



# CFCM

CANADIAN FINISHING & COATINGS MANUFACTURING

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September 2009



## Distinctive By Design and Flatline

Jim Zoras posing in one of his Rosedale Classic kitchens in the Distinctive By Design showroom.

STORY BY SANDY ANDERSON  
PHOTOS BY PETE WILKINSON

**T**his is one family business that isn't going to let the struggling economy or recession take it down, instead Distinctive By Design (DBD) located in North York, ON, has expanded, bought new machines and diversified.

DBD has made its name by being a quality manufacturer of kitchens, but most recently is focusing on being a flatline finishing job shop.

"We would like to get more flatline finishing work," says president Jimmy Zoras.

### EXPANSION

The Zoras cabinet making business had humble beginnings in 1977 in a 1500 sq. ft. shop owned by George Zoras. Jimmy Zoras, his son, literally grew up in the business, getting involved when he was 16. In fact it was he and his father and one

*continued on page 14*

### ALSO IN THIS ISSUE

- Testing Equipment for Paint Manufacturing
  - Kitchen Cabinet Finishes
  - Energy Efficiency/Pollution Control
  - UV/EB Cure
  - Black Oxide
  - Trade Expo Info
- And More!

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## From the Ground Up

Diversifying is the way to go  
Case Study: Ground Effects, Windsor, ON

BY SANDY ANDERSON

**T**he city of Windsor Ontario was hit hard during the recession this past year, especially for those companies involved directly or even indirectly with the auto industry.

Gene Olivastri, Business Development Manager for Henkel Canada Corporation, who has been involved in the automotive area for over 20 years told CFCM, "This is the worst I have ever seen it (in terms of job loss and company closures)." Although he admits that automotive is looking up with the recent manufacturing boosts including the Camaro and Corvette.

This is why Ground Effects (GFX) story is so impressive. Instead of shutting down, this company is expanding, recently adding a sixth facility to its five already in Windsor. The company, owned by



Romeo Tilo loading lower trays onto the E-Coat line at Ground Effects in Windsor, ON.

Jim Scott, president and partner Ed Petryschuk, vice president, have diversified since its beginnings in 1986 and do everything from tube bending to manufacturing cabinets for restaurants, to coating with e-coat, powder and graphics.

Jim Scott is very hands on and gets personally involved in all

*continued on page 13*

### IN THE NEWS

#### Association News

#### NACE and PCI Form New Industrial Coatings Show

The Powder Coating Institute (PCI) and NACE International, The Corrosion Society (NACE), will be partnering to produce The North American Industrial Coating Show at the Indianapolis Convention Center, October 27-29, 2010.

The event will replace PCI's The Coating Show and NACE's CoatingsPro show.

The North American Industrial Coating Show will provide the industry with a new, compelling event to meet, learn and network. Attendees will include contractors, end users of paint and powder coatings, supervisory personnel, specifiers, formulators, and paint and equipment manufacturers. Educational courses will be offered in conjunction with the event and many will provide internationally recognized certifications.

#### CPCA Industry Conference, Two Days at the Falls

Niagara Falls seems to be a key meeting place for the paint and coatings industry this year, as the Canadian Paint and Coatings Association gears up for their Conference at the Hilton Niagara Falls-Fallsview, Sunday Sept. 20 and Monday Sept. 21, 2009.

*continued on page 5*



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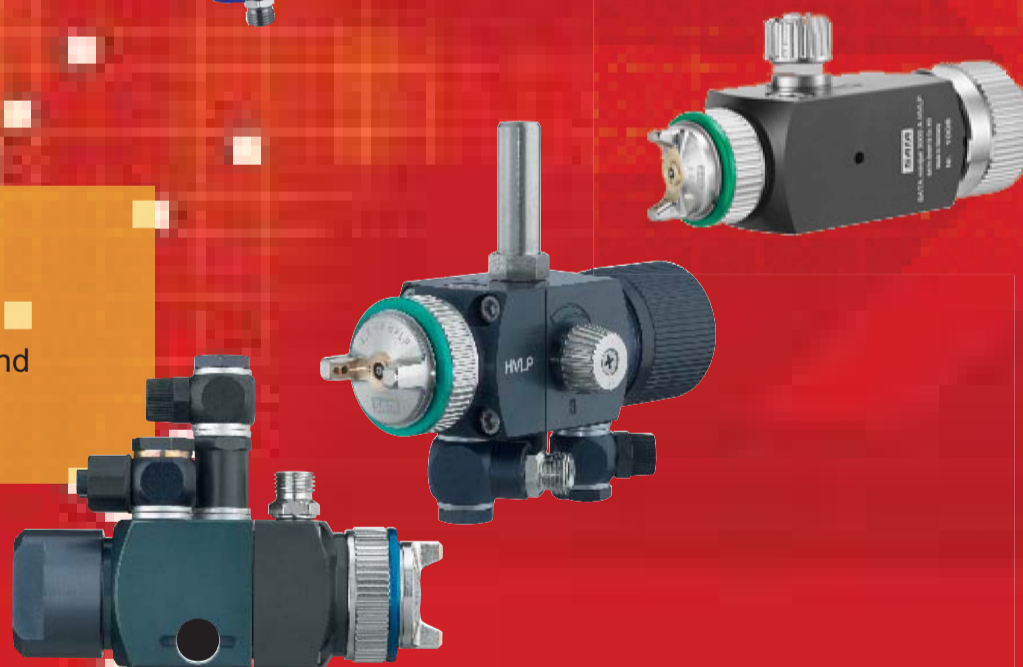


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# SATA

# Good Business

I have been a journalist since 1986. Four of those years were spent as a newspaper reporter and editor and the rest was in trade magazines. My favourite stories to write have always been the biographical ones, business profiles, case studies or tributes to people who have given their devotion to their industry and are now retiring. I like to visit a person and their business. You can tell a lot about a business in a face-to-face meeting...the condition of the shop or offices – is it bright with lots of natural light and bright colours or is it dismal? Do their employees seem happy or disgruntled? Have they been with the company for a long time or is there a high turnover and a lot of temps? Is the boss hands-on? Do they give back to the community in terms of local charities? Do they belong to their local business association or chamber of commerce or industry association and are they involved? Do they have open houses and seminars for their customers? Just the fact that someone invites us in, allows us to take pictures, spends a couple of hours with us and even in some cases shares a meal with us, says a tremendous amount about what kind of employer and business person they are. In my opinion a business represents its people and vice versa. I once had someone explain that they make a point of painting their facility shop in bright colours, have light shining in from large windows above, to keep their employees spirits up because happy people work better. So true. You just know a company like this is going to be fair and just with their customers, because they care. This is why I am so disheartened in my recent dealings with an upholstery company. When I hired them November 2008 to recover three pieces of 70-year-old unique family heirloom furniture, they were called by a different name. They exhibit in malls and County fairs. I wish now that I had given them one of my reporter interviews and toured their shop, but the salesman was so very good. According to a Better Business Bureau (BBB) report, dated August 6, BBB processed a total of 25 complaints about this company in the last 36 months. They are not an accredited business of the BBB and they have also had several other names. Perhaps when the number of complaints gets too heavy, they change their name. To top it all off, the internet is full of complaints about this company on various sites, all with stories remarkably similar to my own. In my story they took a chair and two sofas and \$1000, saying they would have it done by Christmas. They



Jimm Purdy, Ground Effects, Gene Olivastri of Henkel, and Sandy Anderson, CFCM, at the Ground Effects Hydragraphics Facility in Windsor, ON, displaying decoration by water immersion with the Bias Carbon White image on a Mustang Air Intake Plenum.



Marc Gagnon and Sandy Anderson at the Dempsey seminar in Toronto ON, June 15, 2009.

said I could get financing, then called after 10 days saying I didn't qualify. I asked them to do only the chair and return the sofas. They agreed. Eight months later, they are set to deliver back all three pieces, then call and say the truck broke down. Several weeks later they say they "misplaced" my chair. They blame disgruntled employees for the months of delay, not returning my phone calls and now the missing chair. They have never once let me speak to the owner or manager.

I have asked that they return my two sofas, return my deposit in full, compensate me for the lost chair, and give me a written apology. They have offered to give me a chair that has been lying around their shop, but they want to keep my deposit and I will have to pay to have it refinished. I refused. They then offered to return my deposit and my sofas if I sign a waiver stating they are not liable...no offer of being compensated for the lost chair and no apology. At presstime, this situation was still unresolved. The thing is, I shouldn't have to ask to be treated justly. Doing those things, doing right by your customers, is just the cost of good business. Good Business.

We welcome your letters and feedback.

**Sandra Anderson, Editor**  
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[www.cfc.ca](http://www.cfc.ca)

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Top of the agenda at this year's conference is, "The economy—and emerging regulations."

There are ample networking opportunities. After-hours activities include a Niagara Wine Tour, an 1812 Garrison Dinner and, back by popular demand, the Hospitality Suite.

Organizer's says this year's Conference will deliver more in fewer days; more value, smaller investment.

The hardworking CPCA Industry Conference Committee 2009 includes:

- Rick Duha, Committee Chair, The Duha Group
- Roula Hanna, Kronos Canada Inc.
- Robert Jacksteit, Bayer Inc.
- Steve Nuyten, L.V. Lomas Limited
- Doug Parsons, Home Hardware Stores Ltd.
- Geneviève Savary, Bayer Inc.
- Jim Quick, CPCA

The check-in and check-out dates are September 18 and September 23. They have been set on either side of the Conference to offer maximum flexibility.

Should you have any questions about registration, please call the CPCA at 613 231 3604, ext. 4.

[www.cdnpaint.org](http://www.cdnpaint.org)

### Montreal Society Golf Tournament

The Montreal Society for Coatings Technology held their 78th Annual Golf Tournament on August 28th at the Hemingford Golf and Country Club. Organizers are pleased. Stay tuned to future issues and online CFCM for photo highlights.

### Radtech 2010 Call for Papers

The Call for Papers is on for the RadTech UV& EB Technology Expo & Conference 2010, taking place, May 24-26, 2010 at the Baltimore Convention Center in Baltimore, Maryland USA.

The RadTech Technical Conference is the global platform for the newest developments in the UV and EB Curing industry presenting new applications and solutions to the global manufacturing community.

For more details and to submit an abstract, please visit

[www.radtech2010.com/callforpapers.html](http://www.radtech2010.com/callforpapers.html).

### Electrocoating Seminar Scheduled for Birmingham, AL

The Electrocoat Association and the Chemical Coaters Association International have joined forces to bring the finishing industry the 2009 Electrocoating Seminar, to be held at the Holiday Inn Birmingham Airport in Birmingham, Alabama on November 11-12, 2009. Day 1 of the seminar is designed to meet the needs of the industry on all levels by providing information for those new to electrocoating. An Introduction to Electrocoating will kick off the day. Industry experts will address the types of e-coat and where each is used, advantages and disadvantages of the technology and equipment considerations. The e-coat process from pretreatment through final cure will be discussed, covering environmental considerations, testing and troubleshooting.

Attendees will see an electrocoat system in operation at the end of Day 1 with a tour of Max Coating Inc.'s Birmingham facility.

After the tour, a networking reception will enable attendees to meet industry experts and ask questions specific to their company's needs while enjoying snacks and beverages.

The seminar program has been expanded to

include a second day for Advanced topics such as efficiency, reducing production and non-production costs and overall system effectiveness. Presenters will move through an ecoat system schematic, exposing typical areas of energy, waste and cost savings per component while also discussing ways to maximize efficiency through racking, enhancements, etc. Troubleshooting for defects that could possibly plague a system will be outlined, with examples of those most experienced. Once inefficiencies have been exposed, methods to retrofit or upgrade the system will be discussed. Day 2 ends with a Case Study scenario to prepare attendees to return to their businesses and implement their new knowledge.

Registration for Day 1 includes seminar presentations, networking reception, lunch and breaks, transportation to and from the plant tour and a copy of "Electrocoating: A Guidebook for Finishers" (a \$79 value). Registration fees are \$195 for CCAI & Electrocoat Association members. Fees for non-members are \$225. Day 2 – Advanced Session for only an additional \$100.

[www.electrocoat.org/seminar](http://www.electrocoat.org/seminar)

### Electrocoat Association Announces Annual Meeting

The Electrocoat Association 2009 Annual Meeting will be held in Nashville, Tennessee at the beautiful Gaylord Opryland Hotel and Convention Center, 2800 Opryland Drive on September 29, 2009. The Annual Meeting will begin at 5:00pm and dinner will follow. The Annual Meeting will be held in conjunction with Coating East '09.

The Annual Meeting is an opportunity for Electrocoat Association members to be involved in association business, network with industry partners and meet new contacts for future business.

For more information please visit

[www.electrocoat.org](http://www.electrocoat.org).

### ABRAFATI 2009

Having as its central theme "The Coatings of the Future", highlighting the latest research and innovations related to the sustainability of the production chain, ABRAFATI 2009 is mobilizing this industry's companies and professionals. The event, which will be held from September 23 to 25, 2009, at Transamérica Expo Center, in São Paulo, Brazil, will gather the 11th International Exhibi-

### Automotive Production in Canada Looks Up

The good news we are looking at this issue of CFCM has to do with the automotive sector.

Toyota plans to increase production of its Corolla compact model in Canada to meet North American demand. Bad news for US with the closure in March 2010 of a joint venture operation with General Motors in Fremont, CA means good news for Toyota Motor Manufacturing Canada as they plan to increase output of the Corolla at its Cambridge complex Fall 2009.

There is also speculation within the industry that Toyota may move production of another model from its Cambridge complex to the new plant in nearby Woodstock, which opened late 2009. The Corolla is one of the top selling cars in Canada.

Toyota also builds the Matrix crossover vehicle and the Lexus RX350 luxury sport utility vehicle in Cambridge, ON, and the RAV4 sport utility vehicle in Woodstock, ON.

Toyota has surpassed GM as Canada's biggest automaker for the first half of the 2009.

Meanwhile, in other good news Chrysler factories are reopening as the Italian Fiat SpA takes control. This includes plants Brampton and Windsor Ontario. The new owners want to develop new environmentally friendly, fuel-efficient, high-quality vehicles. The new company starts life with hundreds of fewer dealerships, a reduced debt load and lower labour costs. Fiat will initially hold a 20 per cent stake in Chrysler, which could eventually grow to 35 per cent on certain conditions being met. Fiat cannot acquire majority control of Chrysler until all public funds are repaid.

The Windsor plant is starting a new right side drive Grand Voyager Touring Chrysler minivan for Europe as Fiat is planning a big marketing push to sell minivans there.

The Windsor minivan plant is beginning production of right-hand-drive diesel versions of one of the auto maker's most successful products, with a goal is to sell 30,000 units annually.

Also a third shift has been restored at the Cami Automotive Inc. jointly owned by Suzuki and General Motors in Ingersoll, ON, where the next generation Chevrolet Equinox and the all new GMC Terrain are built. GM also advised employees that overtime for the hot-selling Camaro at the Oshawa, ON flex line will continue at least through to the end of October. The plant has been running steady overtime each Saturday since June to keep up with the demand and a backlog of customer orders for the Camaro.

The move is part of a broader push by General Motors to increase production by 60,000 vehicles in the second half of 2009 after a surge in sales ignited by the U.S. government's "Cash for Clunkers" incentive program.

Then there is shipbuilding, which is also good news for the coatings industry. Canada's shipbuilders have agreed to a radical change in the way contracts will be issued by the government. The federal government plans to spend \$40 billion over the next 30 years to build as many as 50 large ships, on top of the 70 ships under 1,000 tonnes that have been earmarked for revamps.

tion of Coatings Industry Suppliers and the 11th International Coatings Congress.

[www.abrafati2009.com.br](http://www.abrafati2009.com.br)

### Polyurethanes 2009 Technical Conference Set for October

Renewable content, regulatory compliance and improved materials performance are among the issues that global producers of polyurethane-based coatings and elastomers will find covered during 20 technical presentations and special-issue sessions at the Polyurethanes 2009 Technical Conference, Oct. 5-7, 2008, at the Gaylord National Resort & Convention Center near Washington, D.C.

Sponsored by the Center for the Polyurethanes Industry (CPI) of the American Chemistry Council (ACC), this year's conference will include more

than 80 technical papers, as well as several poster presentations, educational seminars and the annual Polyurethane Innovation Awards.

[www.americanchemistry.com/polyurethane](http://www.americanchemistry.com/polyurethane).

### Congress On Cleaning Within The Production Process Not To Go Ahead

The parts2clean Congress that was due to be held for the first time on October 19 and 20 in Stuttgart, Germany has been cancelled due to budgetary reasons. The COROSAVE international trade fair for corrosion protection, preservation and packaging at the Stuttgart Exhibition Centre, Oct. 20-22, 2009 is still on. So is the parts2clean Leading International Trade Fair for Cleaning in the Production Process and Maintenance Held at the same time, same place.

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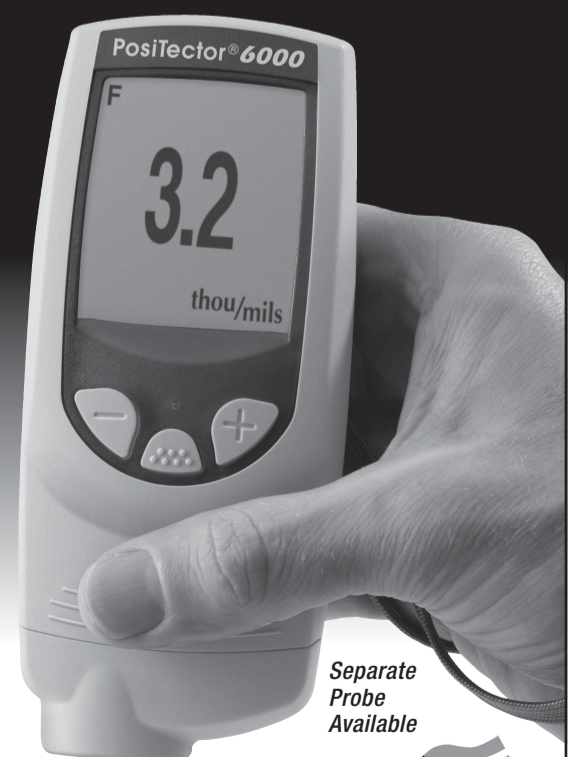
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## Planning Underway for SurFin 2010

The stage is set for Sur/Fin 2010 in Grand Rapids Michigan, June 15-16. Taking place at Devos Place, Grand Rapids, Michigan, show dates and times are Tuesday June 15 from 10 am to 6 pm and Wednesday June 16 from 10 am to 4 pm. SUR/FIN's Technical Conference gets better each year and networking opportunities abound.

[www.nasf.org](http://www.nasf.org).

## Pricing Updates

(Prices are in US dollars unless otherwise stated.)

### Celanese Announces Acrylate-based Emulsions Price Increase in North America

Celanese Corporation, a leading chemical company in emulsion polymers, recently announced that it will increase the price of all acrylic-based emulsions in North America effective September 15, 2009, or as contracts allow. Pure acrylic emulsions will increase by \$0.06 per wet lb. and vinyl-acrylic emulsions by \$0.02 per wet lb. This increase affects all applications including, but not limited

to, adhesives, paint & coatings, paper, nonwovens and textiles. Customers should contact their Celanese sales representative for more details.

### DSM Powder Coating Resins Increases Prices

DSM Powder Coating Resins has increased prices up to \$0.07/lb. depending on the grade, for its range of Uralac powder coating resins sold in North America effective for all orders shipped on or after August 1, 2009, or as contracts allow.

### BASF Announces Price Increase

BASF has increased its prices by up to \$0.10 per dry pound in the United States and Canada on all Butonal and Butofan styrene-butadiene high and medium solids latex products used in the adhesives, carpet, construction, fiber bonding, automotive and foam markets. The company has also increased its prices by up to \$0.10 per dry pound in the United States and Canada for all Styrofan and Styronal styrene-butadiene latex products

used in the adhesives, architectural coatings, sealants, construction, paper and nonwovens markets. Increases were effective August 1, 2009, or as contracts allow.

Effective July 1, 2009, or as contracts allow, BASF increased its off-list prices in the United States, Canada and Mexico by \$0.03 per pound for 1,4 Butanediol (BDO), Tetrahydrofuran (THF), Poly-THF Poly(tetramethylene ether)glycol, gamma-Butyrolactone (GBL) and N-Methylpyrrolidone (NMP).

Also effective July 1, 2009, or as contracts allow, BASF increased list and off-list prices in the United States, Canada and Mexico for all grades of NEOL Neopentylglycol by U.S. \$0.05 per pound. Neopentylglycol is used in the production of plasticizers, paints and plastics.

### Cytec to Increase Price of Powder Coating Products

Cytec Industries Inc. has implemented a price increase for all powder coating products including

Crylcoat, Additol and Modaflow. The price increase was applicable for products shipped in North America on or after August 1, 2009, or as contracts allow. The price increase will vary from \$0.03 to 0.07/lb. depending on the impact of each specific raw material.

### Price Increase For UCAR Emulsion Systems & Monomers

UCAR Emulsion Systems & Monomers announced that effective July 1, 2009, or as contracts allow, it increased the off-list prices of its Acrylic Monomers products in the Americas. Glacial acrylic acid increased \$0.08/lb., ethyl acrylate increased \$0.08/lb.; and butyl acrylate increased \$0.08/lb.

### Pilot Chemical to Increase Prices

The Pilot Chemical Co. has increased list and off-list prices and additional TVAs, effective July 1, 2009, or as contracts allow, on several products. Aristonate sulfonates increased by 2.0 – 4.0 c/lb. Aristonic acids increased by 3.0 – 4.0 c/lb. Calamide alkanolamides increased by 1.0 – 1.5 c/lb. CalBlend performance blends increased by 1.0 – 2.0 c/lb. Calfoam alcohol and alcohol ether sulfates increased by 3.0 – 10.0 c/lb. Calimulse emulsion aids increased by 2.0 – 11.0 c/lb., and some have additional TVAs of 1.0 – 5.0 c/lb. Calsoft flaked sulfonates increase by 12.0 – 15.0 c/lb. and have additional TVAs of 5.0 – 8.0 c/lb. Calsoft sulfonates and sulfonic acids increased by 2.5 – 14.0 c/lb., and some have additional TVAs of 1.5 – 5.0 c/lb. Calsuds detergent concentrates increased by 2.0 – 3.0 c/lb. Pilot Chemical's specialty products increased by 3.0 – 11.0 c/lb., and some had additional TVAs of 5.0 c/lb.

### Dow Oxygenated Solvents to Increase Prices

The Dow Chemical Co. announced that it will raise both the list and off-list prices for several Oxygenated Solvents products in North America effective July 1, 2009, or as contracts allow. The company says this increase is driven by the continuous cost escalation of the key raw materials used to manufacture products.

### OMNOVA Solutions Announces Specialty Chemicals Price Increases

OMNOVA Solutions' Specialty Chemicals business has increased prices of up to \$0.10 per dry pound for all GenFlo, GenCeal, OMNABOND, GenCryl and GenCal styrene butadiene-based emulsion polymers. The increase was effective July 1, 2009, for all specialty markets including coatings, tape and adhesives, nonwovens, floor care and construction. The company says the increase is necessitated by the continuing escalation in oil-related costs including freight, energy and petroleum-based chemical feedstocks.

### LANXESS Increases Prices for Basic Chemicals

Effective immediately, the Basic Chemicals business unit of specialty chemicals company LANXESS is increasing its prices worldwide for its entire product portfolio by a minimum of 7 percent.

### EPS-Materials Announces Price Increases

As a result of rising feedstock costs, EPS-Materials has announced a price increase of 5 cents per

# 10

## Reasons to Advertise

1. Advertising establishes contact.
2. Advertising builds preference.
3. Advertising educates and develops prospects.
4. Advertising reduces cost of sales.
5. Advertising helps sell existing customers more products and services.
6. Advertising helps close the sale.
8. Advertising saves time for both you and your customers.
9. Advertising keeps you top of mind.
10. Advertising works!

## November/December 2009 Editorial Lineup

### Plating and Anodizing

Manual Plating Lines  
Dip Spin  
Vapour Deposition PVD & CVD

### Paint and Coating Manufacturing

Waxes and PTFE  
Biocides, Algaecides, and Preservatives

### Industrial Finishing

Air Pollution Control  
Paint Kitchen Design  
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# CFCM

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pound on all latex acrylic and styrene acrylic emulsions and a price increase of 2-10 cents per pound on solvent based resin products depending on the product family. The price increases will be effective on Aug. 17, 2009.

## Company News

### Enthone Buys Westbrook



Ken Westbrook, principal owner and Bruce Girard, CEO of Westbrook Technologies are joined by Terry Copeland (right), Vice President, Enthone Americas at the signing in July.

Enthone, a business of Cookson Electronics, has acquired select assets of Westbrook Technologies Inc. headquartered in Scarborough ON. Enthone has bought the exclusive rights and knowledge to all Westbrook intellectual property as it relates to the surface finishing industry. The asset acquisition substantially expands Enthone's market presence throughout Canada, while further strengthening its portfolio of corrosion resistant coating for the surface finishing industry.

Prior to the acquisition, Westbrook was the Enthone distributor in Quebec and Ontario, since 2004. Incorporation of the Westbrook product line into the Enthone operations is currently underway.

### ALTANA Acquires Water Ink Technologies

The specialty chemicals Group ALTANA has entered into an agreement to acquire the North American company Water Ink Technologies, a producer of water-based and UV inks, coatings and varnishes. Among others, these applications are used for packaging printing and labels. In addition, Water Ink Technologies provides extensive customer service through several mixing stations in the United States and Canada.

Water Ink Technologies will be integrated into the ACTEGA Coatings & Sealants division under the new name ACTEGA WIT. The existing Water Ink Technologies management team, under the leadership of Michael C. and Patrick S. Hague, will continue to run the operations also under the roof of ALTANA.

Meanwhile, ALTANA posted considerably lower first-half sales and earnings than in the comparative period of the previous year on account of the worldwide economic crisis. In comparison with the preceding first three months of 2009 the sales performance in the period April to June showed a positive trend; it was not possible, however, to offset the very weak first quarter of the business year. In total, ALTANA recorded significant losses in sales and earnings in the first six months of 2009. Sales decreased by 25 per cent to €41.0 million, down from €716.8 million in the same period a year ago.

### Dominion Colour Corporation Announcements

DCC Europe: Dominion Colour Corporation is pleased to announce that it met the requirements of REACH, DCC established DCC (Europe) Ltd. based in Manchester, UK. EC Pigments: In June 2009, DCC acquired the customer lists, brand names and product formulations of EC Pigments (UK) Ltd. The brand names of the products purchased are Eljon and DyeCom.

### Rona set to unveil new paint stores

Rona Inc., Montreal, QC, plans to unveil a new specialty paint store concept this fall in Quebec that will be expanded across the country as it begins to prepare for growth.

The home improvement retailer will open three test locations this fall in Montreal focused on paint and interior decorating products.

The concept would then expand in 2010 to 2011 to Ontario and Western Canada.

The company doesn't expect the stores to eat away existing Rona sales, stating that dealers are interested in improving their market share.

Rona's aim is to take on Colour Your World or Benjamin Moore, but will focus on smaller regional stores.

These new growth plans are part of Rona's

## Annual Dempsey Seminars A Success

Dempsey Corporation held its yearly seminars across Canada again in June, in Toronto Montreal and Vancouver.

"This event is directed toward our customers and we had a lot of success since 2003," says Marc Gagnon, Corporate Technical Director, Dempsey Corporation.

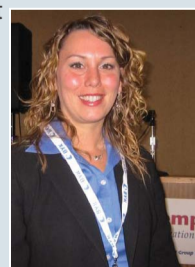
Breakfast and lunch was included as the seminars ran from 9:30 to 4 pm.

At the Toronto event, Greg Turco, BASF, spoke about direct to metal coating, waterbased radiation curing coating and 2K Polyurethane coating. John Du, BYK, spoke about surface wetting and flow controlling additives and wetting and dispersion stabilization, adhesion promoting additives. Amanda Adams, Halox spoke about anti corrosion flash rust inhibition and tannin stain protection. And Mike Venturini, Silberline, explained water based technologies and Starbrite the mirror-like finish.

Kera Pesall of Dempsey who helped organize the event explained that the seminars allow Dempsey as a distributor to bring in a representative from their suppliers for one day and reach all of their customers, explaining the new products and what they do. All three seminars were very well attended.



Dempsey seminar attendees listen intently.



Amanda Adams, Halox.



John Du, BYK.

second phase of its strategic plan, which includes the acquisition of profitable independent dealers and commercial operations. The first phase involved cutting costs and improving productivity.

### W.T. Finlay Bridge Rehabilitation by Certified Coating Specialists (CCS)

Certified Coating Specialists Inc. (CCS), Burnaby, BC has begun the deck and paint rehabilitation on the W.T. Finlay Bridge in the City of Medicine Hat, Alberta, a town of 61,000 citizens. Located at the junction of Highways 1 and 3, it is the most south eastern city in Alberta, and is within easy driving distance of both the Saskatchewan and US borders. The Finlay Bridge was part of the original Trans Canada Highway, and remains the support structure for the main Shaw Cross Canada fibre optic cable.

CCS's Lead Abatement program will entail complete contained blasting using recycled steel grit abrasive blasting technology to clean and prepare the bridge for its new coating. The historic two lane monument will be coated with International Paint's, zinc, epoxy, urethane system. CCS strives to minimize the environmental impact associated with the application of coatings in all of their jobs by implementing their Environmental Stewardship Policy within their Quality Control Program.

The bridge is now more than 100 years old, and the following rehabilitation measures were deemed necessary:

- Deck replacement (asphalt and timber) as the

- current deck has passed its serviceable life,
- Painting to prevent further structural degradation of the steel on the bridge,
- Replacement of the sidewalk concrete panels,
- Replacement of the bridge guardrails with galvanized steel rails,
- And, blasting, powder coating and installation of metal mesh on the handrail lattice panels.

Although traffic has been disrupted the community has been supportive. CCS has been under way with the construction since June, with the rehabilitation expected to be complete in October.

### Certified Coating Specialists ranked one of Canada's fastest growing companies

Certified Coating Specialists Inc., ("CCS") Burnaby, BC has been ranked one of Canada's fastest growing companies in 2009 by PROFIT. Ranking Canada's Fastest Growing Companies by five year revenue growth, the PROFIT 100 profiles the country's most successful growth companies. Published in the June issue of PROFIT and online at PROFIT100.com, the PROFIT 100 is Canada's largest annual celebration of entrepreneurial achievement.

### iPhone Camera Meets Benjamin

#### Moore Fan Deck

Benjamin Moore has wedded its color authority to the technology of iPhones. On June 1, 2009 the company debuted "ben Color Capture," an iPhone application that, with the tap of a key, lets users

*continued on page 9*



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**Company News**

# Dynamix is "Moving on UP"

Metal Finishing and Pretreatment Chemical manufacturer and distributor Dynamix Inc. has moved to a new 8000 sq. ft. manufacturing, laboratory and warehouse facility in Markham Ontario.

The Dynamix company was launched in 2007 as a custom compounder for the plating and anodizing industry by principals Dennis Rogers, Stewart Tymchuk and Charles Morris, who have a combined 75 years industry experience.

"Our intention was concentrate on toll manufacturing, but customer demand forced us to expand the operation to include distribution for a variety of suppliers including Hubbard-Hall, Columbia Chemical, Electro Polish, Plating Process Systems, Metal Chem, Stone Chemical and Zinex," says Dennis Rogers.

In 2008 Dynamix acquired the intellectual property of Lumer of Canada and introduced a line of nickel and nickel/chrome products that they market throughout Canada, the USA and Mexico.

"Our customers are very pleased with the value and longevity of our products. We are able to offer a superior product at a great price because of our low overhead," says Rogers.

The new location is, Dynamix Inc., 91 Esna Park, Unit 7, Markham, ON, L3R 2S2, Phone 905-447-0900, Fax 905-477-0600.



Janice Jacula titrates a solution in the Dynamix lab.



Geri Winsor is hard at work moving the product.



A view of the new warehouse.



Stewart Tymchuk chats with Dennis Rogers.

**Association News**

# Kentucky SUR/FIN 2009

SUR/FIN 2009, organized by the National Association for Surface Finishing, held a successful event June 15-17, 2009, at the Kentucky International Convention Center, Louisville, Kentucky. Here are some photo highlights.

Photos by Pete Wilkinson



Gino Latoria, Empire Buff Laval QC and Gene Torcoletti, Atotech Canada, Burlington ON.



Derek Vachon, Brenda Fleming, Shirley Immonen, and Ken Lemke, Canadian Finishing Systems, Burlington, ON.



Herb Robey and Andrew Harvey from Cyanide Destruct Guelph and Barrie Ontario.



Joe Brinkman and Peter Forth, JBC Ltd. Chatham ON.



Ricardo Guthrie and Denzel Brown LiquidMix Agitators Coe Hill ON. flank Allan Kleimer Applied Thermal Technologies.



Mike Beatty Eco-Tec, Pickering, ON.



William Matheson, Duraflow, and Bunker Crawford, Kontek, Burlington, ON.



Larry Wozniak, Ashley Farrell and Paul Lomax, Fischer Technology.



Rebecca Berry, Process Electronics Corp.

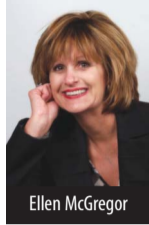


continued from page 7

snap a picture of any color and instantly match it to one of the more than 3,300 hues in Benjamin Moore's color system.

### Perfect Chemistry: Fielding and Phancorp

Ellen McGregor, President & CEO of Fielding Chemical Technologies Inc. and Isabel Alexander, President & Founder of Phancorp Inc. recently announced that Phancorp will merge with Fielding to provide Cradle to Cradle Care of Chemicals. Fielding is Canada's largest and most accredited refrigerant reclaiming and producer of recycled chemicals. Phancorp is a leading global chemical wholesaler specializing in sourcing, procurement, distribution and logistics.



Ellen McGregor

"This merge is our response to a growing market demand for green, yet cost effective products and services," says McGregor.

"Our combined capabilities will provide customers with a unique partner to meet their chemical needs – from sourcing virgin chemicals to providing the greenest choice to re-purpose chemical waste and everything in between," says Alexander.



Isabel Alexander

Phancorp will relocate from its Brampton offices to the Fielding offices in Mississauga and will operate under the Fielding name. The transaction is expected to close August 1, 2009.

### Cytec Sees Q2 Loss, But Debt Reduced

Cytec Industries Inc., Woodland Park, NJ, a specialty chemical manufacturer, announced a \$24.8 million net loss for the second quarter of 2009. The net loss for the past six months was \$24.9 million. However, the company has reduced its outstanding debt by \$95 million in Q2 and by \$110 million in the year to date.

### People On The Move

#### Viking New Western Manager

Viking Pump Canada has appointed Joe Toy as the West Regional Manager responsible for the sales and operations in Western Canada.

Toy has been an integral part of the Viking Pump Canada team for 23 years in several sales and management roles including his previous role as Manager of Customer Service & Applications Engineering. He will be relocating from the Windsor Head Office to the Regional Office in Edmonton, Alberta.

#### Para Paints Strengths Leadership with New GM

Earlier this week, Para Paints officially announced the appointment of General Manager, Dennis Duda. Dennis brings an experienced edge to the leadership role at Para Paints. He has strong plans to strengthen the brand and ensure teams work closely for continued success and growth. Prior to joining General Paint/Para Paints, Dennis spent four years with I.C.I./Akzo Nobel as Director, National Accounts/Buying Groups, and the four years prior as Vice-President, Sales & Marketing for Selectone Paints. In the coatings industry

As one of the top paint brands in Canada, Para Paints is an industry leader with a steadfast commitment to the environment and a growing selec-

tion of eco-friendly products. Proudly Canadian since 1915.

### MacDonald named to lead Ashland's coatings additives industry group

Ashland Aqualon Functional Ingredients (AAFI), a commercial unit of Ashland Inc., has announced the appointment of Dale MacDonald as vice president of its coatings additives industry group.

MacDonald will be responsible for business management and strategy development, focused on driving growth of AAFI's coatings additives business globally. MacDonald joined Ashland in 1990 as a business development specialist in planning and development. In 1996, he became the director of sales for Ashland's Fine Ingredients business and was named vice president of Ashland Distribution's Midwest region in 2003. Most recently, MacDonald served as president, Asia Pacific, for Ashland Inc. and was based in Shanghai, China.

A native of Canada, MacDonald holds a Bachelor of Science degree in biology from Alma College, and an MBA from The Ohio State University. He also is a graduate of the Indiana University executive development program.



Dale MacDonald

### L.V. Lomas Limited Welcomes Jason Williams

Kevin Russell, President and Chief Operating Officer of L.V. Lomas Limited, is pleased to welcome Jason Williams to the position of Third Party Logistics Solutions Manager. Williams comes from a well rounded logistics background with broad experience gained from progressive roles in Supply Chain and Third Party Logistics companies.

He will aid in the promotion of L.V. Lomas'

Third Party Logistics solutions across all Strategic Business Units, and L.V. Lomas is confident that he will be an invaluable asset in accelerating the profitable growth of Third Party Logistics.

### Eliokem Appointment

Andrea Valenti has been appointed Global Oilfield Chemicals and Coatings Business Manager for Eliokem.



Andrea Valenti

Valenti has been with the company since 1986 as Sales Representative for Southern Europe and the Middle East at the time when it was still part of the Goodyear Tire and Rubber Industry. From 1992 to 2004, he acted as Area Manager for the Middle East, Europe and the CIS. In 2004, he was appointed Global Marketing Manager for Oilfield Chemicals, an office he will still hold together with his new assignment.

Prior to joining Eliokem, Andrea held various marketing and sales positions at Stanley Tools and Henkel, from 1980 to 1986.

Valenti graduated in Economic Science from the University Bocconi, Milan, Italy.

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L'équipe d'Inortech travaille sans relâche pour améliorer son service à la clientèle et augmenter la visibilité de nos fournisseurs dans les marchés que nous desservons : revêtements, encres, adhésifs et plastiques.

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# COATING EAST IN NASHVILLE

**COATING EAST 2009**, is set for September 30 & October 1 in Nashville, TN. Following the success of COATING WEST 2009 in Las Vegas in March, COATING EAST 2009 will showcase some of the popular and highly evaluated conference sessions from Las Vegas along side additional sessions and an exhibition of more than 100 exhibiting companies.

The event is in conjunction with the Electrical Manufacturing & Coil Winding 2009 Expo, and will be held at the Gaylord Opryland Hotel and Convention Center in Nashville. The Powder Coating Institute and the Chemical Coaters Association International are co-sponsors of the COATING EAST events with The Electrocoat Association, Porcelain Enamel Institute and the IRED Div of the Industrial Heating Equipment Association also providing sponsorship support.

The COATING EAST Keynote Address, scheduled for Thursday, October 1 from 8:00 – 9:00 AM will feature a team of Harley-Davidson staff members. A variety of special events will also be offered, including a virtual spray painting competition on the show floor and an evening reception and music from one of Nashville's talented bands. The conference program will conclude on Thursday afternoon with two outstanding plant tours. New for COATING EAST, both conference & exhibit only attendees will be able to register for plant tours. Both tours are limited, however, and will be available on a first-come, first-served basis.

## COATING EAST Exhibitors

as of Aug. 20, 2009

ACE Equipment Co.	446	Argon Masking Corp.	347	Cardinal Industrial Finishes	205
ACT Test Panel Technologies	335	Arkema Inc.	435	Carpenter Chemicals, LC	411
Air Power, Inc.	130	Atotech USA	203	Catalytic Industrial Systems	136
AkzoNobel	210	Automatic Systems Inc.	243	Chemical Coaters Assoc. Intl.	137
Alabama Washer & Oven Company, Inc.	323	AutoQuip, Inc.	305	Cincinnati Industrial Machinery	223
American Finishing Resources	428	Bethel Engineering and Equipment, Inc.	300	Clean Air Filters	443
		Bulk Chemicals, Inc.	306	Col-Met Spray Booths, Inc.	442
		Calvary Industries Inc.	235	Coral Chemical Co.	220
		Canadian Finishing & Coatings Manufacturing	135	Cordstrap USA	415

Custom Fabricating & Supplies	213
Datapaq, Inc.	343
Decoral System USA Corp.	201
DeFelsko Corporation	434
Diamond Vogel Paints	101
Dow Powder Coatings	310
DuBois Chemicals	349
DuPont Coatings Solutions	143
Echo Engineering & Production Supplies, Inc.	100
Eisenmann Corp.	302
Elcometer Inc.	315
Electro-Steam Generator Corp.	413
The Electrocoat Association	211
Endura Corp.	424
Epcon Industrial Systems, LP	404
EPSI	408
Exel North America	107
Filter-Doc Corp./ FD Services, Inc.	313
Fischer Technology Inc.	425
Fostoria Process Equipment, div. of TPI Corp.	129
Frost ET	447
Galaxy Associates, Inc.	423
General Fabrications Corp.	405
Global Finishing Solutions LLC	322
Halo Technologies, Inc.	304
Henkel	320
Hentzen Coatings Inc.	348
Herr Industrial, Inc.	421
The Hilliard Corp.	329
Infrared Equipment Div. - IHEA	227
Infratrol Manufacturing Corp.	410
Iowa Waste Reduction Center	149
ITW Gema	301
KCI Co., Ltd.	328
Keppel Seghers Inc.	121
KMI Systems Inc.	231
Koch Sons, LLC, George	214
Magic Rack/Production Plus Corp.	206
Metal Finishing Magazine	222
Midwest Finishing Systems, Inc.	331
Mighty Hook Inc.	221
Mighty Lube Systematic Lubrication	334
Nordson Corp.	316
North Mississippi Conveyor	110
Parker Ionics	200
Pneu-Mech Systems Mfg. LLC	308
Pollution Control Products Co.	436
Porcelain Enamel Institute, Inc.	229
Powder Coating	417
The Powder Coating Institute	401
Powder Parts Inc.	215
Powder-X Coating Systems, Inc.	309
Precision Quincy Corp.	437
Pretreatment Equipment Manufacturers, Inc.	117
Process Thermal Dynamics, Inc.	234
Products Finishing Magazine	346
Rapid Engineering LLC	204
Rapid Industries, Inc.	420
Red-Ray Mfg. Co., Inc.	102
Ritchie Automation	449
Shercon, Inc.	241
Southern Systems, Inc.	127
Sprimag Inc.	226
StockCap	422
Synder Filtration	326
TDC Filter, Inc.	412
Therma-Tron-X, Inc.	321
Thierica Equipment Corp.	217
Trimac Industrial Systems, LLC	409
Uni-Spray Systems Inc.	340
Uniontape	209
Vitracoat America Inc.	414
Vulcan Catalytic Systems	406
Wagner Industrial Solutions	427
Wisconsin Oven Corp.	236

**Coating East**  
a regional event **2009**  
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## Associations News

### WMS 2009, Reenergize, Retool, Reboot at WMS!

The Woodworking Machinery & Furniture Supply Expo puts you on the path to a brighter future while helping you meet the challenges of today. The 2009 expo and expanded conference is your single best source for education on strategies to operate smarter and leaner, add value to your products, help your business take advantage of online and new media opportunities and open doors to new markets.

Canada's leading woodworking and design shows offer joint registration and conference sessions.

Woodworking professionals can save \$10 by registering in advance of Canada's premier woodworking event.

Outstanding highlights of 2009 WMS include:

- The largest, most comprehensive education conference in WMS history, with sessions on...
  - \* operating in a down economy
  - \* driving more traffic to your Web site
  - \* lean manufacturing for the small shop
  - \* and much, much more
- Continuous demonstrations of woodworking equipment manufactured by internationally leading players, plus related tooling and software that can help you boost productivity and enhance your bottom line.
- A full array of furniture and cabinet supplies, including hardware, adhesives, finishing materials, components. Shop and compare dozens of new sources of supplies that can help you save time and money or add value to your products.
- A new Idea Center sponsored by the Canadian Woodworking Machinery Distributors Assn., showcasing novel materials from around the globe, technology trends and live demonstrations.
- Plus... free admission to IDEX NeoCon (Sept. 24-25) with your WMS badge.

WMS is supported by Canada's leading wood products trade associations:

- Canadian Woodworking Machinery Distributors Assn.
- Architectural Woodwork & Millwork Assn. of Canada
- Canadian Furniture Hardware Assn.
- Canadian Hardwood Plywood & Veneer Assn.
- Canadian Kitchen Cabinet Assn.
- Ontario Furniture Manufacturers Assn.
- Wood Manufacturing Council

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

### CWMDA Develops Idea Centre at WMS

The Canadian Woodworking Machinery Distributors Association (CWMDA) announced that its members will develop and participate in a new Idea & Innovation Centre on the exhibit floor at the Woodworking Machinery & Supply Expo, Sept. 24-26 at the International Centre, Toronto (Mississauga), Ontario.

The Innovation and Idea Centre, located in the main machinery hall, will include an auditorium where free demonstrations and educational workshops will be presented throughout the three-day event. The centre will also feature an all-new Materials Showcase in which attendees will be invited to view and touch sample of cutting edge materials including metals, textiles, glass, composites and more. Also, "How to Make Money on the Web," a free seminar presented by Tom Denison, VP of Vance Marketing Solutions, plus, use your EMS badge to attend IDEX-NeoCon Canada expo for free.

# UV.EB East set for the Falls

Organizers of uv.eb east are expecting a good turnout on October 20-21, 2009 at the Conference Center Niagara Falls, Niagara Falls, NY. 101 Old Falls Street, Niagara Falls, NY 14303.

## SHOW DATES & EXHIBIT HOURS

### Tuesday, October 20, 2009

6:00 PM – 7:30 PM (Reception & Exhibits in Same Location)

### Wednesday, October 21, 2009

9:00 AM – 10:00 AM (Breakfast & Exhibits in Same Location)

12:00 PM – 2:00 PM (Luncheon & Exhibits in Same Location)

## EVENT PROFILE

This two-day event takes place in the Fall of 2009 and consists of a conference and table top exhibition. A conference program divided into tracks based upon various UV & EB technologies will also be developed. Both the table top exhibition and conference program will focus on the user of adhesive, ink, composite, and coating technologies.

## ATTENDEE PROFILE

At uv.eb EAST 2009 booths will be visited by attendees from the following industries: Adhesives (PSA, Industrial, Assembly, etc.)

- \* Aerospace & Defense
- \* Building Products
- \* Commercial Printing
- \* Composite Applications
- \* Converting/Packaging
- \* Decorative Applications
- \* Electronics/Electrical Manufacturing
- \* General Manufacturing
- \* Industrial Finishing
- \* Metal Finishing
- \* Photoresists
- \* Plastics
- \* Screen Printing
- \* Wood Finishing
- \* UV Inkjet
- \* ...and more

## Show attendees Include:

- \* President/CEO/Owners
- \* Manufacturing Engineers
- \* Quality Control Managers
- \* Design Engineers
- \* Technical Directors
- \* Plant Managers

## Schedule of Events

Tuesday, October 20, 2009

2:00pm-7:30pm: Registration, followed by Intro to UV/EB Technology, NYSERDA Presentation and Reception & Table Top Exhibition.

Wednesday, October 21, 2009

8:00am-4:00pm: Registration, followed by Breakfast & Table Top Exhibition, Concurrent Conference Sessions before and after Luncheon & Table Top Exhibition.

October 20, 2009 Sessions

## INTRO TO UV/EB TECHNOLOGY

- \* Overview of UV Curing: Technology & Marketplace (David Harbourne, Fusion UV Systems)
- \* Overview of EB Curing Equipment (Rick Sanders, Energy Sciences Inc.)
- \* Presentation by Peter Douglas, Director of Energy Efficiency Research, NYSERDA

## October 21, 2009 Sessions

### UV CURING FOR WOOD FINISHING APPLICATIONS

- \* UV Coating – Eco-Friendly Solutions in Flooring Industry (Dong Tian, Armstrong World Products)
- \* Field Applied UV Cured Topcoats for Wood (Jo Ann Arceneaux, Cytec Industries)
- \* Presentation by (Chuck Gambino, Bayer MaterialScience)
- \* Mist Coating/Roll Coating (Jim Arvin, Dubois Equipment Company)
- \* Presentation by (Greg Smith, R&D Coatings)
- \* More Added Soon!

### UV/EB CURING FOR PRINTING & PACKAGING APPLICATIONS

- \* UV/EB Equipment for Printing & Packaging Applications (Steve Lapin, PCT Engineered Systems)
- \* Enhancing Dot Reproduction Reliability, Print Quality, and Printer Efficiency and Productivity Using UV/EB Technology (Randy Butler, Print-pack, Inc.)
- \* Unique Things UV/EB Chemistry Allows You to Do (Tony Bean, Sun Chemical)
- \* Food Packaging with UV/EB Curing (Albert Lin,
- \* Digital Printing: Coating Technologies on the Verge of a Revolution (Dr. Sascha Bernhardt, Hymmen North America Ltd)
- \* Sustainability and UV/EB Technology
- \* UV/EB Technology for Sign Making & Inkjet Applications
- \* More Announced Soon!

### UV/EB CURING FOR INDUSTRIAL APPLICATIONS: METAL & PLASTIC COATINGS

- \* The Economics of Sustainable UV Technology (Michael Kelly, Allied PhotoChemical & David Hagood, Finishing Technology Solutions)
- \* Case Study 1: UV on metal canisters (David Hagood, Finishing Technology Solutions)
- \* UV Lamp Configurations to Cure 3D Parts (Kevin Joesel, Fusion UV Systems, Inc.)
- \* Case Study 2: UV on Pipe and Tubing (Michael Kelly, Allied PhotoChemical)
- \* Optimizing Energy Efficiency: Timing Analysis of UV Curing Equipment (Paul Weyandt, Nordson UV)
- \* How To Successfully Implement a UV Project (David Hagood, Finishing Technology Solutions)
- \* UV Curing on Concrete Floors – Application Review (Pete Weissman, Quaker Chemical Corp.)
- \* Improving Surface Bonding and Curing of Cationic Inks by Atmospheric Plasma (Rory Wolf, Enercon)
- \* UV and UV Measurement: Overview and Terminology, Tips and Techniques for the Real World (Kevin Daly, Thomas Associates)

### UV/EB CURING FOR PHOTOVOLTAIC APPLICATIONS

- \* The Economics of Sustainable UV Technology in the Photovoltaic's Industry (Michael Kelly, Allied PhotoChemical)
- \* Presentation by Josh Oliver, Sartomer Company
- \* Presentation by Dave Savastano, Printed Electronics Now

# uv.eb East 2009

## Learn About UV & EB Coatings for Metal, Plastics & More

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**Association News**

# TOSCOT/OPA Golf Tourney

The sun shone brightly for a change this summer as 122 people took to the links for golf as the Toronto Society for Coatings Technology (TOSCOT) and the Ontario Paint Association (OPA) combined forces for the first time June 2, 2009, at the Ontario paint industry golf tournament held at Glen Eagle Golf Club in Bolton, ON.

Winners were: Lowest Team Score -10, R.M. Ferguson & Co. Inc.

Other winners were: Closest to the Pin (Male): Jim Speck; Closest to the Pin (Female): Lynn Lavoie; Longest Drive (Male): Andrew Jackson and Longest Drive (Female) Liz Wight.

A good day was had by all.

Photos by Pete Wilkinson



In photo from left: Jacqueline Moore presents the Winning team trophy to Andrew Jackson, Dave Jackson, Steve Nuyten (presenter), Fraser Base and Mike Cadden.



Harry Tappen, Tempo Aerospace.



Lynn Lavoie- Univar, closest to the pin centre with presenters Jacqueline Moore and Steve Nuyten.



Jim Speck, ProForm, closest to pin, with presenters Jacqueline Moore and Steve Nuyten.



Liz Wight- Home Hardware, longest drive, with presenters Jacqueline Moore and Steve Nuyten.



Andrew Jackson, RM Ferguson, longest drive, with presenters Jacqueline Moore and Steve Nuyten.

## TOSCOT TECHNICAL SYMPOSIUM - "2010 and Beyond"

The TOSCOT Technical Symposium set for October 29-30, 2009, is an excellent opportunity for paint and coatings formulators to learn about the latest technical advances and new product developments in all the major raw materials groups. The two day event takes place at the Crowne Plaza Casino Hotel at Niagara Falls-Fallsview, ON.

Although there was a challenge to get exhibitors due mostly to recession issues, the Toronto Society for Coatings Technology has an informative event lined up. There is still time to submit papers for the Symposium. Deadline for

paper submission is Sept 30, 2009.

Crowne Plaza Niagara Falls – Fallsview is a newly renovated Victorian Style Hotel Featuring Crowne's Sleep Advantage Program. TOSCOT Preferential rates will be distributed on a first come first serve basis. Fallsview Rooms at \$159.00 and Traditional Rooms @ \$129.00.

TOSCOT's slogan for the event is: **"BRING US YOUR FORMULATORS, YOUR INNOVATORS, YOUR CUTTING EDGE DEVELOPMENTS, AND WE'LL BE YOUR SPOTLIGHT"**

Contact Jake Jevric, [jjevric@lvlomas.com](mailto:jjevric@lvlomas.com), 800-575-3382 ext 669, [www.toscot.org](http://www.toscot.org), today to register.



### Company News

#### Demand For Functional and Barrier Coatings to Grow

The global market for functional and barrier coatings for paper and board was valued at \$3,778 million in 2007, growing at 3.1 percent, and is expected to reach \$4,561 million by 2014. Opportunities in the market are emerging in a number of high-growth regions and end-use sectors, according to a new study by Pira International.

The study, The Future of Functional and Barrier Coatings for Paper and Board, breaks down the market by product, end-use sector, region and country. It offers five-year forecasts to 2014. It reports biotechnology as showing some exciting results, with polylactic acid (PLA) and polyhydroxyalkanoate (PHA) showing particular promise, and starting to gain a market presence. The development of new curtain coating systems is also creating opportunities for manufacturers to add up to 10 different coatings at the same time. This could open up opportunities for new types of coating materials designed especially for this form of coating. Further developments in nanotechnology, plasma, liquid crystal polymers, enzymes, SiOx and AlOx, water-based barrier coatings, and fluorochemicals are investigated in the study.

#### Buyers Guide Oops

In the Company Listings section of the new July 2009 CFCM Buyers Guide, Russell Duncan was placed in error in the contacts section of Cefla's listing.



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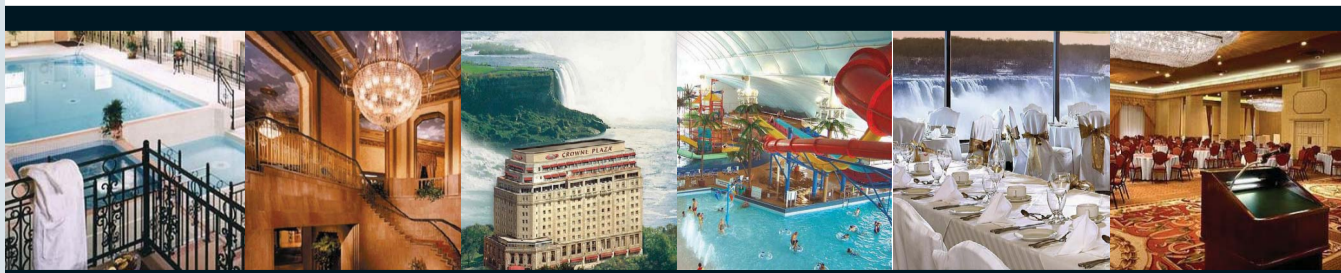
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Shopping Cart lower trays being immersed into Zinc Phosphate post seal rinse.



Shopping Cart Chassis traversing along E-Coat line overhead conveyor.

aspects of the operation. Ground Effects Ltd. is a TS16949 / ISO14001 Registered OEM supplier of exterior and interior accessories to the automotive, marine, ATV and furniture industries. Its state-of-the-art manufacturing facilities of over 250,000 sq. ft., produce a wide variety of tubular and extruded products, as well as decorated interior components for vehicles and furniture for commercial applications. Their customers include some of the world's largest automakers and restaurant chains, including General Motors, Chrysler, Toyota, Nissan, Ford, Infiniti, Lexus, MacDonald's and Dairy Queen.

In November 2008, Ground Effects bought Intec Manufacturing who exclusively worked with the company in coating parts. They took over their assets and employees, making for a smooth transition. This has become GFX Plant 3—a job shop for E-coat and powder coat. They call it a class “A” E-Coat and Powder Coat facility. It is 15,000 sq. ft. with two fully automated lines. The E-Coat line is an indexing 12-stage line, which uses the latest technologies in transferring paint to the

desired part. The variable speed Powder Coat line exhibits the use of a 6 gun automated Gema booth, which has a reclaim system incorporated, minimizing spray to waste.

GFX is still in the process of redecorating the facility and making changes. In the Plant 3 facility, there are currently 17 employees on one shift, with a second shift scheduled to start within weeks. All together GFX employs 200 in Windsor, which is an impressive number in a city with a double-digit unemployment rate.

Jimm Purdy, plant manager for the powder and graphics divisions says they are currently in a hiring position. The company did have a significant layoff of staff for six months due to recession issues, but all employees were recalled for a large contract that was recently awarded; the manufacturing, plating, chroming and powder coating of metal shopping carts for Home Depot and Target in Canada and US. GFX will soon manufacture the entire shopping cart not just the chassis. They are rebuilding the tooling from scratch.

When it comes to running the facility GFX believes in the “5 S's”, namely: Sort, Sweep, Straighten, Schedule and Sustain. “All the changes to the facility should be complete within the next

in a 2400 gal tank, then there is a halo rinse. The ninth stage is the e-coat and the last three stages are more rinses. Then the part goes off the index line into the oven. The whole E-coat line was custom built by the previous owners of the facility.

Only the controls of the amount of chemicals need to be changed when the metal to be coated changes.

“We used to coat 75 per cent aluminum and now it is the reverse”, says Purdy. The system can be switched easily, on a weekly basis if needed. The e-coat line is an overhead conveyor that goes around in a loop, up and back continuously. With very little floor space there is also no real storage capacity for inventory, so the parts come off the truck, go through the e-coat and paint processes and then back on the truck.

six months,” says Purdy.

There is not a lot of square footage in the Plant 3 facility, but they like it that way. The e-coat unloading is within feet of the powder coat loading area. The proximity of the lines allows process flow from receiving until shipping to be under 3hrs.

**PREWASHING**

GFX uses an 8-stage zinc phosphate washer in its e-coat line. Henkel worked with the company in designing what they needed. Stage one is Spray Alkaline Clean in a 600 US gal. tank at 3 per cent with Parco cleaner ZX-6. Two is Immersion Alkaline Clean in a 2,250 gal. tank with the same cleaning product. Three is Immersion spray rise in a 2,350 gal. tank, stage four is Immersion Condition Rinse in a 2,350 Gal. tank with Fixodine ZL. Stage five is Immersion Zinc Phosphate in a 2,250 Gal. tank with Bonderite 958RQ, Accelerator 131D and Additive KE Stage Six is an Immersion Spray rinse in a 2350 tank and stage 7 is Non-Chrome Seal Rinse in a 2350 tank with Parcolene 99x and Parcolene 6. Stage 8 is immersion in de-ionized water



Shopping carts entering into the 6-head automated ITWGema Powder Booth.

Ground Effects uses Henkel chemicals and paint. Henkel has an alliance with Dupont, selling their paints. With powder coat, there is an ITW Gema powder booth and spray booth. They also use Akzo Nobel, TCI, Protech and Rhom & Haas products.

Ground Effects can do any colour including a texture black and silver.

It only takes half an hour to change colours.

Besides the e-coat and paint lines, Plant 3 also has a lab, which is in the process of being redecorated and updated with a paperless system. Waste treatment is done in-house.

Purdy is proud of the company's newest e-coat and powder lines and is always looking for more work. He is optimistic about the future and, as is already proven, Ground Effects will change with the times. ■



Rosendo inspects the Cefla/Falcioni; control cabinet of model Kleenspray 12.

employee in the first shop. Several years and 20 employees later, Jimmy Zoras now owns and runs the 2003 rebonded DBD in its new 23,000 sq. ft. location. The showroom filled with a variety of luxury kitchen styles takes up 4500 sq ft. George is still involved in the business making drop offs and stopping by the shop for visits.

“He likes to stay involved,” says Jim Zoras.

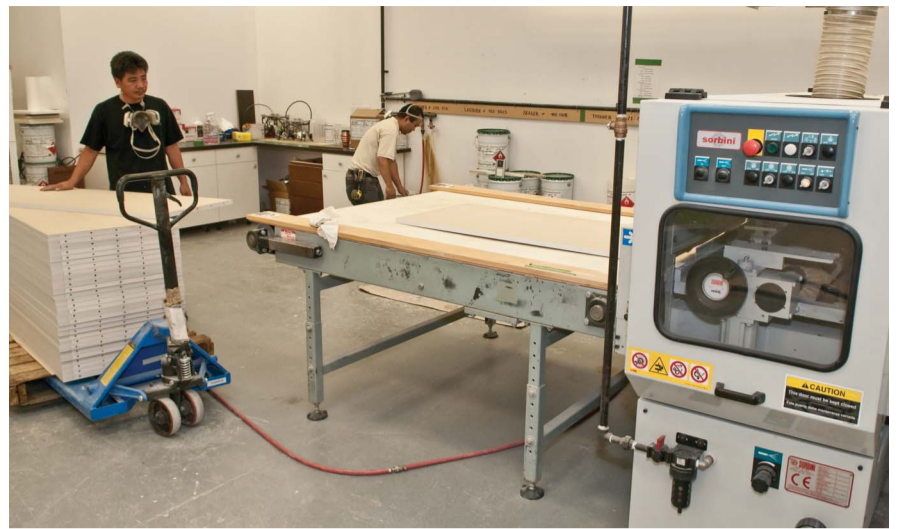
He says the company has done

most of its expanding in the last six years. Zoras has bought neighbouring properties and the refurbishing of the facility is ongoing. Their current location at 142 Bermondsey Rd. in North York, ON, used to be a furniture shop that went bankrupt.

**FLATLINE**

The biggest push in flatline finishing came in January 2009 for DBD. That’s when the new equipment was installed and ready to go. A denibber-sander was purchased, then an oven. When it comes to the flatline operation, DBD uses equipment supplied by Cefla. Zoras plans to go automated feed with new spray guns outfitted by Kremlin. The guns have different heads for stain, topcoat and primers. The Cefla-Falcioni spray-machine is a model Kleenspray and there is a Cefla-Sorbini denibber-sander, model SmartSand. Furthermore the line consists of a Cefla-Sorbini panel brushing/cleaning machine, model VS 32 and a Cefla infra red curing/drying oven.

The sequence in the process, is first the denibbing-sander SmartSand; then the panel brushing/cleaning VS 32; followed by the spray machine Kleenspray; and then last the infra -red curing/drying).



Limuel and Rosendo load the flat line finishing system.

The machine he has now is good for small-medium runs. Plans for the future involve automated staining.

“We’ve looked into the stain line,” says Zoras. “We are also trying to get into polyester finishes.” He says that polyurethane on the furniture especially under the kitchen cabinet where water damage may be a concern, makes for a stronger finish.

The company is currently working on a large job for an US department store, and hopes to focus on getting more flatline jobs as a way of diversifying from the more labour intensive kitchens. He currently has his staff on a double shift. DBD hires temporary staff when needed to complete large flatline jobs.

Zoras is pleased with the deal he got on the flatline machine because he bought it at the peaked Canadian dollar.

The whole workshop area is very bright with lots of natural light shining down from high windows.

**ENVIRONMENTALLY FRIENDLY**

Zoras is very in tune with making his operation environmentally



The Kleen Spray head assembly.

friendly. In fact his kitchens have been used in publicity TV spots for The Designer Guys and HGTV. For one show a completely eco-friendly kitchen was designed in the DBD facility.

The company currently uses solvent based finishes but have looked into other options.

“We’ve tested waterbased finishes,” says Zoras. “But I’m just not comfortable with where it is right now in terms of quality.” They use a variety of suppliers for their finishes, but mostly Akzo Nobel Wood Coatings.

However, he says the new Cefla product he is using is environmentally friendly. He is using heat right now for curing, but has the option of using ultra violet at the end of the line.

DBD works with all different types of wood, but specializes in Medium Density Fibreboard (MDF) due to its ability to take any type of finish. It is dense, flat, stiff, has no knots and is easily machined. Zoras is big on safety so his staff always wears the proper gear when handling MDF.

Zoras is optimistic about the future of DBD and is always thinking ahead.

“It has been a challenging year no matter what,” says Zoras, “But we have been busy straight through.”

DBD caters to medium to high-end customers. ■



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# The Quest for Nature



Photo supplied by Alcon Nobel Wood Coatings, Port Hope, ON.

Along with constantly asking about waterborne products, it seems only fitting that Canadian kitchen cabinet finishers should be going natural and maple.

BY SANDY ANDERSON

**W**hen looking into the trends concerning kitchen cabinet finishes, customers are demanding certain colour choices.

Eric Bertelsen, president, Clancy's Commercial High Performance Coatings London, ON, says, "Over the past few years we've seen dark stained wood and white painted finishes." He adds, "So far this year, the new trend seems to be medium stains on maple with dark glazes."

Mark Levesley, president, ICA North America, West Lorne, ON, says that although the bulk of their market is the United States, the trend he is noticing is "some demand for low sheens, the dead flat, natural look."

And then the other major trend is the quest for green, not the colour, but the technology.

## WATERBASE QUEERIES

When it comes to going green with waterbase coatings, kitchen cabinet finishers are consciously looking into it, but slow to grasp on. Toronto finisher, Jim Zoras from Distinctive By Designs for example, which has specialized in custom made kitchens for years, speaks for many when he says although he has looked into it, moisture can be an issue, especially for cabinets under the sink, and it is difficult to make the change from products that work so well. Finishers just aren't confident in the new products and technology yet.

"More and more customers are

asking for water based finishes," says Bertelsen. "The advantages for companies using these water based products include personal health benefits and less impact on the environment."

"Water-based technology is making an impact," continues Bertelsen. "Renner Wood Coatings is the freshest product we have seen." He says, "Renner has taken Italian/Brazilian technology and created a low to zero VOC formulation that is HAPS free."

"In Europe, waterbase products are very commonly used," explains Bertelsen. In North America, they

are not as common as the technology has not become as advanced as the Italian water based products."

"Finishers are ready to integrate into water based products, but need a solution that is equivalent or better than the solvent based products they are currently using." Bertelsen adds, "Now, with the arrival of Renner Wood Coatings in Canada, the

solution has become available."

Levesley admits, "There has been constant enquiries about water borne materials, but not much actual usage." He says the industry in North America is "Still way behind Europe and more reluctant to change."

"There is definitely a learning *continued on page 26*



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# Nepheline Syenite, A Clear Future

**F**unctional fillers based on nepheline syenite have seen tremendous growth in recent years as its unique characteristics are being discovered as useful in an increasing amount of paint and coating applications...most recently clear coatings.

## WHAT IS IT? BENEFITS AND APPLICATIONS

Nepheline syenite is a naturally occurring combination of feldspathic minerals—soda and potash feldspar, and nepheline—an igneous rock. Formed in a silica-deficient geological environment, the natural mineral is a low carbon, low crystalline silica rock. Most nepheline syenite deposits are gray, even dark with high iron content, but there are special ore reserves where iron and other impurities can be removed leaving a white or near white feedstock.

Unimin Corporation processes nepheline syenite to produce their



MINEX brand of functional fillers for paint and coatings applications.

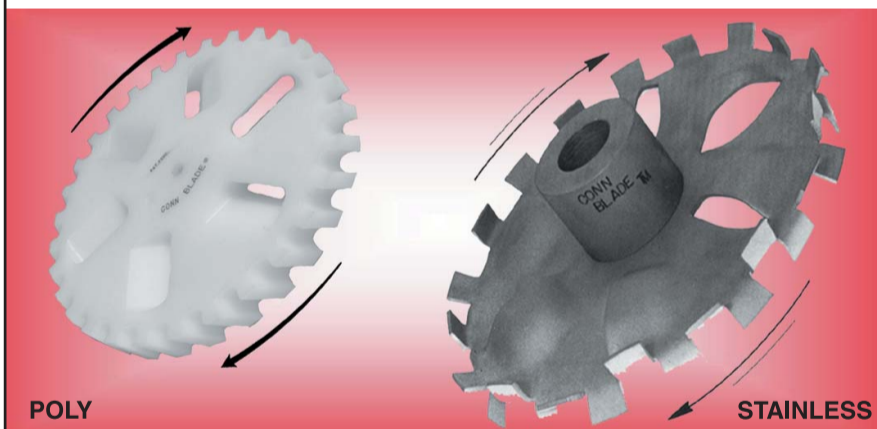
Frank Cangelosi, Unimin Marketing Director for Functional Fillers and Extenders explains, "If I look at our sales, MINEX has easily outpaced the North American coatings market growth. As a result, we have nearly doubled capacity for MINEX production in the past ten years." MINEX is produced in Canada and Norway, with the largest MINEX production centre in the world located north of Peterborough, ON.

The nepheline syenite fillers have low oil absorption, minimal viscosity build, physical durability, and photochemical stability, making it ideal for high solids, low VOC

waterborne and green or sustainable coatings. There is an increasing trend of nepheline syenite functional fillers in clear tint base coating systems due to desirable brightness combined with low refractive index. Nepheline syenite is an extremely low tint strength filler pigment with a slightly blue undertone instead of the typical yellow found with most silicate extenders, further enhancing coating brightness. New fine size distributions have been developed, expanding the application range of this product family. The unique light transmission and refractive index

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combination of handling, performance, industrial hygiene and color choices in their many products. The biggest seller is the intermediate grade MINEX 4, as it is the most versatile. MINEX is available in grades 2, 3, 4, 7, 10, 12, all processed in Canada. Coarser products are also available for textured or antiskid applications.

Unimin is always emphasizing research and development and technical service and continually looking into new grades and applications for the MINEX family. With the increased market requirement for durable clear coats, Unimin's newest nepheline syenite based product is MINEX 12 designed for clear applications. It has been on

the market for about a year.

"Mineral fillers have traditionally not been used in clear coatings," says Cangelosi. "For the first time a formulator can use a mineral filler that is cost effective and easy to incorporate in these systems. We see a lot of potential there."

Although processed in Canada, markets for MINEX are truly global, exporting mostly to the US, but also to Asia, Europe, South Africa, South America and more. It is a mineral product that can withstand long distance travel.

"Although you never know what future will bring," says Cangelosi, the future of nepheline syenite and MINEX manufactured in Canada is clear. ■

properties of the mineral, when processed in these ultra-fine sizes, tend to optimize clarity, surface hardness, loading, blocking, and gloss in clear finishes for wood, industrial and UV cure applications.

#### THE GREEN TREND

As the coatings industry continues to lean toward Green environmentally friendly products, MINEX follows suit.

"A big new trend is green formulating," says Cangelosi. He says the green benefits of MINEX functional fillers are:

They add physical durability including scrub and abrasion resistance to a coating. For exterior paints this means less coats and longer service life - in other words less repainting.

They can be used to partially displace hydrocarbon based resins.

They will restore hardness in low VOC paints and coatings, when manufacturers have to use softer resins to achieve low VOC objectives.

They are transparent to UV light and are compatible with environmentally friendly ultraviolet (UV) and radiation curing systems, actually accelerating the cure. Investigations are underway to better understand and fully exploit this unique behavior.

They are silica deficient but offer most of the performance benefits of silica-based fillers. "MINEX offers formulators a high performance solution with simplified labeling and handling requirements."

They are generally exempt from regulatory standards such as REACH, RoHS and TSCA.

#### CLEAR LOOK AT THE FUTURE

The use of nepheline syenite is well known by paint and coatings manufacturers who want to offer a good

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# Testing Trends

CFCM asked various suppliers of testing equipment to comment on trends.

BY SANDY ANDERSON

**M**anufacturers and distributors of testing equipment for paint manufacturing work hard to stay attuned to industry changes and customers needs.

Richard Northrop, Marketing Manager, DeFelsko Corporation, Ogdensburg NY says, "Customers are looking for ways to make their job easier. They are looking for easy to use gages with advanced features such as internal memory with built-in statistics and better ways to transmit readings - such as Bluetooth."

Greg Shrider, Vice President of Sales, BYK-Gardner USA, Columbia, MD says a trend that seems to be happening is mergers. "In reaction to many mergers and acquisitions, some companies are standardizing their testing procedures and equipment," says Shrider.

Another, of course is the quest for all things green.

"Green technology is definitely a trend within the Paint Technology area, where the certification of physical properties test equipment is growing," says Shrider.

Northrop says DeFelsko provides coating thickness gages that are advanced yet easy-to-use, enabling a manufacturer to have the process control without having to spend time and money learning or teaching others how to understand the instrument.

"Our product design team has a consistently open line of communication with our customer service team," says Northrop. "This means that the end-user of our coating thickness gages has the benefit of buying a product that they can be certain was designed with their needs in mind."

When it comes to developing new products, Northrop says their primary focus in is to find ways to easily and effectively measure virtually any application customers need to measure.

"We continually look for ways to improve the quality and technology of our products, while simultaneously meeting users' requirements for simplicity, durability and accuracy in a coating thickness gage," says Northrop.

Paul Lomax, Marketing Director, Fischer Technology, Windsor, CT, says, "Customers are asking for testing equipment to help control and monitor their processes." He continues, "They want to a solution that meets and satisfies their specific requirements. Furthermore, they want something that when they use it they can justify their purchasing decision on the results that it has on their bottom line."

"Customers are asking for extremely accurate instrumentation for both common and complex applications," says Lomax. "During economic downturns, it is even

more critical for a company to control their process. Test instruments help control these processes while tightening tolerances and reducing material costs."

Shrider says new instrumentation is being developed to measure mottling in paint manufacturing.

Testing Equipment Every Paint Manufacture Should Be Using

Northrop says coating thickness and adhesion are two of the major factors affecting the long term performance of coatings.

**Coating Thickness Gage:** Northrop says coating thickness is an important variable that plays a role in product quality, process control, and cost control. It is imperative to understand the dry film thickness of an applied coating. Coatings are designed to work best when applied at optimum thickness. Coatings that are too thick can lead to cracking while coatings that are too thin don't offer enough protection.

**Adhesion Tester:** For coatings to perform satisfactorily, says Northrop, they must adhere to the substrates on which they are applied. A variety of recognized methods can be used to determine how well a coating is bonded to the substrate. Commonly used measuring techniques are performed with a knife or with a pull-off adhesion tester. After any test it is important to record if the bond failure was adhesive (failure at the coating/substrate interface) or cohesive (failure within the coating film or the substrate). A more quantitative test for adhesion is the pull-off test where a loading fixture, commonly called a dolly or stub, is affixed by an adhesive to a coating. By use of a portable pull-off adhesion tester, a load is increasingly applied to the surface until the dolly is pulled off. The force required to pull the dolly off or the force the dolly withstood, yields the tensile strength in pounds per square inch (psi) or mega Pascals (MPa). Failure will occur along the weakest plane within the system comprised of the dolly, adhesive, coating system, and substrate, and will be exposed by the fracture surface.

Lomax says, "Every paint manufacturer should have a dry film thickness gauge." He continues, "Whether it be in the lab to evalu-

ate coatings or in the field in the hands of a technical sales person. Dry film thickness measurement is a critical part of the inspection and or evaluation requirements of paint manufacturers."

Shrider says that, "At a minimum paint manufacturers should measure: Density (Weight per gallon), Viscosity, Dispersion (grind gage), Color, Gloss, Opacity, Leveling and Sag.

## NEW TESTING PRODUCTS



New from DeFelsko Corporation is the PosiTest Automatic Adhesion Tester. The New PosiTest AT-A Automatic Adhesion Tester measures adhesion of coatings to metal, wood, concrete and other rigid substrates and now features an electronically controlled hydraulic pump. The new electric pump applies smooth and continuous pull-off pressure at user-selectable rates. Test with the simple push of a button. No twisting, pumping or cranking required.



DeFelsko Corporation has available the PosiTector 6000 with Bluetooth Wireless Technology. The popular PosiTector 6000 coating thickness gage for all metal substrates now includes Bluetooth Wireless Technology. Memory models allow you to wirelessly transmit readings from your gage to a Bluetooth compatible device up to 10 m away. Other features include large impact-resistant Lexan display, IP5X

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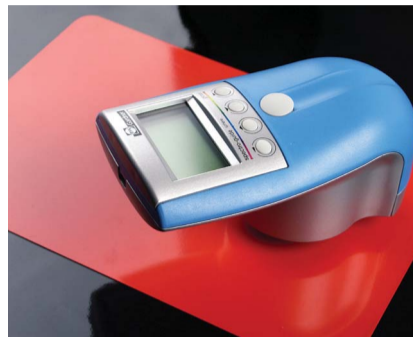
Fischer Technology has introduced a new series of coating thickness probes and instruments. The FMP Series allows end users to measure in hard to reach areas with a wide assortment of detachable probes. These probes are designed to measure thin or thick coatings, soft coatings, fire proof coatings, over rough surfaces, duplex coatings such as paint over top of galvanize, and even coatings under water. The Dualscope FMP100 allows the user to set up the instru-



ment and the report functions to meet their specific requirements. This includes company logos, user defined text and saving and exporting reports as pdf files.

New products that Fischer has on the Canadian market are: Dualscope FMP100, Dualscope FMP40, Isoscope FMP30, Deltascope FMP30, Dualscope FMP20, Dualscope MP0.

[www.fischer-technology.com](http://www.fischer-technology.com)



Spectro-guide by BYK is a new instrument that combines color and gloss measurement in one unit. The spectro-guide measures color (45/0 or sphere) and 60° gloss simultaneously in compliance with ISO, ASTM and DIN specifications. Color and gloss values are displayed together, making it easy to clearly determine the cause of a mismatch.

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#### THE FUTURE

Lomax feels, "The future of testing equipment includes the continued development of highly accurate instruments that also yield efficiency and reduce mistakes in the documentation of the readings." He adds, "Great strides have been made over the last several years."

In the future, Shrider sees, "Continued use of long time standards and introduction of new instruments to replace instruments that are outdated."

All in all, manufacturers and suppliers of testing equipment for paint and coatings manufacturing are well tuned in to what formulators need. ■

## PAINT AND COATINGS MANUFACTURING: RADIATION CURE, UV

# The Economics of Sustainable UV Technology

BY MICHAEL KELLY

**S**ustainability is the new Green...and will continue to gain influence in the global marketplace. A major movement is underway, which include efforts by environmentalists, government agencies, manufacturers, consumers and others, to improve sustainability worldwide.

The Coatings marketplace, consisting of raw material manufacturers, equipment suppliers and formulators, are using UV technologies to lead the sustainability effort worldwide and positively impact manufacturing, especially in the United States. This movement is called Sustainable UV.

The question facing manufactur-

ing today is how to balance the three aspects of Sustainability: Economics, Environment and Social concerns. While all three aspects are important, the Economics of Sustainability drives business development...UV & EB Technology is the choice technology platform that delivers all three now, something that is critical for US Manufacturing operations today.

Although the definition can be subjective, sustainable manufacturing processes have the following characteristics:

- Improved efficiency
- Reduced waste
- Conservation of natural resources
- Saving energy
- Avoiding toxic or

other emissions

- Contributing to a safe and healthy working environment
- Use of renewable energy and resources
- Use products made from salvaged, remanufactured or recycled material

Clearly, UV & EB technology can meet the criteria of the first six items listed above with increasing potential for seventh. Many efforts are underway various companies and communities to address item eight. In many instances, UV & EB top coats are being applied upon salvaged, remanufactured or recycled materials.

UV Technology provides manufacturers the "Economics of Sustain-

ability", which consists of the following:

#### FASTER:

- Faster Line Speed
- Faster Cure Time
- Faster Coating Optimization

#### SMALLER:

- Smaller Floor Space
- Smaller Work In Process
- Smaller Energy Consumption
- Smaller Maintenance Costs
- Smaller Capital Equipment Cost
- Smaller Quality Costs...

#### CLEANER:

- No VOCs / No HAPs / No NVPs
- Reduced Reporting
- Improved Health and Safety

UV coatings offer a process that is Faster, Smaller and Cleaner; and delivers economic cost savings to



Figure 1 – The combination of “Economics of UV” with Sustainability – Everyone Wins

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the customer.

The manufacturer is able to run their process at a higher line speed, which offers them more production capability without additional allocated capital. In addition, the UV process offers the manufacturer the benefit of a cure time that is less than 2 seconds; which offers many benefits ranging from immediate handling to reduction in quality costs. Also, UV coatings can be 100 per cent solids, meaning liquid with no solvent or water content. Which allows the manufacturer to utilize all of their coating - 100 per cent optimization.

So, Faster Line Speed, Faster Cure Time and Faster Coating Optimization.

From a production standpoint, UV offers the manufacturer the ability to implement a process that consumes a great deal less floor space, mainly by eliminating conventional heat ovens and conveyors. Work in process is virtually eliminated due to the fact of the instant cure properties of the UV process. With the elimination of the ovens and additional conveyors, the resultant will be greatly reduced energy costs. Smaller capital equipment costs are also realized due to less actual equipment required, typically in the range of 50 to 60 percent. Quality costs will be minimized due to coat, cure and pack philosophy of UV technology, which allows for immediate inspection after cure.

So, Smaller Floor Space, Work in Process, Energy Consumption, Maintenance Cost, Capital Equipment Cost and Quality Costs.

UV technology is sustainable....and offers significant environmental benefits such as no VOC's, HAP's or NVP's. Typically, UV offers the manufacturer reduced

reporting and a cleaner and safer work environment.

So, Cleaner No VOCs / No HAPs/NVPs, Cleaner Reduced Reporting and Cleaner Health and Safety.

Application Examples:

Organizations with an eye on sustainability are realizing that embracing green practices can be a direct route to a successful, profitable business that adds value to manufacturers, their customers, shareholders and the planet.

While Sustainability alone is important, the “Economics of Sustainability” is critical to manufacturing today and tomorrow, and are mutually dependent on each other. Manufacturers must continue to implement Sustainable technologies, but the success of this Sustainable technology depends on the economic return / financial return to their operations. UV Technology offers a definitive Sustainable roadmap and delivers true Economic Savings. ■

Contributors: Mike Sajdak - INX International Ink Co. and RadTech - [www.radtech.org](http://www.radtech.org)



Michael Kelly is CEO / President, of Allied PhotoChemical, Inc., Kimball, Michigan.

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

**UV Application: Pipe**

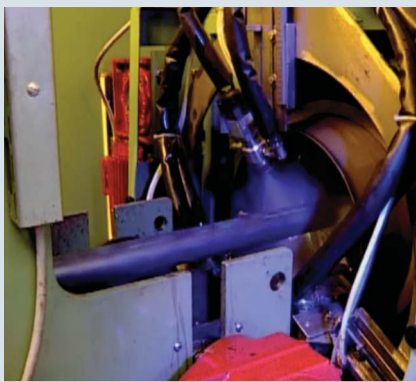


Figure 4: HVLG Guns

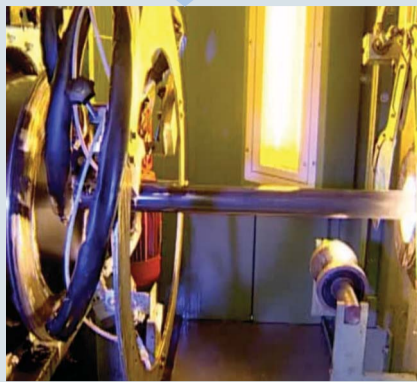


Figure 5: From Coat to Light Cure Chamber

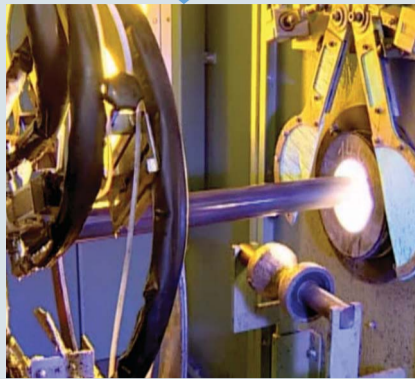


Figure 6: Light Cure Chamber

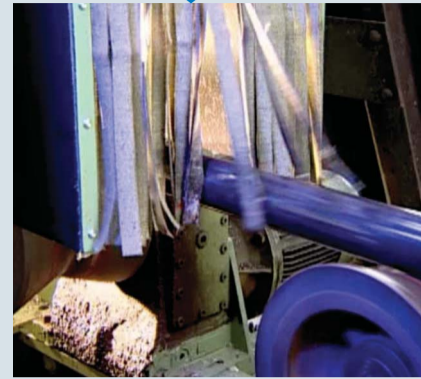
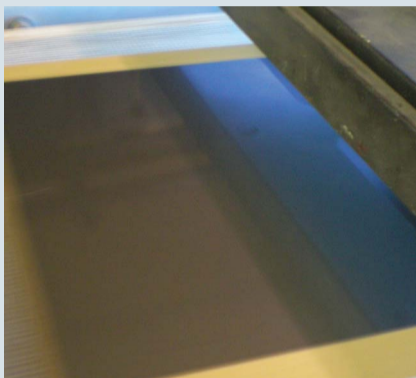
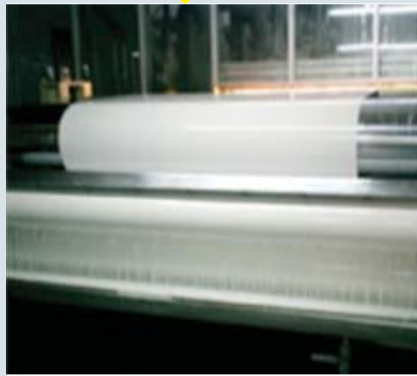


Figure 7: Part Exits/Dry .2 sec.

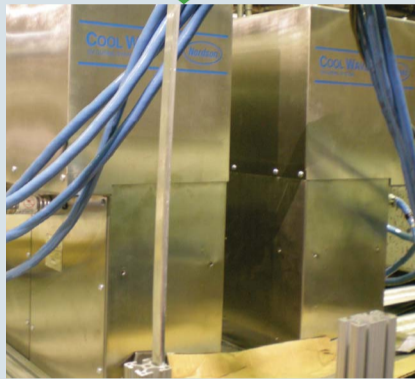
**UV Application: Flat Composite Media**



Conveyor into Roll Coating



Roll Coating



UV Light Cure



Part Exits/Dry .2 sec.

**UV Application: Metal Canisters**



Incoming Parts



Being Sprayed



UV Light Cure Chamber



Part Exits/Dry .2 sec.

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# Improving **Energy** Efficiency

– As part of Pollution Prevention in the Metal Finishing Industry.

BY MARC SIDER ENG., MASC

**T**he Canadian Association for Surface Finishing (CASF), is a not for profit industry association founded in 1986 and has over 20 years experience in working with metal finishers in Canada. CASF has completed many projects in recent years in association with Environment Canada and the Ontario Ministry of Environment. CASF has developed manuals and training to help the metal finishing industry achieve environmental compliance, implement environmental management systems and benefit from pollution prevention. CASF's expertise has been acknowledged internationally, in Asia and Latin America in particular.

## ENERGY COSTS

The metal finishing industry is facing higher energy costs, just like the other industrial sectors in Canada. Metal finishing processes can be described generally as involving heated chemical solutions in which some of the most important reactions need electrical energy to be realized. There are many opportunities to save energy (electricity, natural gas and oil), which can yield significant economic and environmental benefits. Decreasing the cost of the goods it manufactures will obviously enhance the competitiveness of the Canadian metal finishing industry. Also, increasing energy efficiency will obviously decrease our use of natural resources and contribute directly to a decrease in greenhouse gas (GHG) emissions.

## POLLUTION PREVENTION AND ENERGY BENCHMARKING

This last benefit of improved energy efficiency makes it also a part of pollution prevention, since pollution prevention avoids or minimizes the creation of pollutants and waste. Considering the efforts and successes in pollution prevention of CASF through the years, it was only the next logical step to get involved in energy efficiency. In September 2004, CASF signed a letter of cooperation with NRCan's CIPEC to formalize its agreement to encourage its member companies to develop and implement plans for improved energy efficiency. Experi-

ence has shown that reception of the message by the industry and effectiveness in promoting implementation is increased significantly when the sector association is prominent in the initiative. In 2006 and 2008, NRCan provided funding to conduct energy benchmarking in the metal finishing industry.

The benchmarking project included the collection of relevant baseline information on energy practices in the metal finishing industry, the evaluation of the present performance, and made it possible to find where and how energy can be saved most cost-effectively. To achieve this, a detailed survey was distributed, which addressed the use of good management and technical practices. At the date of this Final Report, 14 companies from all regions of Canada participated.

The results show that there are significant differences among the participants, which are from all sizes and using various processes. They are all interested in energy efficiency. Energy costs as a percentage of total operating values are in the range of 5 per cent to 25 per cent, with 15 per cent being the most often seen value. Not surprisingly here in Canada, it is obvious from the discussion with participating companies that exhaust fans (ventilation) and space heating (building and air make-up system) are priorities. Boiler plant systems, process tanks heating and rectifiers with their busbars are also looked at carefully. It is reasonable to establish a target of 20 per cent for energy reduction in the Canadian metal finishing industry.

The benchmarking project goal was also to build capacity among metal finishers to incorporate energy efficiency planning in their operations and consider new technologies in the design of their plant. To better achieve this goal, it is planned in 2009-2010 to hold a Customized Workshop in which a Dollars to Sense expert working with NRCan would present various case studies on how to implement more complex energy efficiency projects and explain what are the real financial, managerial and technical challenges and the expected benefits. Finally, it is planned before

the end of 2009 to make the Final Report available at the CASF website ([www.thecarf.ca](http://www.thecarf.ca)).

Every metal finishing shop should have a person or team looking at excessive energy usage. Looking at historical data on energy consumption, identification of all equipment and other items of the plant consuming energy and ranking of these are activities typical of energy audit. With that information, actions can be taken where the smallest work or investment result in the biggest improvements in the energy balance.

However, some special ways of reducing costs might require the help of someone with more knowledge on energy saving methods. This person is available at CASF to help you implement an energy efficiency plan. If you are interested to know more about energy efficiency, please contact the author. ■

*Marc Sider eng., MASC, is the Coordinator of energy efficiency and pollution prevention for the Canadian Association of Surface Finishing, [msider@sympatico.ca](mailto:msider@sympatico.ca).*

## TIPS FOR ENERGY SAVINGS

### Heating equipment

Do not allow scale build-up on heating elements immersed in the baths. This is detrimental to heat transfer.

Selection of another kind of heating equipment can lead to substantial energy savings. In the case of powder coating which cures at a temperature of 350°F, an electric infrared oven will be more efficient than a conventional convection oven, while improving the production rate.

### Steam

In big tanks, heating by steam is more economical. However, care should be given to prevent steam losses, whether resulting from leaks or malfunctioning steam traps. Fixed orifice steam traps without moving parts might be a better alternative.

Boilers should be properly maintained and pipes should be well insulated. There should be proper water treatment to prevent scaling and heat transfer decrease.

### Heat loss

For tanks with an operating temperature above 140°F sufficient insulation (typically 1 in thick) should be provided. These tanks should also have a cover when they are not used or there should be a layer of polypropylene floats on the surface of the liquid.

### Rectifiers and busbars

A regular maintenance program for the rectifiers will improve their performance.

The quality of the busbars, cables, racks and all electrical contacts should be verified. Dirty connections, corrosion of contacts and undersized conductors lead to higher resistance, higher voltage and thus wasted energy. 1 in<sup>2</sup> for copper and 1.6 in<sup>2</sup> for aluminum are recommended to carry 1000 amperes.

Check and make sure the power factor is high.

### Baths chemistry

Monitor the compositions of the metal finishing baths and keep the values at the optimum. Some ingredients make the solutions more conductive, this is important to lower the plating voltage and save electrical energy.

### Compressed air

It is not free! An electrical motor does the work of compressing the air (typically 1 hp is required for 4 cfm). It can thus represent a higher percentage of the energy consumption of a plant than expected. Piping of proper size should be used and leaks should not be tolerated. Pressure should not be set too high compared to what is required for the applications. Proper maintenance of the compressor should also be provided.

When air sparging is used for baths agitation, a high pressure blower should provide the air. Do not use a compressor.

### Lighting

The system should be better maintained. Clean away the dust and dirt from the bulbs and tubes. Old tubes, which outlived their usefulness are wasting energy. Replacement on a planned basis will pay for itself. Better positioning of lighting fixtures to the workstations, to make sure that the surface is well illuminated at the right angles can itself save 10 per cent.

### Ventilation systems

Ventilation systems are used to protect the health and safety of the workers. The production patterns are often such that some of the tanks only are used. The ventilation required is then well below the design value of the whole system. This situation results in wasted energy, but it can be improved with the use of adjustable speed drive for the fans motors. These will decrease ventilation during idle time. Less electricity is then used and less make-up air has to be heated while keeping the same health and safety performance. Some case studies have show a payback of 1½ years for the installation of variable speed drives and energy efficient motors, modification of hoods and implementation of a monitoring and control system for energy management. When is the last time you got air flow measurements and balancing of your ventilation system?

# Black Oxide Trends

Low-Temperature Black Oxide Of Ferrous Metals - Enhanced Control Of Quality, Scheduling With Zero/Low Labor Costs Using The Newest Automated Process.

BY MARK RUHLAND

**I**n-house black oxide finishing is becoming more attractive than outsourcing for one simple reason: it offers more effective control of quality, scheduling and costs.

This article describes the latest trends in black oxide finishing and offers an in-house alternative that enhances quality, speeds shipments and lowers costs.

## THE TRUE COST OF OUTSOURCED BLACK OXIDE FINISHING

Due to the hazardous nature of most black oxide processes, manufacturers have traditionally been forced to ship parts to an outside plant for black oxide finishing. In the process, they incur extra costs and turnaround times that make it difficult to satisfy customer shipping demands. In addition, this outsourcing requires higher in-process inventory levels and makes it impossible to have direct control over quality.

By contrast, in-house finishing streamlines workflow and lowers inventory levels, thereby freeing up cash for other uses. An in-house black oxide process line allows the manufacturer to machine the part, black oxide finish it the same day, then move immediately to assembly or shipping, without delay. It allows the manufacturer to focus on the fabricating of the part (the highest value contribution), then quickly and efficiently handle the black oxide finishing (the lowest value contribution), without disrupting the smooth flow of parts through assembly, packaging and shipping.

## WHY BLACKEN? BLACK OXIDE IS OFTEN THE MOST DESIRABLE FINISHING OPTION

Black oxide adds value and sales appeal to many fabricated parts, without altering dimensions or interfering with part assembly or operation. In addition, black oxide finishes are quite durable and offer long-term corrosion resistance in storage or in service.

Black oxide, particularly the low temperature process, is supplied in a variety of pre-engineered systems, complete with operator training. In-house black oxide enhances ISO

and "Lean Manufacturing" programs because inventory stays in the plant.

## MAKING THE RIGHT BLACK OXIDE PROCESS CHOICE

With three types of blackening in common use, it's important to weigh the benefits of each before choosing one for an in-house installation.

The first is traditional caustic black oxidizing which utilizes a boiling caustic soda bath operating at 290°F. This system forms a black iron magnetite finish in 20 to 30 minutes. Overall finish quality is usually good, except on cast iron or MIM parts (red coatings are common) or parts with blind holes or recesses (white salt leaching occurs).

The second is room temperature blackening utilizing copper/selenium chemistry. This system operates without heat and forms a black conversion coating in 2 to 5 minutes. These finishes can replace traditional hot black oxide in many applications, but the finish is not as durable or as black. Because room temperature blackening requires copper and selenium (both EPA regulated), the process lines require Ion Exchange add-on systems to purify and recycle the rinse waters for zero dis-

charge operation.

The third, newest and most desirable black finishing option, is low temperature black oxide. The process, known as TRU TEMP low temp black oxide, forms a durable, black magnetite finish with a short 10 minute blackening time. Since the process contains no EPA regulated metals, the rinse waters are non-hazardous and are usually sewerable without waste treatment. The low temperature eliminates the severe hazards of the 290 degree black oxide, making it easier and far safer to operate. The process also avoids the red coatings and white salt leaching problems commonly seen with conventional black oxide because the overall concentration of caustic soda is 80 percent lower than that of regular black oxide. In short, the TRU TEMP process offers a high quality black oxide capability without the severe hazards, thereby making it safe to operate in-house.

All three of the above processes provide good corrosion protection (50-200 hours salt spray resistance) through the use of a rust preventive topcoat that is absorbed by the porous structure of the black finish. Several types of rust preventives are available. All three blackening processes provide dimensional uniformity and stability. Black oxide finishes have a uniform thickness of

about 0.000020 inches, making them ideal finishes for precision manufactured components that cannot tolerate the variable thickness of paint or electroplating.

Each of the three black oxide processes has different heat and chemical requirements that must be considered when designing a blackening system.

## LOW TEMPERATURE BLACK OXIDE PROCESS IS HIGH QUALITY AND SAFE TO OPERATE

For today's conscientious manufacturers, the in-house black oxide process itself must be safe to operate, non-polluting and produce highest quality finishes. The low temperature TRU TEMP process does all this and more. The process forms a non-dimensional, deep black finish with long-term corrosion resistance - the ideal surface finish for all types tooling, couplings, gears and machine components.

The finish also prevents galling on thread surfaces and other critical part features. This high level of corrosion protection is important for both part storage and shipment in corrosive atmospheres including ocean shipment.

This low temperature process operates at just 200° F and uses mild alkaline chemistry that does

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not embrittle steel components. Manufacturers using this low temperature process in a CNC system setup report part finishing went from 5 days to same day, so 24 hour order fulfillment became possible, providing an important marketing edge. Operating cost (including chemical and heating cost) averaged just \$.01 to .03 per pound of finished work.

## CNC BLACK OXIDE FINISHING HAS SIMILAR BENEFITS AS CNC PART MACHINING

To maximize the in-house black oxide function for highest quality, fastest turnaround time at the lowest cost, the TRU TEMP CNC finishing system was developed. Like virtually all other metalworking equipment, which today is CNC controlled (computer numeric control), these CNC black oxide systems are operated by a touch-screen numeric control rather than a live operator. When applied to a black oxide finishing line, CNC control provides similar benefits as other CNC metalworking equipment - fast handling of part loads, consistent quality, elimination of human error and tight control of operating costs.

Ruggedly, designed for high volume continuous service, a CNC low temperature black oxide line usually consists of eight process tanks and ten stations overall. For example, in one installation, the operator of the deburring station loads parts onto the black oxide racks, then wheels them into the pickup station. From there, the hoist automatically processes the load through the various stations of the black oxide line and deposits the finished load in the setdown station 25 minutes later. They are then picked up by the operator in the inspection/assembly station. Configured in this manner, the blackening operation requires zero labor input - all labor is contributed by the adjoining departments. Consequently, total operating costs are extremely low.

## LOW TEMPERATURE BLACK OXIDE LINE UTILIZES THE FOLLOWING STATIONS:

**Cleaning.** Prior to finishing, parts must be cleaned of machining fluids, coolants and other soils, most of which are water-soluble materials.

**Rinsing.** A clean water rinse (30 seconds) after cleaning is important,

but ordinary tap water is all that is needed for most lines.

**Surface Conditioning.** A mild acid surface conditioner removes minor oxides and deposits a primer coat that aids in formation of the final black oxide finish.

**Rinsing.** A second rinse removes any residues of the surface conditioner.

**Blackening.** High temperature (290°F) black oxides form an adherent coating in 20 to 30 minutes, in most cases. Low temp (200°F) black oxide typically requires only 10 minutes. The black finish is permanently bonded to the substrate.

**Rinsing.** A final rinse removes any blackening residue from the parts. For high temperature (290°F) black oxide, the rinse water has a high pH and must be neutralized before discharge.

**Sealing.** There are several different types of rust preventives available, water-based and solvent-based, with different properties as appropriate to the intended end use of the article.

## LOW TEMPERATURE BLACK OXIDE PROCESS EASILY MODIFIED TO SUIT THE APPLICATION

Though many installations operate with a standard process sequence, the design of the process line can be changed to accommodate different production conditions:

- The volume of parts per shift will determine the overall size of the blackening tanks.
- The method of parts handling required (racks, baskets, rotating barrels) affect the way in which the parts are processed through the line.
- Parts that carry heavy oils or oxides (rust, heat treat scale or hot-rolled mill scale) often require aggressive cleaning or de-scaling treatment utilizing chemical or grit-blasting methods.
- The performance requirements of the final finish will indicate which sealant is needed to achieve the necessary appearance, gloss and level of corrosion resistance.

A well-designed tank layout can accommodate all the factors listed above, and the supplier of the system can provide guidance. In-house low temperature black oxide finishing has a proven value to modern manufacturing because it enhances product quality and customer service capabilities while lowering costs. ■

*Mark Rubland, is Vice President of Birchwood Casey, Eden Prairie, Minnesota.*

## CALENDAR OF INDUSTRY EVENTS 2009 & 2010

**September 20-21:** CPCA 2009 Annual Convention is in Niagara Falls, ON., [www.cdnpaint.org](http://www.cdnpaint.org)

**September 24-26:** Woodworking Machinery & Supply Expo, International Centre, Toronto, ON., [www.woodworkingexpo.ca](http://www.woodworkingexpo.ca)

**September 30-October 1:** Coating East 2009 at Gaylord Opryland in Nashville, TN. The event will target Automotive, Appliance, Heat Sensitive Substrates (wood & plastic) and General Metals. [www.thecoatingshow.com](http://www.thecoatingshow.com)

**October 20-21:** CMTS 2009 and Automation Rendez-vous. [canadasales@sme.org](mailto:canadasales@sme.org)

**October 6-8, 2009:** International Anodizing Conference & Expo at the Sheraton Fort Worth, TX. [www.AACconf.org](http://www.AACconf.org)

**October 20-21:** RadTech is holding uv.eb EAST 2009 and Conference in Niagara Falls, NY, sponsored by NYSEEDA, the New York State Energy Research & Development Authority. [www.uvebest.com](http://www.uvebest.com)

**October 20-22:** Parts2clean 2009, International Leading Trade Fair for Cleaning within the Production Process, Exhibition Center Stuttgart, Germany, Organizer: fairXperts GmbH, [www.parts2clean.com](http://www.parts2clean.com) Running concurrently is Corosave, the international trade fair for corrosion protection, preservation and packaging. [www.corosave.de](http://www.corosave.de)

**October 29-30:** TOSCO Technical Symposium, Crowne Plaza Casino Hotel at Niagara Falls, ON, Fallsview. [info@toscot.org](mailto:info@toscot.org)

**November 3-5:** DriveIT, International Congress and Exhibition for Automotive Software and Electronics, Exhibition Center Stuttgart, Germany, Organizer: H & K Messe GmbH & Co. KG. [www.drive-it-expo.de](http://www.drive-it-expo.de)

### 2010

**April 12-15, 2010:** American Coatings Show and Conference, Charlotte, NC. [www.american-coatings-show.com](http://www.american-coatings-show.com)

**April 13-16, 2010:** PaintExpo, International Leading Trade Fair for Industrial Coating Technology, Exhibition Center Karlsruhe, Germany, Organizer: FairFair GmbH. [www.paintexpo.de](http://www.paintexpo.de)

**May 24-26, 2010:** RadTech 2010, Baltimore Convention Center in Baltimore, MD. [www.radtech2010.com](http://www.radtech2010.com)

**June 15-16, 2010:** Sur/Fin 2010, the annual conference and trade show organized by the National Association for Surface Finishing as the surface finishing industry's premier event, Grand Rapids, Michigan. [www.nasf.org](http://www.nasf.org)

**September 6-8, 2010:** DanubeReal, The Real Estate Exposition for the Danube Region, Exhibition Center Ulm, Germany, Organizer: fairXperts GmbH. [www.danubereal.com](http://www.danubereal.com)

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## Belzona Announces Launch of 5841 Online Solution

Belzona, a world leader in the design and manufacture of industrial protective coatings and polymer repair composites, has launched Belzona 5841, a two component coating grade system which forms part of a wide range of coatings for the repair and protection of metal surfaces which suffer from CUI (corrosion under insulation) and is currently available across North America. It expands the current online application temperature cover of Belzona CUI products (Belzona 5831 and 5851) to 5°C – 150°C (41-302°F) offering protection to systems operating between -40 and 200°C (140 to 392°F).

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

## Enhanced Reporting Drives DEACOM ERP Accounting Software Version 11.0

Version 11.0 of Deacom, Inc.'s DEACOM Integrated Accounting and Enterprise Resource Planning (ERP) Software System includes new functionality that provides ERP accounting software users in the paint, ink, and coatings manufacturing industry with enhanced internal and external reporting abilities. DEACOM integrates all areas of a paint, ink, and coatings manufacturer - purchasing, sales, production, inventory management, lot control, formulation, labor tracking, stores/POS, and accounting - in one ERP software system. With the system's new dashboard feature, users can compile an infinite number of reports from across all business processes into a single summary screen.

[www.deacom.net](http://www.deacom.net)

## Datapaq Introduces NEW Oven Tracker XL2 Temperature Profiling System



Datapaq announces the release of the new Oven Tracker XL2 temperature profiling system. The XL2 consists of data logger, thermal barrier, thermocouples and analytical software, and comes standard in 6 or 8 channels. Up to 16 channels can be supported with use of the Dual Interface Block. New features include:

**Smartpaq** – LED indicator tells you immediately upon oven exit if your process is in control and your run was successful based on your choice of pass/fail criteria.

**Multiple Run Capability** – Enhanced memory is capable of handling 10 consecutive runs before the information needs downloading to a computer.

**Hardwired Telemetry** – use outside your batch oven and transmit live data directly to your computer.

**Auto TI Configuration** – Configure the Transducer Interface to suit your process needs; No need to change thermocouples between runs.

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

## byko-test 4500 thickness gauge-NEW Updated Version

BYK-Gardner now has a new updated version of the

compact byko-test 4500 thickness gauge. The updated, pocket size gage now includes the following features:

- automatic substrate recognition which allows measurements to be taken more quickly
- extended measuring range to 120 mils (3000 µm) for NFe substrates
- increased size of graphics display with backlight

[www.byk.com/instruments/](http://www.byk.com/instruments/)



## Mergal BIT20 Canadian Regulatory Approval

Troy Corporation has received Canadian approval for the wet state preservative Mergal BIT20 containing the active 1,2-Benzisothiazolin-3-one (BIT). The Pest Management Regulatory Agency (PMRA) in Canada has determined that Mergal BIT20 is eligible for full registration pursuant to the Pest Control Products Act (PCPA) as an industrial preservative.

According to David Faherty, Vice President of Marketing "Troy develops products that meet and exceed customer performance requirements and governmental regulations such as zero or low VOC, formaldehyde-free, wet-state preservative products," Mergal BIT20 is a highly effective, broad-spectrum preservative developed to protect water based products from the growth of detrimental microorganisms. The products have been approved in Canada for use to protect latex emulsions, metalworking fluids, aqueous-based paints and aqueous mineral slurries. Mergal BIT20 inhibits microbial growth which reduces spoilage to extend the product's service life.

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

## New from Motoman



Motoman's robotic Integrated Dispensing System applies uniform beads and precision shots of single component adhesives or sealants. Its Servo-Flo servo-driven metering pump from Sealant Engineering & Equipment provides precise metering at the point of dispense. The system's positive displacement metering unit is driven by a Yaskawa servo control.

With the ability to process low volumes, shot sizes and flow rates, the Integrated Dispensing System has accuracy within ±2 percent for dispense volumes greater than 2 cc.

The Integrated Dispensing System can dispense an array of single component (1K) materials and is suitable for adhesive bonding, battery filling, casting, coating, laminating, molding, sealing and a wide range of other applications. Dispensing processes include beads, shots, dots, streaming, extrusion, spray and high-speed mastic stitching applications.

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

## BYK-Gardner's spectro-guide to orbit the Earth

NASA will soon launch two BYK-Gardner spectro-guide spectrophotometers to the International Space Station (ISS) aboard Orbital Vehicle 103 (Shuttle Discovery).

The spectro-guides are an integral part of an experimental water quality monitoring system developed by a team of scientists and engineers from NASA's Habitability and Environmental Factors Division in the Space Life Sciences Directorate at Johnson Space Center, the Wyle Integrated Science and Engineering Group in Houston, Texas, the University of Utah, and Iowa State University. The system is called the Colorimetric Water Quality Monitoring Kit

(CWQMK), and it uses color measurements to help ensure that appropriate biocide levels are present in the water on ISS.

As part of pre-deployment procedures, the spectro-guide recently passed a Procedure Validation (PV) session with NASA's astronaut corps. The spectro-guides that will be used on the ISS are virtually the same as those used by thousands of color measurement professionals on earth.

[BYK.Gardner.USA@altana.com](mailto:BYK.Gardner.USA@altana.com)

## Bayer MaterialScience introduces new waterborne dispersion for wood and furniture coatings

Bayer MaterialScience has introduced a new member of its proven line of Bayhydrol products for one-component coating systems. The new addition is Bayhydrol AH XP 2741, the first of a new range of high-molecular-weight, polyacrylate dispersions for coating wood and furniture.

The new Bayhydrol AH XP 2741 resin, which is solvent-free, is particularly well suited for the formulation of low- to no-VOC, one-component coatings for indoor wood floors and furniture. Clearcoats formulated with this waterborne styrene-acrylate copolymer highly accentuate the wood's grain and provide good chemical resistance. This universal resin can be used to easily formulate primers and high-gloss or semi-gloss coatings. It can be used in combination with polyurethane dispersions (PUDs) as well as UV-cured coatings.

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

## Hydrophilic coatings from Bayer MaterialScience LLC

Building on its experience in polyurethane coatings chemistry, Bayer MaterialScience LLC recently developed a new family of hydrophilic coatings. These products are intended to combine lubricity and hemocompatibility with the superior mechanical properties of polyurethane.

The new hydrophilic coatings from Bayer MaterialScience are custom designed for the medical industry, but are based on polyurethane coatings technology that has long set the standard for resistance to chemical and physical stresses. The hydrophilic coatings offer low swelling compared with competing products.

Two distinct types of formulations are available: aqueous polyurethane dispersions and solvent-borne polyurethane solutions. Certain applications can take advantage of the solvent-free nature and low viscosity of aqueous dispersions. In other cases, solvent-borne coatings characterized by exceptional stability and wet strength are more well-suited.

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## Eliokem Brings Hydro Pliolite for Masonry Coatings

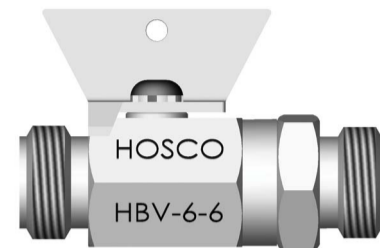
ELIOKEM, introduced Hydro Pliolite for the first time in North America. This water based acrylic copolymer emulsion is designed specifically for high performance masonry coatings and has experienced much success in Europe since its launch there in 2003. Hydro Pliolite utilizes an emulsified binding system (EBS) that is unique to Eliokem which is now available in America. This resin system is designed to penetrate into the

substrate to allow better adhesion than conventional latex polymers.

The EBS technology consists of both solution solvent polymers and water based polymers resulting in a unique water based copolymer. This product has excellent adhesion and superior penetration, to a degree never achieved before with waterborne paints.

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

## New Mini Ball Valves



Hosco, an ITW Company and leading manufacturer of paint and finish delivery systems and components has introduced a new HBV series of stainless steel Mini Ball Valves for compact paint delivery applications. The new mini ball valves are an economical alternative to standard ball valves and can lessen engineering problems for compact installations such as robot arms, enclosures and bulkhead plates. The new mini ball valves are 1/2 inch shorter than typical SSBV ball valves plus their new butterfly handle results in a smaller footprint. The handle also has a hole for easy tagging.

[www.hosco.net](http://www.hosco.net)

## New LUMICLAD Process



The new LUMICLAD process from Birchwood Casey, Eden Prairie, Minnesota, utilizes a simple dip-tank procedure to form a durable black oxide coating on aluminum. In contrast to the conventional black anodizing, the LUMICLAD process utilizes only one heated tank in the process line and does not require electrolytic current. The process works well on all cast and wrought aluminum alloys, and forms a smooth, black finish that is tightly adherent to the aluminum substrate, with no rub-off.

Since the LUMICLAD finish is only 1.5 microns thick, it will not shrink hole diameters or add measurable thickness. The LUMICLAD process is fast – 30 minutes for most alloys. The kit comes complete with seven 5-gallon immersion tanks, covers, immersion heater and a generous supply of LUMICLAD chemical products to operate the entire process for 2-6 months, depending on workloads. Occupying only about 20 square feet, the mini BK-LC Line fits well almost anywhere in the plant, such as in the tool room, prototype or maintenance area or in a manufacturing cell. It is especially useful in job shops where short run blackening is often needed on a "rush" basis.

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

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curve, plus extra expense, which people are understandably loathe to take," explains Levesley.

## SPECIAL CONSIDERATIONS

There are some unique needs when it comes to finishing cabinets for kitchens and coatings need to be chosen wisely.

Bertelsen says, "A finisher needs to consider many things because they do a lot of specialty finishes that have many steps; following the manufactures specs is critical." He adds, "Most have step panels that they follow to ensure that the stain looks the same every time as wood changes from tree to tree."

"Chemical resistance is more important to resist the abrasive cleaning agents," says Levesley.

## NEW PRODUCTS, EQUIPMENT, TECHNOLOGIES

There are several new products and technologies on the market that offer alternatives for finishers.

"The newest and hottest product on the Canadian market is Renner Wood Coatings," says Bertelsen.

"This Italian/Brazilian technologically advanced company provides a full range of stains and high end water based products; WB CROSSLINK, WB UV for hand spray or all machine applications." It also provides a long lasting, durable finish passing all KCMA testing and has UV inhibitors and non-yellowing/fading resins. The product also has a Class A flame spread rating.

"It's economical," says Bertelsen, "up to 20 per cent less coating is used over conventional products due to better transfer efficiency, 40 per cent less if a recovery system is available."

Although he admits that they are expensive Livesley of ICA says, "We have several water based mono and 2K products that are suitable." He adds, "Some incorporate nano technology, which improves the chemical/scratch resistance even further."

Levesley says there has been a few new equipment or technologies being used in the

finishing of kitchen cabinets, at least south of the Canadian border, finishers "are using the water borne - generally catalysed."

"New pumps with larger com-

pression ratios and fluid lines are sometimes needed," says Levesley.

## CRYSTAL BALLING IT

When it comes to kitchen cabinet finishes suppliers feel both government regulations and industry acceptance are the key factors in determining the future.

"Without any doubt, water-based coatings are the future of the Wood Coatings Industry," says Bertelsen. "Once a finisher has experienced the ease of use, the safety, and the fantastic results with water based finishes, the future of water base will be secured."

"I think it depends on regulations," says Levesley. "Until/unless they (finishers) are forced to go to water, I don't see it happening." He adds, "The coating products are definitely available, but as I mentioned, they cost more and are initially more difficult to use."

So, there is the trend to go maple and natural wood tones and finishes. Also, there's the continuous push toward going "green". When it comes the kitchen cabinet finishing the change to waterbase is slow, but definitely not dismissed.

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

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In addition, Henkel also provides leading chemical technology solutions and service to the metals industry. From stamping lubricants and rolling oils, to pretreatment cleaners and conversion coatings, Henkel offers complete surface treatment products and services, providing metal processing customers with longer-lasting and highly efficient products.



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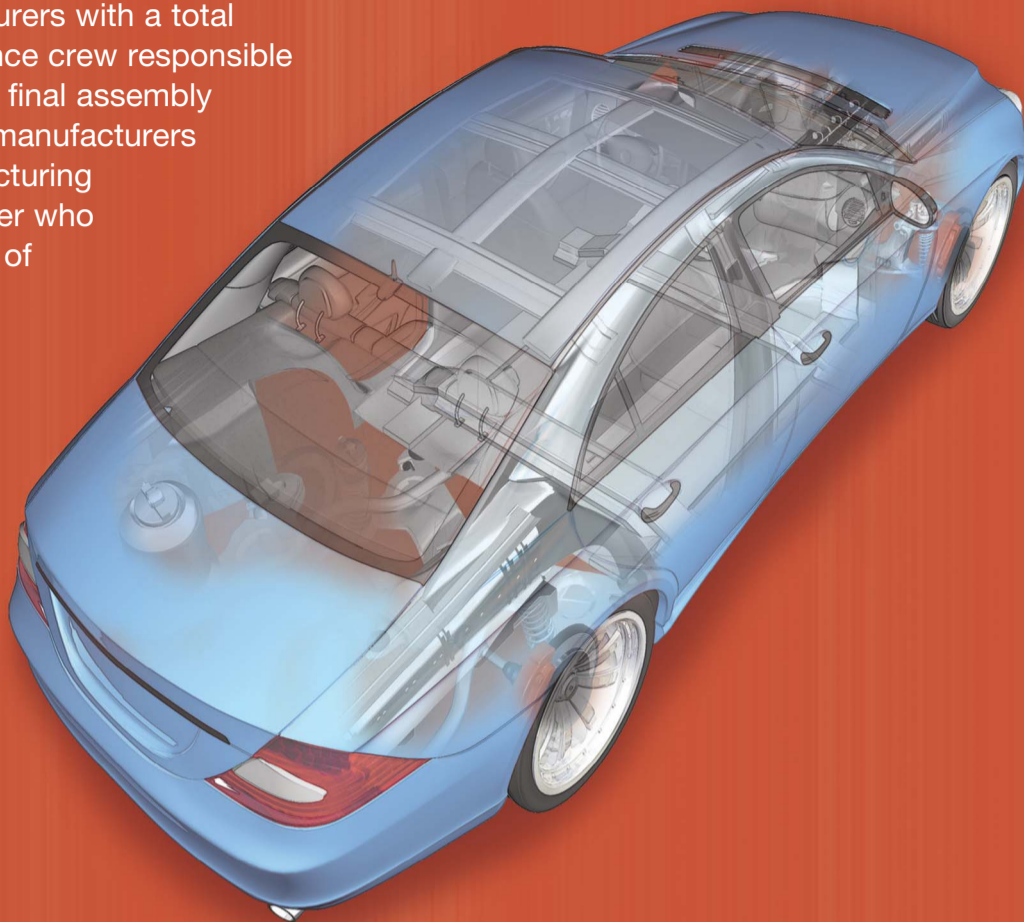
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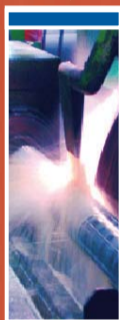
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