



# TIMES

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## HAPPY 60<sup>TH</sup> ANNIVERSARY MISSISSAUGA PLANT

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The Mississauga Cement Plant  
under construction in 1956

# Message from the President & CEO



**Baudouin Nizet**  
President and CEO  
CRH Canada

To our valued customers,

We have officially completed our first year as CRH and we hope you have enjoyed it as much as we have! The last year has been full of relevant changes to our industry. In 2016, the provincial and federal governments committed extensive attention and resources to infrastructure and greenhouse gas reductions—both of which directly impact our industry.

- \$120 billion has been committed by the federal government over the next 10 years for infrastructure spending with \$11.9 billion to be allocated over the next five years. This includes spending on green infrastructure, public transit and social infrastructure:
  - \$3.4 billion over three years to improve mass transit;
  - \$4.2 billion over five years for water and wastewater (more than half destined for aboriginal communities);
  - \$3.4 billion for subsidized housing, recreation centres and daycare; and
  - \$3.4 billion over five years to upgrade harbours, airports and border installations.

In parallel, the Government of Ontario launched its new cap and trade regulations on July 1, 2016. The program is designed to help fight climate change and encourage businesses to reduce their greenhouse gas emissions. Based on estimates, Ontario expects to generate approximately \$1.8-1.9 billion per year in proceeds from this program.

While our industry continues to work towards supporting these initiatives and building the country's infrastructure, we have to be increasingly mindful of the effect this has on our environment and take mitigating steps to comply and continue to innovate. Read more about the new Cap and Trade program and what it means for our industry on page 7, and join us in our effort to lessen our environmental footprint and make meaningful contributions to the communities we live and work in.



**Baudouin Nizet**  
President and CEO  
CRH Canada

## Welcome to the Team Jasmine!



Jasmine Samadi

The Ontario Cement Marketing team is pleased to welcome Jasmine Samadi as AFR & Technical Service Representative!

Jasmine has been working for CRH Canada for six years as a Technical Services Coordinator at the Etobicoke Concrete Lab.

She will be working with the technical services team supporting Ontario customers and our AFR program.

Jasmine has a diploma in Geology from Sir Sandford Fleming College.

Welcome to the Cement Marketing team Jasmine!



# JOIN US FOR CRH MISSISSAUGA'S 60<sup>TH</sup> ANNIVERSARY!

CRH Mississauga invites our customers and the local community to join us for an Open House at our Lakeshore Road plant on September 24<sup>th</sup> as we celebrate our 60<sup>th</sup> anniversary. This milestone celebration will include departmental displays, facility bus tours, fun for the whole family, and much more!

**What:** CRH Mississauga Open House and 60<sup>th</sup> Anniversary Celebration

**When:** Saturday, September 24, 2016  
10:00 am - 2:00 pm  
Rain or shine!

**Where:** 2391 Lakeshore Road West  
Mississauga, ON L5J 1K1

**Who:** CRH employees, retirees, customers and members of the community.  
Children under 16 years of age must be accompanied by an adult.

Come celebrate our past, present and future!

For more information, contact Barb Smith at 905-855-4795 or [barb.smith@ca.crh.com](mailto:barb.smith@ca.crh.com)



# Meet Oldcastle Materials

CRH Canada is part of the Oldcastle Materials network of companies. Operating as Oldcastle, Inc., Oldcastle Materials is the North American arm of CRH plc and the leading vertically integrated supplier of aggregates, asphalt, ready-mixed concrete and paving services in the United States. It is comprised of a vast network of companies that operate from 1,800 locations across 50 U.S. states and 6 Canadian provinces.

### A family of companies

Oldcastle Materials is best described as a family of companies because it is a group of family businesses. The local names and logos are kept to leverage the strength of the family business acquired to the benefit of the group as a whole. Local identities and autonomy have been maintained to preserve community ties and local market knowledge. At the

same time, individual companies benefit from the financial strength, best practices, talent base and purchasing power of being part of a larger organization. This decentralized approach is integral to Oldcastle's business model.

### Strong values across the network

While diverse in name, brand and location, the entire Oldcastle

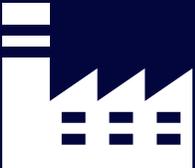
network shares the same strong values, which are similar to those that are part of CRH Canada's own DNA.

**Safety:** There is no acceptable goal for safety other than zero—zero fatalities and zero incidents. Safety is Oldcastle's No. 1 value, and it's taken seriously by every employee, from the CEO to the front line.

**Quality:** All facets of the business—products, services, employees and companies—are held to the highest standards of quality.

**Integrity:** Oldcastle Materials takes pride in an unflagging dedication to fair, honest dealings with customers, suppliers, employees, and communities.

**No.1**  
Asphalt producer  
in the  
United States



**No.1**  
Asphalt paver  
in the  
United States



**43 million**  
tons of asphalt  
annually



**18,000** employees  
and 1,800 locations  
in 50 U.S. states  
and 6 Canadian provinces



**149 million**  
tons of  
aggregates  
annually



**No.3**  
Aggregates producer in  
the United States



**No.3**  
Ready-mix  
producer in the  
United States



**8.1 million**  
cubic yards of  
ready-mix  
concrete/year



All information sourced from [www.oldcastlematerials.com](http://www.oldcastlematerials.com)

# An Integrated Offering

As a leading vertically integrated supplier, Oldcastle Materials offers a broad range of products and services across the United States. Network companies participate in projects of all shapes and sizes—from providing aggregates or ready-mix for infrastructure projects to sand for a golf course!



## AGGREGATES

Oldcastle is one of the top aggregates suppliers for infrastructure, commercial and residential markets. As a vertically integrated company, a large proportion of aggregates are sold internally.



## READY-MIXED CONCRETE

Ready-mixed concrete is the most popular building material in the world and Oldcastle produces millions of cubic yards of it at 280 facilities. It offers ready-mix based on customer specifications and delivered in a timely manner via a vast network of manufacturing locations.



## PAVING AND CONSTRUCTION

Oldcastle crews complete various paving and construction projects annually. This includes asphalt paving, utility installation, general highway construction, concrete paving, and bridge building. Construction services include base, grading, drainage and minor concrete structures.



## ASPHALT

The company is the leader among asphalt providers, producing 43 million tons of asphalt at more than 400 facilities. This leading position reflects a commitment to quality and sustainability. Oldcastle invests in recycled materials, such as reclaimed asphalt pavement, recycled asphalt shingles and warm-mix asphalt technologies.



## CEMENT

Oldcastle manufactures cement for concrete and mortar. In this area like others, Oldcastle is committed to manufacturing a consistent, quality product in a sustainable manner, having implemented a number of carbon-reducing initiatives over the years.



## LANDSCAPE PRODUCTS

Select Oldcastle locations offer landscape products including topsoil, soil conditioners, mulch, bark, decomposed granite, landscape boulders, playground chips, decorative stone and cobbles in various colors and styles. Xeriscaping products, which can be used to create a low-maintenance landscape that requires up to 70 percent less water, are also offered, as well as golf course sand.

## SPOTLIGHT ON NETWORK PROJECTS

### Dallas Cowboys Stadium, Texas

The Cowboys Stadium in Dallas, Texas completed in May 2009 is the largest National Football League venue in the United States. Each of Oldcastle's six product groups provided materials for this 280,000 square metre, 100,000 seat stadium. Most impressive is the "bowl" area of the stadium which showcases a 46 metre sliding glass curtain wall, the largest in the world, supplied by Oldcastle Glass.



### New Hudson River Bridge, New York

Tilcon New York is currently participating in the building of the new US\$3.98 billion bridge across the Hudson River. Its Clinton Point Quarry is supplying 160,000 cubic yards of aggregates for the concrete plants floating in the river. Its Haverstraw Quarry is leasing dock space for the storing of cement containers and its West Nyack Quarry is supplying stone for ready-mix and various aggregates. In addition, Tilcon New York Construction was subcontracted to mill and pave new temporary approaches to the existing bridge.



# 25 Years in the Industry

*By John Hellyer, Market Manager, Mississauga Cement Plant*

May 1, 2016 marked my 25<sup>th</sup> anniversary with CRH Canada (once Holcim/St. Lawrence Cement). Twenty-five years may seem like a lot to some, but for me it's been a quick journey.

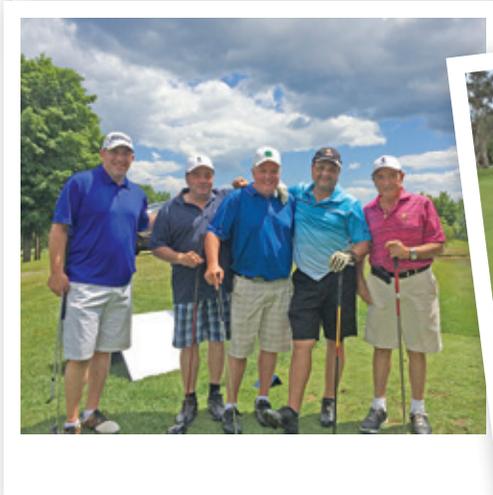
The market manager's role has made some significant changes from when I first took on the role in 1991. For starters, we used to start our week with a role of quarters and a fully charged pager and you quickly got to know which telephone booth offered the best protection from the elements. There were ten market managers in Ontario back in 1991 as

opposed to the four we have today. The province isn't any smaller, but with changes to how we do business and the advent of new technology in communications, four seems right.

I have been fortunate to cover most of the province of Ontario at one time or another

over these 25 years and the common denominator has always been that no matter where you go, you will meet great people. The friendships made, relationships built, and opportunities seized have made this quick journey most enjoyable.

Here's to the next 25!



# Cap and Trade

On July 1, 2016 the Ontario government launched its cap and trade system, designed for the province to meet greenhouse gas (GHG) reduction targets of 15% below 1990 levels by 2020, 37% below by 2030 and 80% below by 2050. The regulation pertains to the first four-year compliance period covering 2017 through 2020.

Ontario is considered a global leader in efforts to reduce GHGs and has committed to broadening its approach to addressing climate change. CRH is committed to continue supporting Ontario's efforts to reduce GHG emissions, mitigate climate change and the evolution of the system. Ontario's business community, and the cement industry specifically, will see a number of changes in the near future as the province shifts towards a low-carbon economy.

The cap and trade system can be simplified as the "cap", or limit, on how much GHG a facility can emit annually through allowances (or credits) and the "trade" that allows a facility that has more allowances than it needs to trade them to those that do not have enough. This "trade" creates a market for carbon allowances that incentivizes

companies to emit less and therefore lessen their environmental footprint.

Cement plants emit GHGs through the chemical process in the production of clinker, the intermediate product to cement, and through the combustion of fuels, such as coal, that produce the high temperature required in a cement kiln. Our current assessment of the impacts of the system for the first compliance period at the Mississauga Cement Plant indicates that we will be required to obtain additional allowances for our GHG emissions. The costs of our obligations under this new system have yet to be determined as further details on the system continue to be developed but we look forward to opportunities to reduce our GHG emissions.

The system is designed to encourage GHG emission reductions by lowering the amount of allowances granted over time. The proceeds from the system will be directed to a new Greenhouse Gas Reduction Account to fund green initiatives that reduce GHG emissions.

The Mississauga Plant now joins our Joliette Plant as the two North American CRH cement plants operating under a carbon pricing program.

For more information, please visit Ontario's cap and trade website at: <https://www.ontario.ca/page/cap-and-trade>.



Ontario Premier Kathleen Wynne with Glenn Murray, Minister of the Environment and Climate Change



# Get to Know our Og

CRH's Ogden Point Quarry is located 160 km east of Toronto in Colborne, Ontario. Covering 685 acres, this limestone quarry has been in operation since 1959. The limestone quarried at this site is shipped to CRH's Mississauga Cement Plant as one of the key components in the manufacturing of cement.

The Ogden Point Quarry is a large geological formation representing over 100 years of resources in reserve with depth of the ore formation of 152 meters.

### The process

The rock is obtained through blasting which requires drilling the limestone face with holes

15 meters deep. Drills are specially designed to reduce dust emissions while drilling, and the blast design helps to control ground and air vibration. Approximately 40,000 tonnes of rock are loosened with each blast.

Free stone is then transported via 70-tonne haul trucks to the

137-cm gyratory crusher which crushes the stone at a crushing rate of 1,500 tonnes per hour. Large pieces of limestone are crushed to approximately 15-20 cm in diameter. This material is then moved on a conveyor to our dock for loading onto lake ships.

Lakers take approximately 22 hours to transport about 18,000 to 19,500 tonnes of stone once they're loaded. During the shipping season (April to December), the laker is dedicated solely to the transport of limestone between the quarry and the Mississauga Plant.



Stephen Chishlom (Quarry Supervisor), Diane Park (Tech Services Rep), Sefton Grell (Quarry Superintendent)



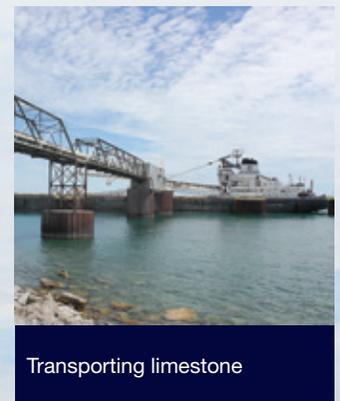
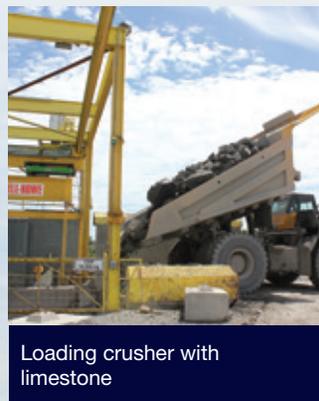
Employees at CRH Ogden Point Quarry



# Ogden Point Quarry

The entire manufacturing process—from blasting and extraction to shipping—is monitored for environmental, process and quality parameters. Each blast is monitored to verify that ground vibrations and air pressure readings are below guidelines.

CRH employs 21 people at its Ogden Point Quarry and over 150 at its Mississauga Plant representing a wide range of skills. Health and safety is of paramount importance at CRH. The health and safety advisor and safety committee work closely together to provide a safe working environment for all employees.



# 60 Proud Years in the Mississauga Business Community!

Sixty years after our Mississauga Cement Plant began production under the St. Lawrence Cement brand, many things, including our brand, have changed but we are still proud to provide quality, reliable product to help build Canada's infrastructure. These historic ads pay tribute to our roots in the community and our commitment to our customers.

The last six decades have seen ongoing technological advancements and improvements at the plant that have resulted in recognition within our industry garnering environmental excellence awards from the Portland Cement Association and locally from the Mississauga Board of Trade. Environmental improvements such as the construction of two baghouses in 1996 to reduce emissions from the plant's main stack and clinker cooler stack, the installation of silencers to reduce noise impact on the local community and stack monitors to measure and control emissions, have all contributed to our ongoing commitment to environmental improvements. The Mississauga Plant was also proud to become the first cement



plant in North America to become ISO 1400 certified.

We value our place within the community and proudly accept our role in contributing to the community's future development and improvement. In 2011, the Mississauga Board of Trade recognized the Mississauga Plant with the Business Award of



Excellence for Corporate Social Responsibility. These milestones and vintage ads remind us that while times have changed—and we do things a little differently now than when we first began production—we continue to be a part of a community that grows and prospers, and we are proud to be a part of that growth!

## Get your Pictures in our Masonry Contest!

The masonry season is well under way, and it has been a hot summer so far. We have been to many sites and seen firsthand how hard the masons are working and would like to reward them! We're asking our masons in Ontario to take a picture of their crew with our new CRH Masonry bags and either tweet our @CRHCanada account with the hashtag #CRHmasonry2016 or send their photo to marco.carlini@ca.crh.com.



Each crew that sends a photo will be entered into a draw to win a \$100 Home Depot gift card for each member of the crew (maximum 15 crew members), one free skid of Masonry Type N, and a Milwaukee job site radio!

Get your pictures in by the extended deadline of September 15<sup>th</sup>, 2016. If you have any questions regarding this contest please speak to your Market Manager.



Dear Dave,  
 What a summer! It's been great for the pool  
 but certainly has introduced some challenges  
 when producing quality concrete.  
 What are some of the key best practices for  
 concreting in hot weather?  
 Yours truly,  
 Hot Ready Mixer

Dear Hot Ready Mixer,

Thanks for the question, your timing couldn't be better with the summer we've been having.

In a nutshell, proper planning and mix design to manage the concrete temperature and setting time is key. This also allows the concrete to be placed and finished in a timely manner. And of course curing, curing, curing after placing!

Here are more detailed tips with illustrations of the CRH marketing team demonstrating!

David Bangma  
 david.bangma@ca.crh.com

## 1. PLAN AHEAD

- Provide necessary equipment and materials well in advance of hot weather.
- If plastic shrinkage is a concern, the subgrade should be pre-wet, and forms and reinforcing steel should be dampened prior to concrete placing. This will prevent the absorption of water from concrete into the subgrade.
- Schedule work so that concrete can be placed with the least delay possible.
- For exposed flatwork the use of retarding admixtures or supplementary cementing materials should be discussed with the concrete producer.



## 2. COOL THE MATERIALS

- Sprinkle coarse-aggregate stock piles.
- Lower the concrete temperature by using chilled water, ice or liquid nitrogen.



## 4. CONSIDER SLUMP AND PLACING

- Slump, which allows for rapid placement and consolidation, should be considered.
- Chemical admixtures such as super-plasticizers can dramatically improve the concrete slump and reduce placement times.
- After the concrete is properly mixed ensure that it is discharged as soon as possible.
- Consider the use of large crews to accelerate placement rates.



## 3. PROTECT WATER SUPPLY LINES

- Insulate water storage tanks or paint them with light colours to reduce heat absorption.
- Insulate water pipelines, paint them, or cover them with sand or burlap kept damp.
- Be sure that drums of ready-mix trucks are painted in light colours.



## 5. PROTECT AGAINST EVAPORATION

- Use one or more of the following actions:
  - Erect sunshades and windbreaks to prevent strong, hot winds from drying exposed concrete surfaces while they are being finished.
  - Cover the surface with white polyethylene sheets.
  - Apply fog spray.
  - Place and finish at night or early morning.
  - Apply temporary evaporation retarder after the screeding operation.



## 6. CURE IMMEDIATELY

- Start curing as soon as the concrete has set enough to avoid any surface damage.
- If curing compound is to be used, apply it immediately after finishing. See that complete coverage is obtained.
- Keep surface constantly wet to avoid alternate wetting and drying during curing period.
- Cure for at least seven consecutive days after finishing.



# Dear Dave

Who needs Dear Abby when you've got a Dave on your team!

Have a question on your mind?

Send him a note and "Dear Dave", our Technical Services Manager David Bangma, will answer it and publish it here so we can all be a little better informed.

# Photo Gallery

- 1 - Talking safety at the plant.
- 2 - Launching our new CRH Canada bags.
- 3 - The Mississauga Ride for Heart Team raised over \$2,000 cycling 50 km on DVP!
- 4 - Our technical guys visiting 3M
- 5 - Celebrating our first year as CRH, with cake of course!
- 6 - Ottawa masonry Blitz with Merkle Supply
- 7 - Taking some time to enjoy the summer with the team!
- 8 - Safety is always our number one priority!
- 9 - Celebrating John Hellyer's 25<sup>th</sup> Work Anniversary! Congrats John!
- 10 - Members of the CRH Canada Talent Acquisition team at the Ryerson University Job Fair in Toronto.

