year, including the PosiTector SmartLink system from DeFelsko, and the new Drop data-logger from Kestrel. We are pleased to distribute and service the world's finest inspection and testing equipment from industry-leading manufacturers including DeFelsko, Dakota Ultrasonics, Testex, Chlor-Rid, Western Instruments, Kestrel, Spectronics, Tinker & Rasor, Time Instruments, PCWI, Montipower, TQC, MTP, Lascar, and Gal Gage.

Coatings professionals will tell you that the key to good coatings application is proper surface preparation. Stone Tucker

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PosiTector SmartLink™ and free mobile app turns your cell phone or tablet into a virtual PosiTector gage.

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**PosiTector Probe Interchangeability**  
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Instruments a Canadian distributor for the MBX Bristle Blaster. Designed to clean rust and scale from industrial surfaces – including the ones that conventional sandblasting just can't touch – the Bristle Blaster leaves a surface condition comparable to an SSPC SP-10 near-white blast while generating an anchor profile between 2.5 and 3.3mil. The MBX Bristle Blaster is just one of the products recommended to ensure a quality coatings application every time.



Stone Tucker Instruments is committed to providing their customers with outstanding service, including instrument repair and calibration. Staff include a NACE-certified coatings inspector with over 20 years' industry experience, and a NACE - trained technical sales representative with multi-disciplinary NDE field experience. All sales personnel have factory training on a variety of products. Technical knowledge combined with the practical application experience ensures exceptional customer service and support for all of our instrument lines.

Stone Tucker Instruments has become Canada's premier supplier of quality control instruments and equipment because of their absolute commitment to their clients.

To find out what Stone Tucker Instruments can do for you, call them at (905) 892-6142 or 587-758-8367 for western Canadian customers, or email at [info@stone-tucker.com](mailto:info@stone-tucker.com).

You can also view their full line of inspection and test products at [www.stone-tucker.com](http://www.stone-tucker.com).

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- Standards\*: ISO 2813; ASTM D523; ASTM D2457; DIN 67530; JIS Z 8741; ISO 7668 \*(exception 45° angle)
- TQC Ideal Finish Analysis included



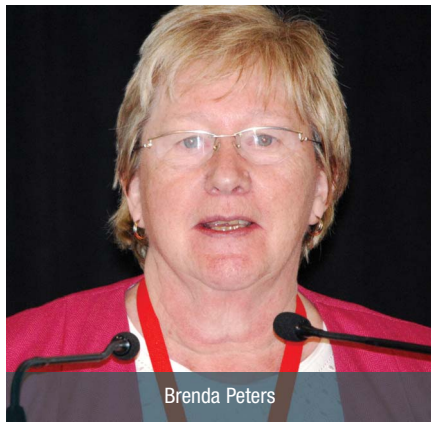
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continued from page 20



Brenda Peters

Association (OCCA). She has already deputised for this role, standing in for the former Vice President International, Fred Morpeth at the recent Coatings Societies International (CSI) meeting in Tokyo in October 2013 and in giving a presentation on OCCA and its membership benefits at ATI-PAT earlier this year.

Brenda Peters is a Past President of OCCA, and is now the Company Secretary, having been an OCCA Council member since the mid-1990s.

### **TCI Powder Coatings Hires a Director of National Markets, a Director of Field Technical Support, and a Senior Technical Representative**

TCI Powder Coatings, manufacturer of powder coatings, is pleased to announce two recent promotions of senior staff members and one new hire in technical support. Steve Jones has been appointed to the new position of Director, National Markets and Jeff Wilhelms to Director of Field Technical Support. Mike Webb joined TCI as a Senior Technical Representative.

In his new role as Director, National Markets Steve Jones will continue the company's pursuit of key market segments and geographies and direct the programs supporting marketing and sales efforts throughout North America

As the new Director of Field Technical Support, Jeff Wilhelms is responsible for planning and directing TCI's technical support to customers in the field and providing the support needed to demonstrate the effectiveness of TCI products and solutions for new potential customers.

Mike Webb brings 30 years of experience over a broad range of applications in the coatings industry to the Senior Technical Representative position.

### **TCI Powder Coating, RPM International, Inc. Names John J. Bostock Vice President, Sales and Marketing**

TCI Powder Coatings, a powder coating manufacturer and a proud subsidiary of RPM International company, is pleased to welcome John J. Bostock as Vice President, Sales and Marketing. Jack brings over 30 years experience in the industrial coatings market. For 24 years Jack was with Valspar with an increasing level of executive experience, most recently as Vice President, Global Sales Industrial business. Doug Greene, President of TCI expresses, "Jack brings a wealth of knowledge and experience in the global powder coatings market. Our shared passion on product innovation, market responsiveness, and total customer focus makes Jack an ideal member of our leadership team. This appointment supports our continued investment in our customer-centered growth strategy." Jack, an expert in both sales and marketing, will bring a strategic perspective to growth of our core business and expansion into new business segments while focusing on innovation.

## **Pricing Updates**

### **Clariant BU Additives Increases Prices for Polymer Additives Products**

Clariant, a world leader in specialty chemicals, announces a price increase for its Polymer Additives products. Effective January 1, 2015, prices for Plastics and Coatings products will be increased up to 10 per cent as a result of higher costs. The increase will affect selected products within the Light Stabilizer, Antioxidant, Process Stabilizer and Antistatic portfolios.

### **Unimin increases**

Unimin Specialty Minerals Inc. of New Canaan, CT will raise prices for all MINEX, IMSIL, SNOBRITE, and MINBLOC brand functional filler products effective February 1, 2015. Price increases will range from 3 per cent to 6 per cent

depending on grade. The increase is necessary to offset rising production costs, critical support and continual reinvestment.

### **Ashland announces price increase for N-Methylpyrrolidone**

Ashland Performance Materials, a commercial unit of Ashland Inc. has increased the price of all grades of N-methylpyrrolidone (NMP, M-Pyrol) sold globally, effective January 1, 2015 or as contracts allow. North America and Asia price increased up to \$0.05/lb (\$0.10/kg). Europe price increased EUR 0.08/kg.

The increase is necessary to allow Ashland to continue investing in new capacity and technology that support innovative product development and regulatory and logistics support.

### **Huber Announces Price Increase for Industrial Ground Calcium Carbonate**

Huber Engineered Materials, a division of J.M. Huber Corporation, announces a price increase for its industrial calcium carbonate products. The price increase does not apply to Huber's food and USP calcium carbonate grades.

The increase was effective Dec. 1, 2014, or as current contracts allow. Prices will increase an average of five to 10 percent depending on product grade and packaging.

While Huber continues to focus on minimizing the inflationary impact on its ground calcium carbonate business, cost increases in materials, packaging, freight, regulatory compliance, labour and capital investments necessitate the pricing adjustment.

Huber's industrial calcium carbonate products are used in a variety of consumer and industrial applications, including building materials; drilling fluids; rubber; thermoset composites; thermoplastics; swimming pool aggregate; pet food; cultured marble; paints and coatings; and adhesives, caulks and sealants.



MOCAP is a leading manufacturer of standard and custom plastic and rubber injection molded, dip molded and extruded products. We offer a full line of caps, plugs, grips and tapes for product protection, masking and finishing purposes sold to virtually every industry for countless applications.

In business since 1982, MOCAP's philosophy has always focused on the finding the right solution for our customers whether that be through our standard or custom products. We serve our customers requirements globally, with locations in North America, Europe and China.

We currently offer a full line of masking products in various materials designed to meet the requirements of nearly any coating/finishing application. Materials range from one-time use high temperature vinyl to ultra high-temp reusable silicone rubber, while our extensive product line include standard cap and plug configurations as well as pull plugs, washer plugs, tapes, discs and tubing. The products can be used for your high temperature painting, plating, anodizing and coating operations and in some cases, like EPDM and Silicone products, can be used repeatedly for optimum savings.

Some of our Masking Products include:

**High Temperature Vinyl Caps and Plugs**

- Designed for one-time use, our caps and plugs are available in various sizes and styles to meet your requirements. The High-Temp Vinyl material will withstand approximately 450° F for 30 minutes.

**EPDM Caps and Plugs**

- Designed for repeated use, our line of EPDM caps and plugs are perfect for temperatures up to 475° F and are a more economical solution than silicone. They also offer better chemical resistance.

**Silicone Rubber Caps and Plugs**

- The ultimate in masking materials, silicone rubber offer ultra-high temperature resistance, up to 600° F, and reusability all in one.

**Polyester/Polyimide Tapes and Discs**

- We offer both materials in both styles for masking of flat surfaces. Polyester material will resist up to 425° F for up to one hour while the Polyimide material will

resist over 500° F for up to one hour. These tapes and discs can be removed easily and will not leave behind any residue.

**Silicone Rubber Tape**

- Our self-fusing tape will conform to any standard or irregular shape and works excellent as a custom mask. The tape will stretch up to 300% and has no adhesive, so the tape is safe for temperatures over 500° F.

**Silicone Tubing**


- The silicone tubing is sold in coils and works with any high temperature environment. Resists temperatures up to 500° F, the tubing can be cut easily at your facility to the length required for your application.



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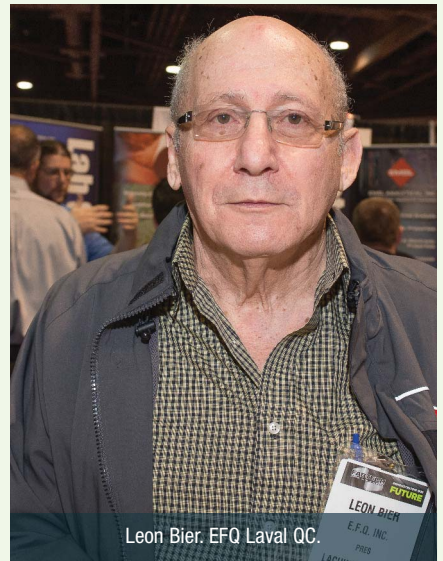
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# FabTech 2014 a Success in Atlanta

FABTECH, North America's largest metal forming, fabricating, welding and finishing event attracted more than 30,800 attendees from over 70 countries. During the three-day expo, attendees visited 1,477 exhibitors to see live equipment demonstrations – including hundreds of new technologies – and compare products side-by-side to find cost-saving solutions. The exhibits covered more than 550,000 net square feet. Attendees also benefited from the FABTECH educational conference that included expert-led sessions on some of the hottest topics in manufacturing. **CFCM was there.**

Photos by Pete Wilkinson



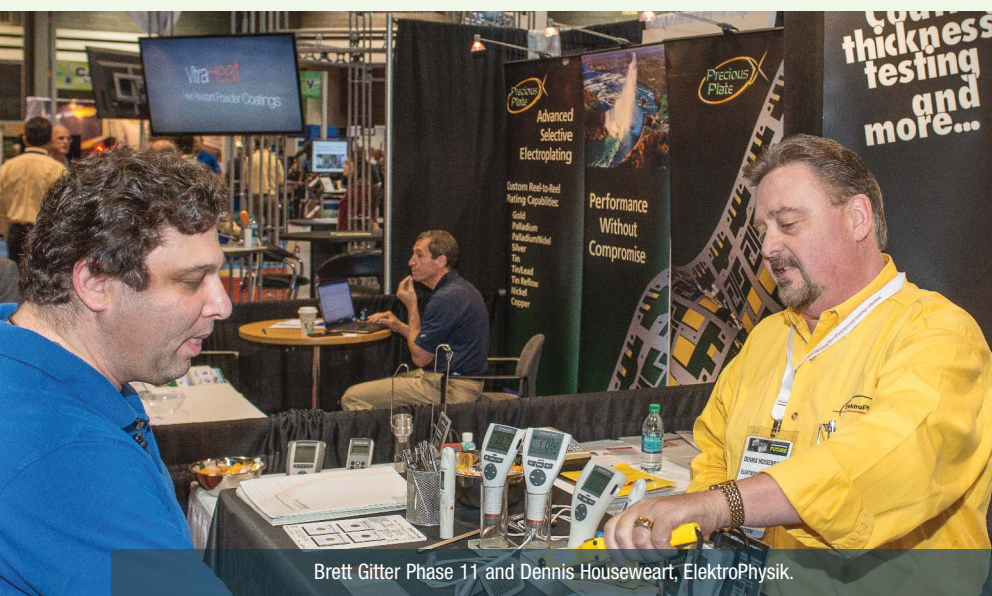
Leon Bier, EFQ Laval QC.



James Hall and Chris Beninati, Elcometer.



Ryan Watt and Tom McCarten, Duroair Technologies, Burlington ON



Brett Gitter Phase 11 and Dennis Housewart, ElektroPhysik.



Doug Ware, RKO Steel, Dartmouth NS.



Mike Gallagher, Jim Miller, and Brad Andrea, TTX Thermo-Tron-X.

## Providing Peace of Mind

Since 1966, Echo has been providing world class companies with both standard and custom masking, hanging, OEM components and assemblies, as well as protection products. We have an extensive selection of materials available that meet various performance requirements. Our operations include multiple stocking locations, in-house converting, and extensive molding capabilities. These specialized operations – coupled with our team's design expertise, engineering ingenuity, and product development experience – guarantees that you receive fast, innovative, cost effective solutions that make sense for your business.

At Echo, we take the time to get to know our customers – to understand their processes and integrate ourselves into their business practices. We build true relationships and are able to provide value-added solutions to our customers time and time again. We are passionate about providing peace of mind to our partners, and in return they have rewarded us with a 97% retention rate.

## Masking Solutions

For over 40 years Echo has specialized in high-temperature standard and custom masking solutions consisting of caps, plugs, pressure sensitive tapes, and die cuts. We've built a reputation for developing reliable, durable masking solutions that are easy to install and remove, color coded for easy identification, and designed for reusability.

## Hanging Solutions

Echo offers hundreds of standard hooks and specializes in hook and rack design. Our custom hanging solutions ensure you have the durability you need for every type of capacity and finishing operation. Custom hooks and racks increase productivity, reduce racking labor and provide better angles for coating.

## Custom Engineered Solutions

We have designed, engineered and manufactured thousands of value-added rubber and plastic components and assemblies

within countless industries. Partnering with our customers has allowed us to provide OEM solutions that improve product reliability, shorten time-to-market cycles, reduce warranty costs, and provide better all-around products.

## Product Protection Solutions

At Echo, we recognize the importance of protecting products during shipping, manufacturing, while in storage, and in transit to your customers. That's why we have developed thousands of standard plugs, threaded plugs, caps, and netting to protect products from damage debris, and moisture within a variety of industries.

## The Echo Way

We want to change your expectations – we are problem solvers, team players and outside-of-the-box thinkers. That's why we take the time to understand your business and make recommendations to provide the best solutions. We care about your business as much as you do. You can expect that...because that's The Echo Way.

Whether you need a standard stock component or one that is custom designed, we are equipped and ready to provide what you need – fast. Echo does more than just provide parts to cover and opening or provide appropriate racking. Our high-quality solutions have helped companies increase line output, reduce labor costs, enhance efficiency and a number of other bottom line tangibles that provide real value and create peace of mind for our customers.

Call us today at 888-echo-365 or email us at [info@echosupply.com](mailto:info@echosupply.com) to ask us about The Echo Way!

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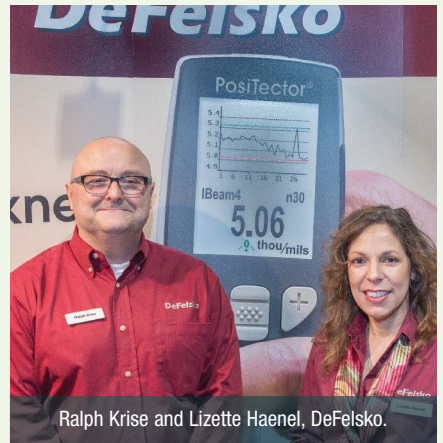
Kent Warner, Jessica Heffernan, Brooke Roahrig and Ben Thomas, Echo Engineering.



Mike Floyd and Christine Jordan, Uni-Spray.



Rebekah Jenne, Randy Lankford, Vinton Bair and Robert Davis, Webb Stiles.



Ralph Krise and Lizette Haenel, DeFelsko.



Grace Biondi, Mark Lazarus, Vanessa Ades and Jody Mitchell, Protech Powder Coatings, Montreal QC.



Joe Nieradka and Judith Lietzke, Finishing Brands.



Andy Ritchie, Eagle Press Equipment, Oldcastle ON.

Therma-Tron-X, Inc. designs, fabricates, and installs innovative, custom paint finishing systems for hundreds of contract shop coaters and OEM's. TTX offers turn-key services including multi-stage pretreatment equipment using spray, immersion or a combination; industrial ovens fitting desired spatial needs and utility requirements; environmental rooms offering ideal powder paint application conditions; liquid spray booths balancing air-flow and minimizing overspray; and material handling solutions designed to fit individual needs. TTX Environmental develops water and wastewater treatment systems that minimize operational costs and environmental impact. From start to finish, TTX will automate every step and integrate the finishing system with the facility.

TTX's revolutionary SLIDERAIL SQUARE TRANSFER® (SST®) material handling system performs high volume finishing operations using a fraction of the space required traditionally. Modular Econ-E-Coat® systems are specifically designed to be portable. Monorail, Power and Free, and custom conveyor systems carry parts through paint application processes while fully automating manufacturing facilities and efficiently transferring product between manufacturing, finishing, and final assembly/shipping areas. Programmable hoists are custom designed and built to serve wide varieties of industrial finishing processes and can be integrated with multiple styles of conveyor systems. All TTX systems are PLC equipped.

Successful companies rely on TTX's knowledge and experience in coating technologies, equipment development and water and wastewater treatment solutions. Research and development, innovative designs, quality workmanship, project management, and superior service bring customers from all over the world to TTX's doorstep.

- Pretreatment Equipment
- Industrial Ovens
- Environmental Rooms
- Liquid Spray Booths
- Material Handling Solutions
- SLIDERAIL SQUARE TRANSFER® (SST®)
- Monorail Conveyor
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Wilhelm Schmidts, Erik Niehaus, Brendan Johnese and Bill Jodnese, Walther Pilot.



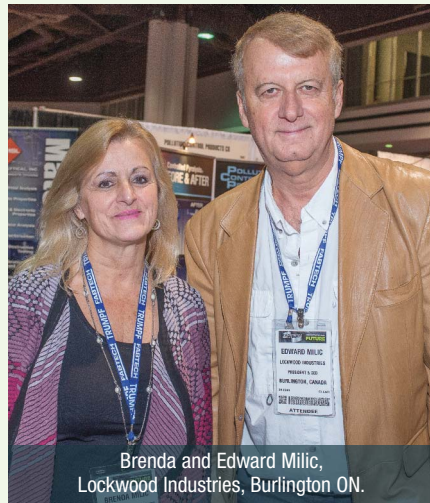
Alan Moon and Monica Sluys, Guspro, Chatham ON.



Cheryl Davidson and Andrew Scott, Venjakob, Bolton ON.



Greg Moise and Robert Simmerer, Bex Spray Nozzles, Mississauga ON.



Brenda and Edward Milic, Lockwood Industries, Burlington ON.



Rob Weber and Paul Lomax, Fischer Technology.



Terry Anderson, Jeff Paxson, Bill Owens and Michael Withers, Axalta Coatings.



Glenn Sandstrom, Nicole Williams and Jim Brooks, Anest Iwata.



Anthony Mansour, Nadine Stojanoff and Geordan Gay, Chameleon Innovations, Pointe-Claire QC.

## Coating Thickness Measurement and Material Analysis with FISCHER

FISCHER is recognized as a leading producer of high quality, precision hand-held and desktop instruments for coating thickness measurement, material analysis, material testing and nanoindentation instrumentation. There is a FISCHER solution for every industrial measuring application.

FISCHERSCOPE® X-ray fluorescence instruments for coating thickness measurement and material analysis are optimally suited for determining the composition of materials, measuring thin coatings and coating systems for a wide variety of applications with and without calibration standards.

Fischer offers a complete range of hand held coating thickness gauges ideally suited for measurements of paint, powder coating, plating and anodize. FISCHER DataCenter software, for quick and easy data transfer to your PC and personalized inspection reports, is included with most of Fischer's hand-held instruments. All Fischer units and foils come serialized and certified at no additional charge.

Different applications require different test methods. The FISCHERSCOPE® MMS® PC2 combines the most commonly used non-destructive test methods in one measuring system. It is a compact universal coating thickness and material property measurement system with data archiving and measurement data processing capabilities used for incoming inspections, ongoing production, sampling or routine tests. The modular design allows the user to combine and configure different test methods and probes for virtually any coating/substrate combinations; some methods available are: magnetic induction, eddy current (amplitude-sensitive and phase-sensitive), magnetic, beta-backscatter, micro-resistance and duplex. The unit includes Fischer DataCenter software makes it possible to easily generate individual reports and design them with your own logos, images and graphics. You can integrate any desired measurements, statistical values and graphic displays via drag and drop. This eliminates the need to work with pen and paper.

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# FabTech 2014



Brett Kilgour, POW Engineering, Ingersol ON, Jeremy Williams and Steve Miller, Empowering Technologies.



ST Rajan, Toronto ON and Herve Sadones, Exel North America.



Greg Taylor Gema, Canada and Mike Warners, Steelcase.



Justin Girard, David Beal, Suresh Patel and John Stafford, Chemetall.



Mike Lane, Jervis B Webb Canada, Hamilton ON.



Bill Brawley, Pneu Mech, John Cole and Travis Johnson, Parker Ionics.



Stephane Girardin, IST International Surface Technologies Laval QC and Brad Schneider, Rontier, Kitchener ON.



Gema is a pioneer in powder coating equipment technology, offering customers the confidence and expertise that comes with being the industry's global leader. Equipment from Gema is durable, flexible and engineered to last, providing increased performance, greater efficiency, and a better return on investment. Gema sets the industry standard, developing the finest powder coating equipment available.

Gema is leading the way in color change solutions, offering the latest product innovations designed to maximize productivity and color change flexibility.

The OptiCenter™, with its quick and dust-free powder management, enables excellent coating results. Short suction tubes, new injectors, and optimized pneumatic connections ensure a higher powder flow rate with less air consumption, resulting in reduced wear and tear. The overall design allows extremely quick color change.



Gema's OptiColor™ performs color changes in a matter of seconds, while managing multiple colors at one time and eliminating the risk of contamination. This easy to use and cost effective solution allows you to save time and money when changing from one color to another. OptiColor is designed for manual spray operations using multiple hoppers set up to spray various colors.

Gema's Magic Series® quick color change booths are designed to handle a large variety of colors and guarantees extremely quick and clean color changes. All of this without any mechanical cleaning tools or entering the booth!

Gema's OptiFlex® Automatic and Manual powder coating guns integrate the most advanced powder charging technology available. Every component is designed for total reliability, convenience, and performance. Using 100,000 volts of FirstPass Power™, you can coat it right the first time - every time!

Gema's product offerings include manual & automatic spray guns and booths, fast color change equipment, cartridge & cyclone recovery systems, gun movers, control systems and other ancillary equipment.

The Gema North America office offers direct sales and distribution support in Canada, the United States and Mexico. To learn more about product offerings or obtain assistance in determining which equipment is best for your operation, visit [www.gemapowdercoating.com](http://www.gemapowdercoating.com), email [Powdersales@gema.us.com](mailto:Powdersales@gema.us.com) or call 800-628-0601.

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## The technology behind the cloud keeps Gema out in front

Not all powder clouds are created equal – in fact, many create less-than-desirable results. Factors such as powder type, part geometry, application environment and operator skill can all affect coating consistency. Results vary widely and can severely impact your operation's bottom line.

Gema's powder coating technology has been precisely designed to do one thing – deliver the right powder cloud for any given application.

Gema's manual and automatic powder coating systems work seamlessly to merge the right cloud density with the right particle charge and air balance. Gema gives anyone the confidence to spray any powder on any part in any place.

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[GemaPowderCoating.US/Cloud](http://GemaPowderCoating.US/Cloud)

# CPCA Coatings Technology Christmas Luncheon

The Canadian Paint and Coatings Association held its Coatings Technology Christmas Luncheon on December 9, 2014 in Toronto. A generous contribution of Toys were collected for the Children's Christmas Wish Fund. **CFCM** was there.

Photos by Pete Wilkinson



## Helping You Stay Ahead of the Curve

Founded in 1913, the Canadian Paint and Coatings Association (CPCA) is the recognized voice of the paint and coatings industry in Canada. As an ally and advocate, the association contributes to the regional and national success of its members through the delivery of value-added services in critical areas. These include health and safety, environmental affairs, networking events, regular statistical and data analysis of sales and industry trends, professional development such as online training in coatings technology, general advocacy and communications to raise the profile of the industry.

The association also keeps its members up-to-date on the latest industry news with must-read publications, plus regular bulletins and alerts on regulatory developments and compliance requirements. All of these resources are conveniently archived for members only. All the things you "need to know" to stay ahead of the curve in the Canadian coatings industry.

## A Robust Industry

CPCA represents Canada's major paint and coatings manufacturers and their industry suppliers and distributors in three primary product categories: architectural paints, industrial and automotive coatings. The industry has more than 261 paint manufacturing establishments in Canada, which translates into annual retail sales valued at more than \$10 billion and employs directly and indirectly 31,800 employees.

There are more than 6,500 retail outlets in Canada selling paint and coatings products, half of which are stores operated by our members, the paint and coatings manufacturers. The other half includes the big box stores and building supplies

stores stocked with recognized brands from CPCA member companies. In addition there are more than 4,500 auto body paint and repair shops across the country supplied by members of CPCA. Finally, CPCA members supply directly the coatings required for original equipment manufacturers (OEM) in the automotive, aerospace, marine and industrial sectors. The industry is relevant in every sector of the Canadian economy and a robust and highly visible part of the chemical processing industry.

## Advancing Industry Needs

CPCA offers members exclusive access to a broad range of innovative programs and services, in addition to delivering a coherent and convincing industry viewpoint to decision makers on critical policy and regulatory issues. By making sure that members are fully conversant and compliant with all federal and provincial legislative and regulatory requirements in Canada, the association helps ensure that the industry can continue to deliver value-added, quality products to its DIY, industrial and commercial consumers.

## Stronger Together

CPCA helps its members stay ahead of the curve on critical issues impacting their business. More importantly, CPCA membership provides a unique opportunity for companies to influence the shape of the industry in which they do business, whether as a manufacturer, supplier, distributor or an affiliated business. If you don't shape it, someone else will shape it for you.

Check out the value of CPCA membership at: [www.canpaint.com](http://www.canpaint.com)

## Value-Added Membership

As the recognized voice of the paint and coatings industry in Canada, CPCA has been dedicated to taking collective action for more than 100 years. Consider just a few of the issues before the industry:

### *Globally Harmonized System for Labeling*

How much will proposed new labeling regime for chemicals in the workplace cost you and how can it be reduced?

### *Low-level VOC Emissions*

Will your products survive further reductions in VOC limits and still perform and sustain your business over the long term?

### *Chemicals Management*

Are you aware of the current, ongoing assessment of the chemicals used in your products with new risk management actions required for many? Are your products compliant and do you care about which products might be banned or regulated in future and how that will be done?

### *Product Stewardship and Sustainability*

Are you compliant with stewardship regulations and do you want to help shape the future of new regulations imposed by government on your business?

## Top 3 Reasons to Join

- 1 Know what is being done to your business now, not after the fact
- 2 Take action and provide input to ensure your business can grow and prosper
- 3 Share the responsibility to counter measures that threaten your paint and coatings business and future trade

*Stronger Together: CPCA provides the strength, commitment and resources to help you get informed, stay connected and sustain your business.*



[www.canpaint.com/membership](http://www.canpaint.com/membership)

# OPCA Christmas Luncheon

The Ontario Paint Contractors Association held its Christmas Luncheon on Dec. 3, 2014 in Woodbridge. **CFCM** was there.

Photos by Pete Wilkinson



## advancing with technology

ElektroPhysik is a leading manufacturer of coating thickness measuring instruments used for advancing surface technology, research and quality control.

ElektroPhysik maintains a branch office in the U.S.A. and is represented by distributors and agents globally in almost every country and market in the world. It is this network and partnerships that enable ElektroPhysik to service its customers and provide the support required in today's competitive global marketplace.

In addition, ElektroPhysik USA Inc. is the exclusive North American Agent for Sheen Instruments of England an Elektron Technology Ltd company.

Sheen Instruments Ltd. is a well respected manufacturer of viscosity testing products and devices, film application products, gloss and opacity testing devices and physical testing devices according to ASTM and International Standards.

To better serve the North American markets, ElektroPhysik maintains a North American website which is: [www.ElektroPhysikUSA.com](http://www.ElektroPhysikUSA.com).

ElektroPhysik is well known for the MikroTest coating thickness gauges utilizing the magnetic attraction principle. This gauge has been called the 'banana gauge' because of its shape and is strictly for non-magnetic coatings applied over

steel. The MikroTest is perhaps agreeably the most widely utilized coating thickness testing gauge in the world.

Other brands include the MiniTest, eXacto, and GalvanoTest which are electronic platforms for measuring coatings over both ferrous and non-ferrous substrates.

ElektroPhysik prides itself on its "sensor" technology, ElektroPhysik continually strives at advancing products in this area and recently developed SIDSP® digital sensor technology.

SIDSP® is an ElektroPhysik exclusive which took years of research and development. SIDSP® stands for Sensor Integrated Digital Signal Processing and the way that works is that entire coating thickness measurement is processed in the sensor at the point of measurement. SIDSP® is unlike previous conventional techniques where an analog signal is generated by the sensor and then sent to a host gauge to processing. The vulnerability with that technique has always been that the analog signal susceptible to environmental influences such as strong electro-magnetic fields and other signal disturbances that could affect the analog signal and therefore the reading.

SIDSP® is available in the MiniTest 700 Series as well as the new MiniTest 70 Series.

The future for ElektroPhysik holds many challenges driven by globalization

and increasing demands in the marketplace by customers to achieve even higher levels of quality. There is no doubt ElektroPhysik will be able to stand up to these challenges as it always has. Driven by the passion for the pursuit of new technologies and implementing them where ever possible is why it is often said; ElektroPhysik...advancing with technology.

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# OPCA Christmas Luncheon



## Welcome to Venjakob

Competence in surface finishing machines, handling equipment and exhaust air purification.

The Venjakob groups of companies is now in its 51st year. We design, produce, install and commission complete system solutions - from conveying handling pre-treatment to the application of paint or surface treatment required for your particular process, as well as the conveying and handling equipment through the drying and curing of the parts exhaust air purification. Experience accumulated over decades, is complemented by qualified and motivated staff paving the way for the company to evolve into an internationally operating and recognized technological leader in finishing equipment. Members of the group of manufacturing companies include: Venjakob Maschinenbau GmbH & Co. KG in Rheda-Wiedenbrück/Germany, Venjakob Umwelttechnik GmbH & Co. KG in Sarstedt/Germany and Nutro Inc. in Strongsville, Ohio/USA. With numerous locations worldwide to service you, South America, Europe, Asia, Africa, North America including Venjakob North America, Bolton, Ontario.

## Reference List

Plastics and Automobile: Venjakob painting machines are in use in many areas of plastic processing such as exterior and interior automotive parts electronic goods and construction industries, for the application of paints lacquers polyesters and adhesive coatings corrosion inhibitors.

Wood and Furniture: Venjakob paint and coating machines and dryer lines are in operation in the woodworking industry, for solid wood, veneer, MDF, furniture components, doors and much more.

Steel pipe: This system technology developed specifically for coating round steel pipes with temporary corrosion protection. Solvent-free coating with 100 per cent UV paint. The machine uses the spray method, pipe marking, pipe cleaning and UV drying.

Exhaust gas purification: We have installed over 600 systems in diverse industry sectors worldwide.

## Venjakob quality, a factor for your success!

To achieve our goal of highest possible quality and maximum customer satisfaction, we draw on the profound expert knowledge of our employees and purchase exclusively first-class quality components. Competent and highly specialized personnel develop and realize individual problem solutions for our customers found in the most diverse fields of industry. The Venjakob quality of work is reflected in comprehensive counseling meetings, is substantiated in its own laboratory and complemented by installation and start-up within the deadlines set.

Quality and competence, is also provided by our extensive after sales service

and spare parts department. Our experienced service staff offers qualified instruction of your personnel on new and existing equipment.

## Environment

For decades Venjakob has been living the motto: environmentally friendly - economical - reliable. Venjakob lives this environmental aspect not only in the design of machines...our DIN EN ISO 9001 and 14001 certificates document our high-quality and reliable performance.

A large number of in part patented product developments allow customers to produce in an energy efficient, environmentally sound and economical manner.

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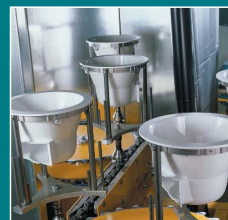
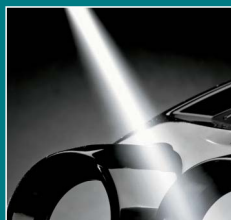
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# Taking Care of Business

## Save the Date: CPCA Annual Conference Planned for Spring 2015

CPCA has moved the date of its Annual Conference and AGM to the spring. The annual conference will take place on May 27-29, 2015 at the Pillar and Post in Niagara-on-the-Lake. This year's conference will have a new format and will be as robust, but more compressed than in the past to accommodate busy agendas.

For details please see: [www.canpaint.com](http://www.canpaint.com).

## WDO Approves Plan to Increase Paint Recycling in Ontario

Waste Diversion Ontario (WDO) approved an industry-led plan by Product Care Association that will result in increased diversion of paint from Ontario's landfills and more opportunities for consumers to recycle their used paint and coatings. This will be done without the need to change existing arrangements with municipalities and other service providers in Ontario. The new program will take effect no sooner than June 2015 to allow WDO, Stewardship Ontario, Product Care and all municipalities in Ontario the time needed to transition from the current MHSW Program operated by Stewardship Ontario to the new program operated by Product Care. Over the next several months, WDO will lead a municipal transition working group to address any transitional details before the plan takes full effect. Additional product materials will be covered by Product Care's ISP, including non-pesticide marine coatings and all paints and coatings in aerosol containers. The definition of paint aerosols will be the same in Ontario as in all other Product Care programs across Canada, providing greater harmonization for paint manufacturers, which generally means any consumer-size aerosol of any kind of paint, including automotive touch-up products. This new initiative will further enhance the industry's impressive sustainability efforts with post-con-

sumer paint programs established in Canada since 1993.

## CPCA Launches First Canadian Voluntary Code of Practice

CPCA launched a national educational campaign as an integral part of the Code of Practice for 2-Butanone oxime (MEKO) in December 2014. CPCA has been overseeing the creation and implementation of the materials on the Code of Practice since it was announced in June 2014 by the federal government. The materials emphasize the need for consumers to properly ventilate their surroundings during and after using indoor alkyd-based paint products containing MEKO. It should be noted that this Code of Practice applies to all businesses in Canada selling products containing MEKO, not just CPCA members. The Code of Practice for MEKO is the first of its kind in Canada for consumer products. It signals to other governments, stakeholders and the public that the federal government has confidence in the paint and coatings industry. Rather than regulating industry, the federal government has opted in this case to proceed with the less onerous and less costly approach. This is a positive development and will help CPCA in its ongoing efforts on other environmentally sensitive files vis-à-vis government. The bilingual education materials include a fact sheet on protecting consumer health and ventilation best practices; a poster on reducing exposure to MEKO for do-it-yourselfers and retailers; a video for consumers with information about ventilation best practices; and online guidance information. These materials are available on CPCA's website. Members of the Canadian paint and coatings industry, retailers and consumers have the option of viewing, downloading and printing copies of the fact sheet, poster and video and sharing a link to the materials on their social media networks and/or website.

## CPCA Proactive on Providing Critical GHS Training for Members

CPCA announced its partnership with ICC Compliance Center (ICC) to offer training to its members on the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The partnership will provide CPCA members with discounted rates on ICC's in-person training classes across Canada for GHS Supervisor Manager and GHS Classification, as well as a web portal on CPCA's website for easy access to ICC's online courses on GHS and other topics. CPCA strongly recommends that its members start training their employees as early as possible prior to the official coming into force of GHS in Canada on June 1, 2015.

## Early Adoption of GHS Regulations in Canada Required by Provincial and Territorial Ministries of Labour

In a letter sent in early January 2015 to the Deputy Ministers of Labour of all Canadian provinces and territories, CPCA urged all departments to do everything possible to speed up the final publication of the new GHS regulations in Canada. The provinces/territories are responsible for implementing GHS in the workplace. CPCA remains hopeful that the review process in all jurisdictions will move forward expeditiously to ensure final GHS adoption as early as possible in 2015, and well before the official target date of June 1, 2015. Some provinces, like Ontario and Alberta, have already proposed GHS regulatory amendments and are still in a consultation phase. Quebec is expected to publish its legislative piece soon. Meanwhile, other provinces still have to act on GHS, while Health Canada is making every possible effort to accelerate the GHS adoption process.



Unimin Corporation is a worldwide supplier of engineered mineral fillers to the paint and coatings industry. Our broad product range provides a matrix of physical, chemical and functional properties, and offers paint and coating manufacturers easier access to more formulating solutions. Whether your objective is brightness and color development, transparency or hiding power, chemical and UV stability green formulating or cost management, we can provide a solution.

## Brilliant Additions:

The Brilliant Additions portfolio represents our industry's largest selection of reinforcing silicate fillers and extender pigments. These products are proven performers in architectural paints, original equipment manufacture (OEM) and powder coatings, wood finishes, and industrial and marine coatings.

Unimin employs advanced production technologies and quality management systems to insure product consistency and uniformity. From mining to product delivery, our goal is to exceed responsible care guidelines while delivering products and services that help our customers satisfy their regulatory and sustainability objectives.

As reduction of organic solvents and volatile organic compounds becomes an increasingly important objective, the Brilliant Additions portfolio can be a valuable formulating tool. Our fillers and extenders add functional performance in waterborne, high solids and powder coatings to produce environmentally friendly coatings. In oil, alkyd and solvent-based systems these products provide the low viscosity properties needed to meet high solids and low VOC requirements.

## Key Products Include:

- MINEX® Unique and distinctive properties deliver premium performance in architectural, decorative, clear and powder coatings. Low oil absorption, excellent tint strength, and optimal refractive index protect the resin system from UV attack for improved binder stability and longer service life.
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- SILVER BOND® Adds abrasion resistance, structural reinforcement, non-conductive and non-reactive properties to a complete range of industrial, chemical and marine coatings.
- SNOBRITE® An excellent multi-use filler and extender to provide semi-reinforcing and chemical resistance properties in emulsion primers, maintenance coatings and building products.
- HIFILL® Cost effective hiding power with excellent brightness, gloss and color integrity in styrene acrylic and vinyl acrylic emulsion white and pastel colored paints.

## Customer Service:

Complementing the Brilliant Additions product portfolio is a global support system of technically proficient sales representatives, research personnel, and production and transportation professionals.

Technical teams from regionally established "Centers of Excellence" work in partnership with customers to focus research and development to fulfill both current and future performance and compliance expectations. By actively listening to our customers, and with continuous reinvestment in product development, our objective is to supply the paint and coatings industry with proven, performance oriented industrial minerals.

Contact Information:

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E-Mail: [ContactUs@brilliantadditions.com](mailto:ContactUs@brilliantadditions.com)

Website: [www.brilliantadditions.com](http://www.brilliantadditions.com)

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### **CPCA Reminds Health Canada of the Importance of Issuing GHS Guidance for the Labelling of Crossover Products**

Following requests from its members with respect to the labelling of Canadian consumer products to be used in both contexts (industrial versus residential/institutional), CPCA reminded Health Canada in early January of the importance of addressing this matter in future guidance documents. As a result, the Workplace Hazardous Materials Bureau of Health Canada's Consumer Product Safety Directorate plans to issue more definitive guidance information following the publication of the final Hazardous Products Regulations (HPR). According to information from the American Coatings Association, the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard exempts products that are labelled under the Federal Hazardous Substances Act (FHSA) from the GHS labelling requirements. A product requires an FHSA-compliant label if "under any reasonably foreseeable condition of purchase, storage, or use the article may be found in or around a dwelling." CPCA clarified the essential elements that must be taken into consideration with respect to this important aspect of the new GHS regulations as there are important issues related to a product that is sold in a retail location and used by a consumer. The impact on labelling requirements could be significant and must be well understood by industry.

### **CPCA Assists Environment Canada with Development of VOC Regulatory Compliance Questionnaire**

CPCA worked with Quorus, the consulting firm contracted by Environment Canada, to finalize the department's architectural and industrial maintenance VOC Regulatory Compliance Questionnaire. This is being used to obtain information on specific architectural coatings companies manufacturing or importing for sale or distribution in Canada. CPCA solicited input from all architectural paint manufacturer members in order to improve and minimize the reporting tasks associated with this survey. CPCA also helped Quorus update their distribution list of Canadian architectural manufacturers operating or selling into Canada. A

longer questionnaire was distributed to the 13 largest architectural paint companies in early January and a shorter survey form followed later to about 50 additional companies selling paint in Canada. More information about the questionnaire is available on the Members Only section of CPCA's website.

### **CPCA Obtains Important Details on CMP-3 Paint-related Substances and Polymers**

Environment Canada and Health Canada recently made information available to CPCA on paint-related substances and polymers that are likely to be subject to rapid screening as opposed to further assessment in phase 3 of the Chemicals Management Plan (CMP). It will provide early warnings and trigger discussions with industry with respect to suitable groupings, especially those that may be based on functional or sectoral uses. CPCA members can consult the CMP-3 lists of substances and polymers in CPCA's Members Only section to express concerns they may have and suggest grouping strategies for assessment of the chemicals in question.

### **CPCA Joins Manufacturing Coalition to Recommend Tax Initiative for Industry**

CPCA is a member of the Manufacturing Coalition, which has been a strong advocate and enthusiastic supporter of the federal government's Accelerated Capital Cost Allowance (ACCA) for investments in manufacturing and processing machinery and equipment (Class 43 assets). This initiative was extended for two-year periods in the 2009, 2011, and 2013 budgets. The current 50-per-cent straight-line depreciation rate for manufacturing and processing machinery and equipment is set to expire at the end of 2015. Manufacturers are concerned that the effective tax rates on manufacturing investments will significantly increase if this happens and the capital cost allowance returns to the 30-per-cent declining balance rate previously in effect will be lost. In December 2014, the Coalition recommended that the 50-per-cent straight-line depreciation rate for investments in Class 43 assets be made permanent. It also suggested that Canada's tax treatment of capital investments in manufacturing and processing machinery and equipment be at least as competitive as that in the United States. If the federal

government reverts to a declining balance basis for calculating the CCA for Class 43 assets, the rate of depreciation should not be allowed to fall below 45 per cent.

### **CPCA Analyzes Federal Government's Draft Screening Assessment for Cobalt-containing Compounds**

CPCA recently reviewed the latest Phase 2 publication of the Chemicals Management Plan (CMP) for cobalt compounds that appeared in the Canada Gazette, Part I of December 6, 2014. This is the first of several metal groupings risk assessment reports to be published. The DSAR proposes to conclude that cobalt and its compounds meet the criteria already established under CEPA (1999) but do not meet the criteria in other sections under CEPA. In the proposed risk management scope document, the federal government is considering measures to reduce anthropogenic release of cobalt to water mainly in five industrial sectors. A detailed CPCA bulletin was distributed to members about the results and it can be found on the association's Members Only section of its website.

### **Environment Canada Discloses List of Polymers to CPCA as Reported by the Paint and Coatings and Adhesive/Sealant Sectors**

Following a specific request made at CPCA's meeting of the Paint and Coatings and Working Group (PCWG) on November 13, 2014, Environment Canada released a list of polymers reported by the paints and coatings sector during the DSL Inventory Update 2. Adhesives and sealant polymers have also been included in the analysis. The list contains 203 polymers. In the spring of 2014, Environment Canada provided CPCA with very general information originating from a preliminary compilation of the DSL IU 2 data. Approximately 150 polymers were confirmed to be in commerce in the paint industry versus 210 polymers used in adhesives and sealants. The Excel database is available on the Members Only section of CPCA's website.

*Full details on these and other issues are contained on CPCA's website at [www.can-paint.com](http://www.can-paint.com) for members only.*

*be innovative*

## Manufacturer of Grinding, Dispersing, Mixing and Milling Equipment

NETZSCH is a global equipment manufacturer for the paint and coatings industry, with system capacities exceeding 10,000 gallons or 100,000 pounds per hour. The most common applications for NETZSCH equipment are paints, pigment slurries, lacquer and varnish. The company's strength lies in the bundling of process engineering know-how with a wide range of equipment — from discovery to commercialization and complete production lines, including:

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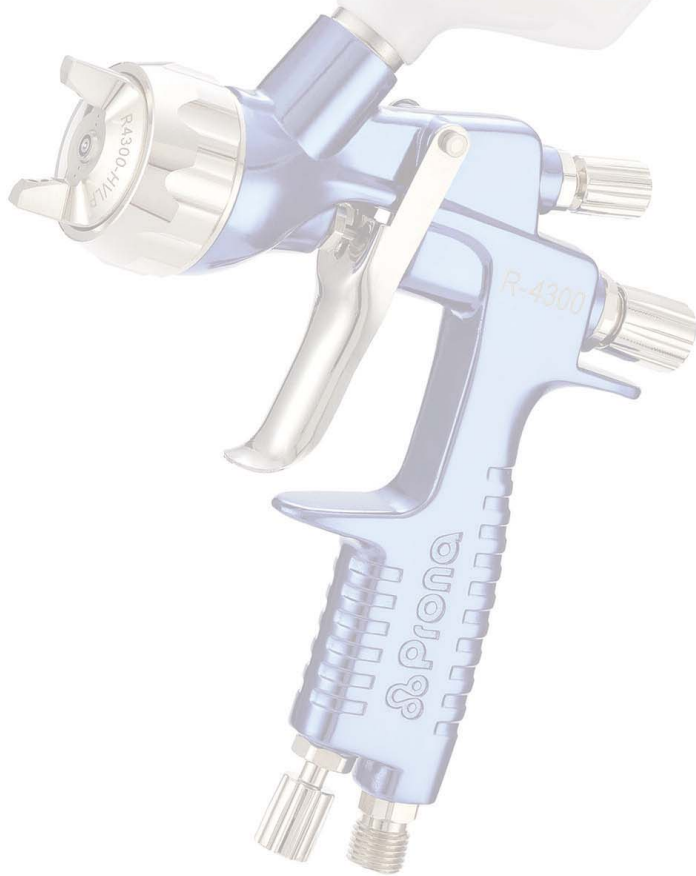
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# Newest Technologies in Manual Liquid Guns

Manufacturers of manual liquid spray guns are meeting the industry's needs with the newest technologies.



**Finishing Brands**, manufacturer of Binks industrial finishing equipment offers the Trophy Series, which brings a unique combination of a lightweight, ergonomic design with robust engineering for use with a wide variety of coatings in diverse applications. Trophy's engineering generates maximum atomization efficiency producing uniform pattern distribution and excellent transfer efficiency to deliver high finish quality.

Binks Trophy offers full size and touch up sizes; the spray technologies of HVLP, LVMP (Compliant), Conventional; Fluid Nozzles and Needle Set-ups - hardened stainless steel nozzles, tungsten carbide, plastic tip needles and feathering needles; available in pressure feed, gravity feed, and siphon feed.

Ergonomic Features include: lightweight and curved spray gun handle; oversized knobs and air cap ring for easy adjustments and maintenance; soft trigger pull for reduced stress and fatigue and smooth trigger pull for providing no-kick-back during spraying.

Engineering features include: air caps designed to produce uniform spray patterns and excellent transfer efficiency; large stainless steel fluid passages for compatibility with industrial coatings; long lasting brass inserts and seals; hardened stainless steel fluid nozzles; large air passages and anodized forged aluminum gun body for durability.

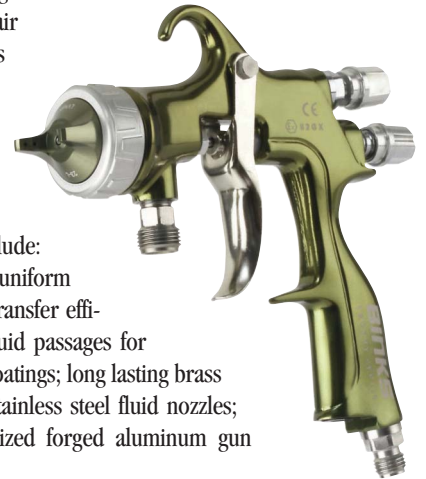
Finishing Brands, manufacturer of Binks industrial finishing equipment, has introduced two new air caps and additional configurations for the Binks Trophy spray gun series.

Now available through authorized Binks distributors, the 39-H (for HVLP) and 25-L (for LVMP) air caps are especially suited for the transportation and wood industries. These air caps provide a championship finish with basecoats, clearcoats, enamels, stains, toners, lacquers and other solvent-based or waterbourne materials and low to high solids.

Constructed from anodized aluminum, Binks 39-H Trophy air cap is designed for use with metal, wood, general industrial and plastic applications. The pattern is 11"-13" long with straight sides and rounded ends. The 39-H is typically used for the pressure spraying of thin to medium viscosity materials, which require high quality atomization under HVLP pressures.

Also produced with anodized aluminum, Binks 25-L Trophy air cap is

The Binks Trophy LVMP Pressure Gun, courtesy of Finishing Brands.



We are a World Leader in "Making Manufacturers More Competitive" with expertise in Finishing and Dispensing Systems.

If it's painted or sealed, we've probably done it before - by hand and/or with a robot. We supply turn-key manual, automatic, and robotic paint and dispense systems for automotive and general industrial markets

## Our Mission...

Experts in Finishing and Dispensing Solutions

## Our Vision...

Leader . . . of high value-added custom and standard solutions for controlled applications of fluids and powder on manufactured surfaces

## Innovation...

Commitment in research & development that is focused on creating a constant flow of innovative products that deliver fast ROI to our target customers

EXEL North America, Inc. - Manufacturer of Kremlin Rexson, SAMES, & Johnstone brand products. We offer Automatic and Manual Paint Spray Guns, Rotary Electrostatic Bell Atomizers, Fluid Dispense & Mixing Systems, Turnkey Automotive Robotic Systems, and Turnkey General Industrial Systems. We have a large Systems team that has 30+ years of experience applying every kind of material, to any kind of part you could think of.

We also have three Application Labs located in our corpo-

rate office in Plymouth, Michigan: General Industrial Paint, Automotive Paint, and a Sealant/Dispense Lab

EXEL North America has 100+ Distributors located throughout North America. Our Regional Sales Managers have 20+ years of experience. It's a great place to work and a great company to do business with.

Listed below are some very important links to our company and how we can help you excel in the finishing industry.

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<http://www.kremlinrexson-sames.com/en/usa/infos/24-automotive.html>

## Systems Team:

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Our customers say it best!

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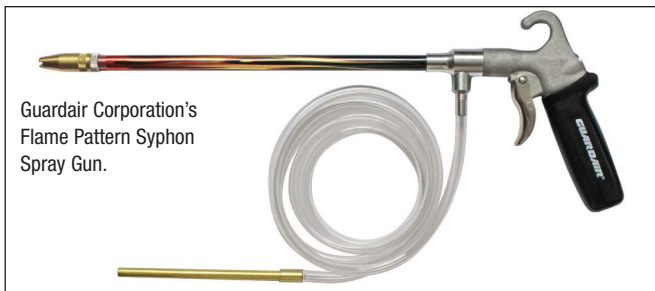


built for use with transportation, metal, wood, general industrial and plastic applications. The pattern is 11"-13" long with straight sides and rounded ends. This air cap is designed for pressure feed spraying of thin to heavy viscosity materials, which require finer quality atomization.

Binks Trophy Series brings a unique combination of a lightweight, ergonomic design with robust engineering for use with a wide variety of coatings in diverse applications. Trophy's engineering generates maximum atomization efficiency producing uniform pattern distribution and excellent transfer efficiency to deliver high finish quality.

Binks pioneered the development of liquid spray finishing technology over 100 years ago and continues to set the global standards for industrial finishing in both atomization and fluid handling.

**Guardair Corporation's** Flame Pattern Syphon Spray Gun, model number 79SG012F, features an original flame design on its 12" aluminum extension for hard-to-reach locations and uses compressed air to produce a high vacuum suction to deliver a powerful spray of up to 12+ gallons of liquid an hour. Designed for heavy-duty use, the versatile 79SG012F Syphon Gun's uses include, but are not limited to spraying of solvents, spraying oils, cleaners, disinfectants, insecticides, degreasers, mold release agents and coatings. Adjustable nozzle tip controls flow and spray pattern while pistol-grip style handle provides maximum user comfort. Features include: 12" aluminum extension with flame design; adjustable nozzle tip to control volume and spray pattern; separate liquid and air controls to provide user with optimum flexibility; slip on grip provides thermal protection and extra comfort; six foot syphon hose with sinker; lightweight and fully portable; durable cast aluminum body; OSHA Compliant; made in USA; 1/4" FNPT inlet.



Founded more than 60 years ago, Guardair Corporation is a world-class manufacturer of safety air guns, syphon spray guns, pneumatic vacuums, and accessories. Guardair products are designed to maximize power, performance, and operator comfort, while meeting all applicable OSHA Standards.

**Nordson Corporation's** line of Trilogy non-electrostatic manual spray guns encompasses air assist airless, air spray and low volume/low pressure technologies. Incorporating the latest in design technology, Trilogy non-electrostatic guns provide excellent spray quality, the durability to withstand harsh manufacturing environments and ease of handling and maintenance. Designed for complete application versatility, they are also available in manual and automatic configurations, along with gravity-feed and pressure-feed versions. With more than 14 non-electrostatic gun options available, complementing Nordson's existing Trilogy electrostatic



The Trilogy Guns from Nordson Corp.

line, the company can provide manufacturers with the widest range of spraying solutions for liquid applications.

**Prona**, a brand dedicated in production of spray gun for three decades and popular in Italy, Germany and Asia, is now newly launching a full line of products in North America. The R-4300 is a new series for Prona. This line is specially designed to produce the best surface finishing results for the automotive industry. The Prona R-4300 has all stainless steel passageways, so are the needles and nozzles within it, aiming for excellent performance with a long life span. This compliant gun has great atomization and stable performance with its state-of-the-art new air cap to improve its performance and increase transfer efficiency while saving paint. This gun's ergonomic design fits perfectly with hand to reduce tiredness from long period of use.

R-4300 spray gun, a new series for Prona Tools.



**Eurotech Spray Products Ltd.** Introduces the SATAjet 5000 B.

The all new premium SATAjet 5000 B spray gun, makes painting easier than ever. Extremely versatile, especially with application distance and inlet pressure, this new spray gun sets new industry standards. Painters now have the freedom to custom set the pressure and adjust their distance as required by the paint brand, to accommodate various climates and different work methods – all to achieve perfect finishes, in any industry. So whether it be in car refinish, commercial transportation, coating furniture, marine yachts or high quality industrial components, and regardless of the

# Howard Marten Fluid Technologies

Howard Marten Fluid Technologies Inc. is the preferred partner of companies across Canada providing our customers with products, services and solutions for your fluid handling, lubrication, coatings, spraying, fluid transfer and filtering requirements. Through our Applied Fluids and Coatings (AFC) and Industrial Lubrication and Process (ILP) divisions Howard Marten Fluid Technologies has your needs covered.

Our experienced sales, customer service and engineering teams from our strategically located branches work closely with our customers to understand their unique requirements. With branches in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, and Quebec, Howard Marten Fluid Technologies has grown to become your local Canadian distributor.

Since 1950 Howard Marten Fluid Technologies has been providing high quality products by partnering with great companies like Graco, Nordson, DV Systems, SMC, Bullard, Powerblanket, Veledon Andreae, Goff's Curtain Walls, IST Canblast, GFS, DeVilbiss and Binks products. These relationships enable us to recommend and provide the best components that will meet and exceed customers' requirements.

Fully equipped service vehicles and extensive service facilities across Canada allow Howard Marten Fluid Technologies to provide unparalleled after sales support to our customers. The installation, troubleshooting and repair of spray and coating systems and dispensing equipment is our specialty.

Our branches are authorized service centers for:

- Graco Protective Coatings / Foam Equipment
- Graco Industrial Products
- Nordson Powder, Liquid & Hotmelt Equipment

Each branch carries stock of common replacement parts and components for their local markets, enabling minimal downtime for our customers, and maximum performance from your coatings, spraying, and filtering systems.

To help our customers keep their spray and powder coating systems working properly, Howard Marten Fluid Technologies has developed the Assure family of preventative maintenance programs. Spray-Assure and Powder-Assure maintenance service programs can help identify possible upgrades or cost saving equipment changes to boost production and keep maintenance costs low, while ensuring minimal downtime with proper scheduled maintenance and the up-to-date equipment information that is needed to ensure our customer's systems provide the maximum return on their investment for years to come.

Howard Marten Fluid Technologies is much more than a distributor with parts and service capabilities. Our Integrated System Solutions (ISS) group provides custom engineered systems for customer's unique coatings, spraying, and filtering application requirements. Our experienced applications engineering teams work closely with customers to understand the requirements of each unique project. This allows us to utilize and integrate standard components to create outstanding solutions for our customer's requirements.

Offering a complete solution to our customer's requirements is what has set Howard Marten Fluid Technologies apart from the competition since 1950. Contact your local branch to discuss how we can help you with your unique requirement today.

[www.howardmarten.ca](http://www.howardmarten.ca)



## HOWARD MARTEN FLUID TECHNOLOGIES INC.

**Your Preferred Partner in applied fluid and coating solutions, and your local source for Nordson powder coating systems!**

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Encore HD

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*To keep your equipment running properly for years to come, ask your local branch about our Powder Assure maintenance programs and on-site operator and maintenance training!*

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The SATAjet 5000 B courtesy of Eurotech Spray Products.

paint system being used, the application results will consistently be high end.

Designed by the experts at the Porsche Design Studio who, together with the specialists at SATA, the SATAjet 5000 B is pure functionality in a clean aesthetic form. The gun handle of the digital version is identical in size to the standard model. Due to the optimized shape of the gun handle,

the spray gun fits perfectly in the palm of any hand making this gun the perfect fit for every painter.

Excellent ergonomics has been built into every aspect of the SATAjet 5000 B. Now, not only development of the gun handle is considered, but also the design of the control elements, the spray fan control, material flow control, and the air micrometer are each improved for faster more efficient functionality. Though the control elements are more robust, they are lightweight, allowing easy adjustment, for a perfect combination of ease of application and durability.

The WALTHER PILOT Premium HVLPPPlus.



The **WALTHER PILOT** Premium HVLPPPlus is the company's most versatile and fully featured spray gun. In direct response to consumer demand, WALTHER PILOT engineered a spray gun that delivers the best of all worlds. The HVLPPPlus technology delivers material savings alongside dramatically improved atomization characteristics over standard HVLV models. In addition, transfer efficiencies of up to 88 per cent have been documented by an independent testing facility. With the industry standard for HVLV being 65 per cent, it is easy to see that the Pilot Premium is in the upper echelon when it comes to HVLV material savings and spray performance.

Manual Liquid Paint Spray Gun manufacturers meet the needs of the marketplace by listening to customers' concerns and providing solutions with the newest technology. ■

*Editor's Note: Manufacturers contributing to this article may be reached at:* • [www.binks.com](http://www.binks.com) • [www.finishingbrands.com](http://www.finishingbrands.com) • [www.guardaircorp.com](http://www.guardaircorp.com) • [www.nordson.com](http://www.nordson.com) • [www.prona.com.cn](http://www.prona.com.cn) • [www.satacanada.com](http://www.satacanada.com) • [www.waltherpilotna.com](http://www.waltherpilotna.com)

## NEW PRODUCTS AND TECHNOLOGIES

### Ransburg Introduces "Platinum Performance" In Rma 500 Series Rotary Atomizers

Ransburg, a global leader in finishing technology for industrial applications, introduces a new line of standard setting RMA 500 Series Rotary Atomizers. This new line of applicators provides enhanced reliability, reduced maintenance and high quality finishes.

The applicators offer many new features including longer life titanium bell cups, fast color changes, quick disconnect and true dual purge technology."

New Ransburg 500 Series Platinum Performance Features:

- Robust turbine design
- Flexibility under dynamic loads with dissipating bearing mount design
- Time saving field repair-ability: turbines can be field stripped, cleaned and reassembled for rapid return to production

- Durable titanium bell cups
- New design for quick cleaning and fast color changes.
- Choice of diameters for flexibility with multiple coatings and part configurations Ransburg rotary atomizers
- Quick disconnect: change atomizer in less than two minutes for off-line maintenance
- Peak performance: pair with Ransburg MicroPak 2e Controller

[www.ransburg.com](http://www.ransburg.com)



*continued on page 78*



WALTHER PILOT North America is the North American agent for WALTHER Spritz-und Lackiersysteme GMBH. WALTHER PILOT is well respected for its top quality, precision equipment in the spray finishing, adhesive application, and dot marking industries. We offer the following product lines:

## Automatic Spray Gun Systems

Versatility, durability, and precision are the cornerstones of our automatic guns. We feature standard automatic guns as well as manifold mount guns and guns that are extremely compact in size (some that are under 2 inches in width). We can supply everything from a single gun to an entire spray system with hosing, tanks, pumps, mounts and controls.

## Non-Contact Spray Marking Systems

Featuring some of the most precise and accurate spray guns on the market, our spray marking systems really stand out. They can be used in many different industries, in applications such as:

- Marking weld seams and sheet metal
- Marking blow holes during glass production
- Line marking for manufacturing
- Paint marking to aid in assembly
- Automated defect marking

## Manual Spray Gun Systems

A large selection of manual guns ranging from Conventional to HVLP to Medium Pressure to "HVLP Plus" (conventional atomization characteristics & up to 88% transfer efficiency). Complete your manual spray gun system by using one of our material pressure tanks (sizes ranging from 1 liter to 500+ liters) and hose kits.

## Single & Dual Component Adhesive Spray Guns

We carry spray guns for solvent-based, water-based, and two-component adhesives. They feature special rotary nozzles that are excellent for solvent based and high viscosity adhesives. We recommend spray guns matched to your particular adhesive in order to provide optimum atomization and performance.

## Abrasive Resistant Spray Guns

Our toughest spray guns for your most abrasive materials. Available in manual or automatic, they feature a special hardened needle/nozzle and a removable grease packing for extended longevity and optimum performance with aggressive materials. They are perfect for ceramics, enamels, and military coatings.

## Mold Release Spray Systems

Our mold release spray guns are optimized for maximum performance when spraying low-viscosity mold release materials. Manual and automatic mold release spray systems are available.

## Low Pressure Nozzle Extensions

We offer low pressure nozzle extensions for 45o, 90o, and even 360o spraying patterns. Extensions are available for most of our spray guns and range in size from 200 mm to 1000 mm. We can make extensions that are as small as 8mm in diameter. Custom sizes and lengths are also available.

## Material Supply

We feature a full range of pressure tanks, mixing tanks, hoses, and pumps. Our modular pressure tanks are fully ported and ready for just about any accessory

you may need. They feature bolt-on agitators, casters, level sensors, regulators, top feed kits, bottom feed kits, and more.

If you are in the spray finishing business, whether it is paint, adhesive or marking, let the experts at WALTHER PILOT North America help you select the right equipment to meet your needs.

Give us a call at 1-586-598-0347 or e-mail us at [sales@waltherpilotna.com](mailto:sales@waltherpilotna.com) for equipment and technical support.  
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## Spray Guns | Material Supply | Extensions | Accessories

<i>Manual</i>	<i>Pressure Tanks</i>	<i>Straight</i>	<i>Hoses</i>
<i>Automatic</i>	<i>Mixing Tanks</i>	<i>45°</i>	<i>Fittings</i>
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## SATA

With more than a hundred years of experience, SATA has developed from a small precision equipment firm, to a world class manufacturer of high end spray equipment you know today. The company, originally called Sanitaria, was founded in 1907 with an emphasis in the medical industry, however as political and economic changes took place within Germany the organization adapted to secure new markets such as electric hand dryers and high quality razors. Sanitaria, focused on growth, was willing to look beyond medical technology to anything that promised business volume. From the initial onset of Sanitaria, quality, and precision were the main driving factors behind the company's philosophy.

In the early 1920s, a Sanitaria board member met Christian Lechler, the owner of a prominent paint manufacturer, who indicated he was looking for suitable tool for their newly developed sprayable paints. Sanitaria committed to developing and producing a solution for the paint company, and by 1925 the Lechler spray gun went into production and is marked as SATA's first paint spray gun. So by 1926 Sanitaria was able register their fist patent and by 1931 the first range of spray guns were made available to a public market. The shortage of raw materials during World War II gave rise to a series of new synthetic paints and Sanitaria again developed new equipment to apply these new paints, and so, as paint types developed during the next decade Sanitaria focused on perfecting the equipment to remain consistence within the industry.

1954 marked the next important milestone with the introduction of the SATA GR. This spray gun provided a wider fan pattern which allowed larger objects to be coated quicker and more effectively. The economic growth of post-war years and the upturn in the production of consumer goods, housing, and motor vehicles brought about an increased demand for paint spray equipment, along with an unprecedented upturn in quality requirements. This again led to new paint technologies that could be perfectly applied with newly developed paint spray guns.

The 1980s is marked as one of SATA's revolutionary decades, with the introduction of several technological advances, and a re-branding that launched SATA into the 21st century. In 1981 Santaria officially changed its name to SATA and then promptly introduced the now legendary SATAjet B making the company an industry leader of spray equipment. By the mid 80's, the first SATAminijet, designed to excel in small or difficult to reach areas, was introduced to the product line-up, gaining SATA a further reach and a broader market. So by 1990 SATA introduced the High Volume Low Pressure (HVLP) and the Reduced Pressure (RP) technologies which gave painters more options on atomization, while correlating with a growing environmental concern.

Today, SATA builds what some of the finest paint spray equipment available. For 90 years SATA has been developing paint spray guns that are leading the industry on constantly changing and developing paint technologies. SATA works closely with major paint companies around the globe to produce paint spray equipment to meet the present and future needs of painters. Their products have been carefully researched and developed in close co-operation with these paint companies, so that the solution to today's problems and tomorrow's challenges are currently being met by SATA.

Today, SATA produces over 3000 parts and products and employs over 250 staff. With a continued emphasis in research and development, SATA is a world leader in the manufacturing of spray paint equipment. SATA maintains top class quality standards, state of the art production facilities, continuous innovation, and close cooperation the paint industry. Currently SATA products are sold in over 100 countries, including Canada.

## Eurotech Spray Products Ltd.

President of Eurotech Spray Products Ltd., Hans Lengsfeld came to Alberta from Germany in 1958 where he adapted his formal training as a black smith to the automotive industry. He started small but with a focus on expansion he kept a keen eye to look for opportunities to expand his business and provided paint sales on the side. In 1983 he returned to Germany and visited the SATA factory, impressed with the production process and quality controls, he quickly decided to become a Canadian importer of SATA spray equipment. At this time the SATA trade name was relatively unknown in Canada, so Lengsfeld began contacting sales agencies in different provinces to start distributing SATA equipment. At the same time many paint companies were contacted in order to market SATA spray equipment in the training facilities, and train all instructors with SATA products.

Distribution progressed at a rapid pace, so that in 1991 Eurotech Spray products Ltd. was incorporated and from 1994 it became the exclusive importer and distributor for SATA spray equipment in Canada.

In 2002 Eurotech moved away from a regionalized sales force in favour of a national unified team. To accomplish this, they sought out the services of Caruk & Associates Ltd., an agency well known across Canada as sales representation in the PBE aftermarket. They were appointed as the exclusive sales agency with the assurance to provide uniform and high quality service and sales support to all existing and potential customers throughout Canada. Today, Eurotech and Caruk work together with a multitude of warehouses and distribution centres across Canada to ensure the end-users receive the very best equipment with the best support available.

# SATAjet® 5000 B



German Engineering

## As versatile as you

Whatever you're painting, The New high performance SATAjet 5000 B spray gun will get the job done with flawless results.

Regardless of the object, climate, inlet pressure or application distance – the SATAjet® 5000 B sets new standards in terms of versatility & durability.

Take a fresh look at quality.

[www.sata.com/5000B](http://www.sata.com/5000B)



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[sales@satacanada.com](mailto:sales@satacanada.com)



# The More Things Change...

**Having a smooth** clean surface is key to successful industrial finishing. And it was 60 years ago too. In surface preparation there is nothing more important than stripping...choosing the right method that won't damage the substrate and that will give you the surface you need to best apply the coatings.

In researching this Stripping story CFCM ran across an article entitled "Modern Industrial Paint Strippers" for an August 1954 issue of Plating Magazine. And one interesting fact...stripping is stripping. It hasn't changed much.

The 60 year old article began: "Today, as never before in the history of American industry, industrial paint stripping has become a major operation in the manufacturing and job finishing plants. The need for economy and speed has necessitated the replacement of the older, slower, and more costly mechanical methods, such as sandblasting, scraping, buffing and burning off, in favour of the more economical, efficient and more rapid chemical paint strippers."

The article mentioned acid, alkali strippers and thinners that act as solvents for the paint film and Cold Strippers and Hot Emulsion Strippers that wrinkle and lift the coating from the metals.

The five types of stripping material discussed were:

1. Alkaline Strippers that attack the pigment and disintegrate the organic resin in the paint or coating
2. Acid Strippers using anhydrous concentrated sulfuric acid that causes oxidation or esterification of the resin, solvation of the pigment and attack of the acids on the base metal breaking the bond between the coating and the substrate.
3. Thinners...lacquer thinners although not general considered paint strippers, are the cheapest form of organic paint removal
4. Cold Strippers that are expensive, but popular because they are quick, with a high flash point, low flammability, minimum corrosion and work is left clean and ready for refinishing. "Cold strippers are

generally a blend of chlorinated solvents, methylene chloride or ethylene dichloride, methanol, ammonia or acetic or formic acid, and any number of additional solvents that may be needed for any particular coating," says the article.

5. Hot solvent emulsion strippers – phenol or phenolic derivatives and a suitable emulsifier – advantageous in the stripping of alkyd, melamine, phenolic, epoxy and urea type coatings. Good for large production stripping where speed and efficiency are vital to make the stripping operation economically feasible.

Then the 60-year-old article talked about stripping coatings from plastics as being a "new industrial stripping problem" due to increased use of moulded plastic products. It described the stripping of plastics as expensive and slow and that it requires more research.

The 1954 article concluded: "Each one of these five types of stripping material mentioned have many advantages and disadvantages, but there is always one job for which a particular type is more proficient. Only too often when a material does a satisfactory job on one type of coating, it tried on others with varying degrees of success. Stripping materials are like analytical reagents in that they are specific in operation. A radical change in this type of coating changes the effectiveness of the stripper. One must remember that to this date there is no one stripper for all types of coatings. Not enough emphasis can be put on the fact that there is no universal print stripper."

Now, in 2015 Stripping methods include a long list of:

- Acid
- Alkali
- Burn-Off
- Flame
- Salt Bath
- Sand Bath
- Solvent
- Abrasive Blasting
- Tumbling

And each method depends on what part or surface that needs to be stripped.

Essentra Components is a global business that manufactures and distributes millions of small but essential components. In January 2014 Essentra Components America was formed when three companies; Alliance, Reid Supply and Richco Inc. joined together.

Essentra, an abstract name, was specifically chosen to capture what our business manufactures and supplies. We provide components, which often play a critical enabling role in the products of customers. Our international network extends to 29 countries and includes 42 principal manufacturing facilities, 64 sales and distribution operations and 5 research /development centers.

Under the Alliance brand, Essentra Components Americas has been manufacturing and distributing high-temperature masking products for over 40 years. We stock more than 1,300 masking parts at locations in Toronto, Ontario and Edmonton, Alberta as well as regional distribution sites in the United States, Mexico, and Brazil.

Essentra Components Americas distribution centers have over one billion parts in stock and offer fast delivery via same day shipping. We also suggest customers "try before they buy" with free samples on most of our standard products.

### Essentra High Temperature Masking

Our complete high temperature product range includes masking caps and plugs, tubing, tapes, discs, and metal hooks. Multiple material options mean we have the exact product to fit your budget and product requirements.

Straight masking caps provide excellent sealing for studs and tube ends and can also be used as a plug when inverted. Plugs with first thread protection have an ergonomically-friendly pull tab and provide masking to the first thread of standard female threads. Masking caps and plugs are available in premium silicone (600°F), cost-effective EPDM (475°F), or recyclable paper (400°F).

We manufacture high temperature soft PVC vinyl caps and plugs (425°F) in over 375 different sizes. Vinyl pull caps are an economical solution for one-time uses and are also available with an ergonomic finger pull tab for easy removal.

Masking tapes and discs are available in several materials to withstand temperatures from 325°F to 500°F. Essentra green polyester tapes and discs are the industry standard for excellent heat and solvent resistance with no shrinkage and are available in width/diameter up to 6".

Essentra silicone tubing (600°F) is an excellent solution when parts are too long to be fully covered by standard caps. This versatile tubing is flexible to fit several size ranges, conforms to irregularities, masks through holes, and can be cut to length or cut long for an easy pull tab.

Cold drawn spring steel hooks come in 6 styles including 3 styles of square bar stock hooks. Our range of hooks holds up to 220 lbs. with designs to accommodate parts with varying thicknesses, maximum load bearing, and repeated usage.

For lower temperature curing or shipping protection Essentra Components supplies thousands of standard caps and plugs in nylon, polypropylene, and polyethylene. Shop all Essentra products online or request a free Master Catalog featuring over 1,000 pages of protection and finishing components.

Visit [www.essentracomponents.com](http://www.essentracomponents.com) to place an order, request free samples or literature, and download free CAD drawings.

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## Electronics

As the electronics industry continues to develop and the drive for miniaturization increases, the demands put onto modern Printed Circuit Boards and IC Substrates increase dramatically. In addition to this, the need for more environmentally sensitive products and processes further increases the requirements on modern manufacturing technologies. Historically, surface modification or treatment processes have been regarded as the low technology end of the PCB wedge, however as the industry begins to demand more performance, the function of surface treatment has become paramount in board manufacturing. No longer will the simple generic chemistries guarantee high manufacturing yields with high technology performance.

The finer lines and spaces now common in the industry are putting more demands on existing photoresist stripping technology. Generic chemistry stripping solutions are reported to negatively affect the PCB production process with problems such as high metal corrosion rates, which can lead to tin transfer and etch retardation.

Manufacturers provide solutions with new technologies.

## Metal

With the continued use of full pattern plating process, the removal of the tin masks remains essential, even in HDI applications. The main goal for manufacturers is to completely remove the tin without excessive damage to the underlying copper track and a full and clean removal of the intermetallic layer.

Additionally advanced Metal Stripping products are needed for the mSAP/SAP manufacturing techniques that require a special kind of palladium stripping product.

## Paint

Nowadays stripping methods need to be sustainable. Paint stripping products need to efficiently remove E-coats, powder coats, and wet paints from multiple metals without damaging the substrate. Manufacturers are coming up with innovative processes.

In contrast to pyrolysis (burn-off) and media blasting paint stripping techniques, these innovative processes reduce worker exposure to harmful particles such as ash or sand and minimize the risk of accidental burning.

Paint strippers are designed to remove paint and other organic finishes from the substrates. There are different reasons for implementing a stripping process. In order to ensure a complete electrical contact between components and their hooks, hangers, racks and carriers during a coating process such as electro-, electrostatic spray- and powder coating, residual coating materials must be eliminated. Increasing raw materials costs have led to the fact, that rejected manufactured parts are rather stripped than scrapped because of poor finish quality. And stripping is also used to precede maintenance refinishing for some products. For example, old coating is removed from aircraft before repainting.

Whether it be the aerospace market, the appliance industry or any other sector, manufacturers of stripping processes offer chemical paint stripper that removes residues from steel, galvanized steel or aluminum substrates. Depending on the regulatory and technical environment as well as health, safety and environmental policies, there is a variety of processes such as non-methylene chloride, N-Methyl-2-Pyrrolidone-free, alkaline, thickened, or solvent-based paint stripper technologies. ■

## calendar of **INDUSTRY EVENTS**

**March 10-11, 2015:** uv.eb WEST 2015, Crowne Plaza Hotel - Redondo Beach, CA, [www.radtech.org](http://www.radtech.org)

**March 15-19, 2015:** 2015 Corrosion Conference, Kay Bailey Hutchison Convention Center, Dallas, TX, [www.nacecorrosion.org](http://www.nacecorrosion.org)

**May 5-7, 2015:** Powder Coating Show, Louisville, KY, [www.powdercoatingshow.com](http://www.powdercoatingshow.com)

**May 18-21 2015:** Eastern Coatings Show, Taj Mahal Hotel and Resort, Atlantic City, NJ, [www.easterncoatingsshow.com](http://www.easterncoatingsshow.com)

**May 27-29, 2015:** CPCA Annual Conference, Niagara on the Lake, ON, [www.cdnpaint.org](http://www.cdnpaint.org)

**June 8-11, 2015:** SUR/FIN 2015, Stephens Convention Center, Rosemont, IL, [www.NASFsurfin.com](http://www.NASFsurfin.com)

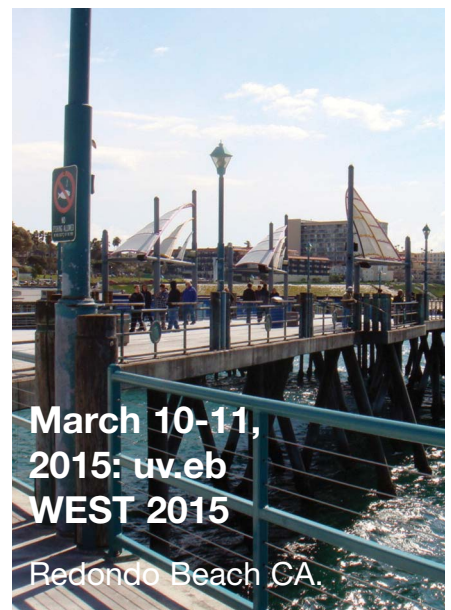
**June 15-17, 2015:** Western Manufacturing Technology Show, Edmonton EXPO Centre, Northlands, Edmonton, AB, [www.wmts.ca](http://www.wmts.ca)

**October 5-7, 2015:** 2015 Polyurethanes Technical Conference, Orlando, FL, [www.americanchemistry.com](http://www.americanchemistry.com)

**October 7-8, 2015:** Canada Woodworking West, Abbotsford BC, [www.masterpromotions.ca](http://www.masterpromotions.ca)

**November 5-7, 2015:** WMS Woodworking Machinery & Supply Expo, International Centre Toronto ON, [www.WoodworkingExpo.ca](http://www.WoodworkingExpo.ca)

**November 9-12, 2015:** FABTECH 2015 McCormack Place, Chicago, IL, [www.fabtechexpo.com](http://www.fabtechexpo.com)



**March 10-11, 2015: uv.eb WEST 2015**  
Redondo Beach CA.

Dinamec Systems Fluid Clean fluidized sand bed thoroughly removes organic substances such as paint, powder coating, plastic, polyesters, and rubber from most all metal alloys. We ensure a clean and healthy stripping alternative to more traditional methods. Our fluidized sand bed offers many benefits including fast cleaning time, optimal results, no abrasive damage to tools or parts, and a high operating capacity with low operating costs.

Modern coatings and plastics bond very strongly to surfaces and traditional cleaning and stripping methods such as burning and chemical removal are fast becoming obsolete. They are not only insufficient for thorough removal of modern organic materials but they also result in unhealthy environments, costly labor, damaged or deformed parts and increased air and water pollution.

Dinamec Systems' thermal cleaning installations are total solutions for a wide range of organics-to-metal bonding issues. They offer a reliable, clean and safe solution for both machine operators and the environment. Our many years of experience in fluidized bed manufacture helps us engineer and deliver the right product for your stripping application. Safety and machine reliability are the results of constant improvement to our systems over the years.

That's why clean takes on a much broader meaning with Dinamec Systems' fluidized bed cleaning installations. They easily remove all organic material from metal parts and have more to offer than traditional technologies. Dinamec Systems provides sales, engineering, and manufacturing and after sales service for the Dinamec Systems Fluid Clean fluidized beds used for cleaning metal parts and decorating and heat treatment of aluminum castings. Our decorating technology offers a unique opportunity to combine the decorating function with subsequent heat treatment. We offer a full range of environmen-

tally-friendly applications for the removal of organic substances from metal parts and tools. With more than 700 installations worldwide we have the experience to provide efficient, reliable and cost effective solutions to virtually every cleaning challenge. With a client list that includes Chrysler, Ford, General Motors, Toyota, Honda, Nissan, GE Plastics, DuPont, Master Lock, Black and Decker, Caterpillar, Bayer, Mold Masters, Nypro, Husky, Ampacet, Vibracoustic, Cooper Industries, Moen, Delta Faucets, Cardone Industries, Knoll, Denso, BASF, Tupperware and countless others: the Dinamec Systems Fluid Clean reigns supreme as the quality leader in our industry.

At Dinamec Systems we provide first class service for our fluidized sand beds. Our parts department maintains a wide selection of spare parts and our service technicians are available for both phone and email assistance as well as on-site service calls.

*"We've needed very little service, and when we did, Dinamec Systems always responded quickly. I give them an 'A' on service."*

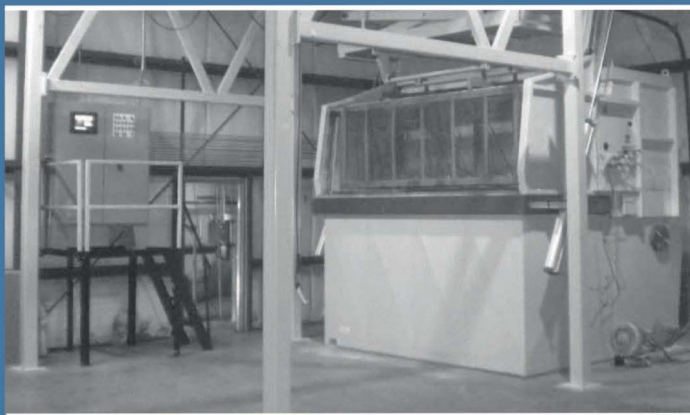
*Donnie Glueck, Rubbermaid*



For more information contact Dinamec Systems, 4285 McEver Industrial Dr. NW, Acworth, GA 30101. Tel: 770-421-1181 Fax: 770-421-8611, [www.dinamecsystems.com](http://www.dinamecsystems.com)



# STRIPPING PAINT AND POWDER?



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Fluidized sand bed technology effectively cleans metal tooling of paint, powder coating, plastic, grease and rubber without deformation or damage all with no pre-treatment needed. For both small and large applications, this single-unit process is environmentally safe and easy-to-operate. Fluidized sand bed cleaning provides fast, high throughput with low maintenance and operating cost.

30-60 Minute Cleaning Time — Low Operating Cost — Minimal Labor Needed

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[info@dinamecsystems.com](mailto:info@dinamecsystems.com)

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# Choosing an **Ultraviolet** Curing System

**The Light Hammer 10 MARK II, Heraeus**  
Noblelight Fusion UV Inc.

**ACCESSIBLE**  
All electrical and communication connections made at the rear panel. Software upgrades made directly through the USB port.

**USB PORT**  
Designed for easy configuration changes and efficient software upgrades.

**99%**  
**POWER FACTOR CORRECTION (PFC)**  
 ☑ Realized 99% at full load  
 ☑ Simplified wiring for balanced legs for current  
 ☑ Electrical configuration is eliminated

**SIMPLE CHANGEOVER**  
LH10 MARK II is a drop-in replacement – form, fit, and function – but with unprecedented advances in technology.

**100% FLEXIBLE**  
**MODULAR DESIGN**  
 ☑ Reduced mean time to repair  
 ☑ Easily expandable  
 ☑ Memory capability

**30%**  
**30% LIGHTER WITH A SIMILAR FOOTPRINT**  
Similar chassis size for ease of installation.

**BACKWARD COMPATIBLE**  
To all LH10 irradiators, cables and DeviceNet™ controls.

**MULTIPLE MODES OF OPERATION**  
 ☑ Remote operation via DeviceNet™, Profibus™, and EtherNet/IP™  
 ☑ Dry Contact Master/Slave operation  
 ☑ Local front panel operation

**COMPATIBLE WITH EXISTING INSTALLATIONS**  
The LH10 MARK II may be purchased separately for retrofitting onto existing installations. The unit can then be configured to operate in legacy mode with the same lamp output performance.

**UNIVERSAL INPUT VOLTAGE RANGES**  
Each power supply can operate from 200 V – 480 V, 50/60 Hz (self-adjusting voltage). “Plug & Play.”

200 V  
480 V

**Curing with** Ultraviolet (UV) light is like baking a pie. The pie doesn't care whether it's in a gas or an electric oven or who makes that oven. The temperature and the baking time just needs to be right.

For UV materials, exposure to the right wavelength light, at the right intensity, for a sufficient amount of time will ensure proper cure. It doesn't matter whether that light comes from an arc lamp, a microwave unit or a UV LED. It is the properties of the light that matter when curing a UV ink, coating or adhesive.

In Industrial Finishing it is important to choose a UV curing system that adequately meets a Finisher's needs.

Deciding on a UV light source is like buying an oven for a kitchen...several may suit, but the best choice depends on a combination of factors such as size, features, quality, reliability and, of course, budget.

Up until fairly recently (when UV LEDs became commercially available), nearly all industrial UV light sources relied on the same basic principle to generate UV. When a small amount of mercury is energized, either by zapping it with a high-voltage electric current, or by placing it into a powerful microwave cavity, (much like a microwave

oven), electrons in the mercury atoms are excited to a higher energy state. When they return to their ground state, they give off a burst of energy, in the form of UV light (as well as some visible light and heat). This is the same principle that turns the flames in a fireplace green and violet when you add crystalline fireplace salts that rely on copper salts that produce light in the visible spectrum.

## Lamps

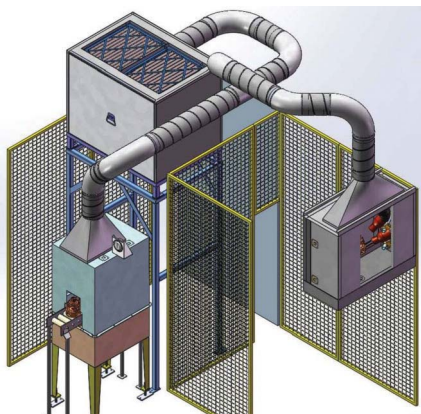
Mercury lamps have been used for industrial UV curing for decades, but now there is LED. These UV sources are made by arranging a large number of tiny semiconductor chips into large matrices. When voltage is applied to each LED chip, a burst of UV light is emitted through a process known as electroluminescence. Unlike mercury lamps, the spectra of an LED is very specific and narrow. LEDs are available at various wavelengths, (determined by the chemical composition of the chips), from 365 nm to around 405 nm.

The arc, or electrode lamp, is the most common of all UV light sources. It is popular because of its simplicity and versatility. Arc lamps are available in a wide



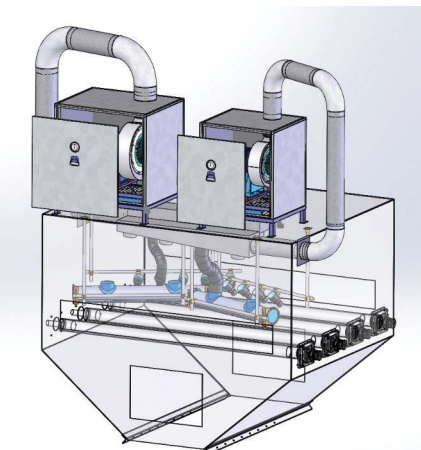
## Air Force 1 Welcomes the Opportunity to Share our Company's Knowledge and Experience with You

For over 25 years, Air Force 1 Blow Off Systems Inc have been designing and building energy saving, low maintenance direct drive, blower generated (no compressed air) blow-off systems for use in all of the major automotive assembly plants, systems design houses and Tier 1 related suppliers throughout Canada, USA, Mexico, South America and Europe. Our experienced, qualified personnel build and assemble all components and systems in our 20,000 sq. ft. facility in Waterloo, Ont.



**Liquid and Cool Down Applications**

Our AF1 low maintenance, direct drive blowers (no belts, bearings/ bushings or compressed air) are designed solely for use within industrial manufacturing facilities for the purpose of drying, stripping and containing excess machining oils and fluids, shot blast removal, chips and filings, rust inhibitor film, parts cooling, protecting product sensing devices and conveyors.

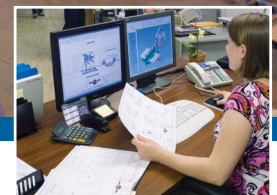


**Shot Blow Off Applications**

- **AF1 Blowers** direct drive, powder or epoxy coated, non-corrosive, non-sparking blowers ranging from 200-6000 cfm.
- **Air Knives** extruded anodized aluminum and stainless steel in 2", 4", and 6" diameters, custom sized in lengths up to 120 inches.
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- **Steel Infrastructure**
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## INNOVATIVE SYSTEMS SOLUTIONS



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Air Force 1 Blow Off Systems Inc. was established in 1991 for the sole purpose of designing and manufacturing Blower Generated Blow Off Systems. Our systems are for use within industrial manufacturing and assembling related applications as well as for the food and beverage and packaging industries. At Air Force 1, we manufacture our own line of non-sparking, corrosion resistant Blowers which we have designed and sized specifically for use with our own extensive range of both stainless steel & hard anodized Air Knives and/or armour coated or anodized Air Cannons (patented).

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range of product types and styles. Lamps can be manufactured from just a few inches to several feet in length, and lamps as long as 2 meters are being used for wide products such as wood panels.

The arc lamp itself is typically mounted in a metal enclosure, outfitted with a reflector that redirects UV light that was emitted away from the part. Reflectors can be fabricated from a number of materials (including treated quartz and borosilicate), though aluminum and metals coated with specialty coatings are commonly used to improve their performance and reliability.

The plasma in any mercury light source several thousand degrees. Cooling is necessary to keep the quartz from softening and distorting, while keeping the plasma hot enough to keep the mercury from condensing. Large air blowers are commonly used for lamp cooling.

A drawback of arc lamps is each time the lamp is fired, small amounts of the electrode material evaporate resulting in darkening, or blacking of the lamp near the terminals.

Another is that when started the internal pressure in the tube rises sharply. If the lamp is shut off, it takes a good deal of time (sometimes as much as 20 min, depending on lamp size and ballast technology) until the lamp can be restarted.

Microwave lamps, meanwhile, have more consistent UV output and generally last longer than arc lamp counterparts. However, the physics behind the microwave coupling in the lamp restricts the bulb length to certain sizes. Microwave lamps are available at 3", 4.5", 6" and 10" lengths. Other cur-

ing lengths require a number of shorter lamps be placed end-on-end in a modular fashion. This makes microwave lamps ideal for smaller-footprint applications, but more complex and cumbersome for larger footprints.

However, with the UV LED lamp technology, rather than exciting mercury in a quartz tube to produce UV, UV LEDs rely on tiny semiconductor chips to generate UV light. The cost of LEDs also depends a good deal on the size of the area to be cured. For small areas, UV LEDs can be equal to, or even less costly than traditional mercury sources. Things to consider when choosing a lamp are: quality of construction; control features; ease of maintenance; service and support.

When designing the UV curing system, the main concern is how the optics of the lamp relates to the geometry of item being cured. Solutions can include: multiple arrays of UV lamps; single lamp or one array of multiple lamps; automation of the lamp(s) and movement of the part because lamps are usually fixed.

The most common reason for using UV Curing equipment is the need for "green" technology; the desire to increase production or process speed; the benefits of improved results.

In the implementing of a UV-curing system, education is key. There must be good collaboration with the coating company, the equipment company and the finisher who all should have the same objective – to get the line producing product as efficiently, and as quickly, as possible. ■

## paint & coating manufacturing: UV FORMULATION

# Increased Demand of Ultra Violet Coatings Formulations

**A formulator's first worry** isn't the competition. It's downtime.

In today's marketplace, the performance requirements demanded of UV-cured formulations are significantly greater than at any time during the history of industrial UV curing. Manufacturers are coming up with advanced UV curing process solutions to deliver increased flexibility, first-time performance, and reliability on any manufacturing line when it is most needed.

Performance requirements of UV-cured surfaces include improved hardness and scratch resistance, while retaining flexibility and providing long-term weatherability. The successful achievement of these performance characteristics is providing today's end users with a high

value-added benefit to their products. These, and other performance properties, are typically determined by the selection and optimization of the types of oligomers, monomers, and photoinitiators in a given formulation.

In the UV curing process of polymerization, photoinitiators are activated by intensive UV light to cross-link them within fractions of a second. Therefore, inks or coatings are cured quickly, so the surface is immediately dry and resistant to abrasion allowing continuation to the next process.

Manufacturers have developed new product platforms, such as a DC-driven source that delivers near-constant UV energy output. This significantly impacts the photo poly-

*continued on page 62*

A family run business since 1954, Dempsey's guiding principle has always been to exceed the client's expectations. Founder Frank E. Dempsey believed in building a full-service specialty products distribution business with a sales team who were both passionate and efficient.

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Today, in its 3rd generation, Dempsey continues to distinguish itself by representing world class manufacturers and by hiring quality people to serve their customers. In sales, technical support, distribution and customer service, Dempsey meets the unique needs of each client by focusing on thorough product knowledge and excellent service.

Celebrating its 60th year, Dempsey continues to offer the best technical expertise in raw materials for your coatings applications and puts forward quality innovative products to your R&D department.

With a headquarters in Toronto, Dempsey offers a comprehensive product line from Coatings & Inks to Plastics, Adhesives, Construction and Personal Care across the country. Warehouses are located in Toronto and Montreal, as well as third party warehouses across Canada.

In addition, Dempsey offers a full application laboratory, complete with state of the art equipment in order to assist you with your project needs.

Dempsey is proud to provide you with quality raw materials

from the following manufacturers:

- **BASF** Light stabilizers, pigments and antioxidants for plastic applications
- **BYK** anti-settling additives, defoamers, surface additives, dispersants, nano-additives, rheology and wax additives
- **CR Minerals Company** Navajo Pumice and Amorphous Silica
- **DSM NeoResins** acrylic and styrene resin, alkyd emulsion, solvent-based resin, polyurethane dispersion (PUD), vinyl and acrylic emulsion (Haloflex), moisture cure polyurethane, blister pack resins, crosslinkers, UV oligomers and monomers
- **Halox** corrosion inhibitors, tannin stain inhibitors and flash rust inhibitors
- **Indulor Resins** for graphic arts, solid resins, resin solutions and colloid emulsions
- **LanXess** plasticizers, flame retardants; chelation complexing & dispersing agents and bonding agents
- **Laviosa** organoclays and nano clays
- **Borregaard LignoTech** binders, emulsifiers and dispersants
- **Nabaltec** aluminium trihydrate (ATH) and fire retardant
- **Potters Industries** hollow and solid glass microspheres
- **Silberline** aluminium pigments for water-base and solvent base and starbrite vacuum metalized pigment
- **Trinity Resources** pyropholite mineral filler

Keep an eye out for the **Dempsey Coatings & Plastics Seminars** happening across Canada the week of June 15, 2015. This is a technically focused educational event presented by top technical staff from many of the Industrial companies represented by Dempsey. An event not to be missed!

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# Alberdingk Boley, Inc.

Alberdingk Boley is a global manufacturer of waterborne emulsions, polyurethane dispersions, water base UV dispersions, castor oil and modified polyols as well as linseed oil.

For over 180 years Alberdingk Boley has been providing innovative, sustainable and environment-friendly solutions to the coating industry.

The US manufacturing facility in Greensboro, NC, produces a variety of products including acrylics, styrene acrylic, epoxy acrylic hybrid emulsions, polyurethane dispersions and water base UV dispersions

Alberdingk Boley's vision is to make a significant contribution to environmentally sustainable technological progress. We believe in being an innovative partner to our customers worldwide. We pride ourselves in being flexible, responsive and creative.

In addition to the company's core competency of the development of water-based products, Alberdingk Boley has invested in the development of additional eco-friendly characteristics of its products including zero and low VOC formulation capability, solvent and NMP free as well as renewable source PUDs.

Alberdingk Boley offers a full line of waterborne emulsions and dispersions including:

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- Acrylic Polyurethane Copolymers • Acrylic Epoxy Hybrids
- Castor oil polyols

Our water-based emulsions and dispersions are designed for coatings over a variety of substrates:

- Wood • Concrete • Plastic • Metal • Textiles • Leather • Paper

Visit [www.AlberdingkUSA.com](http://www.AlberdingkUSA.com) for further information.

## Product Showcase:

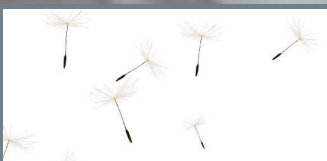
**AC 3630** is a self-crosslinking emulsion suitable for high performance wood coatings. It has excellent in can clarity and wood warming characteristics. Other features include excellent scratch resistance, outstanding block resistance, fast drying and high chemical and stain resistance. It has good compatibility with polyurethanes and can be easily formulated for industrial furniture (clear and pigmented) coatings.

**LUX 220** is a versatile solvent free, UV curable polyurethane dispersion recommended for high quality wood and PVC coatings, clears and pigmented. It has outstanding chemical and scratch resistance and a very high film hardness prior to UV cure. Its excellent cure response produces films with high crosslinking densities.

**LUX 265** is a waterborne, UV-curing dispersion based on an aliphatic polyurethane. It is suitable for high gloss finishes with excellent distinctness of image. It also has very good "body" on substrates like wood, excellent scratch & abrasion resistance and very good chemical resistance. Other features include excellent reclaimability, very low yellowing and good wood warmth.

**U 9900** is a solvent free, self-crosslinking polyester based polyurethane dispersion that offers high quality performance for wood applications. It has high surface hardness and very good chemical resistance, also for pigmented formulations. It is also recommended for two pack wood floor coatings (crosslinked with aziridine) with excellent performance that meets MFMA specifications.

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## ALBERDINGK BOLEY

Check out our new products AC 3630, LUX 220, LUX 265 and U 9900

Andicor was founded in 2002 on the strengths of its original supplier partners for the Coatings and Ink market in Canada, and has built on that strong foundation by adding complementary product lines that meet the needs of an increasingly demanding marketplace. Now in its 13th year of operation, Andicor continues to offer formulators cost-effective products from world-leading suppliers that improve performance, meet regulatory or environmental challenges, and are available for immediate delivery from local warehouses across Canada.

A few highlights of note to start the year:

Chris Machin has joined Andicor to head up the growth of the packaging products business into a separately managed division. Chris will be responsible for a team of sales professionals dedicated to promoting **BWAY's** complete range of steel pails, plastic pails, and tin containers - as well as specialty packaging products from other suppliers - from local warehouses across Canada. Buy all your packaging needs from one supplier and save!

Effective January 1, Andicor was appointed distributor in Canada for **Monument Chemical's** complete line of performance urethane intermediates. Monument's polyether polyols for non-foam applications are produced in Brandenburg, Kentucky and for 40 years have been proven winners in the CASE market.

**RÜTGERS NOVARES®** HA S1100 hydrocarbon resin modifier was introduced, a coal-tar substitute and compliant with North American regulations. NOVARES® modifiers can also be used as a substitute for nonylphenol and benzyl alcohol, and RUETASOLV® DI can be used to substitute conventional solvents in epoxy and PUR systems.

Please contact your local Andicor sales representative to learn more about these products and to order samples, or email us at [info@andicor.com](mailto:info@andicor.com).

Andicor complies with CACD Responsible Distribution: 2008 Code and is also a member of CPCA (Canadian Paint & Coatings Association), TRFA (Thermoset Resin Formulators Association), and PAC (Packaging Association of Canada).

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*continued from page 58*

merization process, network structure and cured film performance properties. Due to the high intensity output, one can generate a higher number of domain cross-link structures. With near constant UV energy output, one also significantly reduces premature terminations, resulting in a more uniform size domain structure. This improvement in the uniformity of the 3D cross-linked network structure provides superior uniform physical properties across an entire UV-cured film, including surface hardness, elongation, weatherability, and optical functions such as anti-glare, anti-reflective, and refractive index. The advanced internal circuitry and low High Voltage Output Capacitance have been designed in products to improve reliability. Some of the newest products do not require calibration after repair, making the repair process easier and more reliable.

---

“Manufacturers are coming up with advanced UV curing process solutions to deliver increased flexibility, first-time performance, and reliability on any manufacturing line when it is most needed.”

---

Ultraviolet (UV)-cure coating technology is one of the fastest-growing segments in the coatings industry. The UV-cure segment's growth can be attributed to the coatings' many competitive advantages, including low energy costs, no pot life issues, reduced environmental impact and a fast cure speed.

One-component (1K) UV-cure coating technology is one of the fastest chemistries currently available. Depending on the application, 1K UV coatings can take seconds to minutes to cure, translating into reduced costs and a rapid return to service, which is particularly advantageous for public spaces, such as hospitals and schools, where a fast turnaround is often required.

There are two main UV coating platforms – a 100 percent solids UV formulation and waterborne UV systems. Both are sustainable chemistries, having ultra-low-volatile organic compound (VOC) levels.

UV-cure coating technology is now used for more than just wood. Driven by changing regulations and formulator preferences, UV-cure coatings are being used in direct-to-metal applications, aerospace, composite repair, site-applied polyurethane dispersions (PUDs)/100% solids for

flooring and much more.

UV-cure coatings display excellent adhesion to metals such as cold-rolled steel and galvanized iron, making them well-suited for direct-to-metal (DTM) applications including large construction vehicles and mass transportation vehicles.

To meet the aerospace market's specifications, coatings must yield a good balance of physical properties including chemical resistance, flexibility, adhesion and weathering. Typically, UV-curable coatings lack flexibility but provide superior chemical resistance due to their high crosslink density. Aerospace coatings require a compromise of both chemical resistance and flexibility while maintaining hardness. These properties are primarily dictated by the filler concentrations and the resin(s) functionality/glass transition temperature. A mixture of hard and soft resins along with reactive diluents is required to get the balance of flexibility, hardness and chemical resistance required. Additionally, raw material selection is especially critical to obtain good weathering properties.

Another novel application area for UVA-cure coatings technology is composite repair. This technology could be utilized for in-field vehicle surface repair as well as to rapidly manufacture replacement parts. Currently, carbon-fiber composites are cured by thermal baking, which requires a large amount of time and energy, and results in the emission of VOCs.

UV systems have been recognized in the flooring industry for their high productivity. Combining UV and PUDs results in a UV-curable PUD system that is well suited to site-applied flooring. The UV PUD is produced by the “acetone process.” This technique allows for the prepolymer manufacture in acetone and, during a later step, the removal of the acetone via distillation. The resulting UV PUD is an ultra-low VOC and VHAPS product.

Dedicated research has refined polyurethane chemistry and delivered a next-generation product for the field of UV coatings – acrylated allophanate oligomers.

The chemistry behind traditional UV-cure coating formulations typically contains acrylated oligomers based on a polyurethane, polyether, polyester or epoxy resin. The new acrylated products offer the advantages of low viscosity and reduced crosslink density due to the reduced isocyanate functionality, therefore allowing greater freedom in designing new high-solids systems. Low-viscosity resins are environmentally friendly, because they do not require reactive diluents or organic solvents. These acrylated allophanate resins also display good outdoor weathering ability, making them a suitable choice for use on a variety of substrates, including polycarbonate plastic and metals.

UV Coating Formulation continues to evolve. The industry's need of environmentally friendly coatings and the importance low downtime will show the use of UV-cure coatings expanding into entirely new markets and more varied applications. ■

# Converting Absorbed Light Energy

**The radiation curing industry** is one of the most rapidly developing fields in the entire coatings industry. The low toxicity, cheapness, speed, control and ease of formulation and operation are some of the main advantages of this growing technology. Ultra Violet (UV) and/or visible light radiation is used to induce photochemical polymerization or crosslinking of a monomer, oligomer or prepolymer formulation containing a certain type of unsaturation, such as an acrylic group, and an appropriate initiator. The latter, the photoinitiator, is used to absorb the light energy and transform it into active species, such as radicals or ions, capable of inducing such reactions.

Applications include general coatings for paper, board, wood, tapes, compact discs and holograms, inks, photore-sists for imaging processes and adhesives for welding and sealing in electronic circuit boards. The photo initiator is the key to the control of these processes and, in recent years, has seen many new developments. These include the need for water-soluble, co-reactive and polymeric structures with low migration rates, as well as cheaper UV/visible sensitizers with enhanced speed. New and effective cationic systems are also on the scene and, although expensive, are attracting significant academic and commercial interest. A photoinitiator is a compound especially added to formulation to convert absorbed light energy, UV or visible light, into chemical energy in the form of initiating species, viz., free radicals or cations. Based on the mechanism by which initiating radicals are formed, photoinitiators are generally divided into two classes:

- Type I photoinitiators undergo a unimolecular bond cleavage upon irradiation to yield free radicals.
- Type II photoinitiators undergo a bimolecular reaction where the excited state of the photoinitiator interacts with a second molecule (a coinitiator) to generate free radicals.

UV photoinitiators of both Type I and Type II are available in the industry.

However, visible light photoinitiators belong almost exclusively to the Type II class of photoinitiators.

## Photoinitiators: UV Absorption Spectra

For photoinitiation to proceed efficiently the absorption bands of the photoinitiator must overlap with the emission

spectrum of the source and there must be minimal competing absorption by the components of the formulation at the wavelengths corresponding to photoinitiator excitation. For the initial selection of a photoinitiator in your application, one with excitation wavelengths that lie in the emission spectrum of your UV source, as well as in the absorption window of your formulation, information about the photoinitiator absorption spectrum is essential.

---

“Applications include general coatings for paper, board, wood, tapes, compact discs and holograms, inks, photore-sists for imaging processes and adhesives for welding and sealing in electronic circuit boards.”

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## Photoinitiators for Coatings

The selection of the correct photoinitiator or photoinitiator combination is critical to achieve the desired speed and balance of cure film properties.

Shorter wavelength light, around 230 nm, is of higher photon energy but is less penetrating than that of longer wavelengths. Light of this shorter wavelength is particularly useful for surface curing.

Selection of the best individual photoinitiator or combination is dependent on a number of variables including chemistry of the resin system (UPES, epoxy acrylate, urethane acrylate), selection of monomers (monofunctional, multifunctional acrylate monomers), UV lamp type and orientation, cure speed required, coating property requirements, substrate and many others.

### Photoinitiators Offer Solutions

Ultraviolet absorbers (UVAs), as their name suggests, operate by a physical process whereby they absorb the incident ultraviolet light and are able to convert this into heat energy, which can be dissipated through the polymer matrix in a non-damaging way. UVAs however, can compete with photoinitiators for the available light and therefore have an impact on the cure speed of most formulations.

As with most coating formulations, a combination of HALS and UVA usually offers superior UV protection because the two products complement each other in their mode of operation.

### Troubleshooting

Surface cure problems generally indicate that the formulation is not able to overcome the oxygen inhibition, which is inherent in the UV curing of acrylates.

Higher photoinitiator concentrations are generally recommended to solve this problem.

Through cure problems may show up as surface wrinkling or may be manifested through poor performance properties such as adhesion. Care must be taken not to add too high a concentration of photoinitiator, otherwise the filter effect may play a role, preventing the incident UV light from penetrating to the bottom layers of the formulation.

As one of three environmentally friendly technologies, radiation-curable coatings are facing a bright future since they match the legislation requirements to be a “green” technology alongside water-based and powder coatings. UV/EB coatings have had a high growth for many years, which is expected to continue.

### The Lamps

Traditional medium-pressure mercury (Hg) lamps produce a wide spectrum of radiation, including significant emissions in the ultraviolet region, specifically UVC, UVB, UVA and UVV. This spectral breadth allows for the selection of photoinitiator(s) to optimize the cure of acrylate-based inks, coatings, adhesives, sealants and composites according to the type and intensity of the light source, as well as accounting for species within the formulation that block and/or absorb UV light, such as pigments and fillers.

The science of producing a suitably high flux of intense UV photons with light-emitting diodes has made remarkable progress in the past 10 years. There are now many commercial applications for UV/LED technology, allowing for the wider use of heat-sensitive substrates and providing for more economical overall UV cure by eliminating huge air handling structure and cost. Like the larger UV-cure market, UV/LED curing has seen tremendous growth since its inception. ■

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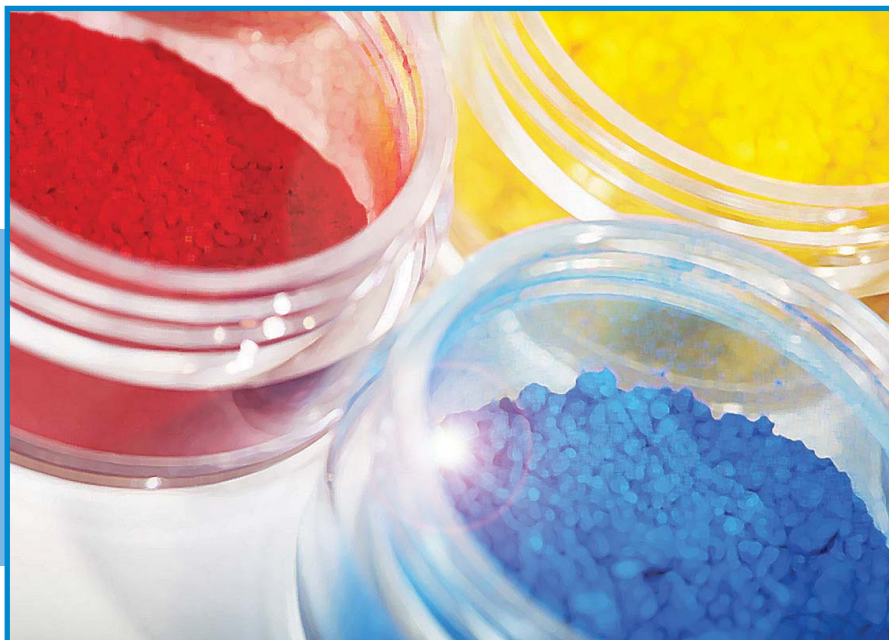
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# Silicone Based Paint and Coatings Technology Contributes to Sustainability



**There are multiple drivers** for innovation in the coating industry such as cost, volatile Organic Compound (VOC) legislation and the desire for more eco-friendly products to name but a few – but sustainability is the buzz word in the industry these days. In the coatings market, silicone additives known for the surface properties they bring to the coatings formulator such as slip and abrasion resistance, wetting, leveling and defoaming. Silicones, however, can also improve the sustainability of coatings by helping to increase the longevity of coatings and the ability to use fewer natural resources, such as titanium dioxide. With a wide range of pigments, fillers and resin binders used across multiple applications, flooding and floating remain an issue for the coating and ink industries. Silicone additives can be used beyond the traditional benefits, and bring added performance in formulations providing solutions.

## Flooding and Floating

Floating occurs in TiO<sub>2</sub>-based white, pastel and grey formulations, and is caused by the pigments and fillers separating from the organic resin binder and one another in the liquid phase due to incompatibility. This incompatibility, due to density differences and pigment and filler surface treatments, leads to the pigments rising to the surface of the coating. When pigments and fillers in paint are not stabilized, there can also be separation and concentration of one pigment at the surface of the film upon drying. This is known as ‘flooding’ and may result in a failure to develop the intended color, or differences in color may be seen depend-

ing on film thickness or application technique. In theory, an effective pigment treatment to prevent flooding and floating needs to be able to interact with the pigment or filler surface and be compatible with the organic resin binders. Flooding and floating are also issues in carbon black-based paint formulations.

Comparing the performance of the silicone materials at different molecular weights, it is clearly seen how this property influences performance. With the lower-molecular-weight surface-active additives, there is little impact on anti-flooding and anti-floating properties. With the high-molecular-weight additive, there is excellent anti-floating and anti-flooding performance.

## Weather Resistance

Improvements in weather resistance can be achieved using silicones. Such as resistance to binder degradation with UV exposure (chalking), water resistance and anti-efflorescence increasing the longevity of a coating. The marketplace demands this longevity without a significant increase in cost. Silicones offer cost-effective solutions to the market, since they can be added to the formulation at various levels.

Efflorescence is the formation of salt deposits on or near the surface of mortar or concrete (cement), causing a change in the surface appearance. Silicones can also be used to formulate primer paints for treatment of mortar and concrete (cement) to prevent efflorescence.

In addition to improving the physical properties of coatings, leading to

## Innovative Silicones for Your Technology

Siltech is a privately owned business, we hope and believe that the pride we feel in this company channels its way through each of our employees to every customer.

As an Innovation company, Siltech has built our business and reputation by creating new silicones for new customers with new applications. Change is the only constant in business and Siltech understands and embraces your need to change. Our philosophy is to constantly innovate and create new products which provide you with enabling solutions to your problems.

Siltech develops, manufactures and markets a full line of organo-functional silicone compounds and related specialties for a wide range of industrial applications, using our patented and otherwise proprietary technologies. Our expertise in specialized organo-modified silicone polymers has resulted in more than 40 patents.

Siltech owns and operates two manufacturing plants in the Greater Toronto Area. These plants are equipped with efficient, large-scale, high-temperature and pressure reactors, thin film evaporators and other modern equipment. Siltech is proudly ISO 9001:2008 certified.

Siltech invests a substantial portion of our resources into R&D and new product development. Our R&D and technical service laboratories are modernly equipped and staffed by chemists with many decades of experience in diverse segments of the chemical processing industry. In addition, we have efficient pilot plant facilities available to produce special products for your experimental needs.

Siltech offers the coatings industry a broad line of Siltech additives and Silmer® reactive silicones as well as more unique chemistries.

## Additives

Siltech inks & coatings additives have long been recognized as providing special properties including improved slip, gloss, mar resistance, flow, leveling and foam control. Furthermore, because these silicones are efficient at very low concentrations, they are cost effective, and widely used.

## Silmer® Reactive Silicones

Our expertise and portfolio of reactive silicones aligns with industry needs to bind into a coating as well as to modify resins obtaining hybrid properties.

## R&D

Our R&D, Technical Service and Process R&D laboratories are modern, well-equipped, co-located with our manufacturing facilities and staffed with first-class chemists and engineers. These scientists have years of experience in synthesis and key applications such as personal care, polyurethane foam stabilization, inks and coatings, and silicone gel formulation.

Our first rate analytical labs support the quality of our manufactured products as well as new product development and technical service.

Siltech's track record of innovation and outside-of-the-box problem solving is demonstrated by our broad portfolio of product types. Our early history as an organic surfactant company gives us a different perspective from other silicone manufacturers and results in classic organic surfactant derivations to silicone such as Silamine®, Silphos® and Silquat® grades.

## Manufacturing

All Siltech products are manufactured to the highest standards to ensure that they meet our customers' needs. Siltech also



Our modern R&D labs

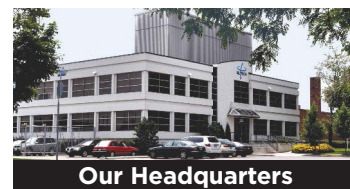
offers the flexibility of providing many of these products either in an appropriate solvent, or neat. They are designed to meet specific requirements of various coating systems such as high solids, water-based, or energy curing.

Many problems old and new may be solved with new silicone specialties. We welcome the opportunity to partner with customers, as we believe that this results in the creation of the most formulator-friendly, cost-effective silicone specialties anywhere.

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more durable coatings and therefore improved sustainability, the reduction in the use of natural resources within the formulations also has a huge potential impact. Expensive titanium dioxide levels can be reduced in the coatings using silicones to achieve the same hiding power as that seen with traditional organic dispersants.

New developments in silicone technology promise to deliver more in the future. Improvements in self-cleaning performance of exterior applications, for example, could reduce costly cleaning or re-painting and reduce the amount of solvents or surfactants used during cleaning procedures or in paint manufacture.

Silicones offer the coating formulator ways to improve the sustainability of their products, allowing them to achieve the performance benefits to maximize the coating's life and protect the substrate while still controlling the cost of the total formulations. While silicones can offer many benefits to the formulator, choosing the right chemistry for the right job is critical. Using silicone additives can improve paint consistency by preventing flooding and floating. Using silicone additive either in the pigment grinding or by post addition at a very low addition level, allows the formulator to achieve excellent cost-in-use performance and sustainability. ■

Article source: [www.dowcorning.com](http://www.dowcorning.com)

### The Research – Study on Silicones Market

According to a recent study from Ceresana, worldwide revenues generated with silicones have risen by 6.7 per cent per annum since 2005. In 2013, silicones valuing about \$15.5 billion were sold. The market research institute expects sales of silicone to increase by another 5 per cent in the coming years.

A decisive advantage for manufacturers of silicone is the variety of sales markets for silicone products. Demand is distributed evenly among several large sectors. In the construction industry, silicones are mainly used as sealants, adhesives and in coatings. The continuous boom of the construction sector in China and the recovery of the American construction industry are likely to result in an increase of global market value in the construction industry by 5.4 per cent per annum in the upcoming years.

The market for silicone resins has so far accounted for a much smaller market share in all regions, but is likely to develop at sound growth rates.

[www.ceresana.com/en/market-studies/plastics/silicones/](http://www.ceresana.com/en/market-studies/plastics/silicones/).

## paint & coating manufacturing: **TAKING STOCK**

# STATE OF THE Canadian Coatings Industry

BY GARY LEROUX

**The Canadian coatings industry** remains stable as always and can best be depicted as an industry with slow, stable growth now and in the foreseeable future. Before looking at the industry in Canada, it is important to note that the industry generally is doing very well when compared to other sectors and the gross domestic production (GDP) in general. As is the case with the industry worldwide, the paint and coatings industry in Canada continues to be fragmented by opportunities for growth and acquisition in all three segments of the industry: decorative, industrial and automotive. This was recently confirmed at the international Coatings Summit, which featured CEOs from the largest players in the industry in the world, as well as many impressive small- and medium-sized companies. It is generally agreed that all sectors will continue to be impacted by consolidation such as we saw this past year with Sherwin-Williams' acquisition of General Paint in Canada. This was preceded by the purchase of Dupont Performance Coatings (now Axalta) by the private equity

firm, Carlyle Group. And there was PPG's acquisition of AkzoNobel's decorative coatings segment in North America two years ago. Onlookers expect this trend to continue in the months and years ahead.

It should be noted that the coatings industry continues to be a strong sector of the economy and it has been performing well since the most recent recession. The industry grew overall by 5 per cent worldwide in the past eight years, even with significant, negative impacts caused by the recession. This growth generally outpaced the overall general GDP growth rate, which averaged less than 3 per cent in most Western economies. Average annual returns for the coatings industry are 27 per cent as opposed to 18 per cent for the Standard and Poor's Index of companies. The coatings industry is the strongest among the chemical sector for return on investment, which explains the continued consolidation in the sector and the increased activity by private equity firms seeking good investments. Such a positive position clearly stems from the ongoing innovation in new and high performing products, continued consolidation leading to enhanced operational efficiencies,

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Conn builds equipment to meet the customer's requirements with air or electric drive specifications to suit operating conditions; horsepower to suit service conditions; dimensional design to suit operating conditions or existing tanks. The company firmly believes in keeping it simple, durable and functional.

Conn provides low shear blending blades or high shear dispersion blades or complete drive assemblies for processing fluid materials such as paints, adhesives, inks, cements, urethane foams, chemicals, slurries, grouts and more.

### The Conn Blades

Conn and Company recognized the need for blending blades and dispersion blades that provided true pumping action instead of plowing action. The company has brought four patented blades to the market under the trade name Conn Blade.

The ITT style blade has a combination of louvers and teeth. It is a high pumping high shear dispersion blade and is the most efficient and aggressive dispersion blade available.

The IT style has the louvers providing superior pumping action, but without the teeth. It is a high pumping, low shear, blending blade and is excellent for mixing micro spheres or flakes or other fillers that need to be well mixed, but not destroyed.

The ITC CONN Blade is an 8-vane open style blade providing excellent material flow, with more shear than the IT, but is not as aggressive as the ITT.

The patented P-ITT CONN Blade is of UHMW Polyethylene and is excellent for highly corrosive or highly abrasive mixing. The P-ITT CONN Blade is the most efficient and aggressive poly blade available.

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supplies air or electric utility/laboratory mixers, spool-type top entry for flange mounting to the customer's tank, and drive assemblies for mounting on bridge support for open top tanks. Conn and Company just needs the customer's requirements and will be happy to be of assistance.

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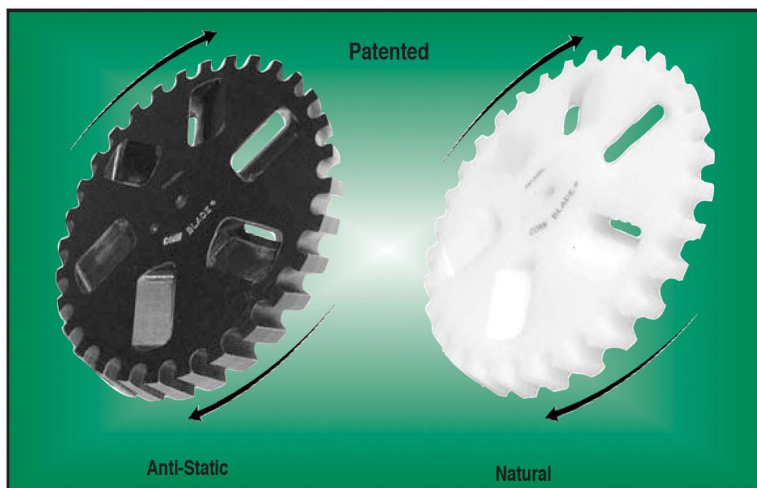
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strong leadership provided by paint industry executives and improved growth in sectors important for coatings, such as housing, infrastructure and automotive.

Challenges are a constant preoccupation for industry and the coatings sector is no exception. Supplier prices continue to be relatively stable, but the rapid decline in oil prices will likely have an impact on the coatings industry in the short term and there will be a period of some volatility ahead. It is generally expected that there will be more activity in commodities in the coming year. Customers will also have an impact on trends, as one would expect. Globalization and consolidation among the major auto and industrial OEMs will dictate changes in the products that are available to customers. Ongoing sustainability and environmental awareness pressures will drive more innovation in the industry requiring continued investment in R&D to remain competitive over the long term. There will always be increasing performance expectations by customers with longer life cycles and new innovative substrates requiring appropriate coatings solutions. There will also be industry specific challenges, such as uneven construction requirements, expected declines in national defence purchases due to budgetary constraints and a slowdown in the marine sector, which will negatively impact industrial marine coatings. Colour remains an increasing driver of growth for the coatings industry. It has become more important than ever with an expanding focus on style and design, which allows differentiation and mass customization, all of which are important to the consumer, both DIY and professional. This continues to represent a great opportunity for the industry in the decorative space and coatings manufacturers are responding.

Trends always provide an opportunity for value-added technical enhancements, but these require substantial investment. There are a number of key external trends that must be addressed on a consistent basis by the coatings industry in Canada. Increasingly the coatings industry continues to be challenged by environmental product stewardship demands in various jurisdictions. The Ontario government will table a new legislative framework for stewardship in 2015 and it will require the coatings industry to be prepared as it represents half of the Municipal Household and Special Waste (MHSW) program in Ontario. This past year saw the approval of a new program operator for post-consumer paint recycling in Ontario under Product Care. The transition from Stewardship Ontario to Product Care will be completed by June of 2015 and the industry looks forward to Product Care as the new program operator in the largest province. Nova Scotia is also looking at new regulations for municipal household and special wastes, which will be implemented this year. Alberta is also hoping to introduce new stewardship regulations with a view to amendments being fully implemented in 2015. We will see post-consumer paint recycling push past the one kilogram per Canadian mark in 2015.

No other country can claim such a statistic and we look forward to maintaining our number one spot for a few years to come.

The coatings industry is a highly regulated sector of the Canadian economy. Regulations impact the Canadian coatings industry as they do in all countries. This has been the case over the past several years under Canada's Chemicals Management Plan (CMP), assessing all chemicals in commerce. This will continue as we enter Phase 3 of the CMP in 2015. The industry must remain vigilant and CPCA is focused on working with members to ensure that the future of the coatings industry remains strong and is not hampered by government regulations.

The total cost of regulation to Canadian businesses has grown to \$37.1 billion, up from \$31.7 billion in 2012, according to "Canada's Red Tape Report," which was recently issued by the Canadian Federation of Independent Business (CFIB). Businesses spent an average of 842 hours a year complying with government rules and paperwork in 2014. This is an average and does not recognize the tremendous cost and time expended by the largest manufacturers, which represent the majority of the activity in the coatings industry. That figure was up 12 per cent from 2012. The report also notes that 42 per cent of small business owners would not advise their children to start a business given the burden of regulation. That is not a good omen for developing new entrepreneurs in Canada. Not all regulation is red tape, but business owners say that regulation could be cut by about 30 per cent, or \$11 billion a year, with no negative effect on important health, safety, and environmental objectives of regulation. The study also found that regulation costs Canadian small businesses significantly more than their U.S. counterparts.

The challenge for the coatings industry is to retain the value that the industry has created to date. This can only be done by paying attention to the things that matter most, such as: enhancing value-added coatings, increasing innovation in all segments and demonstrating that sustainability remains a primary preoccupation for the industry. Ways will have to be found to navigate the external environment and continue to increase company valuations that provide a reasonable return on investment for the shareholders, whether they are privately held companies or those that are publicly traded.

Forecasted global coatings demand will continue to grow through 2018 by end-use and is forecasted to be in excess of 5 per cent overall. This will be driven by the major end users in the primary categories as follows: decorative and wood, automotive OEM and refinish, transportation, general industrial, maintenance and protective and packaging. ■

*Gary LeRoux is the president of the Canadian Paint and Coatings Association based in Ottawa.*

In a highly competitive market where setting yourself apart from your competition can be a challenge, Northspec Chemicals Corp. continues to provide innovative, high performance, specialty chemical solutions to the Canadian Coatings, Graphic Arts, Floor Care, Composites, Adhesives, Plastics and Construction industries.

Northspec Chemicals Corp. represents many globally renowned, industry leading suppliers in these areas, including: AkzoNobel, Arkema, Avebe, Brilliant, Chromaflo Technologies, Dow Construction Chemicals, Dupont Canada, Eternal Chemicals, Evonik, Hexion, Huntsman, JECO, Kukdo Chemicals, Novant, Lapinus, Wanhua as well as other complimentary manufacturers of additives, monomers, resins, pig-

ments and other specialty products.

Northspec Chemicals Corp., known as one of the industry's strongest leaders in technical sales and commercialization capability, offers value-added solutions for both the current and future needs of their customers and supplier-partners alike.

With coast-to-coast logistics and sales coverage, Northspec Chemicals Corp. has a strong focus on providing the highest quality products available, to meet and exceed the demands of the Canadian marketplace.

A company with the right attitude, Northspec Chemicals Corp. is a member of CACD, TRFA, and CSSA and adheres to the codes of Responsible Distribution, providing strong product stewardship and reliability.

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<b>Wanhua</b>	MDI Isocyanate Products and Prepolymers



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# Plating Automation **MORE DESIRABLE**



Photo courtesy of JBC

**While in the past** contract plating shops were hesitant to go automated with their plating systems primarily due to cost and other limitations, automation is now more reliable, profitable and less risky due to several factors.

Networking automation control system to the management PC's can allow for the downloading of parameters and instructions for the operator and equipment.

Electronic controls that are well integrated into the automation system can make the difference between success and failure. It provides the operator with the ability to input parameters, save them, send signals to equipment receive feedback from equipment about the process and

provide analysis and documentation. A fully integrated system can read a shop traveller and document each job accordingly.

Data can be input by scanning barcodes or by using non-contact Radio Frequency Identification (RFID) sensors. Tablets on the shop floor eliminate paper and provide live tracking of shop floor data. The control system can be fully integrated into all the various elements of automation to create a virtual model of the plating system. It provides control of movement and warns of potential problems, upcoming maintenance requirements and can stop processes from being performed when parameters



Buckman Canada was established in 1948 as a sales and distribution company providing industrial microbicides for many applications. Buckman has continued to grow with a market-driven strategy that emphasizes meeting the customer's needs both with innovative products and application technology. This also meets today's demanding regulatory and environmental requirements. We focus on solving customer's problems by listening to their issues and responding with measurable, cost effective products and services. Our business units include pulp and paper, water treatment, leather and performance chemicals which, among many other industries, also includes paint and coatings.

**Fire Retardants**

The Flamebloc GS series of fire retardants are clear, water-based and contain little or no VOC designed to meet industry needs for greener, safer fire retardant technology. We also market halogen and non-halogen products for smoke reduction and flame prevention. Our increased focus on fire retardants and smoke suppression have resulted in more diverse offerings in our product portfolio.

**Coatings and Plastics**

Buckman's coatings and plastics program started in 1951 with Busan 11M1, a fungicide used to control mould on painted surfaces. Since that time our comprehensive product portfolio has grown to include both standard and engineered additives for extra protection of formulated products such as corrosion inhibitors, mould inhibitors, wood preservatives, flash rust inhibitors, UV light stabilizers, dispersants, flocculants, heavy metal precipitants, defoamers and specialty products.

**It's not just about being sustainable.  
It's about being accountable.**

At Buckman we are serious about sustainability, and we know our customers are too. That's why we believe in sustainability reporting by meticulously measuring how our operations affect others and the planet as a whole. It's why we strive to be transparent about our sustainability goals and our progress toward meeting them.

Sustainability is measured in all kinds of ways. In the energy we save and the water we conserve, of course. But also in how we touch others. And in how financially responsible we are as an employer, manufacturer and service provider. So we set goals and assess our progress in six key areas: economics, the environment, labour, human rights, society and product responsibility.

For more information please visit the Performance Chemicals page of our website [Buckman.com](http://Buckman.com)

**Better protection.  
Safer chemistry.**

**Get greener, safer  
Flamebloc® chemistries  
from Buckman.**

**Buckman's Flamebloc GS series  
of fire retardants** are formulated to provide outstanding protection for today's natural and synthetic products. Their innovative mix of unique chemistries, including amino functional ammonium polyphosphate, are clear, water-based, and contain little or no VOC. Best of all, they do not require a halogen donor to provide intumescent and char-forming substrate protection. There are many options, too, to help you meet the various standards and specifications required by your industry.

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fall outside of acceptable limits.

Tank chemistry can be controlled through automation. Using sensors in tanks and using precision dosing pumps eliminate all the peaks and valleys of the solution concentrations, which produce more consistent plating results. The sensors and the pumps can report to the control system as to their operation so that any negative trends can be identified before they become a problem. SPC control of solutions is very difficult to maintain manually because of the amount of data that needs to be collected, analyzed and acted upon. A good control system will provide an SPC level of control with no additional cost once the system is setup to provide it. Most plating shops without computer control systems that attempt to implement SPC find

All plating shops use water for rinsing. There could be a mixture of Municipal water, DI and recycled water. A system of reusing rinse water by filtering or moving water from critical to less critical rinse tanks may be in use. By adding rinse water monitoring into the control system, water consumption can be further reduced by turning off rinse waters when they are not needed. In many shops, rinse waters are turned on at the beginning of the day and turned off at the end of the day. A control system can monitor production and rinse water quality, then adjust water flows accordingly.

Modern control systems can provide the flexibility to achieve greater control at lower cost while improving your capability and quality. By selecting the right contractor and

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Tank chemistry can be controlled through automation. Using sensors in tanks and using precision dosing pumps eliminate all the peaks and valleys of the solution concentrations, which produce more consistent plating results.

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that they are able to control one or two key parameters per process at best. An automated system can provide SPC control over several characteristics per tank.

A hoist drive system provides control for both horizontal and vertical motion. Some hoists are also able to tilt or vibrate the load in order to aid drainage. Automating the hoist saves labour, increases throughput and improves quality by providing process repeatability. Electric hoists and drives with linear position sensors or micro-switch stops let the control system know where the hoist is vertically and horizontally. An ideal control system will control drive speeds, acceleration, deceleration, drainage times, time in tank and position. Most control systems work in milliseconds so there will be a vast improvement in consistency. Acceleration and deceleration speeds can be tailored to the weight of the load and accidents from hitting the tops or sides of tanks can be eliminated. Drag out can be tightly controlled to help preserve various tank chemistries. With automated hoists, you can more reliably predict completion times and create better schedules.

Rectifiers are used in many areas of plating processes. Amperage, voltage, ramp, pulse and time all need to be controlled. In many cases, parameters are load sensitive so a calculation needs to be made to the rectifiers output. By tying in the rectifier's controls into the main control system, parameters can be optimized, calculation error reduced and optimal results achieved.

then working closely with them to ensure that they understand your needs, you can develop a control system that suits your business needs for today as well as tomorrow. Although putting enough support by key personnel into the design portion of the project may stretch resources, the payoff is that the system behaves as expected. It is as much an educational process for your team as for the contractor. With new control systems being so flexible, you need to develop in house expertise to ensure that you take full advantage of this flexibility. Once employees start to understand the control systems capability and how to adjust it, the full benefits can be achieved.

Automation Control Systems will monitor many interrelated variables, consider the workload, provide plating parameters and track actual outputs of each job. The more integrated the control system is with all of the devices, the better it is able provide the maximum benefits. By collecting all of this data, it can be reported, analyzed and provide information for future improvements. In effect, it becomes part of the management cycle, showing results that a given set of parameters will provide. Costs have come down to the point where small shops can afford these control systems. They improve traceability and quality, because they remove the guesswork when doing root cause analysis and new process development. For platers, the flexibility and consistency provided by modern control systems will lower costs and improve quality. ■

## Blending Technology, Service and Value

Dynamix is the largest Canadian owned manufacturer and supplier of metal finishing chemistry. Supplying automotive, aerospace, RoHS, ELV, WEEE and REACH compliant metal finishing products across North America.

## History and Experience

Partners Dennis Rogers, Charles Morris and Stewart Tymchuk established Dynamix in 2007 and over the years the business has adapted to the needs of the industry. Together they share over 75 years of metal finishing experience in real world plating facilities, which provides customers with a tremendous operational advantage. Their combined knowledge of technical service, research and development, manufacturing, ISO 9001:2008, marketing and sales, enables Dynamix to provide high quality products and cost effective opportunities to all customers.

## Our Philosophy

"The philosophy at Dynamix is simple – enhance our customers' performance and profitability, while dealing with all of our partners in an open and honest forum."

## Main Focus

The primary focus of Dynamix is the design and manufacture of specialty chemicals for the metal finishing industry, covering all aspects of metal finishing from anodizing to zinc plating. Toll blending, packaging and distribution of custom formulated products are also available.

## Distributing Partners

Dynamix understands that from a research and development perspective you can never be the best at absolutely everything. For those areas, Dynamix has partnered with some of the industry's best supply houses. Distributing products for their partners allows the supply of a wider variety of chemistries, including automotive and aerospace approved products.

## Our Strength

Dynamix's strength is in zinc plating, as the company has well over 200 zinc lines presently in service across North America. What sets the company apart from the competition is their ability to do their own research and development and manufacturing here in Canada.

Dynamix offers a service that encompasses all of their values with a highly skilled and motivated team. The laboratory at Dynamix is well equipped and able to provide analytical solutions specific to a particular sector of industry and/or customer.

The company has two locations, Markham, ON, and Montreal, QC.

Products are designed at Dynamix to provide unsurpassed performance and solution economy. Superior chemistry is only the beginning, as the company realizes that technical and application knowledge are just as vital to the metal finishers' success.

Please visit the Dynamix web site at [www.dynamix-inc.com](http://www.dynamix-inc.com).

Let Dynamix demonstrate how they can maximize your plating chemistry productivity by providing the most robust chemical processes available.

Ask a representative at Dynamix about their full line of proprietary products or enquire about a custom blended product. All products are developed with your business success in mind.

Contact DYNAMIX INC. today.

## DYNAMIX Blending Technology, Service and Value



Dynamix is one of North America's fastest growing manufacturer and supplier of metal finishing chemistry. "The philosophy at Dynamix is simple - enhance our customers' performance and profitability, while dealing with all of our partners in an open and honest forum."

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Let Dynamix demonstrate how we can maximize your plating chemistry productivity by providing the most robust chemical processes available.



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- Tin Processes.
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# PLATING WITH GOLD

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**Gold is by far the most** popular plating metal. It is functional, practical, has superior corrosion resistance and spectacular aesthetics.

Early applications of gold plating and its predecessors, fire gilding and leafing, were almost exclusively decorative. The rise of the electrical and electronics industries in the latter half of the 19th and throughout the 20th centuries created applications for gold based on its chemical inertness, low and stable contact resistance, conductivity, and resistance to arcing.

Because of its price, it has always been important to deposit gold only in those areas and at such thickness as the application actually required. Thus, selective tech-

niques for gold deposition were developed quite early, and continue to be improved.

## **Cyanide-Based Gold-Plating Systems**

Most plating of gold and its alloys is carried out from solutions containing gold as a soluble cyanide complex. Gold reacts with alkali cyanides to form either monovalent  $\{MAu(CN)_2\}$  or trivalent  $\{MAu(CN)_4\}$  complexes, wherein M is an alkali metal or, in some cases, ammonium ion. Gold plating solutions contained some excess of free alkali cyanide, which served as a portion of the electrolyte. This automatically established the solution pH in the range of about 10-12; and since cyanide is highly surface active and

Since 1978, Process Technology has been the leading manufacturer of electric immersion heaters, inline heaters, heat exchangers, heating and cooling coils, temperature controls, liquid level controls, over-temperature protection systems and accessories. Our product line is among the most comprehensive and diverse available, with both standard and custom configurations. Most of our products have the added security of cULus listings and CE compliance and Process Technology is certified to ISO 9001:2008, including design.

Process Technology is dedicated to the pursuit of world-class excellence and leading-edge technology. Quality is the foundation of all our business processes from engineering design to the manufacture and delivery of our products, which set the industry benchmark for safety, performance, and durability. Our innovation and growth would not be possible without our dedicated, experienced staff and knowledgeable distribution network. We are committed to exceeding customer expectations, protecting our environment, and empowering our team members while promoting their growth, health, and safety.

Process Technology proudly introduces the latest in innovative immersion heating - the SmartOne® PTC heater. These heaters are designed with an internal limit-temperature which is far below the ignition temperatures of plastic tanks or pipes. With this technology, thermal over-temperature protectors are no longer required to ensure safe operation. SmartOne heaters are more dependable and will not burn out in air or when covered by scale or sludge like traditional resistance heaters. Different configurations are available in titanium, 304 and 316 stainless steel.



For more information on the SmartOne® PTC heater, go to:  
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Searching for the most reliable inline water heater on the market? Look no further than the Tytan™ heater by Process Technology. The Tytan™ electric inline water heater is a complete system which features a compact configuration, improved process results, ultra-fast heat-up, superior temperature stability regardless of application and reliable, rugged construction. Installation is fast and easy, and the Tytan™ heater requires virtually no maintenance.

For more information the Tytan™ heater, go to:  
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difficult to rinse, staining problems occasionally occurred.

Trivalent alkali gold cyanides are stable almost to pH zero. This allows the development of purpose-designed gold plating electrolytes, free of excess cyanide and operating over a wide range of pH; containing, as necessary, various additives for brightening, hardening, grain refinement, depolarization and/or range extension.

### Noncyanide Gold Plating

Gold can be deposited from the chloroaurate. A sulfite gold-plating solution consists of the alkali gold sulfite, a conducting electrolyte and at least some excess of free alkali sulfite. The stability constants for sulfite complexes are lower than those for cyanides, and the excess is

pure soft gold and amorphous hard-gold alloys have been explored in the industry.

A new non-cyanide, electrolytic soft-gold plating bath containing both thiosulfate and sulfite is recommended in place of the commonly available sulfite bath because of the advantage of the greater stability without the necessity of adding a stabilizer.

The SCEL plating of soft gold, as distinguished from the more common, galvanic displacement and autocatalytic processes has also been explored. The bath could contain thiosulfate and sulfite as ligands, but no conventional reducing agent. In this system, sulfite serves as the reducing agent. This new bath two significant advantages: (1) the gold deposit obtained can be much less porous than



Besides the obvious jewelery , gold plating is widely used in electronics. Both electrolytic and electroless gold plating processes are indispensable for the fabrication of electrical contacts in the electronics industry.

required to stabilize the gold complex. Sulfites are stable at alkaline pH. Addition of acid to sulfite ion releases hydrogen sulfite ion, and then sulfur dioxide. Since the anode reaction removes hydroxyl ions and thus tends to acidify the solution, it is common to operate sulfite golds at alkaline pH, usually 9.0 or above.

In the past brightening agents for sulfite gold systems have included arsenic, antimony and thallium. Recently a newer, stabilized series of sulfite golds have made it possible to operate at pH values below neutral. This has made it possible to employ cobalt, nickel, or organic polymers as brightening agents, or to operate without brighteners entirely.

### Electronics

Besides the obvious jewelery , gold plating is widely used in electronics. Both electrolytic and electroless gold plating processes are indispensable for the fabrication of electrical contacts in the electronics industry. The materials of plated gold in use for this purpose can be classified into two categories: soft gold and hard gold. Soft gold is used for metallizing bonding pads and fabricating microbumps on silicon IC chips and ceramic packaging boards, while hard gold is used as a contact material on electrical connectors, printed circuit boards, and mechanical relays. Electrolytic methods are available for plating both soft gold and hard gold, whereas electroless methods can produce only soft gold at present.

New processes to electroplate and electroless plate

that produced by galvanic displacement, and (2) the substrate-catalyzed bath is much more stable than autocatalytic baths. With a proper choice of bath composition, plating conditions, and substrate pretreatment procedure, the new bath can produce pore-free gold films at a thickness as small as 0.05mm.

There is also the development of electroplating baths producing amorphous hard-gold alloys. The approach taken to achieve the successful development of these baths is based on the addition of a gold salt to baths that are known to produce amorphous alloys such as Ni-W and Co-W. Using this approach, amorphous Au-Ni and Au-Co alloys containing up to 50-60at per cent of Au and no W can be obtained. These amorphous gold alloys have a hardness value greater than twice that of the conventional hard-gold deposits, while the electrical contact resistance of the amorphous materials was identical to that of the hard gold. The amorphous gold alloys may find useful applications in the future when the area or size of electrical contacts in electronic devices becomes comparable to that of the grain size of the hard gold, 20-30nm.

The amorphous gold alloys may also find applications in areas other than contacts in electronic devices where a high hardness and high wear resistance is required. It should be noted, however, that bulk resistivity of amorphous materials is generally higher than that of crystalline materials with comparable compositions. This aspect may require a further investigation for improvement. ■

# uv.eb WEST 2015

**RadTech's UVEB West**, is set for March 10-11, 2015 at Redondo Beach, California and will feature a Keynote presentation both mornings. Registration on March 10 is open 8 AM - 3 PM followed by a Continental Breakfast 9 AM - 10 AM and Conference Sessions 10 AM - 12 NOON. March 11 has Registration from 8 AM to 11 AM followed by education sessions beginning at 9 AM to noon. The table top exhibition takes place 10 AM to 2 PM and there is a Chemistry Short Course for an additional fee from noon to 2 PM.

## Some educational topics include:

- Coatings Innovations the Markets Are Requiring in 2016: Bob Richardson from Jabil-Green Point, one of the largest users of UV coatings in the world, will present an in-depth look at the coatings innovations the market wants to see in 2016.
- What New Products and Processes will UV LEDs Enable in 2015? : This special session will feature eight of the leading equipment and chemistry suppliers in the world, discussing the new products and processes that will drive UV LEDs in 2015.
- 3D Printing by the Hollywood Special EFX Company that Created Iron Man & Robo Cop : Jason Lopes from Legacy Special EFX will discuss their use of UV technology and 3D Printing to create characters for movies like Iron Man & Robo Cop. Also in the session will be an overview of 3D Printing presentation and a special presentation by Autodesk.

## The show features over 45 Exhibitors including:

- Alberdingk Boley Inc.
- Allied Photochemical
- Allnex
- American Ultraviolet
- BASF Corporation
- BYK
- Canadian Finishing & Coatings Manufacturing Magazine
- CB Mills a Division of Chicago Boiler
- Changzhou Tronly New Electronic Materials Co., Ltd.
- Coatings World Magazine
- DoctorUV.com
- DOWA Electronic Materials Co., Ltd.
- DSM
- Dymax Oligomers & Coatings
- EIT Instrument Markets
- Emerald Performance Materials

# UV.EB WEST 2015 Conference Highlights



- ESI
- Excelitas Technologies (Omniculture)
- FlackTek, Inc.
- GEW Inc
- Heraeus Noblelight America LLC
- High Power Lighting Corp.
- Honle UV America
- IGM Resins
- IRTronix, Inc.
- Keyland Polymer
- Melrob US Inc.
- Miwon
- Nedap Light Controls
- NETZSCH Instruments N.A. LLC
- Nichia Corporation
- PCT Engineered Systems
- PerkinElmer
- Philips Lumileds
- Phoseon Technology
- PL Industries, a division of Esstech Inc.
- Printed Electronics Now
- RAHN USA Corporation
- Rodman Media
- Sartomer Americas
- Seoul Viosys Company
- Schiederwerk GmbH
- Siltech Corporation
- Strathmore Products, Inc.
- SUNY ESF Outreach
- Synasia Inc.
- Ushio America, Inc.

All are invited to join RadTech's Annual Winter Meeting from 2 PM to 6 PM on March 11.

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## NEW PRODUCTS AND TECHNOLOGIES

### BGK Gas Catalytic Oven and Portable Modular Finishing System

Finishing Brands introduces the new BGK Gas Catalytic Oven, which has been developed as a low cost, high quality curing solution for powder or liquid finishing applications.

This versatile curing system features include:

- Environmentally-friendly emitters — uniform, low intensity heat.
- Faster process times — using natural gas or propane.
- Less expensive to run than convection — up to 50 per cent.
- Highly controllable — meets demanding requirements.
- Small footprint — ideal for lean manufacturing.



BGK also introduces the portable chain-on-edge system with infrared curing oven brings IR solutions to finishing operations that prefer to work with a limited footprint, including labs and small production applications.

This versatile modular finishing system provides:

- All-in-one conveying, spraying and curing capability.
- Accommodations to handle a variety of part sizes and shapes.
- Touch screen control panel for manual or automatic operation.

[www.finishingbrands.com](http://www.finishingbrands.com)

### Devilbiss Expands DeKups Disposable Cups Line and New Spray Gun

Finishing Brands, manufacturer of Devilbiss industrial spray finishing equipment announces that the Devilbiss DeKups line has added a new 3 oz cup, as well as expanded the filter and adapter offerings.

Devilbiss DeKups:

Increase productivity and efficiency through:

- Less cleaning — only clean gun fluid passage
- Reduced step — mix and spray with one cup
- Sealed, contamination-free system — for clean paint jobs
- Less exposure to cleaning solvents and VOCs
- Storage of unused paint right in the cup — reducing paint waste

Are designed for durability and performance:

- Liner collapses evenly
- Multiple cup sizes and filter options

- Positive locking connection
- Convenient self-dispensing packaging

Meanwhile, the AGMD Pro is the newest Devilbiss automatic spray gun. It uses Devilbiss' LVMP (Low Volume Medium Pressure) Compliant Atomization Technology and provides:

- "Pro" high performance front end technology with removable/replaceable baffle and air cap retaining threads.
- New radial clamping device with quick release cam operation from either side of gun — compact and convenient.
- Fast cylinder cycle at lower air pressures.
- Same "Tool Center Point" as original AGMD model.
- Certified air caps with indexing facility — suitable for waterborne and solvent base coatings.



Devilbiss has been providing innovative solutions to spray finishing problems for over 125 years and is recognized as the global leader in high quality atomization for industrial finishing.

### Innovative Plural Component Technology Made with the New Binks EMS

Binks, a global leader in finishing technology for industrial applications, has introduced a new innovative plural component system manufactured in the USA.

Binks delivers versatility, accuracy and savings for 2K operations with their new entry-level electronic plural component system. The Binks EMS (Electronic Mix Solutions) handles ratios from 1:1 to 100:1 with hardener flow rates as low as 2cc (0.07oz) per minute.

Binks EMS can be configured for up to 6 colors and two guns, with or without gun flush boxes. Material waste is reduced up to 60cc (2 ounces) on every color change. The programmable flush lowers solvent waste up to 65 per cent.

Binks EMS control system provides straightforward data entry, clear displays and simple functions on an easy-to-use keypad. New users need less training and the unit incorporates troubleshooting features.



KEY FEATURES:

- Control Enclosure: Mix, standby and flush modes. Efficient to use and easy to learn.





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## NEW PRODUCTS AND TECHNOLOGIES

- Dispense Pump: Precise dispensing as low as 2cc (0.07 oz) per min. Handles wide range of viscosities.
- Color Stack: Connects 2 to 6 resin colors. Programmable flush feature reduces solvent waste up to 65 per cent.
- Mix Manifold: Continuous flow mixing of two components, in a compact and material-saving design.
- Handheld Control System: Easy-to-use keypad with real time data on home screen. Additional screens show programmable flush options, calibration checks and help with troubleshooting solutions and storage for up to 40 alarms with date and time information.

[www.binks.com](http://www.binks.com)

### Binks Announces Foam Pigs for Piggable Systems

Finishing Brands, manufacturer of Binks industrial spray finishing and fluid handling equipment, is announcing the availability of new foam pigs for piggable systems.

Redesigned for 2014, Binks Foam Pigs feature:

- Flat nose design which pushes paint more effectively compared to traditional bullet nose designs which push paint to the edge and leave behind residue.
- Medium density foam construction manufactured in a silicone free manufacturing environment.
- Three sizes for fit most systems – 0.5", 0.75", 1.0".

[www.binks.com](http://www.binks.com)

### Binks Introduces New Gemini II Diaphragm Short Stroke Pump

Finishing Brands, manufacturer of Binks industrial spray finishing and fluid handling equipment, is introducing the new Binks Gemini II Short Stroke pump which features a new diaphragm design that reduces pulsation compared to the previous Gemini I model. The new Short Stroke pump also delivers 27 per cent more fluid per stroke.



Key features of the Binks Gemini II diaphragm short stroke pump include:

- Consistent spray pattern for high quality finish applications
- Reduced pulsation when compared to competitive product and Binks Gemini I Pump Series
- Multiple mounting configurations in Wall, Pail and Drum options to customize for specific applications.
- Up to 33 per cent more fluid per stroke with reduced air consumption and lower maintenance costs.
- Externally serviceable air valve

[www.binks.com](http://www.binks.com)



### Binks Cuts Into The New Maple Horizontally Opposed Piston Pump Series

Finishing Brands, manufacturer of Binks industrial spray finishing and fluid handling equipment, introduces the new Binks Maple horizontally opposed piston pumps.

Binks new Maple Piston Pumps' features include:

- The ability to handles troublesome and difficult coatings such as high solids, CARC, UV, moisture sensitive and shear sensitive coatings.
- Reliable operation backup seal to ensure pumping until a shift change.
- Simple to maintain Inspection hose indicates when it's time to replace bellows.
- Hydraulically efficient piston seals are always engaged.

[www.binks.com](http://www.binks.com)

### Binks Introduces New Pogo Plus Pump

Finishing Brands, manufacturer of Binks industrial spray finishing and fluid handling equipment, is introducing the new Binks Pogo II Pump. This new pump was designed for high volume transfer and spray finishing applications. The Binks Pogo Plus is available in a ready to use outfit with the new Binks Trophy Series spray guns.



The Binks Pogo Plus features:

- Patented air motor design
- Quick change-over and reduced pulsation
- up to 500 psi maximum pressure
- 5 year limited warranty

[www.binks.com](http://www.binks.com)

### Binks Proposes How To Work Smarter with the New Smart Piston Pump

Finishing Brands, manufacturer of Binks industrial spray finishing and fluid handling equipment, introduces the new Binks Smart Piston Pumps. The Binks Smart series lowers

# Take a Powder to Louisville!

## March April Issue



**Double Show Issue Show Issue:** Bonus Circulation  
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running costs and delivers optimum operating performance using electric instead of compressed air.

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- **Horizontal Short Stroke Design:** Equal thrust on both pistons provide identical flow and pressure for both strokes. Permits a higher cycle rate than conventional vertical pumps and thus more flexibility for paint flow range.
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- **Fluid Seal:** Piston seal is lubricated by paint on both sides, increasing seal life. This design means no external paint leaks when seal needs replacement.

[www.binks.com](http://www.binks.com)

### Binks Features Trophy Gun Series with New Extension Options

Finishing Brands, manufacturer of Binks industrial electrostatic finishing equipment, offers the new Binks Trophy Gun series of manual, touchup and automatic spray guns along with new extension options. Key features include:

- HVLP, LVMP and CONventional technologies, providing optimal air cap performance while meeting environmental requirements.
- Pressure, Gravity and Siphon models, designed to be lightweight and comfortable to use. Wide range of configurations for a variety of applications.
- Fewer gun parts for reduced maintenance, downtime and inventory requirements.
- Long-wearing fluid component application to reduce cost of ownership and maintenance.
- Extensions available for more coating application options; new 26-page catalog now available.

[www.binks.com](http://www.binks.com)



### Ransburg Showcases New 9060 Power Series

Finishing Brands, manufacturer of Ransburg industrial electrostatic finishing equipment, offers the newly introduced Ransburg series of 9060 power supplies. The new Ransburg

9060 Power Series come with:

- High and low voltage power supplies for electrostatic applicators.
- Onboard I/O interface circuitry, analog and digital.
- User friendly digital displays.
- Choice for high voltage or low voltage units.
- Ability to easily upgrade existing systems.

[www.ransburg.com](http://www.ransburg.com)



### Ransburg Showcases New Aerobell 168 Rotary Atomizer

Finishing Brands, manufacturer of Ransburg industrial electrostatic finishing equipment, introduces Ransburg 168 Rotary Atomizer.

Ransburg's Aerobell 168 Rotary Atomizers include:

- Adapters available for many types of mounting configurations.
- High performance bell cups and shape air configurations.
- External/Internal cup wash.
- Reliable fiber optic transmission of rotational speed data.
- Robust, proven air bearing turbine design.
- Optional DualFlex shape air technology.
- Wide range of mounting configurations.

[www.ransburg.com](http://www.ransburg.com)

### MicroPak 2e

Ransburg, a global leader in finishing technology for industrial applications, has enhanced its line of process controls with the MicroPak 2e. The Ransburg MicroPak 2e Controller provides proven control to keep systems running at peak performance. The system uses a combination of high voltage generation technology and microprocessor-based control for diagnostic and communication functions.

The MicroPak 2e is the perfect companion for Ransburg applicators including the company's latest 500 Series RMA Rotary Applicators. In addition, with its new simplified, stand alone and compact design, the unit greatly reduces cost and installation time.



Ransburg MicroPak 2e Features:

- Cold Fire Processor
- 12 digital Inputs
- 18 digital outputs
- 8 analog outputs configurable (4-20mA or 0-10V)

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## Corporate Profile Issue

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- 2 high speed encoder inputs
- Operational safety protections
- Simplified controls
- Simplified installation
- Ethernet IP communication

[www.ransburg.com](http://www.ransburg.com)

### New Air Caps Introduced For Binks Trophy Series Spray Guns

Finishing Brands, manufacturer of Binks industrial finishing equipment, has introduced two new air caps and additional configurations for the Binks Trophy spray gun series.

Now available through authorized Binks distributors, the 39-H (for HVLP) and 25-L (for LVMP) air caps are especially suited for the transportation and wood industries. These air caps provide a championship finish with basecoats, clearcoats, enamels, stains, toners, lacquers and other solvent-based or waterborne materials and low to high solids.


Constructed from anodized aluminum, Binks 39-H Trophy air cap is designed for use with metal, wood, general industrial and plastic applications. The pattern is 11"-13" long with straight sides and rounded ends. The 39-H is typically used for the pressure spraying of thin to medium viscosity materials, which require high quality atomization under HVLP pressures.

Also produced with anodized aluminum, Binks 25-L Trophy air cap is built for use with transportation, metal, wood, general industrial and plastic applications. The pattern is 11"-13" long with straight sides and rounded ends. This air cap is designed for pressure feed spraying of thin to heavy viscosity materials, which require finer quality atomization.

Binks Trophy Series brings a unique combination of a lightweight, ergonomic design with robust engineering for use with a wide variety of coatings in diverse applications. Trophy's engineering generates maximum atomization efficiency producing uniform pattern distribution and excellent transfer efficiency to deliver high finish quality.

[www.binks.com](http://www.binks.com)

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## “ au delà de la chimie”

Plus que des mots, notre devise représente la volonté d'offrir à nos clients et fournisseurs un service unique et inégalé.

Notre personnel de grande expérience tant dans le service à la clientèle, la vente, la réglementation, et le service technique, saura vous appuyer dans vos projets de développement. Notre laboratoire de R&D à la fine pointe de la technologie et constamment tenu à jour par l'ajout de nouveaux équipements qui sont un appui de taille pour l'intégration de nouvelles technologies dans vos lignes de produits.

La mission d'Inortech a toujours été de repousser les limites des possibilités actuellement offertes, pour offrir à nos clients et fournisseurs les solutions les plus innovantes et avant-gardistes du moment.

L'ensemble de notre personnel assiste à de nombreuses conférences, formations, et congrès, afin de se perfectionner et de confirmer leur dominance technique et leurs qualités humaines, tant reconnues par le marché.

Depuis maintenant 25 ans, Inortech n'a de cesse de donner à ses clients des occasions uniques de développement par l'appui technique incomparable qu'elle seule est capable de leur offrir. Pour nos fournisseurs, il s'agit d'une assurance de visibilité et de mise en marché hors pair de leur gamme de produit.

Pro-actifs dans l'industrie des encres, adhésifs, plastiques, et revêtements, attentifs et attentionnés aux problématiques modernes, la sélection de nos fournisseurs représente l'élite technologique disponible, et renforce la solidité ainsi que la longévité des liens qui unit Inortech à ses partenaires.

Ce lien nous rend extrêmement fier et nous pousse tous les jours à donner le meilleur de nous-même.

Afin d'être au plus près de notre clientèle, nous avons établi un réseau de stockage par l'utilisation d'entrepôts publics à travers le Canada, là où les besoins sont établis. De ce fait, nous offrons à notre clientèle la flexibilité et la proximité nécessaires à une époque où les délais sont un facteur clé de réussite tant pour nos clients que fournisseurs.

Maillon indispensable de réussite Inortech s'est toujours démarqué par une connaissance parfaite des besoins de ses marchés, de l'évolution technologique et commerciale actuelle, et s'adapte en permanence aux modifications incessantes de notre industrie.

Prête à relever tous les défis auxquels elle a été, est et sera confrontée, Inortech est l'atout incontournable de votre réussite, grâce à son modèle unique et avant-gardiste d'entreprise .

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More than words, this motto represents Inortech's “raison d'être”, always striving to give a unique and unparalleled service to our customers and suppliers.

The great experience of Inortech's personnel at the customer service, sales, regulatory and technical level will, without a doubt, enable you to successfully establish new technologies. Our laboratory is always maintained at the cutting edge of technology and we constantly make sure that the latest equipment is available. In doing so, we ensure outstanding support to our customers and suppliers.

Inortech's mission is always to push to the limit of the technologies offered by our suppliers and others for innovative and “avant garde” solutions.

In order to maintain our technology expertise and the excellent interpersonal skills so well recognized by the market we serve, all Inortech's personnel, without exception, are invited to go to conferences, congresses and to follow continuous formations.

For the last 25 years, Inortech has strived to help customers successfully secure new opportunities supported by the unparalleled technical team. Also, for our suppliers, we assure an outstanding visibility and an excellent market penetration.

Being proactive in the market we serve - coating, inks, plastic and adhesives - and being especially attentive to our customers' demands and problems, we always make sure that the selected supplier is at the cutting edge of their technology. This approach strengthens and guarantees a long and fruitful partnership with our customers and suppliers.

In this day and age, delivery on short notice and on time is a paramount asset for our customers and suppliers. Our Canadian public warehousing network helps us to make sure that our customers have the material when needed and on time.

Inortech's success has always been its outstanding capacity to understand new technologies and to be able to explain them to our customers. This forces Inortech's staff to always adapt and be on top of the ever-changing market conditions.

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