2018 YEAR IN REVIEW

Good Chemistry: Building a vibrant & trusted Canadian chemistry sector



CHEMISTRY INDUSTRY ASSOCIATION OF CANADA

OUTCOMES OF CIAC ACTIVITIES IN 2018

- Federal Fall Economic Statement reflected much of CIAC's 2019 Pre-Budget Submission advocacy, including matching U.S. tax treatment for capital investments, recapitalizing the Strategic Innovation Fund, recommitting to transportation infrastructure funding, and pledging urgent action to address regulatory competitiveness.
- New U.S.-Mexico-Canada Agreement included many North American chemistry industry recommendations.
- Alberta government increased the value of direct investment support programs such as the Petrochemicals Diversification Program from \$1 billion to \$2.1 billion for new chemistry investments in the province.
- Many of CIAC's recommendations for regulatory burden reduction were addressed as part of the new Ontario government's Open for Business Action Plan. The first round of legislation has directly addressed two of CIAC's top priorities.
- CIAC played a leading role in responding to regulatory and marketplace threats to plastics in 2018. CIAC positioned itself as a central stakeholder to policy makers. Its interventions helped avoid plastic ban and deselection proposals at the provincial and federal levels.

- The Standing Committee on Environment and Sustainable Development's report on the Canadian Environmental Protection Act (CEPA) preserved the risk-based underpinning of the current Act.
- Timelines for the Clean Fuel Standard framework were adjusted for further study, ensuring realistic and effective regulation that addresses industry concerns on competitiveness and feasibility.
- Bill C-49 the Transportation Modernization Act addressed many CIAC requests, including new freight rail data reporting requirements on both service and rates. As 2018 closed, new investigative powers of the Canadian Transportation Agency had already been used to address rail issues in Western Canada.
- Welcomed new member, Inter Pipeline, new Responsible Care[®] partner, Source Energy, and new associate member, Wood.



The Chemistry Industry Association of Canada (CIAC) is the Association for leaders in Canada's chemistry sector. Our members are innovators, solution providers, and world-class stewardship pioneers.

We work to shape public policy which supports investment, jobs, and the environment. We take pragmatic and evidencebased approaches which represent our members' interests and benefit all Canadians.

CIAC founded Responsible Care[®], the industry's globally recognized sustainability initiative, in 1985. Since then, our commitment to its ethic and principles has never wavered. At our core, we believe it is imperative **"to do the right thing and be seen to do the right thing."**



MESSAGE FROM THE PRESIDENT AND CEO

Hello,

It has been an incredibly engaging and dynamic year here at CIAC. The Government of Canada has had a very active agenda and new governments with new priorities have taken seats in Ontario and Quebec. Alberta, meanwhile, continues to place priority on the chemistry sector as a means of overcoming its challenges in the oil and gas sector.

Many of the positive developments we saw for the industry in 2018 are highlighted in this review. Perhaps most importantly, the federal government's Fall Economic Statement showed encouraging signs that the government is listening to our concerns and is committed to improving the investment and regulatory environment for chemical manufacturers in Canada.

The industry also saw positive progress on chemicals management, environmental and transportation policy. And few, if any, could have anticipated the degree to which the issue of post-consumer plastics would catch the attention of the public and decision makers in 2018. Our industry was right there at the forefront, presenting pragmatic and sciencebased recommendations to Canadian and international policy makers.

The CIAC team was out pounding the pavement, speaking at stakeholder events,

testifying at House and Senate Committees and holding one-on-one meetings with elected officials to make sure the industry's story was told — and I think the results of this hard work speak for themselves!

I would like to welcome our new member who joined us in 2018, Inter Pipeline, as well as our new Responsible Care[®] partner, Source Energy and new associate member, Wood.

We also welcomed a new Board Chair and Vice-Chair for 2018-2019, Marcelo Lu of BASF Canada and Ed Bechberger of ERCO Worldwide, as well as several new board members.

As you read through the successes and accomplishments in the following pages, please keep in mind the CIAC team and the engaged members who made these things happen. I would like to thank CIAC staff for their hard work, commitment and deep expertise, and I would like to thank our members for their imperative contributions to our work.

I look forward to keeping the momentum going in 2019 and doing even more to promote this ever-changing industry.

Sincerely,

Bob Masterson | President and CEO Chemistry Industry Association of Canada

INVESTMENT AND COMPETITIVENESS

An encouraging 2018 Federal Fall Economic Statement

In June, CIAC was an active participant in a natural resources coalition (oil and gas, metals and mining, steel and aluminum, forestry, electricity and chemistry sectors) that presented an urgent message to the federal government about the state of competitiveness in the Canadian natural resources sector.

This message was reiterated in August, when CIAC submitted its 2019 pre-budget consultation to the Standing Committee on Finance and Economic Affairs and analysis on Accelerated Capital Cost Allowance (ACCA). These documents outlined the urgent need for Canada to attract its historical share of chemistry sector investments and provided data to support recommendations.

In support, CIAC's Executive Vice-President, Isabelle Des Chênes, testified before the House of Commons Standing Committee on Finance's pre-budget consultation hearings in Edmonton on October 17. CIAC advocacy also contributed to a letter sent by Ontario Finance Minister Victor Fedeli and Ontario Energy, Science and Technology Minister Jim Wilson to Federal Finance Minister Bill Morneau to urge the federal government to strengthen competitiveness for business in Canada. The resulting Fall Economic Statement released in November reflected much of CIAC's 2019 pre-budget submission advocacy, including matching tax treatment for capital investments, a recommitment to transportation infrastructure funding, additional funding to the Strategic Innovation Fund, and a commitment to an overhaul of its regulatory development framework to include competitiveness as a criteria.

The House of Commons Standing Committee on Finance's report on the pre-budget consultations was released in December and included a number of recommendations directly responsive to CIAC's requests. Of note is Recommendation 9 to, "Work with all other levels of government to align and coordinate efforts to create a competitive investment climate across Canada to attract world-class value-added petrochemical facilities."

USMCA provides certainty for an integrated chemistry industry

In early 2017, the North American chemistry industry, represented by the CIAC, the American Chemistry Council (ACC), and Mexico's Asociación Nacional de la Industria Química (ANIQ), issued a joint position outlining the industry's priorities for a potential renegotiation of the North American Free Trade Agreement (NAFTA). In October 2018, CIAC was pleased to see that many of these recommendations were included in the new U.S.-Mexico-Canada Agreement (USMCA). Specifically, in the area of regulatory cooperation, the USMCA signatories reaffirmed their support for a risk-based approach to chemicals management. The new trilateral trade agreement appears to provide investor certainty and build a strengthened platform for trade across the highly integrated, North American chemicals supply chain.

Ensuring investment supports in Alberta

In Alberta, the year began with the release of the Energy Diversification Advisory Committee Report with recommendations to increase the value of energy resources through growth in the chemicals manufacturing sector. The government followed the release of this report with Bill 1, The Energy Diversification Act, which launched a second round of investment supports through the Petrochemicals Diversification Program and the Petrochemical Feedstock Infrastructure Program. Due to overwhelming response (more than 20 projects worth close to \$60 billion) Alberta increased the value of these investment support programs from \$1 billion to \$2.1 billion. CIAC applauds the government for recognizing the potential of this growing industry.

Ensuring industry competitiveness in Quebec

In December, CIAC and its members participated in a joint workshop with representatives from five Québec government ministries – Finance; Economic Development and Innovation; Sustainable Development, Environment and Climate Change; Energy and Natural Resources; and Transport. The group agreed to a set of shared priorities in the area of environmental regulation and improvements, competitiveness, and transportation to be actioned in 2019.

In advance of the new Coalition Avenir Quebec (CAQ) government's first budget planned for this spring, CIAC shared its pre-budget submission with all five of these same ministries highlighting the opportunity to support the chemistry industry's competitiveness in Quebec.



Alberta Minister of Energy, Marg McCuaig-Boyd.

Alberta Chemistry Day

November 7, CIAC welcomed 85 delegates in Edmonton for our 19th Alberta Chemistry Day, CIAC's annual event for all chemistry industry stakeholders. This event provides an opportunity to discuss common issues and to better understand industry and government positions.

Speakers included Marg McCuaig-Boyd, Alberta Minister of Energy, Allan Fogwill, President of Canadian Energy Research Institute, Oksana Exell, President and CEO of WESTAC and Valerie Beyer of Let's Talk Science. Key issues discussed included plastic waste, competitiveness of air quality regulation in Alberta, STEM education and transportation infrastructure.



Working with the new Ontario government

With the election of a new government in June, CIAC immediately began introductory meetings with ministers and deputy ministers. Key officials included Deputy Minister Giles Gherson (Cabinet Office); Finance Minister Victor Fedeli and Deputy Minister Greg Orencsak; Environment, Conservation and Parks Minister Rod Phillips and Deputy Minister Serge Imbrogno; Economic Development, Job Creation and Trade Minister Jim Wilson and Deputy Minister Shirley Phillips.

CIAC's advocacy for competitiveness and regulatory burden reductions paid off as the new Ontario government issued a letter to their federal counterparts urging action on accelerated capital cost treatment and rolled out its Open for Business Action Plan in November which targets a 25 per cent reduction in Ontario's regulations by 2020 and commitment to introduce a bill containing high-impact regulatory burden reductions each spring and fall.

The first such bill, the Restoring Ontario's Competitiveness Act, 2018, introduced in December, responded directly to CIAC's advocacy efforts by including significant redundant regulatory burden reduction initiatives advanced by CIAC, such as the repeal of the Toxics Reductions Act, while maintaining regulatory oversight. CIAC is working with the Ontario government on the next round of regulatory burden reductions planned for spring 2019.

PROMOTING A CIRCULAR ECONOMY FOR PLASTIC WASTE



Collaborating for G7 Ocean Charter and marine litter action

Following the announcement by the Prime Minister that Canada's G7 Presidency would focus on marine litter and plastics, CIAC reached out to Canadian Plastics Industry Association (CPIA) and American Chemistry Council (ACC) to initiate the Sustainable Plastics Coalition. The Coalition brought together CIAC and CPIA's joint members - BASF, Imperial, Dow, NOVA Chemicals – the U.S. PLASTICS industry association and the Canadian Beverage Association. This advocacy contributed to the ensuing G7 Ocean Plastics Charter presented at the June G7 Summit in Charlevoix, Quebec, which integrated industry recommendations on life-cycle assessment and sustainable alternatives to plastics.

In September, CIAC's Executive Vice-President, Isabelle Des Chênes, was invited to represent the chemistry and plastics industries in a workshop on Ocean Plastics and Marine Litter during the Ocean Partnership Summit held in conjunction with the G7 Environment, Oceans and Energy Ministers' meetings in Halifax. CIAC also endorsed the G7 Innovation Challenge to Address Marine Plastic Litter that was announced. The Innovation Challenge will incentivize the development of new technology and processes, generate new ideas and build on current successes and innovations.

MAY 2018

CIAC members set ambitious circular economy targets

2030

100 per cent of plastics packaging recyclable or recoverable

2040

100 per cent of plastics packaging reused, recycled, or recovered

Industry targets to reduce plastic waste

Together with CPIA, in June 2018, CIAC announced ambitious targets that underscore their members' commitment to a future without plastic waste with ambitious waste reduction targets: 100 per cent of plastics packaging being recyclable or recoverable by 2030 and 100 per cent of plastics packaging being reused, recycled, or recovered by 2040. CIAC emphasized that our members are committed to ensuring our industry continues to be at the forefront of made-in-Canada solutions to the global issue of reducing the amount of plastics that goes to landfills.

From left to right: Christopher Hilkene, **CEO**, Pollution Probe; Ken Faulkner. Director. Government Relations, **NOVA Chemicals; panel** host Catherine Clark; Ryan L'Abbe, Vice-President Operations, GreenMantra Technologies; and **Parliamentary Secretary** to the Minister of **Environment and** Climate Change, Sean Fraser.



Strategy on Zero Plastic Waste

CIAC also played a lead role in engaging the federal and provincial governments in the lead up to the Canadian Council of Ministers of the Environment (CCME) Strategy on Zero Plastic Waste in November. As a result of CIAC advocacy, the strategy included CIAC recommendations for the move away from the use of "unnecessary plastic" language to that of responsible material choices and life-cycle assessment.

In October and November, CIAC was especially focused on engaging the new Ontario Minister of Environment, Rod Phillips, on the plastic waste issue. CIAC sponsored a Pollution Probe workshop with the Minister and met with him and his team on several occasions.

Panel discussion on plastic waste

In December, CIAC and CPIA organized a very well-attended panel discussion in Ottawa with local online news organization the Sixth Estate exploring the issue of plastic waste. Ms. Des Chênes opened the discussion up to: Christopher Hilkene, CEO of Pollution Probe; Ken Faulkner, Director of Government Relations at NOVA Chemicals; Ryan L'Abbe, Vice-President Operations, GreenMantra Technologies; and Parliamentary Secretary to the Minister of Environment and Climate Change, Sean Fraser.

In addition to the 100 in-person attendees, the video garnered thousands of views online and included interactive elements where audience members asked panelists questions.

CLIMATE CHANGE AND CLEAN AIR POLICY

Generation Energy Council Report submission

CIAC was pleased to have its submission included in the publication of the Generation Energy Council Report, Canada's Energy Transition: Getting to Our Energy Future, Together.

Established by Natural Resources Minister Jim Carr in October 2017, the Council was tasked with engaging Canadians and providing advice to inform the Government of Canada as it develops an energy policy to shape Canada's low-carbon energy future. CIAC's submission to their report, Chemistry: Essential to Canada's Transition to a Low-Carbon Energy Future, provided CIAC with an opportunity to meet with the Council and offer additional context and respond to



From left to right: CIAC EVP, Isabelle Des Chênes; Natural Resources Minister Jim Carr; CIAC President and CEO Bob Masterson.

questions about the role of chemistry in the transition to a low carbon economy.

Among its recommendations based on CIAC's report, the Council encouraged Minister Carr to focus on diversifying the product mix produced by Canada's oil and gas sector, with an emphasis on uses with lower life-cycle greenhouse gas emissions, such as chemical manufacturing.



Shannon Watt, Director, Environment and Health Policy CIAC.

Ensuring carbon pricing is effective

On May 3, CIAC's Director of Environment and Health Policy, Shannon Watt and Executive Vice-President, Isabelle Des Chênes, appeared before the Senate Committee on Energy, the Environment and Natural Resources for a pre-study of the provisions of Bill C-74, the budget implementation bill, that dealt with the government's plan to price greenhouse gas emissions.

CIAC stated that its members support efforts to reduce global carbon emissions and have worked collaboratively with provincial governments and continue to work with federal officials to ensure that carbon policies and pricing mechanisms improve environmental performance, avoid double-regulation and maintain Canada's competitiveness.

Clean Fuel Standard

In late 2016, the federal government announced its intention to introduce a Clean Fuel Standard (CFS) which will include fuel standards for industry and buildings along with transportation, making it the first of its kind in the world.

Throughout 2017 and 2018, CIAC was actively engaged in the government's technical working group on the CFS and has been working with other industrial sectors on a position seeking to address numerous concerns of the emissions intensive, trade exposed industries. Since then, CIAC has been successful in having feedstocks and self-produced and used fuels exempted from the CFS. CIAC was also successful in working with a range of stakeholders from industry to renewable fuels to have the government slow down their timeline for CFS development and implementation. In July, CIAC welcomed the announcement from the federal government of an extended timeline with liquid fuels going first.

CIAC will continue to advocate on behalf of our member-companies and looks forward to working with the federal government to ensure the CFS framework is realistic, effective, and addresses industry concerns on competitiveness and feasibility.



CHEMICALS management

In June 2018, the federal government provided its final reply to the Standing Committee on Environment and Sustainable Development's report on the Canadian Environmental Protection Act (CEPA). The reply provided substantive responses to all 87 recommendations found in the Committee's report. The government's response was very positive in preserving the risk-based underpinning of the current Act and highlighted the operational features of the Chemicals Management Plan (CMP) in response to the recommendations. The federal government also proposed using the definition advanced by chemistry sector for "vulnerable populations." CIAC and its member-companies have led the coordination of advocacy efforts through the CEPA Industry Coordinating Group and the CEPA Review Industry Group.

CIAC was also successful in its efforts to amend the confidential business information (CBI) requirements of the Hazardous Products Regulation, allowing for the use of prescribed ranges to protect the confidentiality of product composition without having to go through the costly, time-consuming CBI claim exemption process.

Working with environmental NGOs

In the lead up to the government's response to the report on CEPA, CIAC partnered with environmental NGOs, Environmental Defence and EcoJustice, to deliver a joint statement on CEPA recommendations to the Minister of Environment and Climate Change Canada (ECCC). This statement and its corresponding joint opinion piece in the Hill Times, was well received by the federal government with a commitment by the Minister of ECCC to implement joint recommendations where possible. This collaboration was a testament to the effectiveness of finding common ground with all stakeholders on an important issue.



RESPONSIBLE CARF®

This year, CIAC continued with the integration of the American Chemistry Council's Responsible Care Management System (RCMS) and RC14001 audit models as alternatives to the existing CIAC third-party verification process. Training sessions were conducted with CIAC member representatives and with U.S.-based audit firms. As part of this process, new tools around community engagement evaluation and new code elements around engagement with indigenous communities were developed and should be ready for adoption in 2019.

After recurring findings by verifiers, media attention and discussions at CIAC's National Advisory Panel meeting, CIAC partnered with the Canadian Fuels Association to lead a review of community awareness practices and emergency response communications around the Sarnia-Lambton petrochemical cluster. Local companies, including non-CIAC members, have already put a plan in place to address the concerns that were identified as part of this review, including a reorganization of local community-industry organizations so industry can pro-actively engage with all local stakeholders and ensure residents are well informed and prepared in case of incidents.

CIAC continues to promote Responsible Care through participation at various conferences, university lectures, and direct engagement with key stakeholders. During the past year, CIAC gave a presentation to senior representatives of key ministries of the Quebec government, to nearly 20 staffers at Environment and Climate Change Canada and to the Ontario Ministry of Environment Toxics Reduction program team to highlight that Responsible Care goes well beyond most government policies and regulations and delivers real environmental performance and safety improvements.



The Responsible Care[®] Ethic and Principles is the foundation which allows CIAC to create partnership opportunities with non-profit environmental groups on related matters. Our industry is uniquely respected for the actions we have already taken to safeguard human health and the environment.

TRANSPORTATION

Bill C-49

Following a lengthy process through which CIAC was highly engaged, Bill C-49 the Transportation Modernization Act, was passed in May 2018. The new Act addresses many CIAC requests, including: new freight rail data reporting requirements on both service and rates; a version of own-motion power for the Canadian Transportation Agency (CTA); and new remedies for shippers. In January 2019, the CTA used its new authority to launch an investigation into challenges in the Vancouver area in late 2018.

Harmonization remains a top priority in CIAC's transportation advocacy efforts, especially with U.S. counterparts. Alignment of standards for Transportation of Dangerous Goods (TDG) rail transport (TP 14877) and concerns over uncoordinated phase-out of certain rail cars are priority areas.

CIAC remains a leader in the TDG regulatory sphere. CIAC now holds the role as Chair for Minister of Transport Marc Garneau's Transportation General Policy Advisory Council and has a voting seat on the Canadian General Standards Board Committee that has been tasked with creating training and assessment standards for the transportation of dangerous goods. CIAC is also highly engaged on updates that have been proposed to Part 7 (ERAPs) of the TDG regulations.

TRANSCAER® Canada's 2018 outreach

In 2018, TRANSCAER[®] Canada hosted a total of 35 outreach events across the country helping train 1,760 participants on how to respond to and prepare for potential transportation incidents involving dangerous goods. Participants represented a wide range of organizations, including firefighters, police officers, government representatives, and various service providers from the chemistry value chain.



These outreach and training sessions were delivered in various formats, including presentations on dangerous goods safety, simulations of real-life incidents supported by props such as dangerous goods training trailers, foam trailers, valve displays as well as tank cars and valve repair demonstrations using capping kits.

CIAC WELCOMES NEW MEMBER, INTER PIPELINE, AS WELL AS NEW RESPONSIBLE CARE® PARTNER, SOURCE ENERGY AND NEW ASSOCIATE MEMBER, WOOD.







CCPX 911 'Safety Train' retires

After nearly three decades of providing a unique backdrop for municipalities, emergency responders and residents to learn about the transportation of dangerous goods from TRANSCAER[®] members, TRANSCAER's Safety Train, the CCPX 911, was officially retired on March 28.

The TRANSCAER Safety Train is a railway tank car that was converted into a classroom on wheels in 1990 to train emergency responders and was the first training car of its kind in Canada. Upon arrival in Windsor, Ontario for one of the first outreach events of 2018, an inspection identified a fatal crack on the tank car that could not be repaired. The CIAC owned the CCPX 911 until three years ago when it was transferred to the Railway Association of Canada. At the end of the year, the CCPX 911 found a new stationary home at the Fire and Emergency Services Training Institute at Toronto's Pearson Airport. This will allow the Safety Train to continue its mandate to help train first responders.



Retirement – David Podruzny

After nearly 25 years of dedicated service to the Canadian chemistry industry, CIAC's Vice-President of Business and Economics, David Podruzny, retired in 2018. Many who worked with Mr. Podruzny over the years, including former CIAC President and CEOs, Richard Paton and Jean Bélanger, gathered in Ottawa on October 18 to wish Mr. Podruzny well in his retirement. Mr. Podruzny came to CIAC's Business and Economics team in August 1994, on secondment from Industry Canada where he was Director of Chemicals. Before that, in 1979, he had joined the federal Department of Industry, Trade and Commerce, where he participated in the Canada-U.S. Free Trade negotiations, the GATT Uruguay Roundtable negotiations, and served as a member of Canada's Energy and Petrochemicals negotiating team during the North American Free Trade negotiations.

AWARDS

TRANSCAER® National Achievement Awards

Dan Moore	Canexus/Chemtrade (Retired)
Craig McCaskey	Shell Chemicals Canada (Retired)

Regional Achievement Awards

Andy Ash	Railway Association of Canada
Dustin Ritter	CP Rail
James Martin	CP Rail
Darlene Nagy	CP Rail
Curtis Myson	Railway Association of Canada
Chuck Obst	INEOS
Jean-Pierre Couture	Railway Association of Canada
Adrian Michielsen	Imperial Oil



CIAC Director of Transportation Kara Edwards; Randy Mak, National and Prairie Region TRANSCAER[®] Chair; Carrie Maxim, Team Leader, Olefins Site Logistics NOVA Chemicals.

Awards – Randy Mak

CIAC launched the inaugural TRANSCAER[®] Awards in 2018, with winners announced April 10 at the National TRANSCAER Committee meeting in Sherwood Park, Alberta. These awards provide outstanding TRANSCAER volunteers with recognition from their peers and leaders within their organizations in three award categories: distinguished service, national achievement, and regional achievement. Randy Mak, National and Prairie Region TRANSCAER Chair, received top honours with the Distinguished Service Award. This award recognizes long-term and sustained dedication to foster growth, recognition or enhancement of the TRANSCAER initiative. CIAC congratulates all winners in their outstanding achievements and commitment to transportation safety.

BOARD OF DIRECTORS

As at December 31, 2018

Marcelo Lu

Chair, CIAC Board of Directors President, BASF Canada

Ed Bechberger

Vice-Chair, CIAC Board of Directors President, Operations, Specialty Chemicals Business, ERCO Worldwide

Bob Masterson

President and CEO, Chemistry Industry Association of Canada

Leon Aarts

Group Vice-President, Corporate Development and Strategy Chemtrade

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Past Chair, CIAC Board of Directors Canadian Regional Operations Manager, Olin Canada ULC

Zoe Baldwin

Vice-President, Shell Chemicals Canada Ltd.

Helder Botelho

Head, Operation, Canada LANXESS Canada Co./Cie

Dave Chappell

Senior Vice-President, Petrochemical Development Inter Pipeline Ltd.

Paul Daoust

Vice-President, North America Methanex Corporation

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Senior Vice-President, Olefins & Feedstock NOVA Chemicals Corporation

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James Ritchie

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Doug Woods

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