



CFCM

CANADIAN FINISHING & COATINGS MANUFACTURING MAGAZINE

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Innovations in Powder Coating

BY SANDY ANDERSON

When it comes to powder coating in the industrial finishing industry, needs are changing and manufacturers are responding.

"The Canadian market has remained steady, but is always changing to meet industry needs," says Greg Taylor, ITW Gema Regional Sales Manager for Canada. He continues, "Manufacturers are looking for ways to streamline their production capabilities and reduce inventories. There is also a growing trend to provide unique colors and textures. This requirement has challenged manufacturers to obtain maximum flexibility from their production operations."

ITW Gema has responded by offering color change solutions to meet a variety of production needs. ITW Gema's OptiColor unit offers fast color changes in less than 30 seconds for manual spray to waste applications. For automated production lines requiring recovery and reuse of any color, ITW Gema's Magic Series fast color

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ALSO IN THIS ISSUE

- Pigments
- Low VOC Paint Additives
- Stripping
- Automotive Plating
- New Products Coverage
- PLUS: Corporate Profile Issue**

Environmentally Friendly Metal Pretreatment

BY STEWART TYMCHUK

Being green is increasingly becoming a requirement to operate competitively, profitably and legally. There is no doubt that waste treatment standards are changing and industries in some communities are facing increases in sewer rates for industrial discharges, which is an additional consideration for reduction or elimination of the waste stream if possible. Due to these increasing environmental restrictions and global competition, manufacturing facilities have been forced to consider alternatives to conventional processes.

Phosphates are a significant component of wastewaters. Concern has been caused by the potential of the phosphates to exacerbate the problem of eutrophication in lowland water bodies. Emphasis has been placed on the wastewater removal mechanisms and environmental degradation of these compounds with the resulting implications for public health.



Concerns over rising energy costs and tightening environmental discharge limitations have driven research and development of alternative pretreatment technologies. These products may be identified by specific trade names or by

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IN THE NEWS

Association News

American Coatings Show

From Monday, April 12, until Wednesday, April 14, 2010, the American Coatings Conference will once again provide the perfect forum for the exchange of information and views from high-level scientific experts. Together with the American Coatings Show, which will take place from Tuesday, April 13, until Thursday, April 15, 2010, at the Charlotte Convention Center, Charlotte N.C., this will become the top event of the American coatings industry in 2010.

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"Science Today – Coatings Tomorrow," "Radiation Curing," "Measuring & Testing," "Wood Coatings," "Protective Coatings," "Architectural Coatings," "Functional Coatings & Functional Materials," "Waterborne Coatings," "Smart Coatings," "Novel Materials," "Biobased Coatings," "Nanotechnology," "Polyurethanes" and "Automotive Coatings" –

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Atotech Canada Ltd.

Atotech Canada Ltd. located in Burlington, Ontario, focuses primarily on the supply and technical support of General Metal Finishing processes. It houses Analytical and Materials Science Service Labs, as well as the only GMF-CRC Technical Center of its kind in Canada. We supply a full range of chemistry, production technology and service to customers in different areas of surface finishing applications, with a strong emphasis on the automotive sector.

Atotech Products are based on cutting-edge technology constantly being developed by Atotech Research and Development. The focus is on producing high-quality products, which improve the performance and extend the life of our customers' goods, ensure safety for the workers who handle them and significantly reduce environmental impact – "Green Technology". These factors result in better products, energy efficiency, reduced waste,

and therefore increased profits for our customers. Equally as important, Atotech processes are designed to comply with the most stringent quality and performance demands, and fulfill the requirements of a substantial number of currently valid OEM specifications. We are ISO 9001, ISO 14001 and ISRS certified.

The GMF Product Range includes perfectly matched processes from cleaning and pre-treatment, to final finish and waste treatment. Product groups include: functional chrome, electroless nickel, corrosion resistant coatings (zinc and zinc alloys, passivates and sealers), decorative coatings, plating on plastics, paint support technologies and functional electronic coatings, zinc flake and waste treatment.

The Atotech Canada TechCenter is a world-class, state-of-the-art facility established to assist our customers and their customers with the best, most complete service:

sample analysis and testing up to qualification runs are done for customers under production-scale conditions, mainly for automotive, as well as non-automotive applications. We are able to test and evaluate new processes and technologies under international standards and specifications.

Atotech Analytical and Materials Science Service Labs provide advanced techniques for surface finishing, quality and reliability testing for our products. These include everything from routine analysis and standard performance testing, torque & tension measurements in accordance with international standards such as ISO, DIN, JIS, ASTM and OEM specifications, to sophisticated Scanning Electron Microscope investigations.

Atotech Customer Support: Atotech Canada is proud of its dedicated Sales and Technical Support Teams, which have a tremendous range of combined knowledge and experience in all aspects of the business. Customers receive the help they need every step of the way from Sales and Technical Support team members chosen specifically for

them, based on their specialty. Customers benefit from ongoing consultation, troubleshooting and careful monitoring of the process from start to finish. We work towards the same goal: to achieve highest quality products to help the customer be successful in today's marketplace.

Atotech Green Technology: Atotech has made and will continue to make an important contribution to the long-term future of our planet. Atotech dedicates much of its research to developing innovative green chemistry and solutions to support customers in reducing their environmental footprint.

Plating facilities operate with Atotech auxiliary equipment such as the ion exchange Tricotect® unit for passivates to keep the Fe and Zn concentration below a critical threshold, thereby maintaining bath and coating quality. Atotech's technology for alkaline zinc nickel electrolytes, Recotect®, removes the formation of anodic breakdown products, in particular cyanide, and therefore keeps constant high plating rates and reduced wastewater treatment.

Atotech shares the same objectives as its customers and continues to work hard to achieve them: to realize the goal of creating the best products and processes while lowering consumption of raw materials, water, chemistry and energy, and reducing waste levels. This enables businesses to be more profitable in a sustainable way, both in the near and far-reaching future. It is a win-win situation on all levels.

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General Metal Finishing

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As a leading supplier to the surface finishing industry Atotech is dedicated to provide technology solutions for corrosion protection for a diversity of applications like:

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- Acid Zinc Nickel – Zinni
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- Cr(VI)-free Passivates – EcoTri®, Tridur, Unifix
- Sealers, Lubricants – Corrosil®

Additionally, Atotech's regeneration units support constant plating quality while allowing environmentally sound and cost-effective production.



Manual Plating Line for Corrosion Protection Applications



Analytical Instrumentation Lab: Inductively Coupled Plasma Optical Emission Spectrometer (right), multi-metal detection in bath and wastewater solutions.



TechCenter waste treatment system, capable of modelling customer waste streams and conducting tests of treatment solutions in a controlled environment.

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Spray on Sun

Just about everything comes in spray-on form these days...Paint, of course, Cheese, even Tans, now Solar Cells.

There is a company in Burtonsville, MD, New Energy Technologies, Inc. that has discovered a new patent-pending technology to 'spray' solar cells onto see-thru windows to generate electricity. The same company has developed MotionPower technologies for generating sustainable electricity from the kinetic energy of moving vehicles and SolarWindow technologies capable of generating electricity on see-thru glass windows...now their researchers have developed a novel, patent-pending process for 'spraying' solar cells and their related components onto glass – a technical achievement recently presented in AZoNano's (peer-reviewed, Journal of Nanotechnology Online; Dec. 20, 2009), "Nanotechnology Thought Leaders" series.

"The ability to spray solar coatings directly onto glass follows on the heels of our recent breakthrough, which replaced visibility-blocking metal with environmentally-friendly see-thru compounds, and marks an important advance in the development of our see-thru glass windows capable of generating electricity," announced Mr. Meetesh V. Patel, President and CEO of New Energy Technologies, Inc.

"In commercial terms, this new spray technology could translate into important manufacturing advantages for our SolarWindow, including significant cost-savings, high-speed production, and room-temperature deposition – common barriers to commercial success for innovative solar technologies."

Once scaled-up for use in commercial-scale production, researchers anticipate the ability to spray solar coatings directly onto New Energy's first-of-its-kind see-thru SolarWindow, currently under development, which could provide significant commercial pro-

duction advantages over today's thin-films. Conventional solar films are typically manufactured using expensive and slow manufacturing methods which rely on high-temperature and finicky 'vacuum deposition' processes for depositing solar materials onto substrates; the resultant products are simply too thick to allow for transparency, an important consideration in the development of a commercially viable solar-powered glass window, according to the company.

New Energy researchers successfully overcame one of the biggest transparency-related obstacles faced by scientists developing New Energy's SolarWindow technology – the presence of metal, an opaque material which blocks visibility and prevents light from passing through glass. Eliminating metal has proved especially challenging since the metal component acts as the negative 'polar contact' – an important function in collecting the electricity generated from solar cells on the surface of the glass. Now this 'visibility-blocking' metal can be replaced with environmentally-friendly and more transparent compounds. These compounds now function as the negative polar contact and collect electricity from New Energy's SolarWindow. www.newenergytechnologiesinc.com

We here at CFCM love to hear about New Technologies. Please send your press releases in .doc form to sandra.anderson@cfc.ca. And we hope you are all having a great 2010 so far.

Sincerely,
Sandra Anderson
sandra.anderson@cfc.ca
www.cfc.ca

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continued from front cover

these are the special topics of the American Coatings Conference 2010.

Almost 100 lectures distributed between sixteen special sessions – including the Mattiello Memorial Lecture, one interactive poster session, seven pre-conference tutorials, as well as the presentation of the American Coatings Award and the Roon Award, promise a unique exchange between the experts from the areas of industry, research and teaching – and offer plenty of opportunity for networking. The detailed conference program can be downloaded at www.american-coatings-show.com/conference. Sandra Werner at Vincentz Network will also be delighted to answer your questions on the conference at conference@american-coatings.com.

The organizers of the conference program highly recommend early registration in advance for the American Coatings Conference. The link on the ACS website takes you directly to the conference information and enables you to book your participation in the conference program. Services for conference participants cover the comprehen-

sive sessions and tutorials, refreshments and snacks during coffee and lunch breaks, admission to the After Work Party and also a three-day ticket for visiting the trade show.

Charlotte's skyline is ever changing, but finding comfortable accommodations gets easier by the day. The Visit Charlotte Housing Bureau is exclusively handling all accommodations for exhibitors and visitors of the American Coatings Show 2010. Shuttle Service will be provided on all days of the event. Only registered visitors are eligible to make room reservations in one of the convention hotels for ACS 2010. To receive the official ACS hotel rates, you must book your reservation through the ACS Housing Bureau.

After a long day of sessions, conference attendees can be sure to find attractive locations to unwind. With a great variety of restaurants, at many different price points to choose from, Charlotte has many great locations for you to explore. Charlotte restaurants range from don't miss hole-in-the-wall joints with fried pickles you'll never forget, to French-inspired fine dining with panoramic views of the city below, or "farm-to-fork" fare that's fresher than you can imagine:

Charlotte's culinary treasures wait for you. As hot new developments continue to make waves, more Charlotte nightlife options are ready to roll out the red carpet for the Queen City visitor. From mellow jazz clubs to salsa dancing lessons, and major musical acts to low-key brew pubs, Charlotte's nightlife aims to please. Get more information at www.charlottesgotalot.com.

NPCA/FSCT Changes Name to American Coatings Association

On Jan. 1, 2010, the National Paint and Coatings Association (NPCA/FSCT) changed its name to the American Coatings Association (ACA). The change marks the culmination of the merger between the National Paint and Coatings Association (NPCA) and the Federation of Societies for Coatings Technology (FSCT), which was finalized in 2009. The NPCA/FSCT Board of Directors approved the identity change in October. In addition, all current NPCA/FSCT operations in Plymouth Meeting, PA, will be transferred to the Washington, DC headquarters as of Jan. 1.

According to NPCA/FSCT President Andy Doyle, "By adopting the name American Coatings

Association, we will retire the two historically distinct identities associated with NPCA and FSCT. As the American Coatings Association, we will move forward in the future as one united organization capable of serving all members of our industry while continuing our commitment to environmental protection, product stewardship, and science and technology."

The organization has also adopted a new logo, reminiscent of the color wheel. The image is intended to evoke the organization's combined mission and bring to mind the science involved in manufacturing, research and development of industry's products, as well as the products themselves.

More Enhancements in Store for SUR/FIN 2010

When the curtain lifts on SUR/FIN 2010 in Grand Rapids, Mich., June 15–17, attendees looking for the "same old, same old" are going to be a bit disappointed. That's because the National Association for Surface Finishing (NASF) has made significant changes that promise to enhance the overall experience for exhibitors and attendees alike.

The most significant improvement comes via the new show schedule. In past years, conference events, special programs and social activities were held independently, in different locations. NASF has addressed this issue by carefully coordinating major events so that all participants involved can maximize their time during the show. Following are the particulars:

Conference tracks will kick off Monday, June 14, running from 2 p.m.–5 p.m., with a conference reception taking place immediately afterwards.

On Tuesday, June 15, conference tracks will run from 8 a.m.–5 p.m., with a break between 11 a.m.–2 p.m. Meanwhile, exhibits will open at 10 a.m. and run through 6 p.m.

On Wednesday—the third day of the show—conference tracks will run from 8 a.m.–5 p.m., with a three-hour break between 11 a.m.–2 p.m. This is designed to encourage brisk traffic across the exhibit floor, which will be open initially from 10 a.m.–2 p.m. and then again between 6 p.m.–9 p.m.

The popular "Industry Night" event (free of charge for 2010) will take place on the show floor as opposed to a remote location, thereby keeping attendees nestled in one location.

Lastly, a special guest speaker (TBD) will deliver the keynote address between 5 p.m.–6 p.m. on the show floor in front of a captive audience of attendees.

Others changes to the SUR/FIN 2010 activity schedule include plant tours of local companies such as the Grand Rapids offices of Altacor, which provides manufacturing and logistics services and business opportunities in more than 80 countries and territories worldwide. Altacor operates: Amway, one of the world's leading direct selling enterprises; Access Business Group LLC, a manufacturer and distributor of quality products worldwide for Amway and contract customers; and Altacor Corporate Enterprises, a holding company for the corporation's non-direct selling companies. "SUR/FIN attendees can learn a lot from a tour like this, from an operations standpoint, although Altacor is not in the finishing business," said Eric Olander, chairman of the SUR/FIN 2010 Steering Committee. To his point, Amway and its affiliates help more than 3 million people own and operate direct-selling businesses. Altacor entities had combined sales of \$8.2 billion in the markets it owns

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and manages for its fiscal year ending Dec. 31, 2008, and it owns or manages manufacturing and distribution facilities across the globe.

The new components to SUR/FIN don't stop there. Also on tap is a timely and information presentation from executives of the United States Council for Automotive Research, or USCAR, an organization whose primary goal is to further strengthen the technology base of the U.S. auto industry through cooperative research and development. In that same vein, there will also be participation from the Center for Automotive Research, or CAR, a non-profit organization focused on a wide variety of important trends and changes related to the automobile industry and society at the international, federal, state and local levels.

Another noteworthy enhancement to SUR/FIN 2010 is the incorporation of a DOD (Department of Defense) component to the educational conference, spearheaded by Christian Richter, founder and president of The Policy Group—NASF's government relations arm. The U.S. Military is increasingly seeking alternatives to chrome and cadmium in select applications, with an eye toward more environmentally friendly cleaning, finishing, and maintenance procedures.

"It's going to be a great conference," Richter said. "A little different, but great."

Reserve your booth space for the event today by contacting Cheryl Clark, director of events, NASF, at cclark@nasf.org or call (202) 457-8404. To view a video of Grand Rapids that contains a per-

sonal message from Eric Olander, please visit www.meetgrandrapids.com/surfin.php.

Electrocoating Seminar Premier's Advanced Programming!

The Electrocoating Seminar held in Birmingham, Alabama, on November 11-12, 2009 was a premier outing for the Advanced Program. A robust program of advanced topics for electrocoating was added to the 1-day basic session, making it a 2-day educational event for the industry. The Seminar is co-sponsored by The Electrocoat Association and the Chemical Coaters Association Int'l.

Day 1 provided detailed information about the electrocoating process from racking through cure, preventive maintenance and new developments. The afternoon concluded with an impressive tour of Max Coatings, Inc.'s Birmingham facility. A networking reception was held that evening for attendees and speakers.

Day 2 began with a discussion on efficiency, reducing production and non-production costs and overall system effectiveness. Presenters moved through the ecoat process and equipment, exposing typical areas of energy, waste and cost savings while also discussing ways to maximize efficiency through racking, enhancements, etc. Troubleshooting for defects that could possibly plague a system were outlined in a hands-on method with live examples of those most experienced. Attendees left informed and motivated to seek cost effective improvements to energy usage and other areas of their process.

TOSCOT Christmas Luncheon

On December 3, 2009, approximately 60 people gathered for the Toronto Society for Coatings Technology (TOSCOT) for the annual Christmas luncheon, a time of networking and good cheer. Once again donations of unwrapped toys were accepted for the CP24/CHUM Christmas Wish Foundation. Diplomas were handed out to graduates from the Coatings Technology Course. Dave Saucier, TOSCOT president, then welcomed everyone and made a brief announcement about the merger of TOSCOT with the Canadian Paint and Coatings Association. He explained how memberships would work and that CPCA will assume management of TOSCOT in January 2010 and the current TOSCOT board will resign.

The existing TOSCOT board will become an education committee. "The main goal is to continue the diploma course," explained Saucier.



Brett Minken of Andicor Chemicals receives his Diploma in Coatings Technology from Left to Right: Walter Fibiger, Gerry Gomez, Brett Minken, Jason Young.



Brett Minken Andicor chats with Larry Ham, Univar and John Roeleveld, Andicor at the Annual Christmas Luncheon put on by TOSCOT and the OPA.

More photos are on-line at www.cfc.ca

CORPORATE PROFILES

Fischer Technology

FISCHER TECHNOLOGY OFFERS A FULL LINE OF COATING THICKNESS MEASUREMENT AND MATERIAL TESTING INSTRUMENTS

Fischer Technology is a U.S. manufacturer of coating thickness, material testing, and material analysis instrumentation. Fischer offers a complete range of hand-held coating thickness gauges ideally suited for measurements of paint, powder coating, plating and anodize.

The FMP Series product line include DUALSCOPE® FMP20, DUALSCOPE® FMP40, DELTASCOPE® FMP10, DELTASCOPE® FMP30, ISOSCOPE® FMP10, ISOSCOPE® FMP30, and DUALSCOPE® FMP100 coating thickness gauges. These gauges measure over ferrous, non-ferrous, or both ferrous and non-ferrous substrates and have an easy to read, bright graphic display with an extremely durable shock resistant casing. A large selection of probes are interchangeable for the FMP Series yielding extreme accuracy and a wide measurement range. In addition to the FMP Series, Fischer also offers the MPOR Series which has two large displays, automatic substrate recognition, and like the FMP Series, the MPOR is precise, robust, and easy to use. The DUALSCOPE® FMP40, DELTASCOPE® FMP30 and ISOSCOPE® FMP30 now have Bluetooth® capabilities. You will find the appropriate instrument in the new FMP family to fit your measuring application.

Other products offered by Fischer include the PHASCOPE® PMP10 for measurements according to the phase-sensitive Eddy current method, ideally suited for

measuring the non-ferrous metal coatings on steel fasteners and other small plated parts. In addition the PHASCOPE® DUPLEX measures individual thickness values of multi-layer coatings used in the automotive and appliance industries. The SR-SCOPE® RMP30 measures the thickness of copper coatings on pc-boards. The SIGMASCOPE® SMP10 is for measurement of the electrical conductivity of metals such as aluminum or copper. The ANOTEST® YMP30-S is for testing the sealing quality of anodic coatings on aluminum (a quality feature for the weather resistance of the coating.) The FISCHERSCOPE® HM2000 and PICODENTOR® HM500 are measurement systems to determine the Martens Hardness in the micro- and nano- ranges.

The universal measurement system FISCHERSCOPE® MMS® is designed for coating thickness and materials testing according to the magnetic, magnetic induction, Eddy current, beta backscatter and electrical resistance measuring methods. The MMS® BETASCOPE® uses the beta backscatter method and is a proven test method and is ideal for most coatings applied to any substrate material. Other MMS® modules available are the PERMASCOPE®, SIGMASCOPE®, SIGMASCOPE® DUPLEX, and NICKELSCOPE®.

Fischer's new generation X-ray fluorescence instruments utilize an energy dispersive X-ray fluorescence analysis (EDXRF) method. The measurement and control software allows for the simultaneous thickness measurement and analysis of even complex coating systems, with or without calibration standards. Fischer has instruments for the analysis of jewelry and precious metals and also the analysis of hazardous substances in electrical and electronic equipment.

For additional information regarding the measurement of coating thickness, hardness measurement, or material analysis contact Fischer Technology at 860-683-0781 or visit us online at www.fischer-technology.com

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IN THE NEWS

Without a doubt, the seminar provided a great learning and networking opportunity.

Karen McGlothlin is the Executive Director of The Electrocoat Association. Web site www.electrocoat.org. Call 800-579-8806 or email kmcglathlin@electrocoat.org with comments or questions.

Company News

Ferrinov announces exclusive distribution agreement with Univar for the Canadian market

Canadian company Ferrinov, which has achieved a major technological breakthrough in the production of anticorrosion pigments, signed in January 2010, an exclusive five-year agreement with the chemical distribution company Univar Canada for the distribution of eco-friendly pigments on the Canadian market. The agreement will enable Ferrinov to further optimize the use of its plant in Sorel-Tracy, Quebec.

This marks the second distribution agreement for Ferrinov within the past few months. Last June, the company inked an exclusive five-year pact with Wonder Technology Co. Ltd. for the distribution of some 6,000 tonnes of "green" pigments in the Chinese market.

"Our agreement with Univar Canada is excellent news for Canadian manufacturers of industrial paints, since they already do business with Univar's CASE Group, they will be able to procure our innovative pigments more easily," says Ferrinov President Louis Archambault.

Ferrinov's anticorrosion pigments, advanced after 10 years of research and development, mark a major technological breakthrough for many types of high-value infrastructure. New patented technology provides for the production of higher-performance anticorrosion pigments that are economically and ecologically sounder in addition to being compatible with all paint formulations.

With anticorrosion properties superior to any other pigment currently on the market, Ferrinov pigments allow for the production of much longer-lasting paints, which results in less frequent repainting and, in turn, considerably reduced labour costs and lower downtime of production equipment for a vast array of infrastructure and high-value equipment.

Taking a proactive environmental stance, Ferrinov has devised a hydrometallurgical process to make pigments requiring only 15 per cent of the energy needed by conventional technologies. Their production helps reduce greenhouse gases, with the manufacture of a tonne of Ferrinov pigments avoiding the emission of 4.5 tonnes of greenhouse gases, compared with a similar quantity of pigments produced by means of conventional pyrometallurgical technologies developed more than 100 years ago.

In addition, the hydrometallurgical process developed by Ferrinov keeps substantial volumes of steel plant dust away from landfill sites by converting it to pigments. The process also avoids the mineral extraction and mining-waste management engendered by the traditional

production of pigments.

Ferrinov Inc., founded in 1998, has its head office in Montréal and its plant in Sorel-Tracy, Quebec. It owns a patented technology for the production of a new type of active anticorrosion pigments. Ferrinov pigments are easy to recognize, with a unique signature, and they are also patented. The company currently employs a dozen people. For more details, visit the company's website at www.ferrinov.com. Ferrinov's new active anticorrosion pigments are produced at its plant in Sorel-Tracy under patented technology.

Univar is one of the world's leading independent distributors of industrial and specialty chemicals and related services. Univar provides its customer base, made up of 250,000 customers, with a full portfolio of products. Univar operates a network of approximately 170 distribution facilities throughout North America, Europe and China. In 2008, Univar reported sales of \$9.4 billion. For more information, visit www.univarcorp.com.

CanLak Opens a Mississauga Warehouse

CanLak, the Daveluyville, QC, manufacturer and distributor of wood finishes has opened a 4,000 sq. ft. warehouse, laboratory and blending operation in Mississauga ON to better serve their Ontario Distributors and customers.

Ron Wilson has joined CanLak as General Manager. Over the past 17 years Ron has held several management positions in the coatings industry. With his industry and management experience he will make a strong contribution for the benefit of



Paul Sanderson, Ontario Sales Manager discusses colour matching with the new CanLak Ontario Branch Manager, Ron Wilson.

CanLak's customers. Paul Sanderson is the Sales Representative.

The address is:
5-7585 Torbram Road
Mississauga, Ontario, L4T 1H2
Phone: 905-673-2936
Fax: 905-673-3957

The products include solvent-based, water-based, UV coatings, low VOC, polyester and polyurethane finishes.

www.canlak.com

Arkema integrates Acrylics assets purchased from Dow

As of Jan. 25, 2010, Arkema formally completed its acquisition of Dow's Acrylic Monomers and Acrylic Latex Polymers (UCAR Emulsion Systems) business in North America.

Following this acquisition, the Clear Lake (Texas) Acrylic Monomers production site is being integrated into the existing Acrylics business unit, within the Industrial Chemicals business segment.

CORPORATE PROFILES

Comet Chemical Co. Ltd.

Quality - Service - Satisfaction

Comet Chemical Co. Ltd is an independent company of over 30 years, in business since 1974. The company was started by Jim Stewart and Bruce Peacock in Barrie, Ontario, as a service oriented, quality organization specializing in distributing organic solvents. Comet began by offering hydrocarbons from Texaco Canada and repackaging Celanese methanol. The company primarily targeted the central Ontario paint, coatings and ink markets.

Today, Comet Chemical now distributes a full range of hydrocarbon solvents, glycols, ketones, glycol ethers, ester acetates, amines and other specialty chemicals from major manufacturers from around the world. Comet Chemical is an approved distributor for Dow Chemical, Sunoco, Sasol Chemical and other specialized chemical manufacturers worldwide.

Distribution and supply partners across Canada and the US have added to the company's success. Comet

prides itself on time delivery and keeping the products it sells in stock at its facility in Innisfil, Ontario.

The company, located on a five-acre site, off the major 400 series highway have railway, bulk storage and warehousing under one roof. Plant expansions over the years include 40,000 sq. ft. warehousing, an additional truck fleet of stainless steel compartment tankers, van trailers, the addition of tank farm capacity to close to 1,000,000 liters in 55+ tanks, rail capabilities and expanded prod-

uct offerings in quantities from intermediate bulk, returnable totes and drums, to pail quantities. Specialized blending, formulating and private labeling are all services Comet excels.

The ability to source product from manufacturers globally has made Comet more competitive in the marketplace. Comet's procurement of new products in a changing environment, as well as low overhead costs, have made it possible to pass along the cost savings to its customers.

Quality- Service- Satisfaction is the basic tenets to which the company operates. Superior product quality and outstanding customer service is what sets Comet apart.

Comet currently has 24 employees, the company is family owned operated for 35 years. There was a management change in 1996. Subsequent years were strong ones due to a focus on a specific product mix and aggressive encouragement of employee commitment to the customer base. Comet is one of the smaller Canadian distributors, but make up for its small size with a total customer commitment. Comet's ability to react quickly to changing market conditions and respond to its customers' needs promptly differentiates Comet from competition.

Comet is an active member of the Canadian Association of Chemical Distributors (CADC), and endorses Responsible Care of chemicals through the Canadian Chemical Producers Association (CCPA) and the CADC Responsible Distribution Code.

Comet is able to offer prompt and reliable service to over 500 customers across Ontario and Canada. Comet offers on-site rail capabilities as well as bulk storage and warehousing located in nearby Innisfil, Ontario, just 70 km north of the Greater Toronto Area.

The company's success stems from its focus on a specific product mix and its ongoing commitment to the customer base.

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The Acrylic Latex Polymers activity forms a new business unit dedicated to the paint, coatings, adhesives and construction product markets – Arkema Emulsion Systems. This new business unit will be part of the Industrial Chemicals business segment.

Richard Jenkins has been appointed President of this newly created business unit.

Arkema Emulsion Systems is headquartered in Cary, N.C. and operates three latex production facilities in Torrance, Calif., Alsip, Ill., and Hahnville, La. Research and development, marketing, sales and administration functions are located at the Cary, N.C. headquarters.

The Polyphobe Rheology modifiers formerly in the UCAR Emulsion Systems product line are being integrated into Arkema's Coatex subsidiary. By supplying Polyphobe products, Coatex will extend its portfolio for the Paint and Coatings industry to the United States, Canada, Mexico and Puerto Rico markets.

Richard Jenkins was previously the General Manager of Dow's UCAR Emulsions Systems and Monomers business. He has more than 23 years of industry experience covering a range of technology, marketing and business leadership positions both in North America and abroad.

He holds a doctorate in Chemical Engineering from Lehigh University and has amassed 29 Patents and 70 publications of scientific papers to his credit throughout his career.

A global chemical company and France's leading chemicals producer, Arkema consists of three

businesses: Vinyl Products, Industrial Chemicals and Performance Products. Arkema reported sales of 5.6 billion euros in 2008. Arkema has 15,000 employees in over 40 countries and six research centers located in France, the United States and Japan. With internationally recognized brands, Arkema holds leadership positions in its principal markets.

Innovative Finishing Solutions Moves

Innovative Finishing Solutions Inc. has moved to a new location in Orangeville, Ontario.

All web and email addresses remain the same.

Their new mailing address is:

Box 266, Orangeville, ON, L9W 2Z6.

Their main address is:

72 Centennial Units# 3-4,
Orangeville, ON, L9W 1P9,
tel 519-943-1111, fax 519-943-1148,
www.innovativefinishing.ca.

New North American Office for Cefla

Cefla Finishing Group of Imola, Italy, announces the opening of its new North American headquarters in Charlotte, North Carolina. The 150,000 square foot facility is Cefla's largest investment outside of Italy. The company says this commitment to the North American finishing market comes from customers' increasing demand for expansion of products and services.

Cefla will consolidate all current North American operations in the new facility. It will include 75,000 sq ft of manufacturing and 15,000 sq ft of application laboratory and machine show-

room, thus making the new Lab one of the largest in the world.

Service, Parts, Finishing Education, Sales, and Administration of the consolidated companies will function as a single source for finishing solutions and related services.

The headquarters' construction completion and occupancy is expected by early March 2010.

Sartomer Company and Cray Valley Realign Business Units

Global specialty chemicals manufacturer Sartomer Company and sister company Cray Valley, both part of Total's chemical branch, are realigning their organizations to better synchronize products and services with customers and markets. The changes become effective January 1, 2010.

Sartomer's photocure business will operate as a new business entity, Sartomer USA, LLC. Sartomer will drive market growth through more focused activity in UV/EB markets and non-rubber markets. Sartomer president Marcel de Wolf will continue his global management responsibilities.

A new business unit was created called Hydrocarbon Specialty Chemicals (HSC), which will operate as Cray Valley USA, LLC. This unit will handle the Norsolene and Wingtack tackifying resins, along with Poly BD, Ricon, Krasol, SMA, SR and Saret rubber coagents, which were previously marketed under the Sartomer name. Cray Valley will continue to market the company's hydrocarbon line as it has done since June 2007. Charles-Henri Robert will be the president of the new HSC business unit. The units will be headquartered in Exton, PA.

Viking Improved Aftermarket Service

To serve our customers better, Viking Pump of Canada Inc. is pleased to announce its improved aftermarket service capability. With a service centres, service trucks, mechanics, fully equipped repair shops, and local inventories, Viking Pump Canada will provide its customers 24-7-365 aftermarket service.

The trained and certified service centre facility provides customers with in-shop repair, on-site service, inspections, warranty, and maintenance for Viking Pump Canada product brands including Viking Pump, Vican, RotoKing, Sandpiper and Marathon.

Allowing Viking Pump of Canada Inc. to provide this 24-7-365 aftermarket service is the appointment of ten new Authorized Service Representatives.

The Year's Most Popular Car Colors Announced

DuPont announced that silver, black and white are the top colors in its ranking of worldwide vehicle color popularity. Now in its 57th year, the annual DuPont Global Automotive Color Popularity Report is the original source for automotive color popularity. With detailed breakdowns for the top automotive markets, the report includes this year's newly announced top global colors.

This year, silver ranked as the most popular color, with 25 per cent. Black came in second with 23 per cent, and white ranked third with 16 per cent. Gray, blue and red ranked fourth, fifth and sixth respectively, with 13 per cent, nine per-

CORPORATE PROFILES

Conn and Company

Meeting Mixing And Blending Needs For More Than Half A Century

Conn and Company headquartered in Warren, PA, USA, has been designing and manufacturing industrial mixing equipment for 60 years. Conn builds equipment to meet the customer's requirements with air or electric drive specifications to suit operating conditions; horsepower to suit service conditions; dimensional design to suit operating conditions or existing tank. The company firmly believes in keeping it simple, durable and functional.

"Conn and Company just needs the customer's requirements and will be happy to be of assistance."

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

The Conn Blades

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

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

The IT style has the louvers providing superior pumping action, but without the teeth. It is a high pumping,

low shear, blending blade and is excellent for mixing micro spheres or flakes or other fillers that need to be well mixed, but not destroyed. The ITC CONN Blade is an 8-vane open style blade providing excellent material flow, with more shear than the IT, but is not as aggressive as the ITT. The newly patented P-ITT CONN Blade is of UHMW Polyethylene and is excellent for highly corrosive or highly abrasive mixing. The P-ITT CONN Blade is the most efficient and aggressive poly blade available.

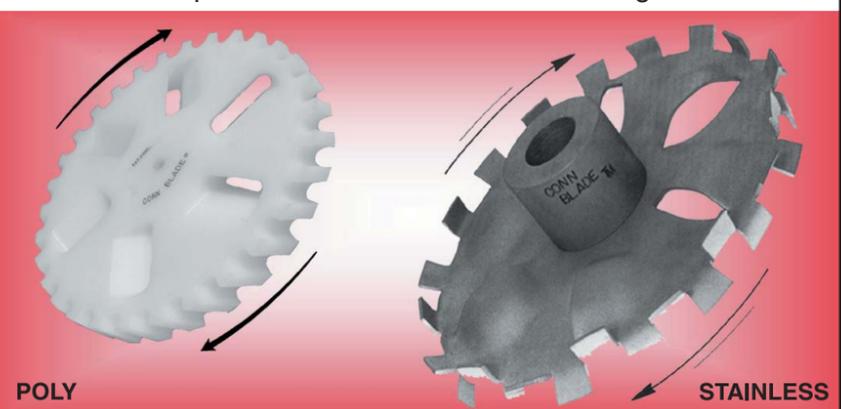
The Conn blades are available from 2" diameter to 48" diameter with mounting holes or mounting hubs to retrofit and upgrade a customer's existing equipment. Split construction is available for entry through manways. Conn also manufactures complete units and drive assemblies to mount on your tanks. Conn supplies air or electric utility/laboratory mixers, spool-type top entry for flange mounting to the customer's tank, and drive assemblies for mounting on bridge support for open top tanks. Conn and Company just needs the customer's requirements and will be happy to be of assistance.

Conn handles all worldwide sales from the home office in Warren, PA. Contact Richard C. Freeman at rcfreeman@connblade.com, call 814-723-7980 or fax 814-723-8502. Web site: www.connblade.com

"Conn and Company recognized the need for blending blades and dispersion blades that provided true pumping action instead of plowing action."

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- * Less heat due to shorter required running time.
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IN THE NEWS

cent and eight percent. Brown/beige received four percent and green and yellow/gold each received one percent.

"By gathering and analyzing color popularity data around the globe, DuPont is able to better identify trends and help our customers in the automotive industry develop color palettes for the future," said Nancy Lockhart, Color Marketing Manager for DuPont OEM Performance Coatings. "The auto industry is an increasingly global business, so regional and global color data are vitally important to designers."

Although the results suggest an ongoing convergence of color choice globally with color preferences becoming more homogeneous across regions, distinct regional differences remain. The top three colors, black, white and silver, continue to show strongly around the globe with growth of these colors across regions.

"It's important to recognize that most people today, no matter where they live in the world, have access to cutting-edge information about popular colors from many sources like glossy magazines and fashionable websites and often will see the same widely distributed films," said Leatrice Eiseman, Executive Director, Pantone Color Institute and author of the blog *Eisemancolor-blog.com*. "The top colors become 'aspirational' with a universal appeal."

"There are still distinct regional differences in preference, but global trends are unmistakable," said Lockhart. "Color preference can change from year to year because of a variety of factors includ-

ing types of vehicles introduced, reduced vehicle size, consumer tastes and even the economy. These and other cultural, societal and demographic influences can shift regional trends over time."

In North America, white (17.8 per cent) remains the top color choice with black (17 per cent) and silver (16.7 per cent) in second and third place. However, examining black's popularity over time shows it is rising, up six percentage points from 2005, while silver and white have dropped in popularity by about two points over the past five years. Chroma colors blue and red remain solidly popular in the North American market, rising from 11 percent in 2006 to approximately 12 per cent this year.

In Europe, the top color black (27 per cent) continues to gain popularity over silver (19.9 per cent), which is continuing to decline. White is growing in popularity but remains a second-tier color with 10.2 per cent of the market.

Japan saw a wide swing of color popularity for the year, ultimately aligning more with the North American and European markets. White remained the top color choice at 28 per cent, dropping four points from 2008. Silver dropped five points to 23 per cent, tied with black.

In contrast, the Chinese vehicle market experiences fluctuations in color preference. Silver rose four points to 36 per cent for the year to remain the top color, with black dropping eight points to 23 per cent as the second most popular color. As this market continues to grow, there will likely be less variation year to year.

The market in India shows strong preference for silver (26.4 per cent), white (23.4 per cent), red (16.1 per cent) and blue (10.9 per cent) with the remaining colors each garnering six percent or less of the market. Of interest, the Russian market looks similar to India with strong chroma colors mixed throughout the rankings, most noticeably in the green area. In the Russian rankings, silver was first (23.4 per cent), followed by green (18.2 per cent), black (16.7 per cent), blue (15.5 per cent) and red (10.8 per cent).

Sansin Expands its Wood Protection Line with New Dealer Network in Alberta

The Sansin Corporation, Strathroy, ON, announced that its Enviro Stain products will now be available throughout Southern Alberta through a new partnership with Overwalls Paint and Decor in Calgary, Alberta. Overwalls will carry Sansin's complete range of interior and exterior wood coatings and sealants. Sansin's non-filming, waterborne alkyd formulas combine the benefits of both oil and water-based coatings, using water as the vehicle to allow oil to penetrate deep into the wood, leading to long-lasting durability and easier maintenance, unlike film-build coatings that can crack or peel, according to the company. Sansin's range of stains is available in more than 80 colors.

People

Nordson Corp. Names New President and CEO

The board of directors of Nordson Corp. has named Michael F. Hilton as the company's new President

and Chief Executive Officer, effective Jan. 16, 2010. Hilton, who will also join the Nordson Board of Directors, will succeed retiring President and Chief Executive Officer Edward P. Campbell. Campbell will continue to serve as Nordson's Chairman of the Board until the company's Feb. 16, 2010, annual meeting of shareholders, at which time he will be succeeded by current Nordson Director Joseph P. Keithley.

Hilton has served since September 2007 as Senior Vice President and General Manager for Air Products and Chemicals Inc., with specific responsibility for leading the company's \$2 billion global Electronics and Performance Materials segment. He joins Nordson after a 33-year career at Air Products.

Patrice Barthelmes appointed CEO of Eliokem

Patrice Barthelmes has been appointed CEO of Eliokem, a worldwide specialty chemical company.

Barthelmes served as Vice President and Director for the Packaging & Building Materials Division (USD 2 billion) of Rohm & Haas that he joined in 1999 until its buyout by Dow Chemical in 2009 where he was appointed Vice President and Group Director for its Adhesives & Functional Polymers Division.

Barthelmes started his career in 1983 as R&D manager at Air Liquide. In 1989 he joined Sanofi

continued on page 12



CORPORATE PROFILES

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ANGUS is the world leader in supplying multifunctional amino alcohol chemistry to the Paint and Coatings market. We offer:

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- In-depth application expertise
- Customer focus to provide value-added solutions to the market
- Global manufacturing and supply chain with a regional focus

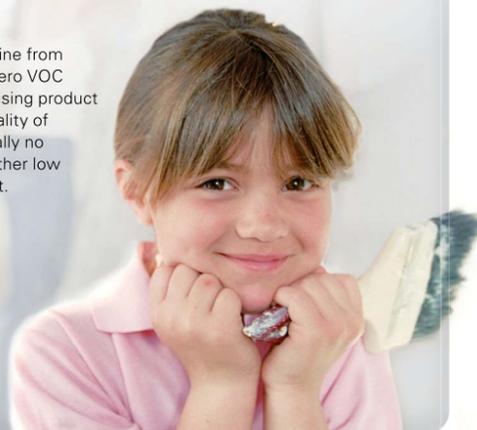
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Visit www.ANGUS.com for more information.



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Since its original patent application in 1936, ANGUS Chemical Company (ANGUS), a wholly owned subsidiary of The Dow Chemical Company (Dow), has developed and manufactured nitroalkane-based chemicals. This understanding of nitroalkane technology has enabled us to successfully deliver a range of nitroalkane-solutions for customers.

People. People are the core of our business. No matter where you are located, our synthesis and application specialists can help you explore the potential of nitroalkane chemistry to solve individual needs.

Chemistry. ANGUS is the world's only company dedicated to nitroalkanes and their derivatives. Nitroalkane chemistry possesses the reactivity to efficiently create complex molecules, reduce reaction steps, optimize synthesis costs and perform a myriad of useful transformations. Employing this unique chemistry, ANGUS can produce literally thousands of nitroalkane derivatives to create potential solutions for customers.

Commitment. Uncovering innovative solutions is just the beginning. Our commitment to customers is supported by state-of-the-art analytical laboratories at our Customer Application Centers around the world, best-in-class manufacturing facilities and the resources, global supply chain and distribution network of The Dow Chemical Company. For more than 70 years, customers have challenged ANGUS to design efficient synthetic routes and production processes, as well as to evaluate problems and demonstrate how ANGUS technology can help them develop new formulations and provide products to capture more value in the market and meet the diverse needs of many end-use industries.

Solutions for Paint and Coatings Market. ANGUS is the leader in multifunctional amine technology to the Paint and Coatings market, providing a range of specialty additives designed to help formulators get the most out of their formulation. We have industry standard products, are leading innovators, and have in-depth coatings applications know-how to bring you solutions.

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levels, AMP contributes significant benefits to the overall performance of the coating. There is no alternative to the comprehensive performance of AMP.

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ANGUS also provides a range of specialty additives for paint and coatings, including DMAMP-80™, ALKATERGE™ and ZOLDINE™ product offerings. ALKATERGE products are used as corrosion inhibitors, emulsifiers and dispersants. ZOLDINE MS-PLUS Moisture Scavenger is used as a fast-reacting, low-viscosity oxazolidine-based water scavenger.

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DeFelsko also offers quality inspection instruments including the PosiTector 200 coating thickness gage for non-metal substrates including concrete, the New Automatic

PosiTector Adhesion Tester, the PosiTector Dew Point Meter with Magnetic Surface Temperature Probe Kit (optional) and PosiTector Ultrasonic Thickness Gage with your choice of standard or multiple echo thru-paint gages.

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MADE IN THE USA

The Newest in Pigments

By Sandy Anderson

WHEN IT COMES to new pigments in paint manufacturing, manufacturers of pigments answer the needs of their customers with bright new colours with gloss, weatherability and several other "in-demand" features.

Bruce Clatworthy Marketing Manager, Resale Manager for Dominion Colour Corporation (DCC) says the company is promoting three products with outstanding weatherability:

DCC7351 is a high performance

opaque yellow that has the highest weatherfastness of all PY.151's on the market according to Dominion. DCC7351 also has exceptional gloss retention and very good flocculation resistance.

In the orange colour space, DCC has launched DCC7136, an opaque high performance orange with outstanding rheology and opacity, superb heat and chemical resistance in addition to the outstanding weatherfastness.

A third high performance pigment that DCC has launched recently is DCC7139, Isoindoline Yellow, with high hiding

power and excellent flocculation resistance. Dominion will be introducing Bismuth Vanadate (PY.184) and Indathrone Blue (PB.60) following the acquisition of the Ciba businesses from BASF SE.

Bismuth Vanadate is a brilliant green shade, high opacity yellow with excellent weatherfastness and heatfastness.

Applications especially suitable are automotive, architectural and industrial coatings and polyolefin and polyamide fibers for plastics.

Indathrone Blue is a highly transparent, red shade blue, high performance

organic pigment with very good fastness to light, heat, solvents and chemicals and is well suited for automotive, general industrial, coil and powder coatings, PVC and polyolefin plastics and fibers, and liquid and oil inks.

DCC has an extensive R&D group that is constantly working on pigment innovation. "Typically, innovation is customer driven," says Clatworthy. "A customer has a problem and DCC's R&D group formulate solutions for the customers." He says, "It is not uncommon for a customer to have a unique product

CORPORATE PROFILES

Alberdingk Boley, Inc.

Alberdingk Boley is a global manufacturer of waterborne emulsions and polyurethane dispersions, providing intelligent and environment-friendly solutions to the coating industry. The US manufacturing facility in Greensboro, NC, produces a variety of products including acrylics, styrene acrylic, epoxy acrylic hybrid emulsions and polyurethane dispersions.

Alberdingk Boley's origins date back to the third decade of the 19th century, focusing on the industrial extraction of linseed oil and production of linseed oil varnishes in Germany. After the second world war, Alberdingk evolved into a manufacturer of specialty products with a reputation for supplying top-quality binders for paints and inks. Encouraged by the market and customers, the privately owned company began production of water-based emulsions in the 1970s followed by water-based polyurethane dispersions in the 1980s. In 2000, Alberdingk Boley, Inc was established in North Carolina with its first production beginning in 2004. In early 2006, Alberdingk Boley, Inc continued to grow by taking over the production and sales of the MeadWestvaco line of emulsion polymers. Today Alberdingk Boley, Inc. offers a full line of waterborne emulsions and dispersions for a variety of substrates, including waterborne UV polyurethane, and waterborne resin for concrete.

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

- Acrylics
- Polyurethane Dispersions
- UV Curable Dispersions
- Acrylic Polyurethane Copolymers
- Acrylic Epoxy Hybrids

A new line of castor oil polyols is also available.

Our water-based emulsions were designed for coatings over a variety of substrates:

- Wood
- Concrete
- Plastic
- Metal
- Textiles
- Leather

Alberdingk Boley's vision is to make a significant contribution to environmentally sustainable technological progress. In addition to the company's core competency of the development of water-based products, Alberdingk Boley has invested in the development of additional eco-friendly characteristics of its products including low VOC formulation capability and NMP free and renewable sourced PUDs.

Visit www.AlberdingkUSA.com for further information.

Alberdingk Boley, Inc.
At the American Coatings Show
Charlotte, NC
April 13-15, 2010
Booth Number: 2841

ALBERDINGK® OP 100 is a > 80% renewable urethane-modified oil polymer grade. This product offers good stain resistance on hard and soft woods providing excellent wood warming comparable to traditional, solvent-borne binders. It may be applied as a one-component or two-component system.

ALBERDINGK® LUX 250 is a solvent-free hard-elastic UV curable PUD that is developed for clear and pigmented wood and plastic coatings with excellent scratch

resistance and very fast flash-off time. It has excellent chemical and stain resistance.

ALBERDINGK® LUR 3 is a solvent-free polyurethane dispersion based on linseed oil. It offers a unique combination of alkyd-like gloss, flow and gloss retention while providing mechanical and weathering properties similar to a urethane.

ALBERDINGK® AC 2728 is an aqueous self-crosslinking acrylic copolymer with excellent chemical resistance, blush resistance, hot tire resistance, gloss and block resistance. It can be used on multiple substrates including wood and high performance masonry and plastics.

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CORPORATE PROFILES

Andicor Specialty Chemicals

Andicor Specialty Chemicals Corporation is a full-service national distributor of specialty chemicals and packaging for the Paint and Coatings, Industrial Specialties (including Building Products, Adhesives and Sealants), and Plastics markets.

Andicor's mission is to be a seamless extension of the suppliers it represents, offering:

- competitively-priced value-added products from some of the world's leading producers
- superior customer service
- knowledgeable and responsive sales staff
- local warehousing and delivery services

Andicor first began operations in January 2003, representing Chemirco Chemicals (which later became SI Group Canada and which was recently acquired by OPC Polymers), at the time Canada's leading producer of alkyd resins for the paint and coatings market.

Within months of its inception, Andicor represented a number of key suppliers, which became the foundation for future growth, including Sud-Chemie (rheological and performance additives for the paint, ink, and building products markets, and now part of Southern Clay Products), Fuji-Silycia (micronized silica gels, used primarily as matting agents for coil and wood coatings), and Georgia Industrial Minerals (muscovite mica). Over the following months and years, Andicor added other key

suppliers to complement their existing product lines, Rütgers Chemicals (hydrocarbon resins), Wayne Pigment (anticorrosion and tannin stain-inhibiting pigments), and in 2007, Andicor was appointed Canadian distributor of Araldite epoxy resins and Aradur epoxy hardeners from Huntsman Advanced Materials and Eastern Canadian distributor for Chemguard fluorosurfactants.

Andicor expects to continue growing in a controlled manner, ensuring that our existing supplier partners are well-represented before considering others. Late in 2008, Andicor was delighted to announce that it had signed an agreement with Bway Corporation to be their master distributor in Canada. Bway is North America's

largest manufacturer of general line and round paint cans and one of its leading manufacturers of steel pails. Bway also is the parent of one of Canada's leading manufacturers of open-head plastic pails, ICL Industrial Containers, which complements Bway's NAMPAC line of plastic tighthead containers. This new relationship will allow Andicor to strengthen its position as Canada's leading national distributor of packaging products, offering a full range of packaging products from ¼ pint tin containers up to 60 litre plastic drums.

Andicor recently moved its headquarters and main warehouse to a larger facility in Mississauga, Ontario. Additional warehousing is located across the country, ensuring next-day delivery to virtually their entire customer base.

Andicor is a sales and service-oriented distributor with sales representation across Canada, and is continuing to increase its coverage by adding more salespeople and inside support to maintain the high level of service expected of us by our customer base.

Andicor meets the CACD (Canadian Association of Chemical Distributors) Responsible Distribution: 2008 Code and is also a member of CPCA (Canadian Paint & Coatings Association).

Given the success they have enjoyed in their first 7 years of operation, Andicor is well positioned to reach their goal of becoming one of Canada's leading specialty chemical and packaging product distributors.

Key members of Andicor's team:
Steve Waters President & CEO
John Roeleveld V.P. Sales & Marketing
Ron Jerome CFO
Don Martyn Regional Sales Manager, Ontario
Ray Nordstrand Regional Manager, Western Canada
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Group as Marketing Product Manager and in 1994, Systems Bio Industry (SKW Group) where he held successively the positions of Marketing and Sales Director for the Specialty Additives Division and Head of the Flavors & Fruit Systems Division.

Patrice Barthelmes graduated in Chemical Engineering and holds a Master's degree in Environment from the INSA University, Toulouse, France (1983). He also attended an International Management course in the IMD Business School, Lausanne, Switzerland, (1998). Patrice Barthelmes, aged 52, is married and has 3 children.

Industry News

Important bulletin from the ECHA on the enforcement of EU's REACH regulations

Earlier in 2009 the ECHA began an enforcement project, REACH-EN-FORCE1 that inspected the compliance of both manufacturers and importers. Inspectors undertook two major activities:

- Determining if manufacturers and importers have pre-registered or registered their substances- Inspecting Safety Data Sheets (SDSs) for REACH compliance

The second enforcement project, which will begin in 2011 will investigate formulators of mixtures to determine whether or not they are compliant with EU regulations, as they pertain to both registration and SDS compliance.

If your company manufactures products in

Europe, transports products to Europe, sells products in Europe or exports to Europe, you will need to be vigilant that your substances are pre-registered and registered (if necessary) with the ECHA and that your SDS/MSDSs meet the up-to-date EU standards. Given the resources at the ECHA's disposal and the penalties for non-compliance, ensuring your company is REACH compliant should be of the utmost importance.

The full ECHA News Alert is available here: http://echa.europa.eu/doc/press/na_09_34_forum_20091214.pdf If you have any questions or concerns please do not hesitate to contact Nexreg Compliance.

Nexreg Compliance, Inc.
Toll Free: (866) 361-3032
Phone: (519) 488-5126
Fax: (519) 488-5217
Web: www.nexreg.com

Martha Stewart and Home Depot

Martha Stewart will push Ralph Lauren off the paint shelves of The Home Depot in 2010, according to a joint announcement.

The world's largest home improvement retailer and Martha Stewart Living Omnimedia Inc. (MSLO) will develop an exclusive Martha Stewart Living brand of interior and exterior paint, the announcement said.

The Home Depot will also sell Martha Stewart Clean, a new Eco Options-certified line of cleaning products, developed with and marketed by the Hain Celestial Group, Inc.

The Martha Stewart Living paint palette will consist of 280 handpicked colors created by Martha Stewart and the MSLO design team. All colors will be available in interior and exterior paint in four interior and two exterior sheens. In addition, the interior paint palette will be available in 8-ounce tintable testers, and 12 of "Martha's Picks" will be available pre-tinted.

Developed in a partnership with and manufactured by AkzoNobel, Martha Stewart Living Paint will be available at The Home Depot stores across the U.S. and Canada in March 2010.

Martha Stewart Clean will include 10 environmentally friendly cleaning products for laundry, kitchen, bath and general cleaning needs for every room. Martha Stewart Clean will carry the Eco Options label, The Home Depot's certification for products that meet certain environmental performance criteria.

Martha Stewart Clean will be available at all The Home Depot stores across the U.S. starting January 2010.

The deal will follow the end of Stewart's 12-year-old deal with Kmart, which had earned up to \$1 billion a year for the chain. At the same time, Home Depot will discontinue its line of Ralph Lauren Paints.

The Home Depot announced in September that it would partner with MSLO to weave the Martha Stewart Living brand throughout many of its other categories. The two companies are also developing additional product offerings that will be available in 2010.

Energy Connections 2010 Summit

Canadian Manufacturers & Exporters (CME) Ontario, in partnership with the Ontario government, is hosting a one-day summit to create interest and linkages for Ontario's manufacturers in Canada's fast-growing energy industries. It is set for Thursday, March 4, 2010 at 8:00 am to 4:00 pm, International Centre, 6900 Airport Road, Mississauga, ON.

The summit will focus on building awareness of business and supply chain opportunities in the Nuclear, Wind, Solar, and Oil & Gas sectors, as well as opportunities around the Smart Grid infrastructure. There will be break out sessions on these topics. Also included is a discussion panel with Bill Smith, Sr. VP of Power Generation-Siemens Canada, Dr. John MacDonald, Chairman & CEO-Day4Energy Inc., Neil Alexander, President-Organization of CANDU Industries, Juan Marcias, GM Protection & Control-GE Digital Energy and Chris Boomer, COO - Petrobank. Also scheduled to speak are Hon. Sandra Pupatello, Minister, Economic Development & Trade, Ian Howcroft, Vice President, CME Ontario and Jayson Myers, President & CEO, CME.

Cost is \$150 + GST - 50% discount (\$75 + GST) for CME Members, National Buyer Seller Forum Pre-Registrants, CanWEA and CanSEA Members, and Organization of CANDU Industries (OCI) members.

For more information contact Terry Adamo 905-672-3466 Ext. 3257, Terry.adamo@cme-mec.ca, www.cme-mec.ca/on.

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CORPORATE PROFILES



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Chemroy Canada Inc.

OUR COMPANY

Chemroy Canada Inc. is a leading Canadian Specialty Chemical and Food Ingredient distributor established in 1967. We supply value added chemicals, ingredients and lab-related equipment, which are manufactured by leading global chemical suppliers. Key markets served are the Coatings, Construction, Food, Pharmaceuticals, Inks and Adhesives/Sealants industries. We carry over 1200 products to support our Canadian customer base, looking to provide cost effective products in a timely manner.

OUR PRODUCTS

Products provided by Chemroy to the Canadian Coatings Industry are biocides, coalescent agents, dispersants and surfactants, pigments/dispersions, rheology modifiers, waterborne resins, crosslinkers, and high solid resins. These products are used in industrial, architectural and automotive coatings applications, meeting specific technical and aesthetic needs. With the drive to Low VOC and "green" products, Chemroy has resins and additives packages to meet most formulation, performance and cost goals.

OUR MOTTO

We work daily by our company motto: "We are proud to be known by the company we keep". This pertains to our customers, suppliers and employees. Customers have come to trust Chemroy's hands-on expertise to deliver quality chemicals and additives.

We work hard to earn their business with quick response times and quality technical suggestions. Our suppliers are global industry leaders to ensure the quali-

ty/supply of their products. They bring innovation to their respective industries and chemistries. Chemroy Canada Inc. is a customer-focused distributor with our unique "customer" approach to the marketplace. We have engaged and passionate staff who are looking to help our customers find the right product for their specific application and need.

OUR FACILITIES

Our warehouses in Toronto, Montreal and Vancouver service our large customer base quickly and efficiently. We have established Customer Service operations in both Toronto and Montreal. We are ISO 9001 certified at our Brampton site and are part of the Canadian Association of Chemical Distributors (CACD).

OUR SAFETY COMMITMENT

We believe that safety comes first. We demonstrate this in the way we work each day, and it is why we only deal with suppliers with established and enforced health and safety programs. Chemroy is a charter member of the CACD (Canadian Association of Chemical Distributors), which is committed to compliance within the "Policies on Responsible Distribution" and ensures that we will not distribute chemicals or ingredients unless it can be done safely and in accordance with the highest standards established by the association and governmental laws.

Chemroy Canada began in the Canadian Paints and Coatings industry over 40 years ago. We take pride in being part of this important market for the Canadian economy.



AC

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What's **New** in Low VOC

BY JON FEDDERS

Q: When it comes to low voc additives in the manufacturing of paint and coatings...What's New relative to new products, technologies, customer concerns, overall trends or R&D?

Around the globe, one trend that paint formulators continue to face is the need to reduce VOCs and odor in their products. Tightening government regulations and consumer concerns have led to increased demand for VOC and odor-free paints and finishes.

ANGUS for example, now offers two multifunctional amines that offer paint formulators regulatory benefits, as well as

multifunctional performance: AMP™ Multifunctional Amine and a new product, AEPD™ VOX 1000 Multifunctional Amine for interior water-based paints.

AEPD™ VOX 1000 Neutralizing Amine can help you formulate Zero VOC (<5 g/L) paints without compromising product quality. Simply put, AEPD VOX 1000 is a tool that helps formulators market no odor, no VOC paints. Key benefits include:

All the functionality of the industry standard AMP, providing assurance that the quality of paints is maintained

Has very low odor and gives no detectable odor in paint, improving workplace conditions and providing the ability to market low odor paints

Minimizes total VOC through raw material reduction thanks to its multifunctional characteristics, thus providing cost optimization tools to formulators

Has high neutralizing efficiency without significant cost contribution to the paint formulator

Keeps formulation stability high, enabling longer shelf life products

Provides co-dispersing properties, allowing pigment and dispersant cost reductions

Increases open time, allowing higher quality paint

Innovation is a key component of our company's growth strategy and continues to strengthen our leadership position.



ANGUS has made significant investments in research and development capabilities, as well as in our multiple regional Customer Application Centers, to provide customers with access to industry experts and the leading solutions they need to stay competitive in the global marketplace. ■

Jon Fedders is the Global Strategic Marketing Manager for the ANGUS Chemical company.

CORPORATE PROFILES

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Debro Chemicals

Debro Chemicals was first established in Canada in 1921 as a distributor of raw material used in the manufacture of paints and coatings. As a key part of the 3 billion dollar Amalgamated Metals Corporation PLC global family of companies, Debro Chemicals has been able to attract, and retain long-term relationships with many of the world's top manufacturers of coatings raw materials. From pigments, resins and additives to performance minerals, Debro Chemicals is positioned to provide coatings manufacturers across Canada with a competitive source of many key products. Debro is one of the industry's most respected organizations among its valued principal partners and its many customers from coast to coast.

Where is Debro heading?

Debro Chemicals has long been a pioneer in the distribution business in Canada and key to the company's continued longevity and unparalleled success, is a strong understanding of where Debro came from and a culture that will attract and retain the best and the brightest people in the industry. In 2010 we sport a new company logo and are updating our web site. Our Montreal office recently moved to a new location in a prestigious modern office complex in Dorval. We had also out grown our warehouse and transportation needs and at the same time as our office relocation, we moved the warehouse into an efficient space which allows for our anticipated growth into the future.

Key People

Paul Ruffo, VP Sales and Marketing. Paul brings unsurpassed surfactant knowledge to the team.

Bert Papenburg, Director of Marketing - Specialty Chemicals, is responsible for direct communications on all product related initiatives with our key coatings material suppliers. As a past Technical Director he brings excellent technical knowhow to the team. Bert is on the MSCT executive, and a past President.

Gagan Jain, Account Manager in the Ontario region, a Chemical Engineer and in sales in the chemical industry over 15 years and a long time member of TOSOT and past Chairman of the SCC, he brings his unique talent to the team.

Ron Yetman, Account Manager in the Ontario region. His vast raw material expertise is owed to his multiple years promoting raw materials.

Paul Proulx, Account Manager in the Quebec region. As a past formulator, and color lab Manager Paul brings his special expertise to the team. Paul is on the MSCT executive and chairman of the Education Committee.

Vernon Lo, Western Sales Manager based in Vancouver. Also a past Technical Director and past President of the PNWS currently active with the Coating Fest Symposiums, Vernon's expertise is complementary to the team's knowledge.

Supplier News

Rhodia acquires McIntyre

Specialty chemical producer Rhodia (wetting agents, surfactants, dispersants, defoamers and 0 VOC freeze/thaw stabilizer for paints) completed its acquisition of the McIntyre Group Ltd. McIntyre was a privately-held manufacturer of specialty surfactants, based near Chicago. The acquisition reinforces Rhodia Novacare's product range for personal cleansing and extends its offer for hair care, as well as home, institutional and industrial markets. It drives new opportunities for oilfield production and agrochemicals application.

PolyFox

PolyFox a Division of Omnova, is a family of novel fluorine-based polymers that are very different from conventional fluorochemicals available in the world today. The unique environmental characteristics, strong performance attributes make them excellent candidates for a broad range of applications such as: to improve flow, wetting and leveling of water-based, solvent-based or 100% solids UV-curable paints and coatings, and in cleaners, caulks, and adhesives, floor polishes, to improve durability performance such as scratch resistance, abrasion resistance, anti-blocking and cleanability.

They are considered environmentally preferable since they can degrade in the environment and not bioconcentrate. This has been shown by peer reviewed academic research, is because they are made only with short chain length perfluoro alcohols (C4 or less) as opposed to longer chain length perfluoro alcohols (C6 or greater).

Tronox

Tronox will not be sold to Huntsman, and as such it remains business as usual. In December, Tronox was very pleased to announce that they have successfully negotiated a plan term sheet for a reorganization that the key stakeholders have agreed to support. Tronox will now focus its time and energy on turning the term sheet into a plan that can be filed with the Bankruptcy Court and meeting the timeline and milestones for that process.

Debro continues to be the Canadian distributor for Tronox pigments.

Akzo Nobel Wood Coatings Ltd.

Established in 1976, Chemcraft International is now part of AkzoNobel Industrial Wood Finishes group after an acquisition in July 2007. AkzoNobel is the largest manufacturer of coatings globally and is proud to be supplying "Tomorrow's Answers Today" in all applications of coatings. At AkzoNobel we take pride in our core values of focusing on our customer's future first, embracing entrepreneurial thinking, developing the talents of our people, the courage and curiosity to question, and integrity and responsibility in our actions. Being part of a global leader in coating technology we have been able to combine the high level of service and technology that Chemcraft is known for with an even greater amount of expertise and technology that can be drawn from the global presence of AkzoNobel. The Chemcraft brand has not disappeared through this acquisition and continues to be the brand of choice throughout our strong distribution network. Throughout our history, we have pioneered the latest technologies and delivered them with unrivaled service, always while treating our customers as partners and this is a unique position in the market and this will not change.

We continue to drive and be the leader in "green" technology with a large percentage of our R & D time being spent coming up with new solutions to this growing requirement. We are in the final stages of launching a new complete line of water base coating systems that will have been developed with cost, application and performance being the main drivers for this product launch. With the emergence of L.E.E.D. and Greenguard driving the move to lower VOC and removal of formaldehyde we have complete systems to meet these finishing requirements with both conventional and UV cured technology.

Choose from our complete line of stains, lacquers, catalyzed coatings, urethanes, polyesters, and UV-cured wood coatings through the channel that best suits your needs—directly from our factory, or through extensively trained distributors who offer local service and delivery.

Your production line has unique requirements. Our field technicians and chemists will work together to customize our top-quality formulations for your existing finishing equipment, meeting or surpassing final product specifications while reducing your costs by improving efficiency.

Explore our Web site to learn more about how AkzoNobel can solve your finishing challenges and help your business thrive. Don't hesitate to contact us with questions or requests. As your partner, our success depends upon yours.

Environmental Concerns

AkzoNobel welcomes our role in helping to preserve our planet and currently are ranked #2 on the Dow Jones Sustainability Index. Beyond merely following the regulations governing manufacturing and our products, we strive to exceed the most stringent environmental standards without compromising the

look, durability, or ease of use that distinguish our coatings.

We developed a full line of 275 VOC g/l coatings in anticipation of regulation changes. Our carefully tested, fully compliant coatings enabled our customers to keep producing without delays when the stricter standards will take effect. AkzoNobel offers creative, customized system changes to reduce your VOC tonnage.

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

Distribution

We have a strong distribution network, which has trained staff to help you with all your fin-

ishing requirements and applications. To find a distributor near you please use our distribution website (currently being updated). www.chemcraft.com

Facilities

We have manufacturing facilities across Canada to serve each geographical area.

Akzo Nobel Wood Coatings Ltd.

Ontario

155 Rose Glen Rd., N
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L1A 3Z3
Ph. 1-800-263-7951

Quebec

274, rue St-Louis #6
Warwick, PQ
J0A 1M0
Ph. 819-358-7500

Winnipeg

1450 Willson Place,
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Ph. 204-452-7943

Calgary

5241-52nd St S.E.
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We Bring All the Pieces to the Table

For over thirty years, Chemcraft® has been proudly setting standards for industrial wood finishes. We've earned a reputation for innovative technologies and cost efficient systems; a reputation that will only grow stronger now that we're part of the AkzoNobel family. Our access to a worldwide network of technology and innovation experts will take our products and systems to a whole new level. A large part of that innovation is our eco-strategy; sustainability is a deeply embedded part of our philosophy, and the Chemcraft® brand of products embraces this vision fully. Our eco-friendly products give you lower Volatile Organic Compound (VOC) emissions without sacrificing performance properties and proves that there doesn't have to be a trade off for sustainability. Combine all that with our commitment to superior customer service and support, and you'll see that we have all the pieces in place to continue in our role as the industry leader for years to come. Chemcraft® is the *obvious* choice for industrial wood finishes. Visit www.chemcraft.com to locate your nearest distributor.

 **Chemcraft®**
A Great Finish is Only the Beginning

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INDUSTRIAL FINISHING: POWDER COATING

continued from front cover

change system is designed to offer color change capabilities in 10 minutes or less. These solutions can be retrofitted to existing finishing lines and provide better process management of color changes.

Meanwhile, Nordson's solutions to current industry demands are the Prodigy Line.

Nordson's Prodigy Generation II HDLV (high-density powder, low-velocity air) Powder Coating System with color-on-demand (COD) incorporates a high-capacity transfer pump, gun delivery pump and spray guns for an integrated powder coating solution. The COD unit is an automated color change option that allows the user to select a color from up to 28 hoppers attached to the system and is designed for ultra-fast, color changes with no contamination. The COD unit cleans out the pumps and hoses and loads the new color to the gun tip in less than 20 seconds. In addition to speed and efficiency, the COD system provides a high level of reliability and minimized maintenance requirements.

The state-of-the-art in powder coating technology, the Prodigy HDLV system improves transfer efficiency and material utilization. The system focuses on dense-phase powder transport with closed-loop digital flow technology. Moving more

powder with less air results in higher transfer efficiency compared to conventional venturi-style pumps. And using less compressed air to propel the powder to the gun means less overspray, more powder on the part, and greater powder material savings for the manufacturer.

So, industry demand is currently leaning toward unique colour and textures as well as ways to make the production line as efficient as possible and equipment manufacturers are listening.

Editor's note: Every effort was made to contact and elicit responses from manufacturers and distributors of equipment in Canada for this article. If we missed you, please send your information and we will make sure that you are included in future issues of CFCM. sandra.anderson@cfc.ca



CORPORATE PROFILES

Norspec Filtration

NORSPEC FILTRATION

NORSPEC FILTRATION LTD. is an industry leader in the supply of filtration products, serving the paint and coatings industry for close to 25 years. Norspec offers filters for both the industrial paint spray market and automotive collision repair aftermarket. Filters for downdraft spraybooths, crossdraft spraybooths, panel filters, diffusion media pads and blankets, paint overspray filters, high temperature filters, replacement filters for powder booths, compressed air filtration, compressor filters or liquid filtration. We are Canada's single source for filters.

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- Diffusion Media
- Paint Arrestors
- Intake Air Filters
- HiTemp Filters

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FILTRATION**

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info@norspec.com

Edmonton, Alberta:
Western Regional Office & Distribution Centre
4704-91st Avenue T6B 2L1
Tel: 780-468-9296 Fax: 780-468-5806
info@norspec.com

Norspec Filtration Ltd. has been a supplier of filtration products to the paint & coatings industries for almost 25 years. The company was founded in December 1985 by Company president and CEO, Bob Jackson along with his father, in a small office in Sarnia ON. Bob Jackson had experience working as an applications engineer for a multi national company, while his father had been the national sales manager for a large Canadian hand tool manufacturer. Initially selling compressed air filtration products, they focused on selling directly to large end user accounts and establishing a national distribution network. Both were convinced the company would grow quickly provided they offered exceptional customer service, technical support and prompt delivery. That philosophy proved to be true as the company has grown from 2 employees to more than 50 today.

The first few years were difficult, but Norspec's customer base began to grow. Customers began asking if the company could supply other filter products relating to compressors and compressed air. Before long they were distributing filters ranging from compressed air filters, HVAC filters, water filters, lube oil filters, hydraulic filters and process filters.

By 1990, the company had become well known as a single source supplier of filters. Since demand for this type of service was not being offered much elsewhere Norspec created a "Total Filter Management" program and started concentrating on all major industries across Ontario. Soon, high-volume customers such as General Motors, Ford and Chrysler were dealing regularly with Norspec Filtration Ltd. They also were selling filters to steel mills, pulp & paper mills, power plants, petrochemical plants and wide variety of secondary manufacturing operations.

In 1993, the company experienced another year of enormous growth and needed to expand and moved to larger premises. The new premises enabled the company to establish a small air filter manufacturing operation along with its filter distribution business.

A few years later, the warehouse was expanded again to 10,000 sq. ft. In January 1997, Norspec expanded again for a total of 35,000 sq. ft. to accommodate continuing demand for filters.

In the fall of 1997, the company opened a second sales office and warehouse in the Toronto area to satisfy growing customer demand. The building was 5,000 sq. ft. and catered to all commercial, industrial and paint & coating accounts. The company now employed more than 20 people, and Norspec Filtration Ltd. was known as

the filter supplier of choice by many companies.

It was then that Norspec Filtration Ltd. really started to focus on the paint & coatings industries. Combining their expertise in HVAC air filtration with a full line of ceiling and paint arrestor filters, Norspec sought out all Tier 1 and Tier 2 companies doing some type of spraying or coating of products. The company was now growing quickly.

In 1999, Norspec began full scale manufacturing of its HVAC air filtration product line. This enabled the company to fulfill customer orders much quicker and more cost effectively. It meant that filters, which used to be shipped long distances, could now be made in-house and delivered within 2-3 days to the customer.

In 2004, due to increasing demand for their products in Western Canada, Norspec Filtration Ltd. opened an office and warehouse in Edmonton, AB. It quickly secured several long-term "Total Filter Management" contracts for the supply of all filters for companies with facilities across North America.

In 2007, Norspec Filtration Ltd. completed another expansion of their Hamilton operations.

Today, Norspec Filtration Ltd. is Canada's leading provider of the "Total Filter Management" system program. The company not only manufactures a full range of air filtration products for the paint and coatings industries, it also represents more than 50 major manufacturers of filters to service the process, petrochemical, steel, pulp & paper and power generation industries. Brand names include Finite, Filtrair, FiberBond, Research Products, Smart Media, Kaydon, Facet International, Parker Hannifin, Shawndra, Hayward, Nugent, Norman, Fairey Arlon, Torit Donaldson, Shelco, Fleetguard. In addition, Norspec is the exclusive licensed manufacturer of Air-guard and Purolator Air filtration products in Canada.

Norspec's buying power, experience and expertise enables them to provide their customers value, through economics of scale, reduced administrative costs and increased efficiencies while helping to minimize Total Cost of Ownership.

They operate many single source supply agreements and or "Total Filter Management" programs with customers across the country. In each instance, Norspec's team of product specialists, customer service representatives, account managers and upper management work together to ensure the process works smoothly.

One of the leaders for the Canadian paint & coatings industries – Norspec Filtration Ltd. celebrating 25 years.

Dare to take a closer look... CanLak

28 Years of Evolution

Since its beginning in 1982 in Quebec, CanLak has grown to become a key independent major player in the industrial coatings industry in Canada.

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

The company headquarters in Daveluyville, Quebec, houses the offices, factory, and application lab. CanLak also has a significant presence in Ontario with its office in Mississauga. The company employs a little over 100 people.

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

Expertise in Product Quality

Over the years, CanLak has developed a wide range of products that meet give their customers a winning edge in their own market.

With constant efforts in research and development, CanLak provides industrial finishing products including solvent-based, water-based and UV coatings, that are low in VOC, as well as polyester and polyurethane products to meet your needs.

If you are facing some challenges, there is no need to worry, CanLak will specially develop the formula that corresponds precisely to your requirements.

The company recently invested 1.5 million in the brand new, beautifully done, application lab in Quebec and uses it to simulate the clients' line with the use of robot automation and the spraying of UV, waterbase and solvent based products. This way the clients line is fine tuned before going on site. CanLak also has a customized lab oven that can reproduce any type of

drying process. The parameters are programmed into the computer simulating exactly what happens at customers' plant. CanLak also has new automated UV hardwood flooring machinery.

CanLak success has come from products that enhance their customers sales and save them time and money.

Customer Access

It is now quick and easy to find technical information on our products. Consult the technical and descriptive specifications online.

Visit CanLak web site at www.canlak.com.



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EXEL North America

EXEL North America Summary

EXEL North America is a World Leader in "Making Manufacturers More Competitive" with special application equipment for pumping and finishing applications. Our history spans 75 years of providing optimum solutions using high quality innovative and reliable equipment and is made up of employees with a "Mission-to-Serve and a Sense-of-Urgency" philosophy. Our product range is among the widest starting with our Kremlin Airmix® spray guns to "state of the art" pumping and proportioning systems for all material types.

EXEL North America's mission is making manufacturers more competitive in controlled applications for liquids, powders, sealants, adhesives, mold release agents, oils, paints, sealers, primers, waxes and any other flowing powder or fluid product.

EXEL helps their customers "Maximize their Finishing Profitability" by providing the most extensive wood finishing equipment and innovative solutions. EXEL is well-known for their successes with their Airmix® technology. "Nothing Compares to the Power of Airmix®" when looking for an outstanding finish at industrial production rates that delivers unbelievable transfer efficiencies. Airmix® is the oldest, most proven medium pressure technology in the world with a 30-year track record of serving thousands of satisfied customers throughout the world.

EXEL North America is also known for "Bringing Innovation to Pumping". We carry a wide selection of pump systems to meet the needs of our customers.

The EXEL products that are available to the General Industrial markets are Powder Coating application equipment, Liquid Electrostatics finishing equipment, Non-Electrostatics finishing equipment, and fluid delivery. Nothing compares to the performance and efficiency of our products. Our Plural Component product line provides accuracy and simplicity of maintenance and operations.

EXEL makes manufacturers more competitive with ongoing training of its people in Solution and Service

Centers throughout the world. These are people who bring the best application solution backed by effective and proactive service. We also build the widest, most innovative range of high performance and quality products. EXEL has an ongoing commitment to research and development. EXEL is constantly researching the needs of our end-users and enhancing our existing product lines or manufacturing new products that meet the customers' needs.



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CORPORATE PROFILES

Parker Ionics

The company and the equipment.

In 1978, the Onoda Company of Japan developed the most technologically advanced powder coating equipment available on the world market. Onoda has been a large, diversified, and multinational supplier of industrial, commercial, and municipal construction materials for more than 115 years.

Onoda powder coating equipment was first made available in the United States in 1987. A variety of patents clearly set this equipment apart from the competition in establishing performance standards.

Nihon Parkerizing Co., Ltd has been the premier sup-

plier of metal surface treatments in Japan since 1928. Nihon Parkerizing, in concert with its strategic partners, has created an international network of cooperative ventures, affiliates, and subsidiaries. All of these have worked to advance the company's vision of creating new functions for materials and developing new and more effective surface treatment equipment technology.

In 1995, the Onoda Ionics Division was purchased by Nihon Parkerizing Co., Ltd and became Parker Ionics. The Onoda brand of equipment was improved upon and is now sold under the Parker Ionics name. After its introduction in the U.S., it quickly became recognized for its

durability and excellent transfer efficiencies.

Parker Ionics headquarters is located in Westland, Michigan, only 10 minutes away from the convenient Detroit Metro airport.

The Parker Ionics user-friendly electrostatic powder application equipment ensures enhanced transfer efficiencies, component flexibility, and low-maintenance products.

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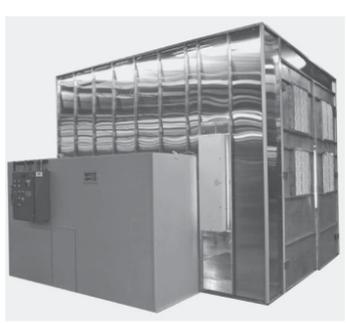
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Powder Application Equipment

Keeping Environmental Concerns in Check

By Sandy Anderson

When investigating “What’s New” with industrial finishing stripping, it all boils down to the environment. Getting those parts stripped clean while keeping the environment in mind is as important as the finishing itself. Whether the stripping process uses heat, chemical, salt, or blasting, those in the industry have to answer to environmental regulations. The government has its regulations, so the finishers are demanding the products and manufacturers are answering their needs.

PAINT STRIPPING METHODS

Industrial paint removal is required on a periodic basis from coating fixtures and components, as outlined on Atotech and the Automotive Industry Technology Roadmap, December 2009, a CD that the company distributes to its customers every few months.

Commercial removal processes come from three basic methods:

- Thermal pyrolysis (burn-off)

- Mechanical media blasting, scraping
- Chemical solvent, hot alkaline, molten salt bath

The stripping processes are effective by:

- Physical degradation
- Mechanical abrasion
- Breaking of adhesive bonds

THE ENVIRONMENTAL TREND

Finishers have an ongoing need to be able to strip high value reject parts to increase line production and reduce costs. They need to do it quickly and in a way that is safe for the environment. There is a constant demand for “safe” chemical liquids for stripping.

Chemicals tend to be used only when the high temperature burn off method will ruin the object being stripped.

“Today’s paint line manager, environmental personal and plant manager face ever more stringent air emission, chemical discharge and landfill regulations from external sources. These challenging



requirements are further compounded by internal demands for lower cost, improved quality and higher efficiency,” according to Atotech’s Industry Technology Roadmap, CD. The company says, “From paint pretreatment to paint stripping, our solutions reduce costs, improve production efficiency and promote safer work environments while minimizing environmental impacts.”

Atotech’s newest product in paint stripping includes Master Remove, Sustainable Paint Removal Processes. Many of Atotech’s Paint Support Technologies uti-

lize Biotechnology natural processes (example: bioremediation) and can significantly reduce the amounts of sludge generated by industrial paint processes (paint pretreatment, paint detackification, paint stripping). Biotechnology is a proven technology that has been used for centuries in the manufacturing of food & beverage products. Atotech says it is used by industrial nations in waste treatment, can reduce the amount of harmful materials in your plant and is growing in use, especially in the most modern facilities.

The company says Master Remove offers many cost, process, and environmental advantages over alternative paint removal techniques, such as: Methylene Chloride-free formulations; reduces paint removal life-cycle cost; effectively removes paint from steel, zinc, aluminum, copper and magnesium substrates; exhibits low process times in both immersion and spray applications; removes a wide variety of E-coat, wet paints and powder coatings without causing substrate damage and necessitating additional processing steps;

CORPORATE PROFILES

Global Finishing Solutions (GFS)

GFS was officially formed in 2003, and is the result of the joining of some of the most significant names in the finishing industry. DeVilbiss spray booths, JBI booths, Blu-Surf finishing systems, Binks spray booths, Milbanks finishing systems, are a few of the names that are now known as GFS. This merging of technology and professional expertise give GFS a vast amount of knowledge from all areas of the finishing world.

Global Finishing Solutions offers a diverse line of finishing equipment for almost every kind of finishing job imaginable.

GFS Aerospace Division across the United States, Canada, and the United Kingdom, our team of engineers and technical specialists have completed multiple installations of the most advanced finishing environments in the world. With unique booths designed for helicopters, single-propeller planes, gliders, heavy bombers, fighter jets, and cargo planes, GFS has done it all.

GFS Industrial Division offers an incredibly diverse range of products for all imaginable types of finishing operations. From small, bench-style paint booths that are ideal for woodworking projects, to multi-stage automated finishing systems, GFS Industrial provides solutions to businesses of all types and all sizes. Whether it is woodworking or metal forming, liquid coating or powder coating, application or burn-off, GFS Industrial Division manufactures the finest finishing equipment available today.

GFS Auto & Truck Refinish Division is changing the face of the Refinish industry with innovative new concepts and technologies designed to increase profits, reduce operating costs, and reduce the environmental impact of the automotive refinish processes. Offering a complete line of economical and high-performance paint booths and finishing systems designed for body shops of all shapes and sizes.

GFS Systems Group utilizes decades of technical expertise and engineering success to create complex automated finishing systems that reach new levels of production efficiency and energy savings. GFS finishing

systems range from simple one-or two- stage spray booths to multi-stage conveyerized pre-treatment washers, application booths, and curing ovens.

GFS Parts and Filters Division provide nearly countless numbers of replacement parts and air filters for hundreds of different types of finishing products. With items available for both modern equipment and legacy products dating back several decades, and for multiple brands.



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INDUSTRIAL FINISHING: STRIPPING

contains less hazardous materials and emits low VOC when compared with conventional solvent stripping and reduces worker exposure to particles such as ash or sand and accidental burning.

The product is also sustainable meaning that it has the ability to maintain without interruption or weakening. Master Remover systems combine chemistry and equipment technology resulting in superior performance and greater sustainability, according to Atotech on its Roadmap CD. It is free of chlorinated solvents and phenolic compounds, does not damage substrate (when properly applied) and is low in volatile organic compounds (VOC).

The company says that the paint advantages of On-Site Stripping include: gaining control of the stripping operation; reducing turn-around times; forecasting fixture(s) and rework more accurately; internalizing quality control; eliminating transportation costs; reducing the number of fixtures needed; minimizing ramp-up costs for new products; minimizing variable costs by extending fixture life; reducing scrap when one product design becomes obsolete and eliminating out-source costs.

Heat-cleaning ovens differ from other stripping methods, because there is no exposure to caustic chemicals and no problems and costs associated with dis-

posal of chemicals or contaminated sand/salt. Less manpower is also needed saving on overall costs.

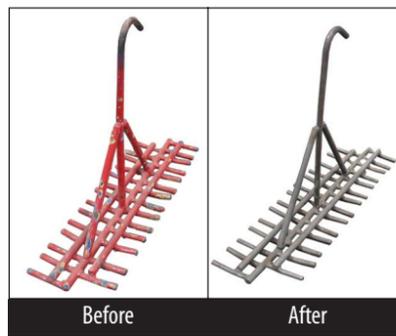
With the heat method, pollutants from the burn off are the issue. Most oven manufacturers have engineers who work closely with the customer to ensure the oven meets all governmental emission guidelines.

John Mariconda of Guspro, a company specializing in Heat cleaning says, "Heat cleaning is very favourable throughout many industries." Applications tend to include painting, engines rebuilders, electric motor repair, plastic extrusion and low density polyethylene die/tooling.

"Our ovens deal with the environmental concerns by using an afterburner to remove and burn off pollutants prior to emitting into environment," says Mariconda.

He says the company's heat cleaning/burn off ovens meet the environmental issues head on and "our latest models guarantee our environmental (oxidizer) temp prior to the process chamber even starting to operate."

He adds, "Cost savings for the customer and continuous improvement in production methods mean a better total solution." The company not only supports its products (Guspro ovens) but Bayco ovens in the field including com-



plete upgrades. All levels of government are pulling in the reigns when it comes to "unhealthy" emissions. One solution is ovens that control the afterburner temperature at the half-second point to meet the most stringent environmental requirements.

Dynamix Inc., Markam, ON, meanwhile, specializes in both ambient and hot tank products for paint removal from ferrous and non-ferrous metal substrates. They also manufacture electrolytic and electroless nickel strippers, as well as tin/tin alloy strippers. They market the stripping chemistry and manufacture the chemicals used to produce the original coatings. Stewart Tymchuk of Dynamix says their methylene chloride-free ambient paint removers are popular in the marketplace.

"The major component in our Dynastrip RT is over 450 times less volatile than methylene chloride."

Dynamix markets an accelerator used in hot tank coating removal.

"Dynastrip RT is an ambient paint remover used primarily to strip paint from hooks and small parts, where typically methylene chloride or burn-off methods were employed," says Tymchuk. The product is considered environmentally safe and is very successful in many applications. Apparently, one gallon of a 70 to 90 per cent active methylene chloride ambient paint stripper can be replaced with a quarter gallon of a 70 to 90 per cent active methylene chloride alternative Dynastrip RT.

So, with environmental concerns being the most prominent trend when it comes to stripping those parts clean during the finishing process, manufacturers of the equipment and chemicals required for the various stripping methods are offering solutions.

Editor's Note: Every effort was made to contact companies and elicit responses for this article. If we missed you, please send your information to sandra.anderson@cfc.ca and we will make sure that it appears in future issues. For more on the topic of Stripping and its various methods please see "Keeping It Clean" in the April 2009 issue of CFCM magazine.

Photos supplied by Guspro

CORPORATE PROFILES

Canadian Finishing Systems Ltd. (CFS)

Canadian Finishing Systems Ltd. (CFS) continues to grow and expand its abilities and capabilities to provide the Electroplating and Coatings industry with a greater range of finishing products, paint and powder stripping products, waste water treatment products, masking materials and all ancillary equipment and products.

CFS has a full range of its own Waste Water Treatment products, and with two Waste Water Treatment Specialists employed by the Company, we are able to provide your operation with the latest in WWT products, and also with the latest and most up to date recommendations in

ways to improve your operation and at a lower cost than you are currently experiencing.

Additionally, our distributor agreement with Haviland Products of Grand Rapids Michigan adds additional proven products to the CFS range. The product range covers everything in respect to Copper plating, both Alkaline and Acid, Semi Bright, Bright and Satin Nickel plating. Additionally a full range of all Zinc plating processes, including post treatment products such as Hexavalent, Trivalent chromates and several post coatings dependant upon the final specification requirements. Included in

this range of processes are the Haviland Prodigy Trivalent products, which provide unequalled Trivalent Black finish over both Alkaline and Acid Zinc plated surfaces. The combination of either the Clear or Black Trivalents with the superior Post Coatings, such as the Prodigy Tri-Seal ECP provides not only superior appearance, but also exceptional salt spray results.

Haviland Products are a well respected and recognized manufacturing supplier to the Metal Finishing Industry within Michigan and the United States.

Canadian Finishing Systems continues to closely study the market to be able to provide a fair market price for the products/processes you require to ensure that you, the Customer, can remain competitive within the market place and additionally, meet or exceed current and future environmental requirements of the authorities.

Canadian Finishing Systems is a proud Canadian Company located in Burlington, Ontario, with warehousing facilities based centrally in Hamilton, Ontario, close to all major highways for ease of distribution of its products.

Please contact us and see what we can provide for your operation to ensure your continued successful growth in these difficult times. Please also take the time to visit our web site for additional personnel and product information. Our site is updated on a regular basis and provides constantly live updated LME metal prices for Copper, Nickel and Zinc metals, so that you have the latest metal costs.

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PLATING AND ANODIZING: GREEN REPLACEMENT TECHNOLOGIES

continued from front cover

general descriptions such as nanotechnology, silane technology or phosphorus-free pretreatment. Most of these emerging technologies react similarly because they contain similar key components for creating a surface conversion. Most suppliers are using zirconium, vanadium, titanium or silicon-based compounds with or without organic or inorganic polymerization. A quick look at the periodic table of elements shows that these materials are located in the same general area as chromium, a material that has been used for long-term corrosion resistance for years.

There are numerous types of metal pretreatment products and processes. The correct choice depends upon the metal, the type of paint used and the desired properties of the finished product. Traditionally, iron phosphate and zinc phosphate have been the dominant metal pretreatments used in industry. However, new types of phosphate-free or very low phosphate metal pretreatments have been demanded by many end users and will rapidly become industry standards. Metal pretreatment prepares a metal surface for painting. The process is designed to remove processing lubricants, coolants and rust and then to convert the metal surface into a non-metallic surface that is

ready to paint. Traditionally, harsh and environmentally troublesome chemicals have been used over the years. Dynamix Inc. developed Dynaprep PFH to provide an environmentally-friendly conversion coating processes. Early efforts focused on the removal of hexavalent chromium and more recent work has focused on replacing the phosphate process itself with non-phosphate technologies.

The iron phosphate process is the simplest form of pretreatment; it is used on multi-metal surfaces and consists of 3 or 5 stages. The major components of an iron phosphate bath are typically 2-20 g/L of sodium dihydrogen phosphate and an accelerator (mild oxidant) operating at a pH of 3.5-5.0. Accelerators are typically chlorates, nitrates, nitrites, and organic nitro compounds. The iron phosphate coating formed is amorphous with a coating weight range of 5-100 mg/ft². Atomic force microscopy of the freshly formed iron phosphate surface shows a nodular surface with features on the sub-micron level.

The sub-micron roughness of the iron phosphate surface provides physical adhesion for polymeric coatings coupled with good barrier properties to provide the corrosion performance needed for many general industrial goods. The zinc

phosphating process is more complicated than iron phosphating. Dynaprep PFH is the latest innovation in pretreatment technology, depositing an amorphous coating of only 20-100 nm thick. The nodules visible in microscopy imaging are much more finely structured than those for an iron phosphate. This finer structure allows for high surface area for paint bonding and reduces the likelihood or magnitude of defects in the pretreatment layer. While often the same number of physical stages as an iron phosphate line, a non-phosphate process is simpler with fewer chemical products, which means less pretreatment bath adjustments, oversight, and chemical analyses to maintain a consistent process. This reduces direct operational labour costs. The treatment time (15-60 seconds) is shorter than traditional phosphating (60-180 seconds), so new conveyor lines may have a smaller footprint while existing hoist or conveyor lines can run faster. They produce less sludge during the pretreatment process itself and also produce less sludge in the wastewater treatment process because the total load of dissolved chemistry is much less than that of iron phosphate. The lower wastewater sludge generation means that the wastewater treatment of the non-phosphate pretreatments is generally much easier and less expensive than

traditional phosphate pretreatment lines due to less neutralization and precipitation chemicals and less sludge disposal. Dynaprep PFH pretreatment can perform at the same level as iron phosphates. Before implementing any new technology, a bit of caution is advised. Paint manufacturers have developed their paints to be compatible with, and give optimum performance, over iron or zinc phosphate. Therefore, good compatibility of any paint with a phosphate pretreatment was virtually guaranteed.

These same paints were developed before the introduction of the new non-phosphate pretreatments, so their performance over this new pretreatment surface may differ from that expected from a phosphate pretreatment. It is always advisable to test the full system of substrate, cleaning, pretreatment and paint for compatibility and performance to ensure there are no surprises. One would expect as these new pretreatments become the norm, that paint manufacturers will reduce that uncertainty by testing their new paint formulations over the new pretreatments. ■

Stewart Tymchuk is with DYNAMIX INC., 91 Esna Park, Unit 7, Markham, ON, L3R 2S2.

CORPORATE PROFILES

JBC Ltd.

JBC Ltd is an international company, which specializes in the engineering, design, fabrication, installation and maintenance of surface finishing facilities. For more than 25 years, our customers have come to appreciate the level of expertise and innovation we bring to resolving their processing needs. They are aware of the pride that we bring to our projects and that these are of the highest quality. We source products worldwide to ensure the latest technology is made available and at a fair market price.

Our staff personnel have many years of direct metal finishing experience and this allows us to fully understand the processing needs of our customers in a diverse range of processing needs. Whether you require only individual components or a complete turnkey metal finishing solution, we can provide a high level of engineering and finished product quality that will meet your expectations.

The JBC Ltd team approach ensures that products sourced from JBC Ltd will be built with pride to the highest quality standard. We believe that effective communication with our suppliers will provide the satisfaction with products and services that our customers expect. We want to be a part of their success.

We have provided effective processing solutions for customers that support functional coatings in the aerospace, automotive, currency and oil and gas industries as well as decorative coatings for automotive, bathroom fixtures, motorcycle, commercial and appliance industries.

Where metal cleaning and nondestructive testing (NDT) of critical components is required, we offer various models of aqueous cleaning systems, utilizing ultrasonic technologies. Aqueous NDT systems can be designed and sized to accommodate any customer's part configuration.

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Trends and Technologies in Automotive Plating

BY SANDY ANDERSON

With the help of Atotech, the world's largest chemical producer for the metal finishing industry, and a significant force in the Automotive Plating industry, CFCM took a look at the newest trends and concerns in the marketplace.

Donald Snyder, world wide technical manager for decorative products at Atotech, working out of US for worldwide group, highlighted three main demands that seem to be happening with their customers, namely demands for higher quality, green technology and a signature look without an increase in cost.

HIGHER STANDARDS

"Our customers are platers and they are required to meet higher standards than in the preceding two years because the end

users are expecting higher quality without any increase in cost," says Snyder. "It is more critical now than two years ago."

Another trend is that large plating companies are going directly to the manufacturer rather than just working with their distributor or supplier.

"Large companies are getting us involved in the very beginning now...a three way operation," says Snyder. He explains that it is the large plumbing, motorcycle and Original Equipment Manufacturer (OEM) auto companies that tend to dominate the plating industry, that "call us first and the supplier second, to do audits and make sure they are using the products in the correct fashion."

SIGNATURE LOOK

When it comes to automotive plating, spe-

cial unique looks are in big demand. "The auto companies want something 'new looking' such as satin, light and dark nickel, so designers have a signature look for their automobiles," explains Snyder. "They want what's different," adds Snyder. "We can't plate yellow, red or blue, but if we could, that is what they would want."

According to Atotech and the Automotive Industry Technology Roadmap (more on this under New Technologies), "When it comes to decorative trends, automotive car design has, since the earliest days, been associated with fashion and image. The use of bright decorative chromium finishes has always and continues to have a significant role in passenger car model image and differentiation. Highest corrosion protection performance combined with longevity of finish and appearance are the demands of the industry for elec-



troplated decorative layers in automotive applications."

Central to OEM demands of decorative chromium layers is the fulfilment of CASS corrosion values, with growing demand for 80hrs CASS for exterior applications of Cu/ Ni/Cr layers.

Atotech states that their decorative process technologies are targeted toward achieving and exceeding expectations, with the development of new technologies to meet the additional challenges of automotive designers.

New challenges include :

- Demands for new colours/appearances for car model differentiation
- Capabilities to deposit decorative layers to new plastic types

CORPORATE PROFILES



- DYNATREAT CrR:** Reduces hexavalent chromium to the trivalent state at any pH.
 - DYNATREAT Pflor:** Accelerates the precipitation of metals in plant effluent streams.
 - DYNATREAT Acid Pure:** Extends acid life indefinitely, eliminating environmental issues associated with acid disposal.
 - DYNAPREP PFH:** Phosphate-free replacement for steam and iron phosphate which improves paint adhesion and corrosion protection.
 - METALAST TCP-HF:** Drop in trivalent-based replacement for hexavalent chromates that meets or exceeds corrosion requirements of MIL Std., MIL DTL 81706B, and MIL C 5541 for Class 1A and Class 3.
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Dynamix is the largest Canadian owned manufacturer and supplier of metal finishing chemistry. Supplying automotive, aerospace, RoHS, ELV, WEEE and REACH compliant metal finishing products across North America.

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

"The philosophy at Dynamix is simple – enhance our customers' performance and profitability, while dealing with all of our partners in an open and honest forum." The primary focus of Dynamix is the design and manufacture of specialty chemicals for the metal finishing industry, covering all aspects of metal finishing from anodizing to zinc plating. Toll blending, packaging and distribution of custom formulated products are also available.

Dynamix understands that from a R&D perspective you can never be the best at absolutely everything. For those areas, Dynamix has partnered with some of the industry's best supply houses. Distributing products for their partners allows the supply of a wider variety of

chemistries, including automotive and aerospace approved products.

Dynamix's strength is in zinc plating, as the company has well over 100 zinc lines presently in service across North America. What sets the company apart from the competition is their ability to do their own research and development and manufacturing here in Canada.

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

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

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

Please visit the Dynamix web site at www.dynamix-inc.com.

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

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- Corrosion performance in contact with non ferrous substrates (e.g. aluminum, magnesium)
- Torque and CoF properties fastener assemblies in contact with different substrates
- European Automotive Legislation (ELV Directive) and Environmental legislation (RoHS)
- Colour/Styling demands – Black or Silver/Grey
- Removal of Cr(VI) chromates (e.g. yellow / olive in chromate coatings)



- Resistance to new corrosion standards, higher CASS demands and alternative corrosion performance standards (Calcium Chloride road salt tests)

One process in demand is Satin Nickel deposits that display unusual and attractive finishes with silky and non-reflective decorative appearances. Differing degrees of the satin effect is possible and adjustable by various processes. Features include: Good corrosion performance with long-term stability for interior and exterior; Plateable on many substrates and it is a base layer for other finishes with new design possibilities, especially with a product called Trichrome.

GOING GREEN

A lot of money has been invested in environmental concerns. "It is a dominant issue for us," says Snyder. "We are a world wide company and so must meet all green requirements...green technology is critical we spend a lot of money on it right now."

Greener technology is used in Atotech's decorative automotive electroplating processes with the elimination of those process steps that contain hexavalent chromium Cr(VI) compounds.

NEW TECHNOLOGIES

In answer to customers needs companies like Atotech have gone to their research and development table and come up with plenty of new products. A CD, Atotech and the Automotive Industry Technology Roadmap provided to customers every few months, the most recent being December 2009, sites various trends and technologies.

GLOBAL REQUIREMENTS AND FUTURE DEMANDS IN THE AUTOMOTIVE INDUSTRY

According to the Automotive Industry Technology Roadmap, the European Community Waste Electrical and Electronic Equipment Directive (WEEE Directive) is shaping the future demands of the Automotive industry.

The focus is on "Elimination of Waste" and removal of hazardous / toxic substances from coatings.

In aligning with these demands, the performance specifications of OEMs in the Automotive Industry are revised to reflect the following:

Alkaline Zinc Nickel is one process that the company says offers the best corrosion protection against red rust and has low contact corrosion in combination with aluminium. It also offers reduced white rust formation, high wear resistance, good temperature stability. This process is frequently utilised in "hot zones" such as engine compartment,

brake caliper components, metal/rubber bonded parts, seals, high corrosion performance areas and fasteners. A new development is zinc flake, a two layer base coat system providing reliable corrosion protection.

So when looking at trends in automotive plating, the dominant issues are green technology, signature looks and higher performance, while at the same time

maintaining little or no increase in cost. A challenge at best, but companies like Atotech are very hands on and customers' needs are the priority. ■

Atotech, is a subsidiary of Total, the world's fourth-largest oil company and one of the world's largest producer of chemicals.



Daily News Journal

Special Edition

2009

75 cents

Process Electronics Corporation Celebrates 25th Anniversary!

Process Electronics Corporation
Proud of Success.
Thanks Employees,
Customers, Suppliers and
Friends for Their Support.

In a proud statement issued from their company headquarters, Process Electronics Corporation announced that 2009 is the 25th Anniversary of the founding of their business. The company was started back in 1984, the same year President Reagan announced he would seek a second term as President. The really big news was the Vice-Presidential ticket for the Democrats; Walter Mondale named Geraldine Ferraro as his running mate, the first female

ever selected by a major party for this office.

What Else Happened in 1984?

The Supreme Court approved video taping of TV shows for home viewing this year. It found that taping for time shifting purposes (to view later) was not copyright infringement.

The state of New York instituted the nation's first mandatory seat belt law.

Daredevils Mike MacCarthy and Amanda Tucker safely jumped from the Eiffel Tower with their parachutes.

"Jump!", "Can't Slow Down" and "Against All Odds" were the songs that expressed the emotions of Americans this year - for some of us more than others.

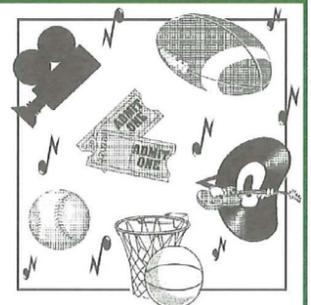
Why should we start doing business with some "Johnny-Come-Lately"?
Process Electronics Corporation has been successful for 25 years!



Sports & Entertainment

The Olympic Games topped the sports news this year, as the U.S. made a great showing. Mary Lou Retton scored a perfect 10 on the vault at the L.A. Games, and became the first American woman gymnast to win gold. Joan Benoit won the Olympic Gold in the first marathon for women. Even the Soviets' boycott of the games couldn't dampen the spirit of our athletes.

In professional sports, the Boston Celtics won the NBA title and Detroit took the World Series. Walter Payton of the Chicago Bears broke Jim Brown's career rushing record of 12,317 yards. A Television Hall of Fame was established. Its first inductees were Lucille Ball, Milton Berle, Paddy Chayefsky and Norman Lear.



Yes, when you think about it, things have changed a lot in 25 years. But, after all this time there are some things which have remained the same.

One good thing is that Process Electronics Corporation is still around and thriving after 25 years of hard work and lots of dedication by everyone involved... and most importantly, caring about customers who helped us reach this milestone.

IMPORTANT EVENTS OF 1984

- The average U.S. home cost \$100,000
- PG-13 movie rating was announced
- Walt Disney's Donald Duck turned 50
- Process Electronics Corporation started its first year in business

Alliance Plastics

Alliance Plastics manufactures and distributes an ever-increasing line of components to protect and finish your products. In short, we protect what you produce!

Our Master Catalog offers more than 8,000 standard parts with over 2,000 added just this year. Individual samples of most parts are shipped FREE of charge so you can try before you buy!

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offering are handles and knobs, adjustable feet, grommets, tube inserts, nylon fasteners, cable glands, stainless steel and colored cable ties, just to name a few. Each new manufacturing challenge in the industrial marketplace spurs Alliance Plastics to innovate new and expanded product lines.

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so you buy only what you need. If your project requires 597 threaded plugs, why buy 1,000 or 5000? We have adapted our methods to meet YOUR needs. That's the way it should be!

Our customer service representatives are friendly, knowledgeable, and ready to help you find the right product for your needs. Our product managers possess a wealth of knowledge about the materials and applica-

tions of our components, and are committed to putting their expertise to work for you.

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Cyanide Destruct Systems Inc. (CDS)

CDS is a highly recognized name synonymous with quality cyanide treatment and precious metal refining services. CDS Environmental, for example has imported waste from as far as Puerto Rico. CDS Thermal Hydrolysis Systems are being used in Lima Peru and Singapore, just to give you an idea of our worldwide presence.

Definitely a niche player with a somewhat diverse market, CDS enjoys a very loyal and equally diverse customer base. Our success has been driven by entrepreneurial spirit and the flexibility to adjust rapidly to

changing market demands.

Thermal Hydrolysis Systems are the foundation on which the company was built. The owner of CDS, a chemical engineer, worked with very well recognized research facilities and developed a keen interest in producing a practical system to utilize thermal hydrolysis.

Taking advantage of a safe, clean, chemical free process, thermal hydrolysis accelerates the naturally occurring chemical reaction between water and cyanide. Very simply, this system is the only way to effectively

destroy cyanide in all forms including complex ferricyanides to below detectable limits. Systems are custom engineered for each application and are 100 per cent guaranteed. Both continuous flow and batch systems are available depending on the application.

Our Environmental plant located in Barrie, Ontario, serves generators of more concentrated type wastes using several batch systems. Precious metal (PM) refining of gold plated circuit boards, PM bearing solutions and various other PM products has been a staple of our

business since inception.

More recently, CDS and Envirite Corporation as a joint venture have been operating a US based precious metal refining company, CD&E Refining.

CDS Environmental has recently expanded in the refining and assaying of gold metallics for the electronics and jewellery industry.



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AGENDA

7:30 am: Registration & Networking Breakfast

Ian Howcroft, Vice President, CME Ontario

8:15 am: Introductions:

Ian Howcroft, Vice President, CME Ontario

8:20 am: Opening Remarks:

Hon. Sandra Pupatello, Minister, Economic Development & Trade

9:00 am: Manufacturing and the Energy Opportunity

Jayson Myers, President & CEO, CME

9:45 am: Coffee & Networking Break

10:00 Am: The Energy Opportunity High Level Discussion Panel

Join senior executives from some of the most knowledgeable and relevant companies in Canada's various energy industries for a high-level discussion around the future of energy in Canada. Panelists will offer a perspective on growth opportunities of their sector in Canada and highlight where Ontario manufacturers can play a role.

Panelists:

Mr. Bill Smith, Sr. VP of Power Generation-Siemens Canada

Dr. John MacDonald, Chairman & CEO-Day4Energy Inc.

Mr. Neil Alexandar, President-Organization of CANDU Industries

Mr. Juan Marcias, GM Protection & Control-GE Digital Energy

Mr. Chris Boomer, COO - Petrobank

12:00 pm Networking Lunch

1:00, 2:00, 3:00 pm Breakout Sessions 1, 2, 3

Each breakout session will focus on one specific energy sector and help participants understand how to build a business model for that particular sector as well as outline strategies for success. Each session will be run three times. Choose from the list below:

Nuclear B. Wind C. Oil & Gas D. Solar E.

Smart Grid

4:00 pm Adjournment

Good News Briefs

Toyota adds 2nd shift at Woodstock, ON

Toyota Motor Manufacturing Canada Inc. is adding a second shift at its assembly plant in Woodstock, ON, expected by March, 2010, creating more than 800 jobs.

The company plans to increase its output of RAV4 crossover utility vehicles to 150,000 a year. The move is another sign of recovery in the troubled auto sector and the U.S. market, where most of the RAV4s are sold. Sales of the vehicle rose 35 per cent in November.

Toyota's announcement came less than a week after General Motors Co. said it would increase production of Chevrolet Equinox and GMC Terrain crossovers at its Cami Automotive Inc. plant in Ingersoll, ON, recalling several hundred laid-off workers.

Fischer Technology Announces Bluetooth® Interface Available for FMP30/40 Coating Thickness Instruments



DELTA SCOPE® FMP30, ISOSCOPE® FMP30 and DUALSCOPE® FMP40 coating thickness instruments feature strategies for measurement capture, more memory and extensive graphical and statistical evaluation capabilities and are now available with an integrated Bluetooth® interface for easy data transmission to a pc or notebook. The Bluetooth® module enables data transmission to a distance of more than 30 feet for easy data documentation. All FMP Series handheld coating thickness gauges have a large selection of interchangeable probes that are extremely accurate and have a wide measurement range. www.fischer-technology.com

New Graffiti Resistant Coatings

Two-component waterborne (2K WB) polyurethane coatings formulated with resins from Bayer MaterialScience LLC are an eco-friendly solution for removing unsightly graffiti from concrete structures. Graffiti is a widespread issue that municipalities face on an ongoing basis. One removal option is painting over the graffiti. While this may remove the offensive words or images, it is far from an ideal solution, as it leaves a patchwork design on the structure. Another alternative is to quickly and completely remove the graffiti. Doing so not only restores the structure to its previous appearance, but also may even discourage future "tagging." This is currently being accomplished by applying a polyurethane coating to the structures to be protected. While these coatings work very well, the specific resins being used may contain a high level volatile organic compounds, (VOCs) solvents. Again, not an ideal solution.

Fortunately, two-component waterborne polyurethane resins from Bayer MaterialScience LLC have the chemical resistance necessary for quick and easy cleanability and, importantly, can be formulated to produce an ultra-low VOC coating.

"These systems already have a proven track record as floor coatings where they are exposed to chemicals of all kinds," said Terry Wayt, technical manager—2K WB, Bayer MaterialScience LLC. "The success in this market has led to our introduction of these systems as graffiti-resistant coatings."

In addition to ultra-low VOCs, high chemical resistance, light stability and easy cleanability, these resins

can easily be formulated to obtain a high gloss or matte finish, according to Wayt. www.bayermaterialsciencenafta.com.

Thermoplastic MultiPort Selector Valve



Plast-O-Matic Valves Inc., Cedar Grove, NJ, has introduced Series S, a compact multiport selector valve for high-purity or corrosive environments.

These valves are available in standard 2-way, 3-way, 4-way, and 5-way configurations with a variety of flow paths. Selector valves can be "stacked" in multiple combinations for manifold applications; they can also be custom drilled to provide unique flowpaths for laboratory sampling, testing, custom mixing, and other multi-port uses. The selector valve is available manual or actuated, and is suitable for liquid applications to 125 PSI.

Series S uses a machined PTFE rotor to direct flow to or from the selected port. Body material options include PVC, CPVC, PVDF, PTFE and natural polypropylene. There are no metal parts in the valves. www.plastomatic.com



The turnaround starts here

Just as the economy is resetting in anticipation of a robust recovery, SUR/FIN is also retooling to provide a superior experience for attendees and exhibitors alike. Among the upgrades for 2010:

- New show hours, coordinating business and social activities
- DoD track in collaboration with the U.S. Military
- High-level speakers from the automotive industry, courtesy of the United States Council for Automotive Research (USCAR) & the Center for Automotive Research (CAR)
- Keynote presentation by Dr. Ken Mayland, president of Clearview Economics
- Finisher exhibits
- Plant tours to Altacor/Amway facilities
- Ramped-up efforts targeting OEM/engineer participation

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NEW PRODUCTS AND TECHNOLOGIES

Wagner announces new Prima-Sprint

The Wagner Prima-Sprint manual powder coating unit offers users flexibility, performance and ease of operation. The new control unit provides up to 50 recipes with precise settings for voltage, current, curve characteristic and powder delivery. The curve characteristic allows operators the flexibility to dial in application performance regardless of powder coating material or substrate. The operator will also benefit from the dual trigger that allows toggling back and forth between



2 different recipes. The user-friendly controller allows for easy adjustment of powder delivery. The Wagner Prima-Sprint uses an improved PEM-C4 ERGO manual powder gun. As with all Wagner equipment, the new controller and powder gun are compatible with any previous generation of application equipment.

www.wagnersystemsinc.com

Measuring Colour

The new CM-5 spectrophotometer from Konica Minolta is the perfect instrument to measure color in transmission & reflection in a large field of applications (liquids & solids). Keyboard and large LCD with wizard guidance enable easy operation for anyone without the need of a separate computer. Pass/Fail based on user set tolerances can be performed. Contact Folio Instruments Inc., Canadian Distributor: Western Canada & Ontario: 1-800-683-6546 Quebec-Manitoba-Maritimes: 1-800-767-9695.



ITW Gema's OptiColor™ for XTreme Color Change Environments™

If you have a manual spray operation that uses multiple hoppers set up to spray various colors, this easy to use and cost effective solution will save you time and money when changing from one color to another. The OptiColor allows the user to conduct all normal spraying operations, as well as do fast, simple spray gun color changes from a single location. Working in conjunction with the OptiFlex® series manual spray gun, color changes are performed in a matter of seconds.



The OptiColor allows production spraying to continue while a hopper color change is being performed. Fast color changes in seconds maximize production, throughput, and flexibility. The OptiColor is conveniently located at the operator, giving easy access for application adjustments and color change selection. Experience fast color changes, multiple color capabilities, and risk free contamination all in a simple user-friendly package.

A complement to ITW Gema's OptiFlex series manual spray guns, the OptiColor is available in 4 and 8 color units, which can be combined to accommodate an endless variety of colors. This new technology is ideal for XTreme Color Change Environments where multiple colors are required during production.

Process Technology Introduces Quartz Infrared Heating Elements to New Industries

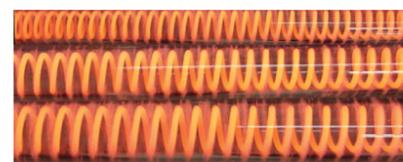
Mentor-based firm Process Technology presents quartz infrared heating elements for use in new markets including, but not limited to: painting, powder coating, corrosion control, organic finishing, metal-



working and automotive metal finishing. The CE certified quartz infrared heating elements offer a heavy wall quartz sheath and are available in sizes 500-4000 watts, 120, 208 and 240 voltages as well as other voltages are available.

Ceramic insulators provide positive electrical insulation. The elements are used for curing, baking and drying applications and capable of reaching full heat in 40 to 65 seconds. Watt densities of 50 watts per square inch (8 w/cm²). The elements contain long-life nickel chrome resistance wire:

- Brightness: bright red to dull orange.
- Thermal shock resistance: excellent.



- Peak wavelength: 2.55 microns.
- Maximum power density: 1.3 to 1.75 kW/ft².
- Watts per linear inch: 34-45.
- Conversion efficiency infrared energy: 40-62%.
- Response time heat/cool: 1 to 2 minutes.
- Color sensitivity: medium.
- Thermal shock resistance: excellent.

Special wattages and lengths are available to fit most ovens/panels. Also offered in three electrical terminal styles, and temperature controls are available to be sized to match the heater. These elements are intended for horizontal installation only.

www.process-technology.com

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Inortech Chimie Inc.

We're Proud of our R & D Laboratory

Jean-Marc Pigeon felt, for many years, that customers had a growing need to deal with a distributor who would have an in-depth understanding of new products and technologies that were developing around the world.

"I wanted to be recognized in the Canadian market as being the distributor that would bring these products and technologies to the market," says Jean-Marc. Thus, he formed Inortech Chimie Inc. in April, 1990. He discovered that to really adapt these products and technologies, it took more than theoretical understanding. In 2000 Inortech opened a comprehensive Research and Development (R&D) Laboratory to deal with these new products and technologies and make sure that they met Canadian standards.

Due to the acquisition of new equipment, the lab space was getting very tight. So five years after the laboratory opening, Inortech built its own building (2005).

"It is quite interesting to have a well organized, well equipped and spacious laboratory, but it does not help if you do not have highly motivated and knowledgeable professional chemists," says Jean-Marc. He hired two experienced chemists in the fields they service and a hands-on formulator with outstanding experience.

"I strongly believe that the Inortech team and the laboratory is what makes us stand out from the competition," says Jean-Marc. Inortech has the exclusive ability to test

a formulation in the lab then take it directly to the customer. The company says they are the only Canadian distributor in coatings, inks and plastics with a fully equipped laboratory.

Technical Seminars

Being recognized as a market leader, Jean-Marc felt that it was his duty to more effectively transmit this expertise.

"We organized technical seminars so that our suppliers have a privileged and more direct contact with our customers. In turn, our customers really appreciate the private and direct contact with our suppliers," says Jean-Marc. "Thanks to the outstanding support from our suppliers, these seminars are always very successful."

Customer Service

Inortech employs 15 people, including three in the lab. Two of the company's chemists have more than 30 years experience. Inortech lab and sales people have in-depth knowledge of the markets the company serves... paint, ink, adhesive and plastic. They are dedicated and have the customers' and suppliers' success at heart. They do everything possible to make it easy to work with Inortech.

Meanwhile, in order to ease the introduction of new products, Inortech provides made-to-measure help to their suppliers. Inortech's very competent and professional HSE person stays abreast of all new Canadian legislation and provides suppliers with key support when it comes to Environment Canada registration.



With their team of more than 30 suppliers, Inortech has a very good selection of raw materials necessary to meet almost any paint, ink, and plastic and adhesives challenges.

New Technologies

Inortech is known as the market leader when it comes to bringing forth and testing new technologies. Because of Inortech's dedication to the market they serve, they can anticipate customers' needs. "We search the world for innovative ways to meet these challenges. Let us be your **active** intermedie," says Jean-Marc.

Unlike other distributors, Inortech has the ability to qualify new technologies and provide in-depth knowledge of these technologies before entering the market. Therefore, customers know that the technology works and that Inortech can provide "turn-key" solutions.

"We keep improving and implementing new policies and new computer programs to help us keep our word and live up to our high standards: Ethics, Commitment and Loyalty," says Jean-Marc. Inortech has grown by making sure that its customers understand that its lab is there to help and that customers are welcome to use it as much as they need. Also, suppliers who visit Inortech immediately understand how Inortech's team will be beneficial for their Canadian Market penetration.

Inortech is always on the cutting edge of technology.

The relationship between customers, legislators and suppliers is what makes an unparalleled team spirit.

"We go, **BEYOND** chemistry," says Jean-Marc.

"Our customer service has the mandate to do everything possible to meet our customers' requirements and satisfy their needs," says Jean-Marc. Besides its efficient customer service department, Inortech has inventory warehouses across Canada in Montreal, Toronto, Winnipeg and Edmonton.

"We team up with our customers and suppliers to make sure that our customers are not negatively affected by the changes that today's marketplace challenges call for. We keep our customers informed as part of our decision making process," says Jean-Marc.



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