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“Don't be distracted by criticism.
Remember – the only taste of success
some people get is to take
a bite out of you.”
– Zig Ziglar

REGULATORY RADAR HEADLINES

Access to full monthly Regulatory Radar for members only.

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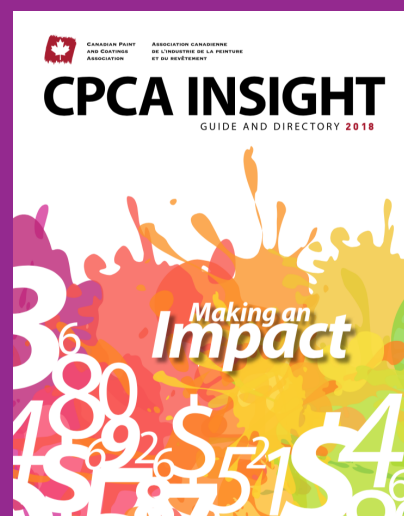
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Get More Insight from CPCA's Annual Guide and Directory

CPCA Insight: Guide and Directory 2018

is now available. Get a digital copy of this annual bilingual publication for the Canadian paint and coatings industry **today**.

Download the electronic version.



PRESIDENT'S MESSAGE

Some have argued that paint and coatings products by their very nature are already a sustainable product in that it protects and extends the life of many important assets, whether your home, your automobile or commercial infrastructure. Overall, the Canadian paint and coatings industry is proud to have accomplished much in terms of sustainability over the past two decades.

The industry works hard on product stewardship to ensure it is maintained and enhanced throughout the product life-cycle including innovative product development, relevant hazard communications, full chemical regulatory compliance, responsible transportation of products, and by responding to the end-of-life requirements of the customer. For the latter, **last year there were more than 27 million kilograms of leftover paint recycled in Canada, enough to paint 2.1 million homes.**



Key drivers of sustainability have been things like strict retailer guidelines for low-VOC products, green building certifications for better life-cycle assessment, and greater efficiencies created due to the scarcity of raw materials. The winner in all of this has been the customer and the public generally in terms of better air quality. For example, the 41 kilotonnes of VOC reductions achieved by Canada's paint and coatings industry over the past 10 years under strict VOC regulations **equals 3,280,000 cars or 2,788,000 light trucks/SUVs taken off the road annually.** This has improved air quality and better human health for all.

The industry has truly become an enabler for many end users who seek to realize their own sustainability goals. Often the industry is not credited for such a role even though strong R&D investment is evident with increasing advancements in product innovation and regular sustainability reporting. Further evidence of this is seen below in the section on the "leading edge of sustainability" with one of our members, **Covestro, securing an A rating for sustainability on one of the world's leading indices for suppliers.** Akzo Nobel has always been at the top of the Dow Jones Sustainability Index for a number of years, number one for a few, and is now **recognized as a leader in the global plant-based technology movement.** IPPIC, our global coatings council that is active on many fronts, is currently working with the World Ocean Council on marine coatings and innovative antifouling products with a joint meeting planned for November on the prevention of aquatic invasive species migration. In fact, **antifouling coatings have reduced annual global shipping fuel costs by \$60 billion,** while at the same time reducing carbon dioxide emissions by 384 million tonnes, **the equivalent of removing 64 million cars off the road each year.** With more innovation, there will be even more success in this area.

Paint and Coatings Industry Magazine recently reported that mosquitos continue to plague the world especially in less developed countries where they contribute to the spread of disease. West Nile and Zika virus outbreaks continue in developing countries. The WHO states that "Of all disease-transmitting insects, the mosquito is the greatest menace,

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the call here as well, using an all-natural biocide from leaf extract from trees called Vitex Negundo, which kills mosquitos when used in paint. **Direct contact with the paint kills them and the smell keeps them away.** It has been certified in the EU and safe for children, pregnant women, and pets. **The first North American company launching an anti-mosquito paint is another CPCA member, Loop Paint, based in St. Catherines, Ontario.** The company has been a leader in post-consumer paint recycling in Canada for a number of years.

The companies noted above - and many other CPCA members - are to be congratulated for their continued focus on sustainability and for their ability to respond to real world demands with new product innovation leading to real results for human health and the environment.

Gary LeRoux
President & CEO

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CPCA REPORT

CPCA to Collaborate with ECCC's National Inquiry Regarding the Use of the 1-litre Paint Containers in 10 Categories of Products

All companies selling Architectural and Industrial Maintenance products in Canada will receive a survey within the next several weeks regarding the current use of containers, which are exempted for 10 categories of products under the VOC Concentration Limits for Architectural Coatings Regulations. Additionally, Environment and Climate Change Canada (ECCC) recently distributed an information piece to all Canadian manufacturers, importers and sellers of paint and coatings products stating that the practice of combining multiple smaller containers of one litre or less into a larger bundle for sale does not align with the intended purpose of the Regulations.

PMRA Treated Articles Information Note to be Published in Fall 2018

The PMRA Policy Division is reviewing CPCA comments before finalizing their formal information note on their treated articles policy. Along with the information note, PMRA will share a guidance document on 'acceptable' label claims for antimicrobial treated articles and an Excel spreadsheet that lists the current registered antimicrobial active ingredients and end-use products. These documents will be linked to the information note on the website. The information note explains that Canada's regulatory requirements for a treated article will differ depending on the purpose of the pesticide used. In some cases, the article itself is considered a pest control product (e.g., mosquito repellent clothing) and requires registration. In other cases, only the pesticide that is used to treat the article requires registration. If a pesticide has been incorporated into or applied to any domestic or imported article in order to provide a benefit to the product itself (e.g., antimicrobial added to waterborne paint) the pesticide must be registered under the PCPA for that specific use. In this case, the treated article (paint) does not need to be registered.

Canada Begins Assessment of Copper Following ECHA Report

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The European Chemical Agency has completed its Chemical Safety Reports (CSRs) for both copper and copper compounds and is in the process of sharing these reports with Government of Canada officials from Environment and Climate Change Canada (ECCC) and Health Canada (HC) for use in a Draft Screening-Level Risk Assessment (DSRA).

To date, ECCC officials have been seeking information on the manufacture and use of copper compounds in Canada including the leading sectors and substances when it comes to copper use, content, environmental releases and waste management in Canada. ECCC officials are also interested in exposure data specific to Canadian industries and Canadian monitoring data including facility wastewater, effluent concentrations, and downstream water concentrations.

Should there be any specific request from government risk managers regarding the CASE sector, CPCA will be ready to help officials fill in any data gaps by relaying their queries to its membership. While the government's focus on safe manufacturing practices is important, CPCA is determined to continue working with officials to ensure the continued use of copper compounds in industrial and architectural segments as well as in marine antifouling coatings. These deliver significant global environmental benefits including reduced greenhouse gas emissions and prevent migration of invasive species. Antifouling coatings applied to ships repel barnacles, crustaceans, and other matter that can build up on a ship's hull creating drag and reducing fuel efficiency. According to a European Union study, **anti-fouling coatings reduce annual global carbon dioxide emissions by 384 million tonnes, the equivalent of more than 64 million average Canadian cars off the road every year.** It also reduces 6 million tonnes of acid-rain inducing sulphur emissions annually.

IPPIC Members Increasingly Engaged with UN Expert Sub-Committees on the Transport of Dangerous Goods and the Globally Harmonized System of Classification and Labelling of Chemicals

The UN sub-committees of experts create the regulatory framework that is implemented worldwide for both TGD and GHS. Once frameworks are approved and finalized, only limited changes are allowed. Therefore, it is important for industry to stay engaged with respect to any decisions made at the UN level, in order to reduce the need for modification at the jurisdictional country level. IPPIC has been consulting its members and intends to submit final technical papers for approved changes at the important final meeting of the 2017-2018 Biennium set for the end of November and early December. The first meeting of the Biennium 2019-2020 will be held next summer. CPCA and other IPPIC association members are currently asking their membership to help identify any common issues and develop specific proposals for improving the current model regulations.

IPPIC Industry Stewardship Committee (ISC) Discusses Support to GEF Project and Possible Modification to Specific Language in the UN Model Law

The UN Lead Paint Alliance is an initiative that has broad global support, high visibility, and is a good opportunity for the paint industry to step forward and advance progress. IPPIC recently reviewed its "in-kind" contributions to support the UN Global Environment Facility (GEF) project, which seeks to establish lead paint restrictions legislation or regulations in 40 countries by 2020. The GEF project will focus its efforts in Latin America, Africa, and Asia. Updated information helps host industry workshops through the regional "champions" idea and outreach efforts in the three above regions prior to the September 14th EPA, IPPIC, UNEP meeting and in anticipation of the UN International Week of Action on Childhood Lead Poisoning Prevention (October 21-27).

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MEKO

EDUCATIONAL RESOURCES NOW AVAILABLE!

The Canadian Paint and Coatings Association (CPCA) has developed educational communication tools to ensure that all consumers adopt recommended practices with regards to ventilation when using indoor alkyd paint products containing MEKO.

View, download or print copies of the **fact sheet**, **poster** and **video** or share a link to the materials on your social media networks and/or website.

www.canpaint.com/meko-educational-materials

 **CANADIAN PAINT AND COATINGS ASSOCIATION** **ASSOCIATION CANADIENNE DE L'INDUSTRIE DE LA PEINTURE ET DU REVÊTEMENT**

Members Urged to Use Educational Materials for MEKO

Please note that all CPCA members are urged to use the educational materials provided for their use to inform customers about the issues related to MEKO in paint. These materials are provided to communicate the information on the Code of Practice for MEKO to company staff, contractors, DIY consumers and the public generally. Please note that this undertaking was required for the industry to secure a voluntary Code of Practice for MEKO instead of a regulation. Health Canada and Environment Canada will be evaluating the status of the effectiveness of the Code in several years, including the effectiveness and use of the educational materials. Based on that assessment a decision will then be made whether or not a regulation is required instead of a Code of Practice.

FOCUS ON OTTAWA

NGOs Petition Environment Minister to Add Single Use Plastics, Microplastics and Plastic Microfibers to the Priority Substances List

The federal government is currently initiating a dialogue with the provinces to develop a national plastics waste resource strategy. Some Industry Coordinating Group (CEPA ICG) member associations are urging Minister McKenna to reject the **petition's premise** arguing that the provinces and their authorities for both waste management and municipal waste management processes are better placed for legislative and regulatory action.

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The Treasury Board of Canada Secretariat is coordinating the three-year targeted regulatory review process to examine how regulation intersects with competitiveness and innovation. The review begins with three key sectors which include health/bio-sciences; transportation and infrastructure, including emerging technologies such as autonomous vehicles. The **consultation is guided by three questions** related to existing requirements or practices impeding economic development, competitiveness, or growth for individual companies or sectors; existing trade barriers for emerging technologies, processes or products; and opportunities for regulatory experimentation per sector.

Transport Canada Supports Projects to Prepare Canada for Connected and Automated Vehicles

Transport Canada is providing \$2.9M in funding under the program to Advance Connectivity and Automation in the Transportation System in order to help Canadian jurisdictions prepare for connected and automated vehicles. These research results will help address technical, policy and regulatory issues related to connected and automated vehicles.

Minister of Health Announces Investment of \$378M in More Than 400 Research Projects Across Canada

According to Health Canada every **\$100 million invested in health research** represents 1,800 jobs for researchers and trainees.

Government Further Strengthens Science and Encourages Scientists to Speak About Their Work

The ministries of Science and Sport and Digital Government welcome the **new Model Policy on Scientific Integrity** soon to be shared with all federal departments for its implementation by the end of this year. The goals of the policy include encouraging federal scientists to speak freely about their work and engage with the public; fostering a culture that supports and promotes scientific integrity in all science and research; and increasing the reliability of, and public trust in, government science and research.

Government of Canada Invests \$20.7 Million to Improve Rail Safety in 2018-2019

This **investment relates to 103 projects** that focus on infrastructure, technology, and research, including safety improvements on rail property; the use of innovative technologies; research and studies; closures of grade crossings that present safety concerns; and **two rail safety education and awareness initiatives**.

Big data and Innovation: Implications for Competition Policy in Canada

One goal of this **discussion paper** is to prompt discussion on how the Competition Bureau should strike a balance in enforcing the Competition Act (Act) in cases involving big data. The diversity of these new business practices may grow in the future and will likely continue to affect competition enforcement as different big data applications will give rise to distinct issues. The application of the Competition Act must remain case-specific if the risk of applying the wrong approach to a new situation is to be minimized.



**COATINGS ON THE LEADING
EDGE OF SUSTAINABILITY**

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Clause Award for Environmentally Compatible UV Dispersion

MSCI, one of the world's leading index suppliers, has raised Covestro's sustainability rating from BBB to A. Covestro has integrated the Sustainable Development Goals of the United Nations into its strategy. By 2025, 80 percent of research and development expenses will be targeted in areas that contribute to achieving these goals. At this year's European Technical Coatings Congress (ETCC) in Amsterdam, **Covestro received the Alain Clause Award** of the Belgian Association of Technicians from the Paint and Allied Industries ATIPIIC for the best lecture on ecological and environmentally compatible developments. Dr. Eva Tejada was honored for her sustainable coating technology based on the UV-curing, aqueous polyurethane dispersion "Bayhydrol UV 2877".

Akzo Nobel Specialty Chemicals and Imagine Chemistry Winner Renmatix Collaborate

Akzo Nobel Specialty Chemicals and Renmatix, a leader in the global plant-based technology movement, will jointly **develop biomass-based performance additives** that improve the properties of architectural paints and construction materials.

Marine Coatings Can Help Stop the Spread of Invasive Species - IPPIC to Present at Sustainable Ocean Summit

The **IPPIC** will work with the World Ocean Council to co-present a special session on biofouling at the 2018 **Sustainable Ocean Summit**, to be held in November in Hong Kong. The presentation, "Biofouling and Invasive Aquatic Species: The GEF-UNDP-IMO GloFouling Partnerships Program – Opportunities for Business Collaboration and Implementation," **will explore how ship owners and operators can help stop the spread of invasive species** by managing biofouling on vessels. The paint and coatings industry has a long-standing tradition of leading sustainability initiatives with biofouling as one example of how effective business practices can contribute to sustainability.

100% Renewable Ethoxylated Surfactants

Sustainability is a growing concern among businesses and consumers. As a result, companies in the paint and coatings industry continue to focus on innovation in order to find renewable materials. **Ethylene oxide** has been the limitation on bio-based content for many surfactants. Now bio-based ethylene oxide made from bio-based ethanol will become available for the first time in the United States in 2018. This will remove the barrier and increase the bio-based content of many surfactants, some as much as 100 percent.

Loop Paint Launches North America's First Anti-mosquito Paint

The first North American company to launch an anti-mosquito paint this spring is CPCA member, Loop Paint based in St. Catharines, Ontario.

Paint and Coatings Industry Magazine recently reported that mosquitoes are more than a nuisance, they are a health hazard with dozens of reports of West Nile virus every year and getting worse. There have been other cases of Zika virus outbreaks in developing countries. According to the World Health Organization, "Of all disease-transmitting insects, the mosquito is the greatest menace, spreading malaria, dengue and yellow fever, which together are responsible for several million deaths and hundreds of millions of cases every year." In fact, Bill Gates notes that the mosquito is the largest human predator killing more people each year than any other animal, including humans. An all-natural biocide from leaf extract from trees called Vitex Negundo kills mosquitoes when used in paint. Direct contact with the paint kills them and the smell keeps them away. It is certified in the EU and is safe for children, pregnant women, and pets. The coatings industry is now developing anti-

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CANADIAN PAINT
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SPOTLIGHT ON MEMBERS



CORPORATE MEMBER PROFILE

NanoXplore

Performance Through Carbon Chemistry

NanoXplore is a graphene company, a manufacturer, and supplier of high volume graphene powder for use in industrial markets. Its team brings together a deep understanding of carbon chemistry – from graphite to graphene – along with the industrial experience required to improve the performance of its customers' products, helping to enhance the thermal, electrical, and physical characteristics while replacing harmful and expensive additives. The company also provides standard and custom thermoplastic products to many customers in transportation, packaging, electronics and other industrial sectors. NanoXplore's key differentiators are:

- Innovative, proprietary and patent protected graphene production technology (2 granted US patents, 4 pending or provisional patents) with significant cost advantage
- Largest Canadian producer of graphene and a global graphene player
- 25 tonnes/year Graphene production capacity today with capability of 70 tonnes/year capacity in current facility
- Employs 100 people, in two production facilities (45,000 sq. ft. in total) near Montréal and a production facility in Vallorbe, Switzerland (26,000 sq.ft)

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- 400 tonnes/year graphene-plastic compounding facility
- Currently fabricates and sells over 5 million plastic parts and assemblies per year
- \$10M project with Sustainable Development Technology Canada (SDTC)

NanoXplore has established a certification mark to clearly identify products and solutions incorporating its innovative technology. This mark is applied to graphene and polymer products, and product documentation from both NanoXplore and its acquired companies.

Earlier this year, NanoXplore helped establish the Senior NSERC/NanoXplore Industrial Research Chair in Multifunctional Graphene-based Nanocomposites and Foams at the University of Toronto.



CORPORATE MEMBER NEWS

L.V. Lomas to Change Its Legal Names Effective September 1

In Canada, L.V. Lomas Limited will change to IMCD Canada Limited. The address for IMCD Canada Limited will remain unchanged at 99 Summerlea Road Brampton, Ontario, L6T 4V2. In the U.S., L.V. Lomas Inc. will change its name to IMCD US Food Inc. with the address remaining at 14725 Detroit Ave., Suite 300, Lakewood, OH 44107.

Axalta Expands its Liquid Coatings Production Facility in North America & Invests in Color Targeting Program to Capture 2019 Model Year Vehicle Colors

The **30,000 square foot expansion of Axalta's Texas production facility** is slated to be completed in the first quarter of 2019 and will increase Axalta's liquid industrial coatings production capacity in North America by approximately one million gallons annually. With 2019 model year vehicles beginning to enter the market and new colors and variations of existing colors going into production, Axalta's color team is accelerating color data collection to equip collision centers with the information they need to refinish consumers' late model vehicles.

Bet on Big Data Steers Akzo Nobel's Decision-making

"Akzo Nobel is using **data analytics to guide its decision-making**, cut costs and increase efficiency," says CFO Maarten de Vries. "We have installed very detailed dashboards."

BASF Pledges \$25M to Materialize for 3D-printing R&D

"BASF will use our 3D-printing facilities, one of the largest in the world, to launch or certify new materials in multiple verticals such as aerospace, automotive and wearables," says **Materialise CEO Fried Vancraen**.

E-commerce Platform Helps Univar Grow While Spending Less

Univar's e-commerce platform and a strong sales team helped the company cut costs, increase sales and nearly triple net income in the first quarter. "We're seeing an increasing number of orders placed outside of standard business operating hours," says David Jukes, president and CEO.

PPG Named to NAACP's Inaugural Equity, Inclusion and Empowerment Index

PPG was recently named to the inaugural National Association for the Advancement of Colored People (NAACP) Equity, Inclusion, and Empowerment Index. The index assesses

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Sherwin-Williams' New Color Trends Collection Is Out of This World

HGTV HOME by Sherwin-Williams has an **entire color collection inspired by the night sky and outer space**. This year's trends identify colors from free-spirited wanderers and old-world storytellers while drawing inspiration from every corner of the globe extending to the cosmos. The result: an organic and spontaneous palette.



MERGERS AND ACQUISITIONS & DISTRIBUTION AGREEMENTS

NanoXplore Announces the Acquisition of Sigma Industries

On **July 3, NanoXplore will acquire all of the outstanding common shares and convertible debentures of Sigma Industries Inc.** The acquisition of Sigma will allow NanoXplore to incorporate the benefits of graphene to Sigma's existing product lines while providing Sigma with a substantial advantage over its competitors.

IMCD Completes HORN Acquisition

IMCD N.V. successfully completed the acquisition of 100% of the outstanding shares of U.S. specialty chemicals distributor E.T. Horn Co. Horn is a distributor in the U.S. with focus on coatings, construction, plastics, personal care, and other specialties.

Nexeo Solutions Named Canadian Distributor for Cabot Corporation's Products

"This new agreement with Cabot expands our specialty chemical product portfolio, and we are thrilled to offer their high-quality, high-value products," **said Joey Gullion, Vice President, Chemical Specialties at Nexeo Solutions.** Cabot's product lines available to customers across the Canadian provinces are specialty carbon blacks, fumed silica, fumed alumina, fumed silica dispersions and aerogel.

DCC LANSCO Announces Next Steps for Merger and Direction

DCC LANSCO are aligning the Global Sales and Customer Service teams to continue to provide the excellent service customers need to ensure their success. Since July 1, 2018, the combined company's sales outside the United States has been managed by Peter Baggen, VP Sales, and all customer orders have been processed by the Customer Service teams in the UK or Canada. Since Aug. 1, the combined company Sales and Customer Service within the United States is being managed by Frank Lavieri, EVP/GM from DCC LANSCO'S offices in NY and RI. In the upcoming months, local inventory of DCC manufactured goods will be stocked in the LANSCO USA warehouses and LANSCO products in the European and global distribution warehouses.

AkzoNobel Specialty Chemicals to Buy Organic Peroxides Producer

AkzoNobel Specialty Chemicals finalized an agreement to acquire Brazilian firm Polinox, South America's leading producer of ketone peroxides, essential in the manufacture of polymers.

Trelleborg Takes Over Pu-coated Fabrics Manufacturer Lamcotec

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Trelleborg acquired the privately owned company Laminating Coating Technologies, Inc. (Lamcotec) with head office and production facility in Monson, MA. Lamcotec develops and manufactures polyurethane-coated and laminated fabrics primarily used in the aerospace industry and in the healthcare & medical industry.



APPOINTMENTS IN THE COATINGS INDUSTRY

Home Hardware CEO Terry Davis to Retire after 48 Years with the Company

Under **Terry Davis' lead for 48 years**, Home Hardware showed a unique ownership structure, where shares are equally held by each individual store owner. This means that owners of 100% Canadian-owned stores are the bosses of the CEO, not the other way around. As a result, the company has always promoted individualism, humour and a unique environment across almost 1,100 stores in Canada. Mr. Davis will remain as CEO until the company finds his replacement.

Société Laurentide Appoints Mario Paillé to be in Charge of Logistics at the Research and Development Center Team Dedicated to Post-consumer coatings in Shawinigan

Mario Paillé will **report directly to the Director of Operations** at the CNETE, Alain Poirier. From its head office in Shawinigan, Société Laurentide oversees its plants in Shawinigan, Victoriaville and Springhill, Nova Scotia, employing 200 people in administration, distribution and sorting as well as its partnership with the Research and Development Center (CNETE) also in Shawinigan.

Chromaflo Technologies Adds Product Development Specialist

Chromaflo Technologies has hired **Dipan Shrestha as product development specialist in the coatings R&D department**. In his new position, Shrestha will provide developmental technical support to ChromaFlo's customer base by designing, planning and executing project elements in both ChromaFlo and customers' laboratory and plant.

PPG Appoints Amy Ericson as Senior Vice President, Packaging Coatings & Announces Other Leadership Appointments

PPG **appointed** Amy Ericson as senior vice president, packaging coatings since July 16. Ericson is also responsible for the specialty coatings and materials business unit, and corporate strategy function and reports directly to PPG chairman and CEO, Michael H. McGarry.

Diane Kappas, current vice president, protective and marine coatings (PMC), Americas, will be **appointed** vice president, Americas, automotive original equipment manufacturer (OEM) coatings, effective September 1. Kappas will replace Matt Marek, who has announced his intent to retire, effective September 1. Juanjo Ardid, currently general manager, global adhesives and sealants, will become vice president, PMC, U.S. and Canada, effective August 1.

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ASSOCIATIONASSOCIATION CANADIENNE
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Training courses are now **online** and will enable members' staffs and partners to get training as needed. Once the training is completed, successful candidates will receive a Diploma in Coatings Technology. This is an opportunity for members to provide necessary skills training to retain effective staffing levels. The three levels of training available via CPCA are shown at right.

Theoretical Concepts

The course is designed to provide the theoretical basics of coatings technology for young people who are just entering the industry, or who have been working in the industry for some time but who want to upgrade their status in the industry by earning a Diploma in Coatings Technology.

Industrial Paint Applicators

In view of the complexity of most industrial coatings, the course is recommended to industrial paint applicators who need to be able to appreciate the composition, performance capabilities and handling of the products they purchase and use.

Sales and Marketing

Designed for those working in a non-technical role such as purchasing of raw materials, production scheduling or sales or marketing, and who may not be interested in the Diploma as such. These candidates do not need to sit for the examinations and may enroll in only one semester to gain expertise in a subject of particular interest to them.

Learn more about our online courses:

Online training for TDG and WHMIS is also available for members and non-members.

CanPaint.com/training-and-education

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OTHER

NEWS OF INTEREST



INTERNATIONAL NEWS

Self-Adhesive Labels Market to Grow to US\$40.5B by 2023

The **self-adhesive labels market** will grow at a CAGR of 5.5 per cent between 2018 and 2023.

Industrial Floor Coatings Market to 2024

The industrial floor coatings market size is **estimated to surpass EUR 5.1 thousand millions by 2024**. Epoxy cementitious is the fastest growing segment increasing over 6.5 per cent.

Marine Coatings Market to Reach US\$3.3.B by 2022

This **market will grow at the CAGR of 3.5 per cent** during the forecast period.

Metallic Pigments Market Study

This **market size is set to surpass EUR 19,8 thousand millions by 2024**.

Most Important Trends for Self-healing Materials

None of these trends are completely new, but they are **important developments** that market researchers from N-tech believe will shape the self-healing market going forward.

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Powder coatings have clear environmental benefits. Their VOC content and carbon footprint are often far superior to those of liquid, i.e., solventborne and even waterborne, systems. The acceptance of powder in the architectural market in Europe is greater than in the United States and the difference in consumption is due to different requirements for UV protection. Europe requires coatings with significantly less UV resistance. In the US, fluoropolymers are required to meet commercial architectural specifications, creating the higher barrier to market entry. The growth of digital innovation in the powder coatings industry is bringing powder coatings closer to the end users, but until there is a significant breakthrough in polymer design and how coatings are manufactured, powder will continue to occupy a niche position in the coating market. After a fairly long drought in research and development in the powder coating industry, the interest in new technology is rising again; and one example is self-healing technologies, **says Kevin Biller of the Powder Coating Research Group.**



ECONOMIC NEWS

Slowdown in Consumer Spending and Breakup of NAFTA Threat to Weigh on Canada's Economic Growth

High debt levels, rising interest rates, and falling housing prices are leading to a pullback in the pace of consumer spending and overall economic growth in Canada. At the same time, the potential breakup of NAFTA and daily threats of new tariffs on a wide range of goods, including in the automotive sector, will weigh on Canada's growth prospects this year.

Overall, the Canadian economy is expected to grow in 2018–19. Global momentum remains generally strong though trade-related risks remain quite significant. A dramatic escalation of trade actions could trigger a global recession. It is a low probability, high impact event. The **growth forecast** in Canada for 2018 is revised to 2.2 per cent.

Canada's June Trade Numbers Surprisingly Strong Despite U.S. Tariffs on Metals

Surging exports led by higher-priced energy products allowed Canada to shrug off new U.S. steel and aluminum tariffs in June to **post the lowest monthly merchandise trade deficit with the world in 17 months.**

Canada Updates Its Output-based Carbon Pricing System

The federal **carbon pricing system will apply on January, 1, 2019** in each province or territory that requests it, and in any jurisdiction that does not have a carbon pricing system that meets the federal benchmark. The output-based pricing system is designed to ensure there is a price incentive for companies to reduce their GHG emissions and spur innovation while maintaining competitiveness. ECCC has undertaken a three-phased approach that takes into account the relative degree of emission intensity and trade exposure of each industrial sector, as well as other factors that may be a risk to competitiveness due to carbon pricing. Based on the Phase 1 and 2 analysis, four sectors such as cement, lime and iron and steel manufacturing **were determined to be in a high competitive risk category and will have their output-based standard** (carbon threshold) adjusted to 90% of the sector's average emissions intensity. ECCC will now begin Phase 3 to gather additional supporting information. Upon its completion, a detailed paper will be released in the fall.

Trade War Cause for Concern for Pigment Suppliers

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Paint and coatings manufacturers and their suppliers will have to deal with the possibility of rising costs and a variety of products. The trade war and the environmental protection program in China are expected to have a great impact on the availability of high-performance pigment, even more than customs or import restrictions.

Do Not Miss Conference on Transportation Innovation and Cost Savings

September 25, Hamilton, Ontario



Focus on Architectural

Canadian Housing Starts Trend in July & Metropolitan Resale Snapshot

The **trend in housing starts** was 219,988 units in July 2018, compared to 221,738 units in June 2018. Despite the decrease, the 2018 trend remains well-above historical averages. See the **Conference Board of Canada's** overview of the existing home market and expectations for existing home price growth over the short term for 28 areas.

Canadian Housing Market Still Highly Vulnerable

For the **eighth straight quarter**, the **CMHC Housing Market Assessment** (HMA) showed a high degree of housing market vulnerability at the national level, which is due to the detection of price acceleration and overvaluation.

Improving Customer Satisfaction with Updated ISO Series of Standards

We all know that retaining loyal, happy customers is the key to any successful business, but the fickle consumer world is not always easy to please. A **series of guidelines has just been published**, bringing together international best practice on customer satisfaction.



Focus on Industrial & Automotive

Canadian Auto Sales Fall Further in July

A **3.6 per cent drop in new-vehicle sales in Canada during July** is the greatest single-month decline so far in the five-month sales slide that began in March. A total of 175,317 cars, trucks and utility vehicles were sold in the month. However, that's still the fourth-highest volume for any July ever, according to industry analyst Dennis DesRosiers.

Interview on Current Trends in Industrial Coatings: "The Colourful World of Coatings Will Become Even More Specific"

The requirements imposed on coatings for industrial use are becoming increasingly specific, underlines Rolf Simon from Synthopol. **In this interview**, he discusses the latest developments in hardeners and the advantages of 2K coatings.

The Industrial Wood Coatings Market in Canada 2011-2022

This **Research and Markets report focuses** specifically on the furniture, parquet, joinery and outdoor structures segments providing market volumes, detailed prices, segmentations and market shares.

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TECHNICAL NEWS

"Simply Mixing in a Wonder-additive Is Very Unlikely to Create a Functional Coating"

Everybody **wants cool new functionalities delivered by their coatings**. However, developing those on an industrial level can be quite tricky. Read two experts' comments about new functionalities and what hurdles have to be tackled.

Stiffness of Ultrathin Coatings

Scientists compare test methods estimating the stiffness of ultrathin coatings.

To Buckyballs and Graphene, Add Schwarzite

Scientists have theorized that, in addition to flat graphene and round buckyballs, **carbon nanostructures should take a third form** with its own electrical, magnetic and optical properties. Now that form -- which has a negative curvature and is called schwarzite -- has been confirmed as researchers have developed a way to create it.



Focus on Architectural

Silica Particles for Durable Water-borne Wood Coatings

When **making the switch from solvent to water-borne wood coatings** the goal is to not compromise the function and performance. According to a recent article epoxy silane-modified colloidal silica can contribute to improve block resistance.



Focus on Industrial & Automotive

Quebec Firm Develops Robotic Painting System

Omnirobotic, based in Laval, an autonomous industrial robot manufacturer, has produced the OmniPainter, a robotic system that customers can lease, and which can be used in plants handling smaller to medium production volumes.

Thermostability and Flame Retardance of Waterborne Polyurethane Coatings

A **new kind of green and functional two-component** flame-retardant waterborne polyurethane and its coating were synthesised through adding polyurethane polyol dispersions, hydrophilic nanoTiO₂ and hydrophilic curing agent.

Rice Researchers Toughen Up Graphene

Rice University researchers report using carbon nanotubes to make graphene, strengthening the 2D material by a factor of up to 10 times. They call this 'rebar graphene', with 'rebar' being the metal bars that go through concrete to strengthen it.

Effects of Surface Roughness of Newly Applied Antifouling Coatings on Drag Resistance of Ship Hulls

Scientists **also investigated the effects of coating water absorption** and welding seams on drag resistance.

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WEBINARS & SUMMITS

Safer Chemicals in Products 2018

September 17-18, 2018, Boston, USA

2018 Polyurethanes Technical Conference

October 1-3, Atlanta, Georgia

EC Technology Forum | Leveraging Facade Coatings for Tomorrow

October 17-18, Berlin, Germany

Canada Logistics Conference 2018

October 24-26, Vancouver

2018 Vancouver Wood Solutions Conference

November 6, Vancouver

European Coatings Show Conference 2019

March 18 - 19, 2019, Nuremberg, Germany |

RadTech Big Ideas Conference

March 19-20, 2019, Redondo Beach, California

International Conference on Toxicology and Risk Assessment

March 20-22, 2019, Frankfurt, Germany

7th International Conference on Smart Materials and Sustainable Technologies

April 11-12, 2019, Toronto

Publications/Courses

CoatingsTech Article by Chemquest: Nine Years Following the Great Recession

New Reference Book on Wood Coatings

Future of Retail 2018

The Future of Cybersecurity for Autonomous Vehicles Connected & autonomous cars drive a new generation of data centers.

Evaluating Cost-effective Hot-melt Adhesive Options in Packaging Applications

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CPCA PARTNERS

ACA CoatingsTech Publishes Life-Cycle Assessment of Architectural Coatings

An **industry-led study** was conducted to assess the environmental performance of five different architectural coating preservation scenarios using a Cradle-to-Grave Life-Cycle Assessment (LCA) and considering different preservatives scenarios. Preservatives play a crucial role in enhancing shelf-life, ensuring the product does not spoil before being used, and protecting the dried coating film from biologic growth. The results illustrate that any of the non-baseline preservation scenarios led to a substantial increase in the environmental impact of the coating. This study highlights that the actual environmental impact of preservatives is extremely modest relative to their benefit, and that the tradeoffs associated with preservative substitution are severe, compared to the other parts of the coating formulation.

CFCM Published Its 2018 Buyers Guide

CFCM is Canada's only Trade magazine for industrial finishing, anodizing and paint and coatings manufacturers.

Orr & Boss Publishes Report on Asia SIA-Pacific Coatings

According to **Doug Bohn, Orr & Boss who also signed the recent CPCA Economic Impact Analysis report**, the growth of the paint and coatings market in this region has slightly decreased. Orr & Boss expects many of the trends that have been impacting the Asian paint and coatings market to continue with growth gradually slowing, stricter environmental regulations continuing to take hold and countries like India and Indonesia continuing to grow at strong rates. The main reason for the lowering of growth expectations is that China's expected economic growth is expected to gradually slow. The Asia-Pacific market of \$66 billion and 22.2 billion liters is the highest in the World.

2018 ASI Top 25: Leading Global Manufacturers of Adhesives and Sealants

Adhesives and Sealants Industry (ASI) recently published the exclusive annual ranking of the top 25 adhesives and sealants manufacturers worldwide.

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CPCA CONNECTS PROGRAM

CPCA: Protecting Your Interests Since 1913

CPCA regularly publishes several important publications to ensure members are fully informed of ongoing issues and actions impacting the paint and coatings industry in Canada. These include:

Regulatory RADAR

Reports on news of interest to paint and coatings manufacturers, suppliers and distributors. A members-only publication detailing comprehensive legislative and regulatory actions at all levels of government.

Prime Time News

A publicly available monthly newsletter sent to members, stakeholders and governments to provide a window into the industry for those with an interest or role in the sector.

Business Management & Marketing News

A members-only publication addressing relevant issues for those involved in management, sales and marketing in member companies.

CPCA INSIGHT

Guide & Directory published annually to report on CPCA's work on behalf of members, key trends in the industry, raising awareness of the issues important for the sector and a guide of CPCA members supporting the important work done to sustain a long-standing and viable Canadian industry

Regular Bulletins, Updates, Memoranda and Press Releases

CPCA members are fully informed and can have direct input on actions taken by CPCA's board, technical committees and staff to ensure the industry is represented at the table

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All past issues of CPCA Publications can be found online in the Members Only section of www.canpaint.com.

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Editor's Note: All financial information is in Canadian dollars unless otherwise stated.