

# Environmental Update

Vol. 12: Year – End 2011

## Report to the community...

### *A Letter from the Chair...*



Frank Harrison

As I complete my current term as chair of the Board of Directors for the Hamilton Industrial Environmental Association I look back on some of

our members' contributions to the Hamilton community.

HIEA continues to remain a strong, dedicated group of companies who work closely with their neighbours, community initiatives and not-for-profit environmental sector groups, as well as local representatives from the City and the Ministry of the Environment. This dedication to the community was illustrated early this year as Columbian Chemicals Canada invited their neighbours to join in celebrating their 50<sup>th</sup> anniversary of doing business in Hamilton. This is only one example of the long standing history of our member companies.

2011 proved to be both a busy and successful one as HIEA member companies continue to participate in, and support, a number of local environmental initiatives including: Bay Area Restoration Council

(BARC), Children's Water Festival, Hamilton Burlington Earth Day Eco-Festival, Hamilton Conservation Authority - Grow Green Program, Hamilton Naturalists' Club - ECO Art Program, and the Hamilton Wentworth District School Board Outdoor Education Program.

Besides supporting local initiatives HIEA member companies continue to develop and improve their own facilities. 2011 was no exception as many members undertook or completed major initiatives that will have a positive and lasting impact on the Hamilton community. Some of these projects are highlighted in the **focus on our members...**

section. Here you will learn more about the \$25 million waste water treatment plant that is being constructed at U. S. Steel Canada's Hamilton Works, the \$20 million relocation project at Lafarge Canada Inc., the completion of ArcelorMittal Dofasco's 3-phase, \$7.5 million upgrade to its Coke Plant Waste Water Treatment Plant and the installation of Ruetgers Canada's new \$4 million wastewater treatment system.

These and many other improvements over the years have

had a very favourable impact on the local air quality – significantly reducing dust, diesel and other air emissions, releases to water and emissions of greenhouse gases. HIEA members continue to report their aggregate environmental performance for key parameters in their annual survey.

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HAMILTON  
INDUSTRIAL  
ENVIRONMENTAL  
ASSOCIATION

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# HIEA Mandate

*“to improve the local environment – air, land and water – through joint and individual activities, and by partnering with the community to enhance future understanding of environmental issues and help establish priorities for action.”*



## *A Letter from the Chair... continued from pg. 1*

The 2010 Environmental Survey shows a continuing improvement trend for the years since 1997. This year's results are a concrete example of the success that HIEA member companies are achieving in improving the environment in the Hamilton community. These improvements are also being noted in third-party studies including Clean Air Hamilton's Air Quality Progress report, Denis Corr's Mobile Monitoring studies and the Senes Consulting Hamilton Air Quality and Health Impacts Study presented at the 2012 Clean Air Hamilton Upwind/Downwind conference.

HIEA's survey is presented at the association's Annual General Meeting and to the Community Advisory Panel. It is also available to the public both in print and on the association's website [www.hiea.org](http://www.hiea.org).

The Community Advisory Panel (CAP) continues to provide opportunities for representatives from local neighbourhood associations, community advocacy

groups and other interested citizens to exchange information and discuss issues of concern to the community with industry. Through this ongoing dialogue, CAP helps to set the directions and priorities for HIEA's activities and individual member companies' programs.

Our members are actively making efforts to increase our corporate membership and Community Advisory Panel participation, bringing more local industries and community members to the table. As a local business or a neighbour to industry, your input is integral to HIEA's continued success and we welcome your involvement. For more information about how to get involved as a member, or with CAP meetings and other current initiatives, visit [www.hiea.org](http://www.hiea.org) or contact us at 905-561-HIEA or [info@hiea.org](mailto:info@hiea.org).

Frank W. Harrison, Ph.D.  
Division Manager - Environmental Affairs  
U. S. Steel Canada Inc.

## *Community Advisory Panel (CAP)*

CAP participants are local neighbourhood representatives and environmental advocates who are **dedicated to improving Hamilton's** environment through their volunteer efforts. Established in 1997, the Panel acts as a link between industry, neighbourhood groups and individuals, and local environmental community-based initiatives.

Regular meetings allow CAP participants and representatives of the HIEA member companies to exchange information and discuss issues of greatest concern to the community. Through ongoing discussion, CAP helps to set the

**directions and priorities for HIEA's** activities and for individual member-**companies' programs.**

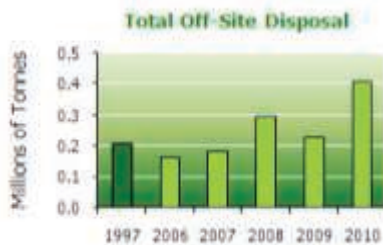
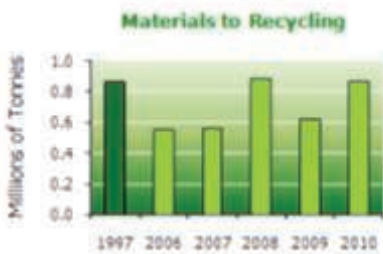
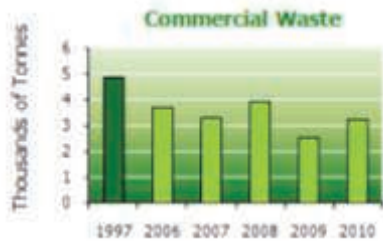
### CAP MANDATE

To identify environmental concerns and provide support to the Hamilton Industrial Environmental Association in their pursuit of a cleaner and healthier environment for the residents of the City of Hamilton.

For more information please check our website at [www.hiea.org](http://www.hiea.org). If you would like to become involved or attend a meeting contact us at [hiea\\_communications@bellnet.ca](mailto:hiea_communications@bellnet.ca) or by calling HIEA at 905-561-4432.

*The 2010 Environmental Survey Report continues to show an environmentally beneficial trend for the years 1997 through 2010.*

**Waste**

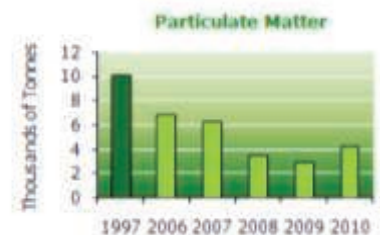
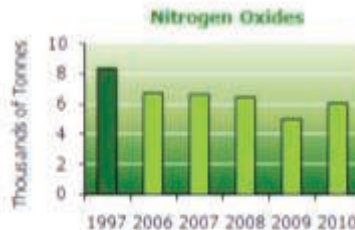


**Environmental Spending**

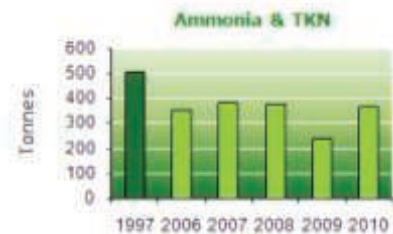
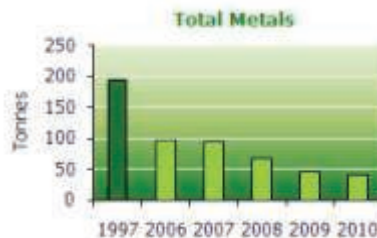
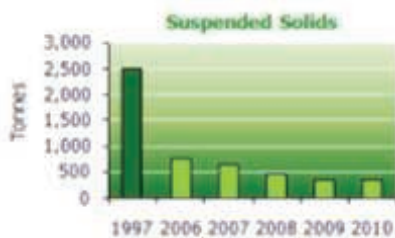
HIEA member companies continue to make major financial contributions to the economic well being and environmental protection of Hamilton. In 2008 our member companies employed over 8,300 people and together paid over \$29 million in Municipal taxes. HIEA Member companies have spent over \$410 million on environmental capital and operating expenses in the last 5 years; investing up to \$37 million in environmental capital projects per year and over \$65 million per year on environmental operating expenses.



**Air**



**Water**



# HIEA continues to support local community programs...

*"HIEA has developed strong relationships with many community groups and we are proud to lend our support to these worthwhile projects."* Frank Harrison, Chair of the HIEA Board of Directors

Through direct financial sponsorship and the volunteer efforts of its member companies, HIEA supported numerous initiatives in 2011 including:

- Bay Area Restoration Council
- **Children's Water Festival**
- Earth Day Eco-Festival
- Hamilton Conservation Authority
- Hamilton Naturalist Club
- Outdoor Education Program

HIEA continues to provide sponsorship and support to environmental and education programs within the Hamilton community.

New applications will be considered each year. To ensure consideration, submissions should be made by September 30<sup>th</sup>; funding decisions will be released by January 31. Applications received after the September 30<sup>th</sup> deadline may be considered at **HIEA's discretion**.

For information about eligibility for funding, our application forms and the process please check our website [www.hiea.org](http://www.hiea.org) for more details.

## ***Demonstrating HIEA's commitment to the community...***

HIEA supports numerous community projects through both financial sponsorship and the volunteer efforts of its member

companies spending an average of \$75,000 and countless volunteer hours each year to improve the local environment.

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### *Bay Area Restoration Council—Yellow Fish Road Program*

**BARC's Yellow Fish Road Program** is part of a national environmental education initiative that teaches students and the public about the impacts of pollution entering urban storm drains. The water

quality of Hamilton Harbour is important for the many kinds of wildlife that call the bay home and dumping hazardous waste into sewer drains is a significant source of water pollution.



By painting these very visible yellow fish symbols beside storm drains and distributing fish-shaped brochures to nearby households, volunteers remind people to properly use and safely dispose of household chemicals.

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### *City of Hamilton—Children's Water Festival*

**The Children's Water Festival** provides 30 hands-on educational activities to approximately 2,700 grade 4 students over the three days of the festival. Activities are designed to ensure that students learn to respect water and the environment while having fun.



Focusing on water conservation, water science & technology, water awareness and water

protection these activities support the Ontario Curriculum including the 2007 Ontario Science and Technology curriculum.

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### *Earth Day Hamilton—Burlington—EcoFestival*



Earth Day Hamilton-Burlington provides the opportunity for almost 3,000 local middle school students to attend this free event.

Offering various nature experiences and hands-on learning in an amazing setting, Eco-Festival is a multi-day event designed to educate and empower participants to make environmental change.

The workshops provide education, environmental awareness, tools for change, and inspiration which will translate into action and improve the local environment.

### *Hamilton Conservation Authority—Grow Green Program*

Between September 2010 and June 2011, twenty-one grade 3 classes from across Hamilton learned how they could help slow down climate change and make a positive contribution to their own local ecosystems.

These students grew over 1,000 red oak seedlings from acorns they had collected, learning first hand how plants grow from seed. They also learned how trees are an important part of climate **control and why it's important to keep healthy and diverse forests in Hamilton.** During April, May &

June 2011, students planted their trees in conservation areas, parks, and schools yards across the city, increasing the health and biodiversity of their own communities.



### *Hamilton Naturalists' Club—ECO Art Program*



Delivered in partnership with the Print Studio, the ECO Art program allowed almost 400 students from **Hamilton's downtown core and east end schools** to learn about local wildlife, produce individual artwork using print technology, and participate in a nature outing.

**With HIEA's support, Parkview High students** participated in an interactive classroom session about the local wildlife and natural history of the Red Hill Valley followed by a field trip to **experience its' nature first hand.**

### *Hamilton Wentworth District School Board—Outdoor Education Program*

The Outdoor Education Program delivers an on-site outdoor education program at the Dave Brown Outdoor Education Centre linking curriculum to classroom learning for students in Kindergarten to Grade 3 from schools located in the lower core **city. Through HIEA's support** HWDSB is able to increase availability of authentic local outdoor education experiences



and increase understanding of basic concepts of sustainability for a variety of multi-cultural students.

# HIEA's Scholarship Programs

*Preparing today's  
students for tomorrow's  
world...*

HIEA initially established its' bursary fund at Mohawk College in 2006 with matching funds from the Ontario Trust for Student Support (OTSS) program. In 2009 HIEA provided additional money and doubled the fund.

These funds provide financial support to students who are currently enrolled in the Energy Systems Technology – Clean & Renewable Energy, Chemical Engineering Technology – Environment or the Environmental Technician with or without Co-Op Internship programs at Mohawk College of Applied Arts and Technology. Each year the interest earned within the fund is to be distributed to students who meet the listed criteria. HIEA is pleased to provide support for three Mohawk College students in 2012. Please check our website [www.hiea.org](http://www.hiea.org) for **information about this year's winners.**

For more information and/or to apply for this bursary please check the Mohawk College website:  
[www.mohawkcollege.ca](http://www.mohawkcollege.ca)  
or contact

Student Awards  
The Square - Student Services

Room C102  
905-575-2066

# Plan to Attend **HIEA's** Annual Meeting

Thursday March 29, 2012  
Waterfront Conference Centre  
555 Bay Street North

Guest speakers

Mary Ellen Scanlon

~ Ontario Ministry of the Environment ~

John Hall

~ Hamilton Harbour's Remedial Action Plan ~

Chris McLaughlin

~ Bay Area Restoration Council ~

discussing

Hamilton Harbour  
Remedial Action Plan:  
its past, present and future.

Please join representatives from  
HIEA member companies in  
congratulating our 2012 grant and  
scholarship recipients for their role  
in improving the environment and  
quality of life in Hamilton.

5:30 p.m. ~ Registration and reception  
6:00 p.m. ~ Presentations and Displays



Everyone is welcome. For more  
information please contact us at:  
hiea\_communications@bellnet.ca  
or 905-561-HIEA (4432)

## ***Focus on our Members...***

### INVESTING FOR A BRIGHT FUTURE

*Columbian Chemicals Canada Celebrates 50 Years*

2012 is an exciting year for Columbian Chemicals Canada. Since 1962 CCC has provided high quality carbon black products for hundreds of customers, and, fifty years of employment opportunities for the Hamilton community.

The celebrations started off with two major events on February 13<sup>th</sup>. First the 50<sup>th</sup> Anniversary commemorative flag raising, then, the official announcement that Columbian is considering a major expansion of the Hamilton Plant.

Guests at these events included City of Hamilton Mayor Bob Bratina, Dr. Santrupt Misra, CEO Birla Carbon, Kevin Boyle, COO Birla Carbon and President & CEO Columbian Chemicals Company, John Loudermilk, President Columbian Chemicals, North America, and many suppliers, neighbours, retirees and employees.

During the ceremony, the Mayor **highlighted Columbian's contributions to the City of Hamilton saying "hard hats and lunch pails" are key to a successful economy.**

Kevin Boyle congratulated the Hamilton plant employees on their



safety successes and announced that they have begun the initial phase of expansion evaluation.

**"This is an exciting opportunity for the Hamilton Plant and a testament to our outstanding workforce and the Hamilton Region," says Brian Young, the plant's General Manager of the expansion proposal.**

Throughout the year, Columbian will continue to celebrate their 50<sup>th</sup> anniversary with a number of events, including an employee bowling night, a family BBQ, and a public open house in the fall.

Columbian Chemicals is part of **Birla Carbon, the world's leading carbon black business** and a member of the Aditya Birla Group, a \$35B global conglomerate.

*Lori Small,  
Health, Safety and Environment Mgr.*

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### *Waste Water Treatment Plants - HIEA members answer to Hamilton's Sewer Use By-Law*

**Hamilton's Sewer Use By-Law** places concentration limits on various substances or parameters in discharges to the sanitary or to the combined storm/sanitary sewer system. HIEA member companies have made, and continue to make, significant

investments to treat water on site allowing them to meet the requirements of the By-Law.

U. S. Steel Canada - Hamilton Works, currently pays a fee to the City under an overstrength agreement for treatment of

*continued on next page...*

*HIEA member companies working together to make a big difference in the community...*

Those large piles of slag that used to greet you along Hamilton's east end have found a new home. As part of a \$20 million project Lafarge Canada Inc. has consolidated its two local slag operations, Windemere Drive and Pier 26 — along Eastport Drive, into one location. Now located on Pier 22 at the foot of Strathearn Ave. this 42-hectare tract of reclaimed land, created in the late 1960s, was once the location of **Stelco's No. 2 Rod Mill.**

Slag, a by-product of steel production, is processed by Lafarge for both ArcelorMittal Dofasco and U. S. Steel Hamilton Works into

pellets to be used in the making of cement or used as an aggregate. ArcelorMittal Dofasco produces about 500,000 tons of slag a year.

Moving approximately 1 million tons of the material to the new slag facility located immediately adjacent to the ArcelorMittal Dofasco plant will potentially take 15,000 truckloads of material off the roadway. This location will also enable Lafarge to ship its material directly off Pier 22, further reducing the number of trucks on the road. Extending the dock at the north end of the property by approximately 80

metres will improve access for cargo ships and easily allow Lafarge to ship 250,000 tons a year through the facility. Not only will this change will have a very favourable impact on the local air quality by drastically reducing dust, diesel emissions and greenhouse gases but it will also reduce the wear and tear on the roads. This is a huge win for the east end.

A full environmental assessment took place before Lafarge occupied the site which is located closest to the harbour where it does not infringe on Hobson Pond which is a protected area for snapping turtles.

The original property has been sold to scrap processor American Iron and Metal.

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substances such as phosphorus and ammonia in water flowing into the sanitary sewer from the Coke Ovens and By-Products Plant. The **City's Sewage Treatment Plant** readily handles these substances through the same processes that handles these substances coming from household sewer flows.

U. S. Steel Canada also has an agreement with the City for actions to reach compliance for other substances including fluoride, cyanide, polycyclic aromatic hydrocarbons (PAHs) and phenols. Currently, a \$25 million waste water treatment plant is being constructed at Hamilton Works under this compliance agreement to provide biological and chemical treatment as well as filtration for water flowing from the Coke Ovens and By-Products Plants. With construction nearly complete the plant will be in operation by mid 2012. When the plant is in operation, water discharged from Hamilton Works into the sanitary sewer system will be in compliance **with the requirements of the City's Sewer Use By-Law.**



*ArcelorMittal Dofasco's Cokemaking Wastewater Treatment Plant*

ArcelorMittal Dofasco is also subject to an agreement with the City to reach Sewer Use By-Law limits for PAHs, fluoride and cyanide. In 2010, AMD completed a 3-phase, \$7.5 million upgrade to its Coke Plant Waste Water Treatment Plant which enabled the company to meet the limits for fluoride and cyanide, and reduced PAHs by more than 95%. The company is now engineering a 4<sup>th</sup> phase of the upgrade project targeting further reduction in PAHs from the facility.

Ruetgers Canada has operated a coal tar distillation plant in Hamilton since 1958 and currently has 74 employees. Ruetgers Canada pays a fee to the City

under an overstrength agreement for treatment of ammonia in wastewater discharged to the combined sewer system. Ammonia is treated effectively by the **City's Sewage Treatment Plant.**

In 2011, a new process wastewater treatment system was installed at a

cost of \$4 million to treat substances including polycyclic aromatic hydrocarbons (PAHs), benzene, toluene and phenols that are present in the process wastewater. The new treatment system includes collection of process wastewater streams into an equalization tank followed by biological treatment, microfiltration, activated carbon adsorption and chemical addition. This new treatment system has allowed process wastewater discharged from the site into the combined sewer system to be in compliance with the requirements **of the City's Sewer Use By-Law,** with the exception of ammonia as mentioned above.

# We are HIEA...

... a non-profit association of local industries. HIEA provides an open forum for community members and local associations to discuss their environmental concerns. HIEA has a strong history of connecting with local neighbourhood associations and working with the community to fulfill HIEA's mandate:

*"to improve the local environment – air, land and water – through joint and individual activities, and by partnering with the community to enhance future understanding of environmental issues and help establish priorities for action."*

## 2011/2012 Board of Directors

### Chair

**Frank Harrison**  
Division Manager—Environmental Affairs  
U. S. Steel Canada

### Vice Chair

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General Manager - Environment  
ArcelorMittal Dofasco

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**Darcy Balak**  
Director of Operations - Hamilton  
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U. S. Steel Canada

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**Al Lindholm**  
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**Larry Rose**  
VP H. R. & Quality, Environment & Safety  
Triple M Metal LP

**Brian Young**  
General Manager  
Columbian Chemicals Canada Ltd.

## Member Companies

