



**Hamilton
Industrial
Environmental
Association**

**Report to the Community
2014**

Sweet Ox-eye at Land's Inlet; photo by Paul O'Hara

Message from the Chair



2014 was another successful year for the Hamilton Industrial Environmental Association (HIEA), and I'm pleased to have continued in my role as chair of the Board of Directors.

Our 12 member companies are proud of the impact they have made in the Hamilton community. They are committed to the conservation and protection of our natural environment and to making financial contributions to the economic well being and environmental protection of Hamilton.

In late 2014 HIEA was pleased to announce its partnership with the City of Hamilton to retain Golder Associates Ltd. to develop a model of the Hamilton airshed that will identify and quantify sources of contaminants that impact air quality in Hamilton, including

local, regional, transportation and trans-boundary. The model will provide a valuable tool to assess the impacts of population growth, land use and transportation policies on local air quality to help prioritize improvement actions.

HIEA continues to provide financial support to local environmental initiatives, and education and awareness programs. In 2014, those included the **Children's Water Festival**, **Yellow Fish Road**, **Green Angels**, **Protecting Monarch Butterflies at Land's Inlet** and **Clean Air for Kids**.

HIEA was a leading sponsor of **Clean Air Hamilton's 2014 Upwind Downwind Conference: Built Form – Foundation for Cleaner Air**. I was honoured to have introduced Dr. Karen Lee as the Keynote speaker for this very successful, biannual conference.

HIEA was pleased to support the development of and contribute to The Brian McCarry Graduate Chemistry Scholarship Fund at McMaster University. Prior to his passing in 2013, Brian was a highly regarded air quality expert in Hamilton.

Through HIEA's post-secondary scholarship program at Mohawk College, we were again pleased to award bursaries to 3 students in Environmental Studies

Programs in 2014.

Congratulations Alla Afana, Nanwe Anoaia and Kady Purvis!

Collectively, HIEA member companies have invested over \$150 million on environmental capital projects in the last 5 years, leading to continued improvement in their environmental performance. Again this year, the Board of Directors is pleased to report the highlights of the aggregated results of our 2013 environmental performance in this community report and on our website – www.hiea.org.

As a neighbour to our industrial operations, we welcome your involvement. For more **information about HIEA's** Community Advisory Panel and other initiatives, visit www.hiea.org or contact us at 905-662-2131 or communications@hiea.org.

A handwritten signature in black ink that reads "Jim Stirling". The signature is written in a cursive, slightly slanted style.

Jim Stirling
Chair of the Board - Hamilton Industrial Environmental Association



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Photo courtesy of RBG Green Angels Program

Good News for the Hamilton Community

HIEA and City of Hamilton—Public Health team up to fund Air Shed Model

As 2014 came to a close, HIEA was pleased to partner with the City of Hamilton to co-fund the development of a model of the Hamilton Airshed. On December 15th, Golder Associates Ltd. was retained by HIEA to begin work on this 16 month project.

The idea of developing a model of the Hamilton airshed arose from the 2013 report of Clean Air **Hamilton's Air Quality Task Force (AQTF)**. The AQTF was established to respond to the City of Hamilton Board of **Health's direction** to recommend actions that can be taken to reduce air pollution in **Hamilton**. The AQTF's first recommendation was that a comprehensive model be developed to understand the dynamics of the Hamilton airshed more fully.

Air quality in Hamilton's urban airshed is a function of many processes that are influenced by a wide-variety of sources including, local, regional and trans-boundary. The challenge is to determine the relevant set of sources and contaminants which influence air quality at a neighbourhood level.

The focus of the Hamilton Airshed project will be to determine the contribution and nature of various local and background (e.g., trans-boundary) sources on ambient air concentrations in Hamilton

and to accurately predict the air pollution level at any point in the region.

Development of the Hamilton Airshed Model will allow:

- Characterization of air quality across the Hamilton area;
- Determination of the contribution from different emission source sectors to air quality;
- Development and prioritization of more effective air quality improvement actions;
- Establishment of a tool to assess the impacts of population growth and land use and transportation policies on local air quality; and
- Better informed urban planning.

Golder Associates was chosen to undertake this project because of their significant experience in developing cumulative airshed models in Canada, having completed several such studies for the City of Toronto, Halton Region, and Greater Vancouver Regional District. These studies have all been successful in furthering an understanding of the transport and impact of local, regional, and trans-boundary emissions.

Throughout the duration of the project, Golder will report regularly to an Advisory Committee comprised of representatives from HIEA member companies, City of Hamilton Public Health Services, Clean Air Hamilton, Ministry of the Environment and Climate Change and Environment Hamilton. Advisory Committee members will further distribute that information about the status of the model through their own communication networks, helping keep the Hamilton community fully informed.



Jim Stirling, HIEA board chair signs the contract with Matt Lawson (left), Manager, Health Hazards Program Hamilton Public Health Services and Anthony Ciccone (right) Ph.D., P. Eng of Golder Associates.

ArcelorMittal Dofasco: Coke Plant Restoration Program



In 2014, ArcelorMittal Dofasco (AMD) announced an \$87-million major restoration project for the company's No. 2 and No. 3 Coke Plants, including By-Products.

AMD currently operates three coke plants with a total of six batteries producing approximately 1 million tons of blast furnace coke each year. Earlier in the year, the company announced that the No. 1 Coke Plant and By-Products Plant will be permanently shut down by March 31, 2015.

More than 100 projects comprise the restoration project at No. 2 and No. 3 plants. The work is well underway with approximately 50 AMD employees and 35 contractor employees working on these projects. Given the complexity and the fact that the plants must continue to operate throughout the project, the work will be undertaken over 5 years, with 60 per cent being complete by the end of 2016.

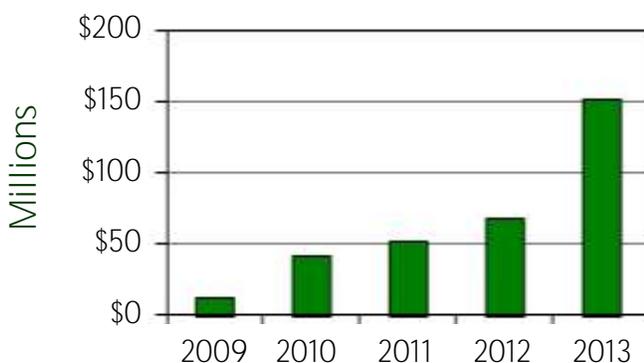
A large part of the restoration plan is focused on end-flue

repairs at No. 2 Coke Plant and oven-through-wall repairs at both plants. The end-flue repair involves the reconstruction of the heating flues that are located closest to the oven doors on both the pusher and coke sides of the batteries. Oven-through-wall repair is the complete rebuild of the oven walls. With this effort, the refractory bricks between the ovens are completely replaced. Other key projects include work on coke oven gas piping as well as upgrades to the piping and vessels used to cool and remove by-products.

The restoration program will result in significant improvement in the company's environmental performance, reducing visible emissions and total emissions of key compounds including total suspended particulate, benzene and benzo(a)pyrene.

The Restructuring Program will provide ArcelorMittal Dofasco with cleaner, more efficient coke plants.

5 Year Cumulative Environmental Capital Spending



HIEA member companies continue to make major financial contributions to the economic well being and environmental protection of Hamilton.

Collectively, HIEA member companies have invested over \$150 million on environmental capital expenses in the last 5 years — spending more in 2013 on environmental capital projects than the combined total of the previous 4 years.

In 2013 HIEA member companies employed almost 7,000 people and paid over \$22 million in municipal taxes.

HIEA in the Hamilton Community...



From the left—Ron Ridout, Jim Stirling, James Howlett, Richard MacDonald and Bruce Mackenzie cutting the ribbon at the new birding platform at 50 Point Conservation Area.

A ribbon cutting ceremony was held on September 24, unveiling the migratory bird lookout platform and the interpretative signage at Fifty Point Conservation Area. Similar panels were also installed at the existing Lakeland Lookout platform at Confederation Park. This two year project was made possible as a result of funding provided by HIEA.

It is expected that over 400,000 people per year will become more aware of this globally significant ecological site as a result of the signage and platform.

The West End of Lake Ontario was designated an Important Bird Area (IBA) because it regularly supports globally significant numbers of several duck species from fall through spring. These include Greater Scaup, Long-tailed Ducks, Common Goldeneyes,

and Red-breasted Mergansers. White-winged Scoters and Red-necked Grebes regularly occur in continentally significant numbers and in some years at globally significant levels.

Bruce Mackenzie, a recently retired senior manager at the Hamilton Conservation

Authority who helped spearhead the project, said the platform will be great for viewing birds year round, but November and December are a **particular treat. “The ducks fly by here in the thousands,” he said. “Right now many birds from the Arctic are migrating through this area and bird watchers take great pleasure in finding the long-tailed jaegers, the pomarine jaegers, Sabine gulls and kittiwakes. These are birds that are very, very difficult to find anywhere in Ontario.”**

The Fifty Point Conservation Area is in the heart of the West

End of Lake Ontario IBA. With a combination of several habitats – lake, pond, field, and forest – this small area is one of the premier spots in Ontario to see an amazing array of birds. The shore of Lake Ontario also helps to concentrate many migrating birds here. Fifty Point juts out almost 1.5 km beyond the adjacent shoreline. Birds following the shoreline are pushed out along the point, while those flying offshore often **come quite close. The point’s** elevation helps observers get great views of ducks, gulls, shorebirds, and other birds flying by on the lake. The best time to watch for migrating waterbirds is in the fall. When north winds are blowing, birds are pushed close to shore, flying around the point at very close range. From their viewing scope, birders can track down birds that can be four or five **kilometres off Lake Ontario’s** shoreline.



Photo by Richard Leitner

From a bird’s perspective, Fifty Point is an island of natural habitat surrounded by urban development and water. Many migrating birds take a break from their long journeys to stop and refuel at this oasis.



One of two different interpretive signs located at 50 Point Conservation Area. Similar signage can be found at the Lakeland Lookout in Confederation Park.

City of Hamilton—Children’s Water Festival

The Children’s Water Festival has activities geared to water conservation, water science and technology, water awareness and water protection. City of Hamilton Water and Wastewater division staff view this as an amazing opportunity to not only educate, but provide our youth with the knowledge to educate others.

The 2014 event marked the 7th year of this fabulous community festival!

A reworked schedule allowed organizers to maximize the total attendance increasing registrations by 14% to 100 classes with over 2,800 students and their teachers attending over the three day event.



Students were able to participate in 30 hands on, interactive water activities, on several different topics, that were led by community partners who are experts in the field.

Participation in these activities helped to provide the students with knowledge and a new respect and passion for water. 66% of students surveyed indicated that they learned a lot of new things about water while 33% indicated that they had learned a few new things.

Supporting local community programs...

“HIEA has developed strong relationships with many community groups and we are proud to lend our support to these worthwhile projects.” - Jim Stirling, Chair of the HIEA Board of Directors.

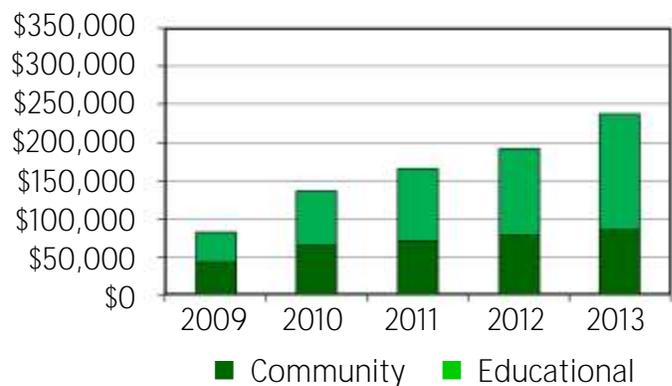
Through direct financial sponsorship and volunteer efforts of its member companies, HIEA continues to provide support to environmental and education programs within the Hamilton community.

The annual submission deadline for applications is September 30th. Funding decisions are released by January 31st and

funds distributed before the HIEA annual meeting in March.

For information about eligibility for funding, our application forms, and the process, please check our website www.hiea.org for more details.

5 Year Cumulative Support



HIEA in the Hamilton Community...

Royal Botanical Gardens—Green Angel Program



The RBG Green Angels program began in July 2013. The goal of the program is to provide disadvantaged, special needs and new Canadian children in the Hamilton area with free access to week long summer camps, school and other outdoor nature education programs. RBG staff believe that every child should have the opportunity to fall in love with nature. The Green Angels fund

provides that for children and families in financial need by offering free school programs and bussing, free admission passes and free family memberships. Subsidies are offered to individuals, school boards and local not-for-profits.

1,232 school kids on 15 free busses, 24 kids in summer camp, **4 in kid's gardening programs** and 300 children through family memberships & admission passes benefited in 2014.

The RBG staff are committed to the program with over 70% participation in the Staff Fundraising Campaign. Earlier in 2014 a new partnership was formed when the Green Angels

Program was approved as a charity for all HWCDSB schools.

Green Angels supports children and families in our local communities by giving them access to natural spaces and free outdoor education at RBG.



Green Venture—Clean Air for Kids Program

In partnership with Dr. Denis Corr and Corr Research, a total of 40 grade 5 students from Queen Victoria Elementary School and Holy Name of Jesus Catholic Elementary School participated in the Clean Air for Kids Program.



The initial presentation includes information about Air Quality Health Index and ambient air monitors through the Hamilton Air Monitoring Network. By including an interactive game, Clean Air Shuffle, the students are engaged in various activities that impact air quality. The next visit includes data collection of Particulate Matter (PM) and creating a graph.

Using a desk top "Dust Trak" students collected and recorded data on the levels of Particulate Matter 2.5 and Particulate Matter 10 in their own neighbourhoods. Afterwards, the students completed graphs

using the data they collected. This exercise helps to show them the connection between busy roads and more traffic will mean an increase in air pollution. Students then see that by walking, cycling or car-pooling, they can make a difference and decrease pollutants in the air.



Hamilton Naturalist Club—Protecting Monarch Butterflies at Land’s Inlet Project



It was a very successful year for the **Hamilton Naturalists’ Club Protecting Monarch Butterflies at Land’s Inlet Nature Project**. Staff and volunteers created Monarch and pollinator habitat, developed and installed interpretive signage, and distributed over 200 native seed packs to help residents create their own Monarch habitat.

As a result of the project Monarchs and pollinators have more habitat refuges on public lands and the community is creating pollinator patches on private lands. Due to the **planting success at Land’s Inlet**, several neighbourhood associations are working to create pollinator corridors. The interpretive signage **created for Land’s Inlet** is being used as a model at other project sites to help the community create Monarch and pollinator habitat in their backyards.

Over 200 students and 100 adults learned about the importance of pollinators

and how to create habitat through interactive programming that was delivered **in the classroom, at Land’s Inlet** and at the North Hamilton Community Health Centre **Park’n’Party**.



Bay Area Restoration Council—Yellow Fish Road Program



BARC’s Yellow Fish Road™ program helps to increase youth understanding and appreciation of Hamilton Harbour, its watershed, and the negative impacts of runoff pollution through storm drains.

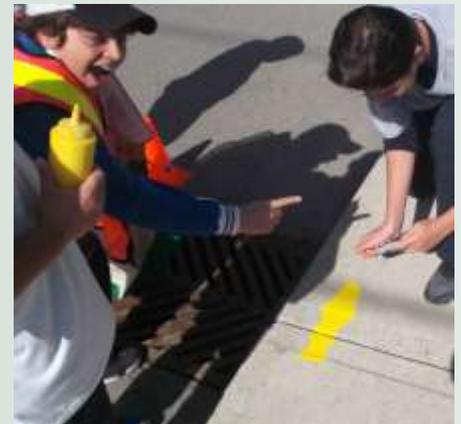
In 2014 BARC staff delivered 7 presentations to 94 youth and

19 adult volunteers. After learning about the program these individuals painted a total of 380 storm drains with bright yellow fish and attached an adhesive disk with the **message “Only Rain Down the Drain!”** and delivered flyers

to 785 nearby households.

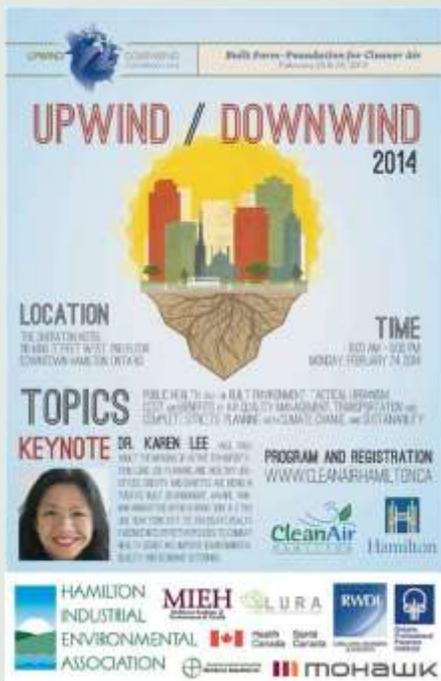
These flyers provide information **about the Yellow Fish Road™** program, ways to properly dispose of hazardous materials, and BARC contact information. This material provides residents with the tools and information they need to make more

conscientious decisions. BARC has been using this program since 2005 to encourage members of the community to make behavioral changes to protect Hamilton Harbour and its watershed.



HIEA in the Hamilton Community...

...proudly sponsoring the 2014 Upwind-Downwind Conference



HIEA partnered with Clean Air Hamilton as a Clean Air Leader to help deliver the 2014 Upwind Downwind Conference: Built Form - Foundation for Cleaner Air that was held on February 23. HIEA's support enabled the planning committee to engage Dr. Karen Lee as the keynote speaker for the event. Jim Stirling, HIEA board chair introduced Dr. Lee and her presentation – Integrating Health, Land Use Planning and Transportation to help kick off a great day of discussions around health and the built environment.

The 2014 Upwind Downwind Conference was the eighth biennial conference focusing on practical solutions to the air quality, trans-boundary air and climate change issues and impacts facing urban

regions. The goal of the conference is to build on the momentum and strong networks initiated by previous conferences to facilitate continuous discussion and improvements on clean air issues. The information-sharing forum helps to improve the understanding of air quality and climate change issues and impacts to cities, human health and the economy.

To achieve these goals, the theme of the one-day 2014 Conference focused on the built environment and its role in shaping and influencing healthy communities, transportation, improved air quality, climate change and changes in policy and action.

Approximately 166 planners, health promoters, university/ college students, environmental consultants, retirees and

citizens participated in the one-day conference resulting in a nice balance between the ages and experiences of the participants. The attendance represented a 14% increase over attendance at the 2012 conference.

Another feature of the conference was the Sunday afternoon talk on February 23rd by Yale University professor and author Dr. Stephen Kellert, held at the Art Gallery of Hamilton.

140 people attended this Sunday event at which Dr. Kellert, author of the book, Biophilic Design: The Theory, Science and Practice of Bringing Buildings to Life, discussed the connection between science and humanity with a particular interest in environmental conservation and sustainable design and development.



Our Industrial Eco-system

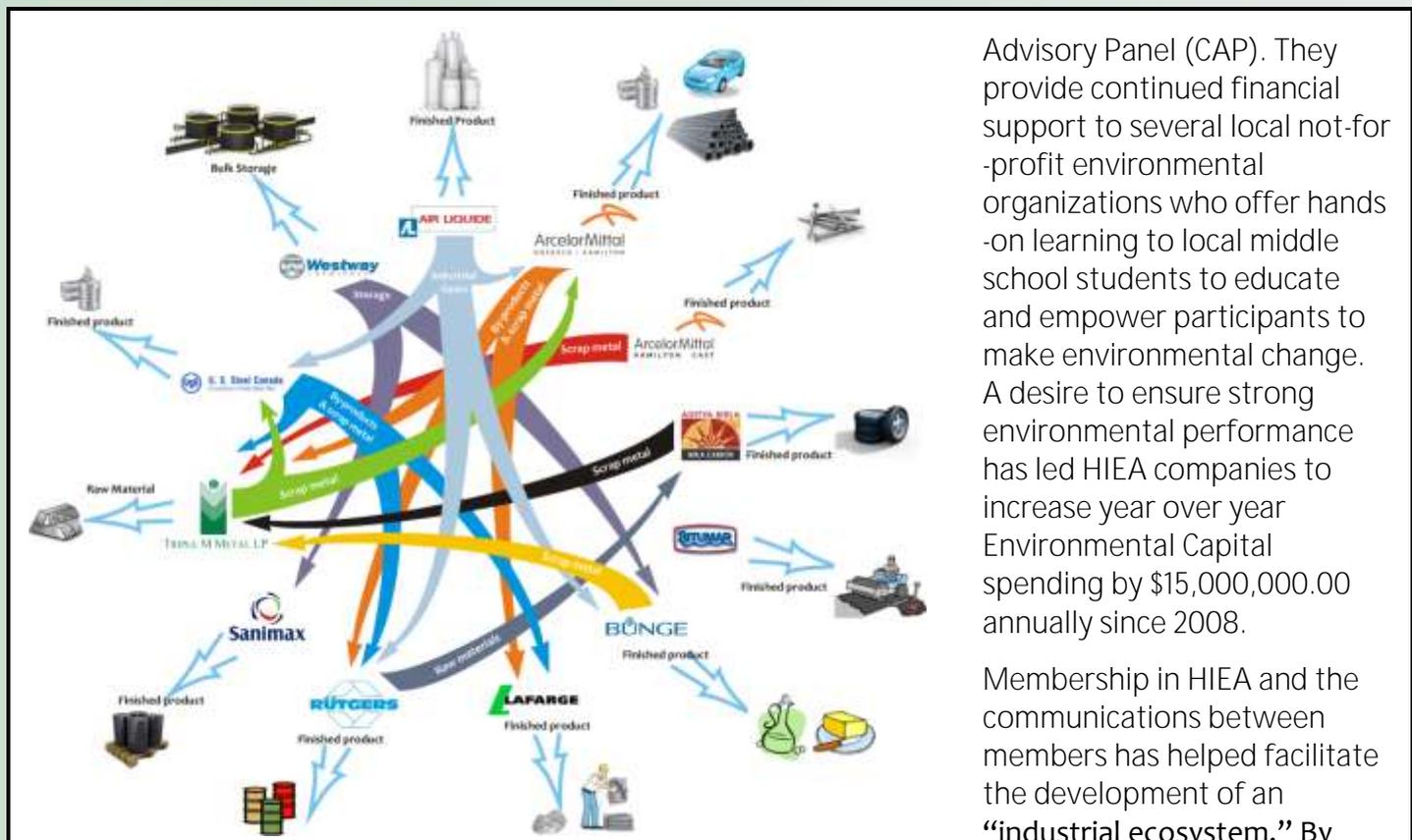
Sustainable Hamilton

HIEA has supported Sustainable Hamilton since it began in 2012 and became a reporting partner in their first annual report in 2013. HIEA participated in this reporting initiative again in 2014 and their “Industrial Eco-system” was highlighted in the Sustainable Hamilton 2014 Annual Report.

HIEA member companies have been following sustainable practices together as HIEA since 1995 but their history goes back much farther. Interdependence between members is critical for individual success, from providing each other with raw materials and feed stock to using each others’ end products and services. What was once

considered waste and was sent to landfill is now sold to other members as their raw material. Working within their own “industrial eco-system” the members continue to strive for environmental improvements .

Members meet regularly and discuss challenges and issues, helping each other find solutions and better ways to protect the environment. We always welcome new members in the Hamilton area.



Advisory Panel (CAP). They provide continued financial support to several local not-for-profit environmental organizations who offer hands-on learning to local middle school students to educate and empower participants to make environmental change. A desire to ensure strong environmental performance has led HIEA companies to increase year over year Environmental Capital spending by \$15,000,000.00 annually since 2008.

Membership in HIEA and the communications between members has helped facilitate the development of an “industrial ecosystem.” By purchasing each others’ by-products and waste, and providing each other with raw materials and feed stock for new processes and products they are creating a more efficient, environmentally beneficial way of operating.

hiea.org

Sustainable Hamilton’s 2014 Report Highlights

The Hamilton Industrial Environmental Association is a body of representatives from twelve local industrial companies who are committed to operating their facilities in a safe and responsible manner, and in a

way which does not adversely impact neighbouring communities.

HIEA has developed a strong connection to their community stakeholders in Hamilton through their Community

HIEA's Scholarship Programs

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

HIEA 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 enrolled in the Energy Systems Technology – Clean & Renewable Energy,

Chemical Engineering Technology – Environment or the Environmental Technician programs at Mohawk College.

Each year the interest earned within the fund is distributed to students who meet the listed criteria. HIEA is pleased to provide support for Mohawk College students.

Please check our website www.hiea.org to learn about our past winners.

For more information and/or to apply for this bursary please check the Mohawk College website: www.mohawkcollege.ca or contact: Mohawk Student Awards at The Square - Student Services Room C102 or by calling 905-575-2066.

Congratulations to HIEA's 2013-14 Mohawk College Scholarship Winners

Alla Afana was in her second year of the Chemical Engineering Technology program in 2014. Alla will be pursuing a career in chemical engineering field following her graduation.

Nanwe Anoaia was in her third year of the Chemical Engineering Technology program in 2014. Nanwe will be pursuing a career in the petrochemical industry following her graduation.

Kady Purvis was in her third year of the Chemical Engineering Technology program in 2014. Kady will be pursuing a career in the environmental science field following her graduation. In her letter to HIEA she stated: **"Thanks to you, I am one step closer to being able to achieve my goal. By awarding me the Hamilton Industrial Environmental Association Bursary you have lightened my financial burden which allows me to focus more on the most important aspect of school, learning. Your generosity has inspired me to help others and give back to the community. I hope one day I will be able to help students achieve their goals just as you have helped me."**

HIEA supports The Brian McCarry Graduate Chemistry Scholarship Fund...

In 2013, the environmental community of Hamilton was saddened by the passing of Dr. Brian McCarry (1946 – 2013) who had served as Chair of Clean Air Hamilton since 2000. Dr. McCarry also served as Chair of the Hamilton Air Monitoring Network and the Upwind Downwind Conference. He taught at the Department of Chemistry at McMaster University for 37 years and held the Stephen A. Jarislowsky Chair in Environment and Health since 1999. His international reputation in environmental chemistry and toxicology was mirrored by his reputation in the Hamilton area for his tireless efforts on behalf of the local community and its environment.

In 2014 The Brian McCarry Graduate Chemistry Scholarship was established by friends, family, colleagues, and industry partners in memory of Brian. This scholarship is to be awarded by the School of Graduate Studies to a graduate student currently enrolled in the Chemistry graduate program. Preference will be given to students pursuing industry-related research.

HIEA is proud to have contributed to the scholarship fund.

Commitment to the Hamilton Community

HIEA Member companies remain dedicated to reducing their environmental footprint and have made a commitment **to protect Hamilton's air, water, and land** by:

- Operating their facilities in a safe and responsible manner and in a way which does not adversely impact neighbouring communities;
- Monitoring environmental performance;
- Conserving and protecting the natural environment;
- Responding to community enquiries and concerns;

- Working in partnership with residents and community associations to promote environmental awareness;
- Communicating their environmental performance and improvements in a transparent and open manner.

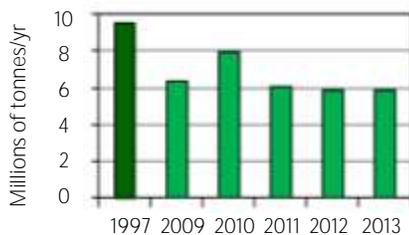
HIEA and its members not only work together to support each other but also work with other local environmental groups to encourage improvement in the Hamilton community. An active member at Clean Air Hamilton HIEA participated in several committees including: the Air

Quality Task Force; the CAH Structure and Planning Committee; the Committee established to review the CAH Annual Report and the Upwind/Downwind organizing committee.

HIEA member companies also continue to make major financial contributions to the economic well being and environmental protection of Hamilton.

Collectively, HIEA member companies have invested over \$150 million on environmental capital expenses in the last 5 years — spending more in 2013 on environmental capital projects than the combined total of the previous 4 years.

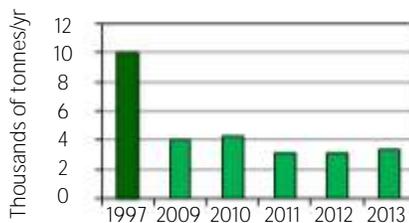
Greenhouse Gases



Greenhouse Gases (GHG) emitted by HIEA member companies are primarily carbon dioxide, with small quantities of methane and nitrous oxide. 2013 emissions were 38% lower than 1997 levels and 7% lower than 2009 levels.

GHG emission reductions are the result of energy conservation, increased waste energy recovery, increased process yields, and efficiencies and operational changes.

Total Particulate Matter



Total Particulate Matter (TPM) emissions are 67% below those reported in 1997, and are 19% lower than those in 2009.

Particulate emissions control is a **priority for HIEA's member** companies who have numerous programs in place to reduce these emissions including point source controls, improved

operating practices, paving of roads and yards, greenbelting, and shutdown of obsolete equipment.

HIEA has also contributed almost \$134,000 to local tree planting programs since 1999 to also assist in managing particulate emissions.

HIEA's Ongoing Improvements...

Water Treatment

Many HIEA members operate their own waste water treatment facilities.

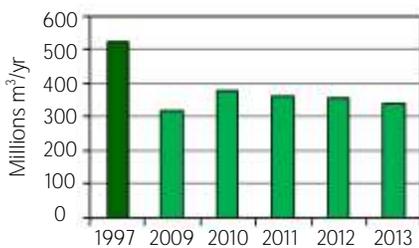
Ongoing updates and improvements to these treatment facilities have helped members ensure that their discharges are in compliance

with the current requirements of the City of Hamilton's Sanitary Sewer By-Laws.

Some HIEA members discharge treated water to the municipal sanitary sewer system while others discharge treated water to Hamilton Harbour. Some sites also discharge untreated rain

water into the system. Water entering the sewer system is directed to a Hamilton Wastewater Treatment Plant where it undergoes further treatment before being discharged to the Harbour.

Hamilton Harbour Water Use



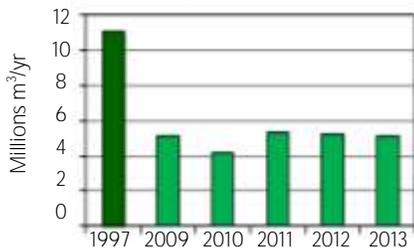
Hamilton Harbour Water Use has decreased by 36% since 1997 and shows a declining trend over the past five years apart from the effect of unusually low operating levels in 2009.

A large portion of this water is used for non-contact cooling

and circulates within equipment without contacting any process and therefore does not pick up contaminants.

Hamilton Harbour water is also used by some HIEA members for dust control.

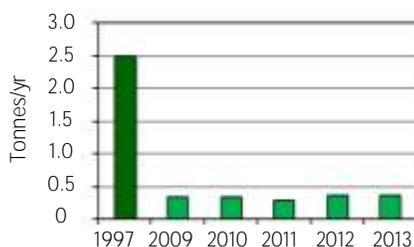
City Water Use



City Water Use by HIEA member companies has been reduced by 54% since 1997. Although city

water use has fluctuated over the past five years it continues to show a declining trend.

Total Suspended Solids



Total Suspended Solids discharges have been reduced by 96% since 1997, with 58% of these discharges going to a city wastewater treatment plant for further treatment. Over the past five years discharges continue to show an overall reducing trend through the

implementation of improved water recycle systems and shutdown of obsolete facilities. New water treatment capabilities added in 2011 and 2012 by HIEA member companies continue to reduce these discharges significantly.

Polycyclic Aromatic Hydrocarbons (PAHs) are a group of chemicals formed during incomplete burning of coal, oil, gas, garbage or other organic substances. PAHs are usually found as a mixture containing two or more of these compounds.

Nitrogen Oxides (NO_x) are precursors to ground level ozone. The main source of NO_x is the combustion of fuels.

HIEA member companies have reduced their NO_x emissions by 32% since 1997. Over the last 5 years these emissions have

Sulphur Dioxide (SO₂) emissions have fluctuated over the past five years and show an increasing trend, the total emissions remain 26% lower than 1997 levels.

Changes or slowdowns in production requiring different

PAH emissions have been reduced by 85% since 1997, are now 36% lower than 2009 levels and continue to show a downward improvement.

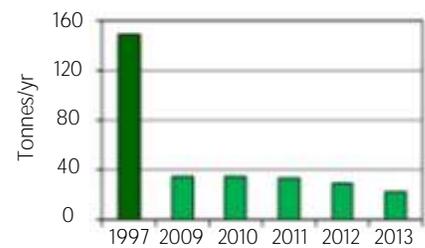
These reductions have been achieved primarily by improving coke oven operations.

fluctuated but continue to show a reducing trend.

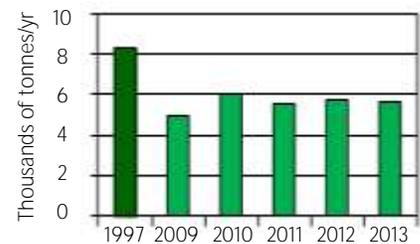
Improvements have primarily been achieved by the installation of advanced combustion technology (low-NO_x burners) and the shutdown of obsolete equipment.

fuel sources results in higher sulphur oxides emissions. Several options are being implemented to reduce these emissions including switching to lower sulphur fuels and feedstocks and shutting down obsolete equipment.

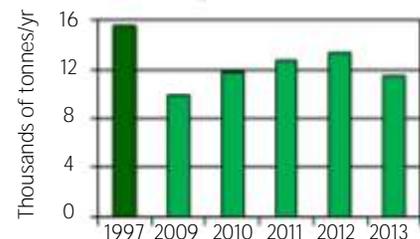
Polycyclic Aromatic Hydrocarbons



Nitrogen Oxide (NO_x)



Sulphur Dioxide (SO₂)



HIEA member companies are committed to improving their environmental performance and the maintenance of their facilities. Many member companies are ISO 14001 certified and all members follow a prepared environmental management improvement program. These programs have been developed to assist organizations to minimize how

their operations (processes etc.) affect the environment; to comply with applicable laws, regulations, and other environmentally oriented requirements, and to continually improve.

These management programs pertain to the process of how a product is produced, rather than to the product itself. Companies

regularly perform audits using third-party organizations to ensure they are meeting the requirements set out in their improvement programs. HIEA members work closely with provincial and city regulators to ensure all reasonable steps are taken to both improve their processes and remain in compliance.

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 through our Community Advisory Panel (CAP).

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.”

2013/2014 Board of Directors

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Jim Stirling

General Manager - Environment
ArcelorMittal Dofasco Inc.

Vice Chair

Andrew Sebestyen

Manager—Environment
U. S. Steel Canada Inc.

Technical Committee Chair

Lori Small

Health, Safety and Environment Manager
Birla Carbon

Treasurer

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Sanimax

Guy Belang r

Plant Manager
Bitumar (Hamilton) Inc.

Kevin Chadwick

Plant Manager
Bunge Canada

Jack Dugas

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Gord Gilmet

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Regional Manager, Canadian Operations
Westway Terminals Canada Ltd.

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Director of Operations
ArcelorMittal Hamilton East

Larry Rose

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