



**BASEF**

**BASEF 2008**

Sheridan Institute of  
Technology and Advanced Learning

**Big ideas.  
Infinite possibilities.**

Bay Area Science and Engineering Fair  
c/o McMaster University  
1280 Main Street West, DTC-125  
Hamilton, ON, Canada L8S 4L8

email: [basef@basef.ca](mailto:basef@basef.ca)

web site: [basef.ca](http://basef.ca)

Registered Charity: BN 11895 1565 RR0001

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OFFICIAL PROGRAM

**BASEF 2007**

47<sup>th</sup> Annual  
Bay Area Science & Engineering Fair  
March 28 to March 31, 2007  
McMaster University

*Sponsored by:*

**DOFASCO**

Diamond Sponsors  
The Hamilton Spectator  
Primary Fluid Systems

Platinum Sponsors  
Bell Canada  
McMaster University  
Mohawk College  
Sheridan College

**Big ideas.  
Infinite possibilities.**



Because we believe in big ideas  
and infinite possibilities,  
Dofasco is proud to be a part of

**The Bay Area Science and Engineering Fair  
sponsored by Dofasco.**

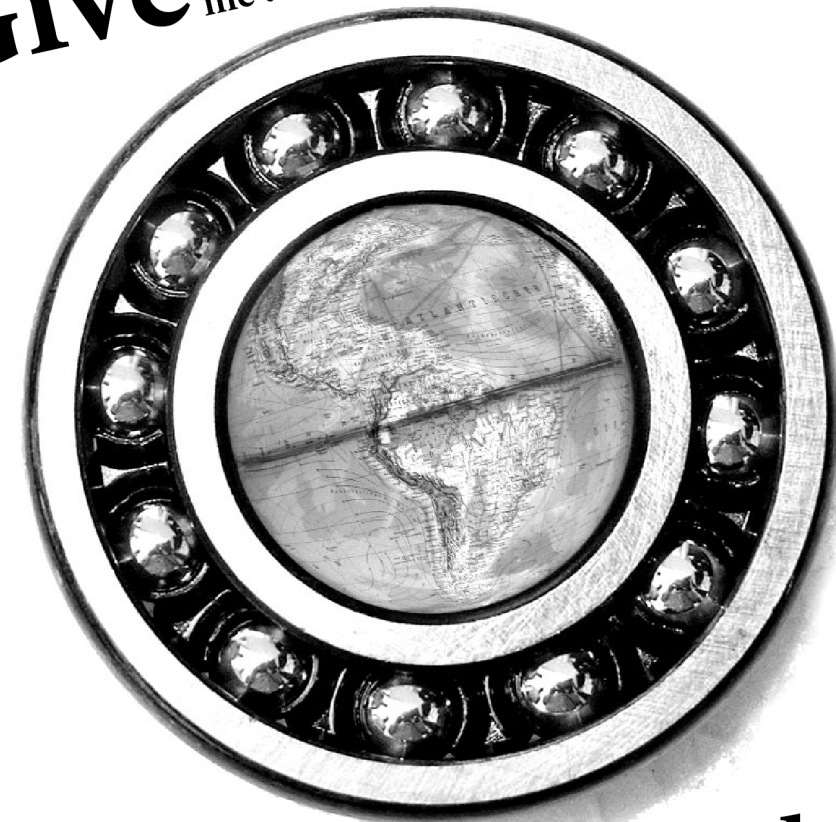
**DOFASCO**

Our product is steel. Our strength is people.

... Our home is Hamilton.

THE HAMILTON  
SPECTATOR

“Give me a lever long enough and a fulcrum on which to place it,



...and I shall **move the world.**”

—Archimedes

**Congratulations to all BASEF participants.**

Be innovative. Be creative. Make things move.

**You are the future and we salute you.**

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**McMaster University welcomes you to the  
47th Annual Bay Area Science & Engineering Fair**



[www.mcmaster.ca](http://www.mcmaster.ca)





**A MESSAGE FROM THE BASEF CHAIR**

**Ray Kranyak**

This is the 47<sup>th</sup> consecutive year of operation for the Bay Area Science and Engineering Fair (BASEF). The faces and the names may have changed through the years, but the mission remains the same: to encourage young people in science and engineering.

BASEF is a registered charity that is completely volunteer driven. I would like to acknowledge the tremendous efforts of this year's Organizing Committee members. They have met every month since September and have spent many more hours working individually on their own tasks. Many will have taken a week of holidays from their own full time jobs for this week of the Fair. No wonder BASEF is Canada's #1 Regional Science Fair. They are all amazing volunteers. Please thank them whenever you get the chance.

A very sincere thank-you to our Honourary Co-Chairs, Halton Region Chairman Gary Carr and Hamilton Mayor Fred Eisenberger who continue the tradition of community support to our cause and promote our students whenever they get the opportunity to do so.

A special thank-you is given to the over 200 professionals who served as this year's Merit and Special Awards Judges. These dedicated individuals devoted a full day of their time to meet, encourage and speak with the student exhibitors about their projects.

We are extremely proud to say that Dofasco has agreed to return as BASEF's title sponsor for a second year. I would also like to thank all of our over 40 sponsors who make it possible for BASEF's students to excel in science and engineering. Please support these sponsors wherever possible. Thank you also to our Special Awards donors. This year over the total value of merit awards, special awards, scholarships and trip awards is expected to top \$165,000.

Every year the host site for BASEF plays a critical role in our success. I must extend a very special thank you to the staff at McMaster University. It has taken the better part of a year to plan and stage BASEF 2007. McMaster has been with the organizing committee making every step of the journey easier and for this we are truly grateful.

Last but certainly not least, I thank the day-to-day volunteers, nearly 100 in total, who help us with duties such as project registration, safety checks and chaperoning Activity Day that occur over the four days of the Fair.

Students, (along with your parents, teachers and mentors) please recognize and enjoy the results of your hard work. Meet new friends, share this unique experience, and above all, capture the passion that will lead you to new research and discoveries of tomorrow. This small planet, Earth, which we call home, is counting on you. I congratulate each and every one of you all on a job well done and sincerely wish you all the best of luck.

**Raymond T. Kranyak**  
Chairman, BASEF 2007





**A MESSAGE FROM HONOURARY CO-CHAIR  
Halton Regional Chair Gary Carr**

It is my pleasure as Honourary Co-Chair to welcome you to the annual Bay Area Science and Engineering Fair (BASEF).

For more than forty years, the Bay Area Science & Engineering Fair has provided a forum for students to explore their potential through science, engineering and technology. As one of the largest and longest-running science fairs in Canada, the BASEF provides a legacy for our future and assists in the development of responsible and contributing citizens.

I would like to acknowledge the commitment and all the hard work of the teachers, the parents and the event organizers, for continuing to make an event of this stature a success year in and year out.

Congratulations to all the students who are participating in the fair. The hard work and effort you have put forth does not go unnoticed and you should be proud of all your accomplishments.

Good luck and all the best.

Sincerely,

Gary Carr  
Halton Regional Chair

# Building tomorrow's workforce through today's youth

Halton Region is committed to supporting and encouraging youth interest in science and technology. We are fostering a well-educated, well-trained and motivated labour force in this community to make sure employers continue to view Halton as an attractive place to live, work and do business.



Halton Region Business Development Centre  
1151 Bronte Road, Oakville, ON L6M 3L1  
905-825-6000  
Toll free: 1-866-4HALTON (1-866-442-5866)  
TTY: 905-827-9833 Fax: 905-825-8839  
www.halton.ca

**How Halton Region supports the next generation of innovators:**

- **Business Plan Competition –** Students improve their business skills writing a business plan that could win up to \$1,000
- **Summer Company Program –** Students can receive up to \$3,000 to start and run their own summer business
- **Business Registration Service**
- **Statistical & Demographic Information**
- **Exporting Assistance Programs**
- **Small Business Seminars and Advice**
- **Advocacy**
- **On-line Business**



**A MESSAGE FROM HONOURARY CO-CHAIR  
Hamilton Mayor Fred Eisenberger**



It is with great pleasure that I extend my warmest greetings on behalf of the City of Hamilton and to welcome you to the annual Bay Area Science and Engineering Fair (BASEF).

It is a true privilege for me to have been selected Honourary Co-Chair for this exciting and creative educational event.

Our youth represents the future and I want to congratulate the organizers of BASEF for providing these students with the opportunity to showcase their scientific and engineering interests and innovations.

I would also like to acknowledge the dedicated hard work of the many parents, teachers, judges, organizers, volunteers and sponsors who have helped to make BASEF the success that it is.

To everyone involved in this year's science and engineering fair I applaud your commitment and dedication and wish you continued success in the future.

Sincerely,

A handwritten signature in black ink that reads "Fred Eisenberger". The signature is written in a cursive style with a long horizontal stroke at the end.

Fred Eisenberger  
Mayor





**BASEF 2007 Schedule of Events  
McMaster University, Hamilton, Ontario**

**Wednesday, March 28, 2007**

**Project Setup**

4:00 pm On-site registration, project setup, safety check, ID photos  
8:00 pm On-site registration closes

**Thursday, March 29, 2007**

**Student Activity Morning / Project Judging Afternoon**

7:45 – 8:15 am Students and guests gather in the Burrige Gym bleachers  
8:30 am McMaster Fireball Show  
9:30 – 9:45 am Break  
9:45 am Niagara Windpower  
10:15 am Green Venture  
11:00 – 11:45 am Hamilton Museum of Steam and Technology  
11:45 – 12:45 pm Students may visit presentation displays and eat their packed lunch. **Students will not be permitted to leave the Athletic complex.**  
12:45 – 1:00 pm Students arrive at their projects for judging and interviews  
4:00 – 4:30 pm Judging completed, goody bags distributed, students dismissed

**Thursday, March 29, 2007**

**Schedule for Judges**

8:00 am Judges arrive  
8:30 am Judges' welcome and assignment of projects  
9:00 am Judges begin project judging **without** students present  
11:45 am Start of judges' luncheon  
1:00 pm Students arrive for afternoon judging and interviews  
4:00 pm Afternoon judging with students completed  
4:30 pm Judging scores reported

**Friday, March 30, 2007**

**The fair is closed to students and the public.**

**Saturday, March 31, 2007**

**Public Viewing and Awards Ceremony**

9:00 am Smith and East Auxiliary Gyms open for Public Viewing. All students should be present and at their projects.  
11:30 am VIP Luncheon (by invitation only)  
12:00 noon End of Public Viewing. **Gyms will be closed until after Awards Ceremony.**  
1:00 pm Burrige Gym opens for Awards Ceremony  
1:30 – 3:30 pm Awards Ceremony  
3:30 pm End of Awards Ceremony. Projects may now be removed from the gym.  
4:00 – 5:00 pm Meeting for Trip Award Winners, their parents/guardians and trip chaperones in the Burrige Gym. (Note: Winning students and their projects must be available for this meeting.)

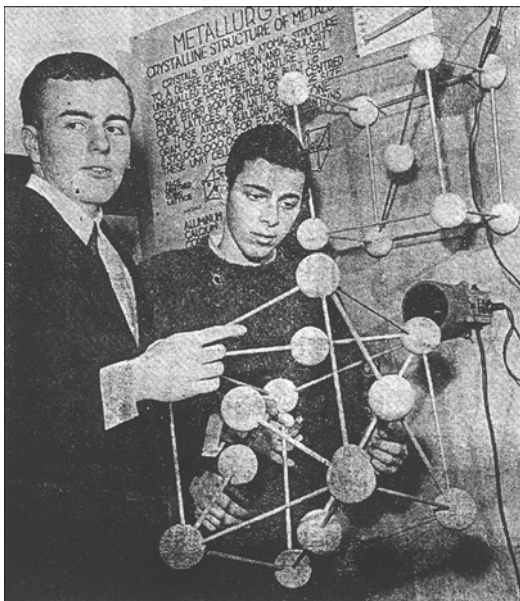
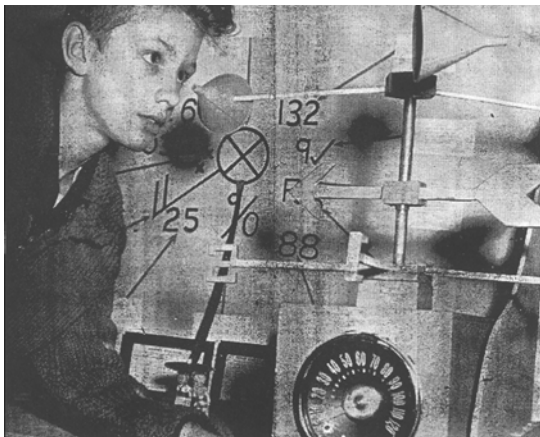


# BASEF 2007: 47<sup>th</sup> Consecutive Annual Fair

The Hamilton Science Fair was established in 1960 as a "showplace for the scientific talents of district teenagers". While the name has evolved over the years, BASEF continues to promote project-based science and student research through outreach programs and an annual science fair competition. BASEF is one of the leading and most successful regional science fairs in Canada. BASEF students have won Best in Fair at the national Canada Wide Science Fair for the past two consecutive years.



A teenager's nightmare — a 1904 telephone. One of the exhibits gave a surprise to Nerina Sinelli and Eva McKenna. It showed how the phone works.



Grade 12 Westdale students Douglas Hallett and Brian Laskin, both 16, demonstrate the crystalline structure of metals.

*Hamilton Spectator advertisement: March 24, 1961*

## SCIENCE FAIR

The objective . . . to encourage the development of scientific aptitude in secondary school students throughout Hamilton and district.

All exhibits have been created by a student or group of students, in Grades 9 to 13 from Hamilton and district private and public schools, in the following categories.

- |                 |                               |                   |
|-----------------|-------------------------------|-------------------|
| GENERAL PHYSICS | BOTANY                        | MATHEMATICS       |
| ELECTRONICS     | HEALTH                        | ENGINEERING       |
| NUCLEAR SCIENCE | ZOOLOGY                       | (applied science) |
| CHEMISTRY       | GEOGRAPHY AND<br>PHYSIOGRAPHY | METALLURGY        |

### PANEL OF JUDGES

Dr. Henry Ednison Duckworth, B.A., B.Sc., Ph.D., F.R.S.C., Professor and Chairman Dept. of Physics, McMaster University, has consented to head the panel of judges consisting of . . .  
Dr. Martin W. Johns; Mr. G. P. Adamson; Mr. S. M. Jones; Mr. Derek Edwards; Mr. Leslie Laking; Dr. Herman Kleerekoper; Dr. Hugo Ewart; Mr. J. Wingfield; Mr. S. M. Young; Dr. N. D. Lane; Dr. W. W. Smeltzer.

### AN EXHIBITION OF SECONDARY SCHOOL STUDENTS' SCIENTIFIC PROJECTS

**THE ARMOURIES**  
200 JAMES ST. N.  
**TONIGHT**  
6 P.M. TO 10 P.M.  
**TOMORROW**  
9 A.M. TO 9 P.M.

**ADMISSION FREE!**

**BRING YOUR FAMILY AND FRIENDS**

### ALSO:

Interesting, informative exhibits, displays and live presentations by the following education conscious groups and companies: The Hamilton Police Safety Division, The Hamilton Fire Prevention Bureau, The Bell Telephone Co. of Canada, The Imperial Oil Co. Ltd., Ontario Hydro, St. John Ambulance Assoc. These professional type displays will undoubtedly be of interest to participants and visitors. Plus: "ADVENTURES IN SCIENCE", a half hour film presentation.

**SPONSORED BY** THE HAMILTON JUNIOR CHAMBER OF COMMERCE  
In Association with THE HAMILTON SPECTATOR

*The Hamilton Spectator has been a sponsor of the fair from the beginning. BASEF gratefully acknowledges their continued support and permission to use the advertisement from 1961 and photographs of some 1960s fair participants.*





## School of Applied Computing and Engineering Sciences

### Interested in:

- Working with technology?
- Finding practical solutions to problems?
- Contributing to a sustainable and vibrant future for Canada?

### Sheridan's Engineering and Manufacturing Sciences programs include:

- Architectural
- Chemical and Environmental Sciences
- Computer Engineering
- Electromechanical Engineering
- Electronics Engineering
- Manufacturing Engineering
- Mechanical Engineering - Design and Drafting
- Mechanical Engineering

**I CHOOSE**



**Sheridan**

To find out more, visit [www.sheridaninstitute.ca](http://www.sheridaninstitute.ca) or call 416-754-2600 to request a Full-time Program Calendar.

## School of Community and Liberal Studies

### Interested in:

- Working with people?
- Working in health-related fields?
- Studying at Sheridan's custom-built facility in Brampton, The Centre for Healthy Communities?

### Sheridan's Health Sciences programs include:

- Animal Care
- Bachelor of Applied Health Sciences - Athletic Therapy
- General Arts and Science - Health Profile
- Personal Support Worker
- Pharmacy Technician (Cooperative Education)
- Practical Nursing





## **A Beginner's Introduction to BASEF**

The fair takes place over a period of four days in late March/early April of every year. On line student registration starts in February and closes approximately 3 weeks before the fair. This allows the fair organizers enough time to ensure that registration documents are complete and project safety/ethical guidelines are met. We also want to ensure that the official Fair Program accurately reflects all exhibitor information.

### **Fair Schedule:**

*Project Set Up/Safety Checks: Wednesday, 4:00 pm - 8:00 pm*

*Judging without students present: Thursday, 8:00 am - noon*

*Student Activity Events: Thursday, 8:30 am - noon\**

*Judging with students present: Thursday, 1:00 pm - 4:00 pm*

*Public Viewing: Saturday, 9:30 am - noon*

*Awards Ceremony: Saturday, 1:30 - 3:30 pm*

*Project Take Down: Saturday, 3:30 pm*

*(After awards ceremony ONLY!)*

**\*Please note: To accomodate concerns regarding transportation and school absences, Student Activity events will be held at McMaster University on Thursday morning before judging in the afternoon.**

### **Levels and Divisions**

Students compete for **Merit Awards** within 3 separate grade levels and in one of the six project divisions.

#### **Levels (three):**

Junior: Grades 7-8

Intermediate: Grades 9-10

Senior: Grades 11-12

#### **Divisions (six):**

Biotechnology,

Earth and Environmental Sciences,

Engineering & Computing Sciences,

Health Sciences (Human),

Life Sciences (Non Human),

Physical & Mathematical Sciences

*(A flow chart on the BASEF web site is designed to help you determine the division of your project.)*

**Teams:** Students may compete individually or as a two-member maximum team. Team members must be in the same level.

### **Merit Awards**

**Merit Awards** recognize the tremendous amount of research and effort that has gone into the projects entered. All projects are judged by a minimum of four independent judges. Gold, silver and bronze medals, and honourable mention certificates (along with cash awards) are awarded in **each** division of **each** level based on the following scoring.

**Gold:** over 90% and in top 7.5% of division

**Silver:** over 80% and in next 10% of division

**Bronze:** over 75% and in next 12.5%

**Honourable Mention:** over 75% and not in the top 30% of division.

### **Special Awards**

Special awards are donated by organizations and groups to recognize deserving projects that deal with topics of interest to the donor. At BASEF 2006, over \$24,000 in cash and scholarships were awarded.

### **Grand Prize Trip Awards**

**Grand Awards are given to the top projects in the fair, based on merit award scores.** The Grand Trip Awards are all expenses paid trips to the national and international science fairs. Chaperones from BASEF provide additional mentoring to these students and accompany them on the trips. All students are eligible to win a place on Team BASEF and go on to compete at the Canada Wide Science Fair (CWSF). Only high school students are eligible to win trips to the Intel International Science and Engineering Fair (ISEF), held in the United States.

### **Grand Prize Awards**

**Best in Fair Pinnacle awards** are presented to the top three projects in the fair, based on Merit award scores. Each winner receives an engraved plaque and a trophy for display at their school.

**Pfizer Canada Award of Excellence** is given to the top project in the fair that is advancing to CWSF.

**Roy Middleton award** is given to the top Junior level project.

**Herb Gildea Trophy** is awarded to the high school accumulating the most points from the number of entries and merit awards won.

**BASEF Committee Trophy** is awarded to the elementary school accumulating the most points.

### **Merit Award Judging Criteria**

Projects are judged out of a total score of 100, broken down into five sections. The sections are weighted as follows:

Scientific Thought/Creativity: 45%

Project Display: 10%

Project Notebook: 20%

Abstract: 5%

Interview: 20%

**The judging forms and criteria are available on the BASEF website in the Judges section.**

Our Gold medalists (scoring over 90%) enter projects that are well designed from inception to completion. The research and experimentation is complete, the work is well documented in their notebooks, and their displays are an attractive summary of their complete project. They are knowledgeable about their work and are able to enthusiastically explain it to the judges because they practice their presentations and prepare for the interviews.

### **Project Resources**

The "Science Success!" student and teacher materials are available for download at [www.basef.ca](http://www.basef.ca) and include an extensive reference list. Additional recommended site: [www.sciencebuddies.org](http://www.sciencebuddies.org)



# The ‘Parent Pages’ (or How to Survive Science Fair!)

*Congratulations on your wise decision to allow your child to participate in BASEF 2007!*

For many students, it is the first time they are rewarded for their academic endeavours. Make no mistake, all student participants are rewarded with an enriching experience and a certificate of participation, not to mention the opportunity to meet and speak with other top students, and the official BASEF goody bag. One parent noted that the students are treated like attendees at a convention.

Many students and parents view science fair projects as a dreaded, compulsory school assignment and have no idea of the available rewards for successful science fair participants. At BASEF 2006, over \$262,000 in cash, prizes, awards and scholarships were shared by 400 students. We awarded 137 gold, silver or bronze Merit Awards (including almost \$7,000 in cash), 139 Special Awards (cash and scholarships totaling \$24,000) and twenty all expense paid trips. Each of our medal winners received a \$500 entrance scholarship to Mohawk or Sheridan College.

## Location of Events:

**Note:** All science fair activities are planned to take place at McMaster University in the McMaster University [Athletics and Recreational complex](#). Any changes or revisions to the plan will be posted on the BASEF website and will be announced at the fair.

**Parking and Science Fair Location at McMaster University:** There will be signs directing you to the Science Fair as you enter the University from the Sterling Avenue entrance. Ask the parking attendant for directions and parking for the Athletics complex.

## Day by Day: Parent Responsibilities

**Day 1: Project set up** for the fair occurs **ONLY** on **Wednesday, March 28, 2007 from 4:00 pm – 8:00 pm at McMaster University. Projects not set up by 8:00 pm will be deemed as "no shows" and deleted from the judging process.** Your child will visit a registration desk and find out their assigned display area in the gym. They will also visit the Activity Day desk and have their photographs taken for ID badges. After the project is set up, one of our many safety inspectors will ensure that the project meets all safety guidelines. **Students cannot leave until their projects have been safety checked and passed.** The registration process and project set up usually takes less than an hour. **Be sure that all of the safety rules and regulations regarding project size, display materials and ethical guidelines with respect to human and animal testing have been followed. Complete details are available on the official website: [basef.ca/2007](http://basef.ca/2007)**

**Day 2 Morning: Student Activity Morning, Thursday, March 29, 2007, 8:00 am – 12:30 pm**  
Students and their guests (maximum 2 per student) will be welcomed by volunteers in the Burridge Gym beginning at 7:45 am. Events include the McMaster Fireball Show, and presentations/displays by Niagara Windpower, Green Venture and the Hamilton Museum of Steam and Technology.  
**Students must bring their own lunch, and eat in the gym as there are no cafeteria facilities available for science fair students.**

**Day 2 Afternoon: Judging, Thursday, March 29, 2007, 12:45 pm – 4:30 pm**  
Students are required to be at their projects for judging between 1:00 – 4:00 pm. Participation rewards (goody bags) will be distributed after judging has been completed.  
**Note:** Parents and teachers will **NOT** be allowed onto the Judging Floor this day.

**Day 3: Friday, March 30, 2007**

The fair is NOT open to students or the public on this day. The fair committee will be busy compiling results and preparing for the awards ceremony.

**Day 4: Public Viewing and Awards Ceremony**

We ask that your children be at their projects for Public Viewing which takes place from **9:00 am - 12:00 pm on Saturday, March 31, 2007**. This is followed by the Awards Ceremony from **1:30 pm to 3:30 pm**. Grand Prize trip winners and their parents/guardians will be required to stay after the ceremony for a brief meeting. There will be a break for lunch from 12 noon until 1:15 pm. There will be no food service available on campus and you just may want to bring your lunch. **Students may not remove their projects until after the Awards Ceremony.**

We strongly recommend that you attend the public viewing with your child. It will give you an opportunity to view all of the great projects on display, and to see your own child doing presentations for visitors.

**The Awards Ceremony** is the culmination of the Fair and where the hard work of our students is recognized. Project take down occurs after the Awards Ceremony because many of our participants are photographed and interviewed by the press in front of their award winning projects.

**Note:** Our trip award winners and a parent are required to attend a mandatory information meeting (approximately one hour in length) immediately after the Awards Ceremony (approximately 4:00 – 5:00 pm).

**Miscellaneous Information:**


**Dress code:**

We suggest neat and casual, with the emphasis on neat.

**Food Allergies and Medical Issues:** We ask that you remind the BASEF staff at the Registration Desk and throughout the fair, of any food allergies or special medical issues that pertain to your children.

***Big ideas, Infinite possibilities.  
BASEF is only the beginning for many of  
our students.***

**CASTIC in Macao**



Anne Marie Child's project "Date Rape Drugs: Can They be Detected?" earned a 4<sup>th</sup> Place award at ISEF 2006 and a trip to attend the 21<sup>st</sup> China Adolescents Science and Technology Contest. Anne Marie was a BASEF 2006 Gold Medalist and Grand Trip award winner.

**There! Wasn't that easy! Congratulations to you and your young scientists and engineers!**

Be sure to visit the BASEF website (basef.ca) throughout the year. Newsletters, available for download, are published 3 – 4 times per year and contain articles and pictures about fair participants, resource materials and important information about the next fair.

***There is also a Parent Section on the website, with an article entitled:***  
***“Project Basics for the Bewildered Parent.....help, I’m not a scientist!”***



**McMASTER UNIVERSITY  
Emergency Safety and Security Procedures  
BAY AREA SCIENCE AND ENGINEERING FAIR  
(March 28 - April 1, 2007)**

The following emergency procedures and personal safety tips apply to McMaster University's Campus. Please review and familiarize yourself with them so you know how to respond quickly and appropriately in the event of an emergency.

**FIRE SAFETY**

All buildings located on McMaster University campus except the Hospital have a single-stage fire alarm. This means the fire alarm sounds *CONTINUOUSLY* for an **EVACUATION**.

**IN CASE OF FIRE**

- 1. If the alarm sounds go quickly and calmly to the nearest exit and "VACATE THE BUILDING".

**IF YOU DISCOVER A FIRE**

- 1. Evacuate persons in immediate danger and leave the area. Close all doors.
- 2. Activate the building fire alarm system using the closest fire alarm pull station and evacuate the building using the nearest exit.
- 3. Telephone Security Services at **88**.

**PERSONAL SAFETY**

**Emergency Intercoms and Phones**

In addition to regular University telephones there are two types of emergency phones or intercoms for contacting Security directly should you require assistance.

- 1) Bell pay phones. Dial 88 to speak directly to Security Services.
- 2) Outside Emergency Intercoms. These are recognizable by a blue light/red pole. Press the red button to speak directly to Security Services.

**Emergency Directory**

***Emergency Situations***

Police/Fire/Ambulance-----Dial 88 on University Phones or 88 on Bell pay Phones  
Security Dispatch-----Dial 88 on University phones  
Security Dispatch-----Dial 88 on Bell pay phones

***Non-Emergency Situations***

Security Dispatch-----Dial 24281 on University phones  
Security Dispatch -----Dial 905-525-9140, x 24281 on other phones

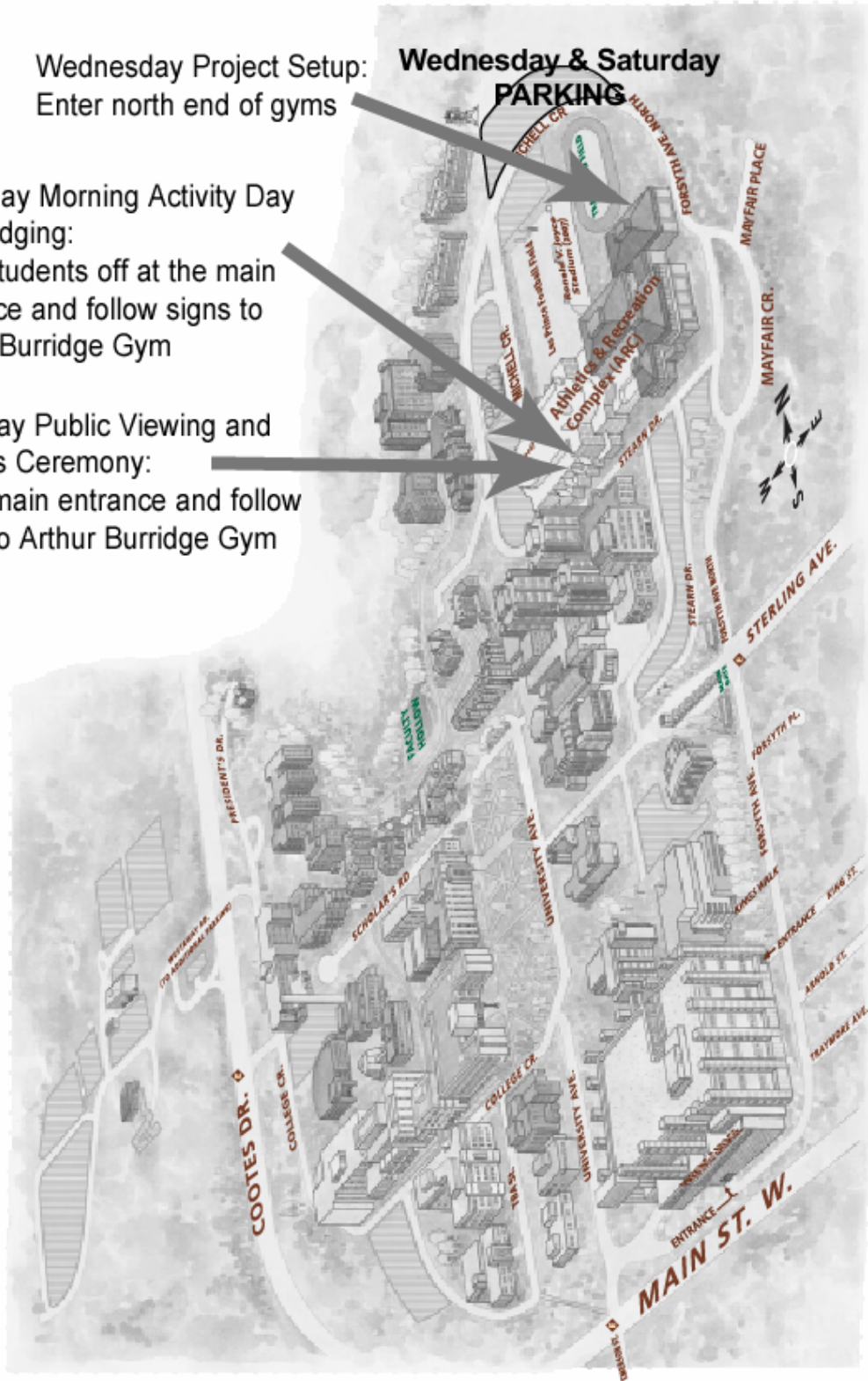
# BASEF 2007 will be held in the McMaster Athletics and Recreation Centre

Wednesday Project Setup:  
Enter north end of gyms

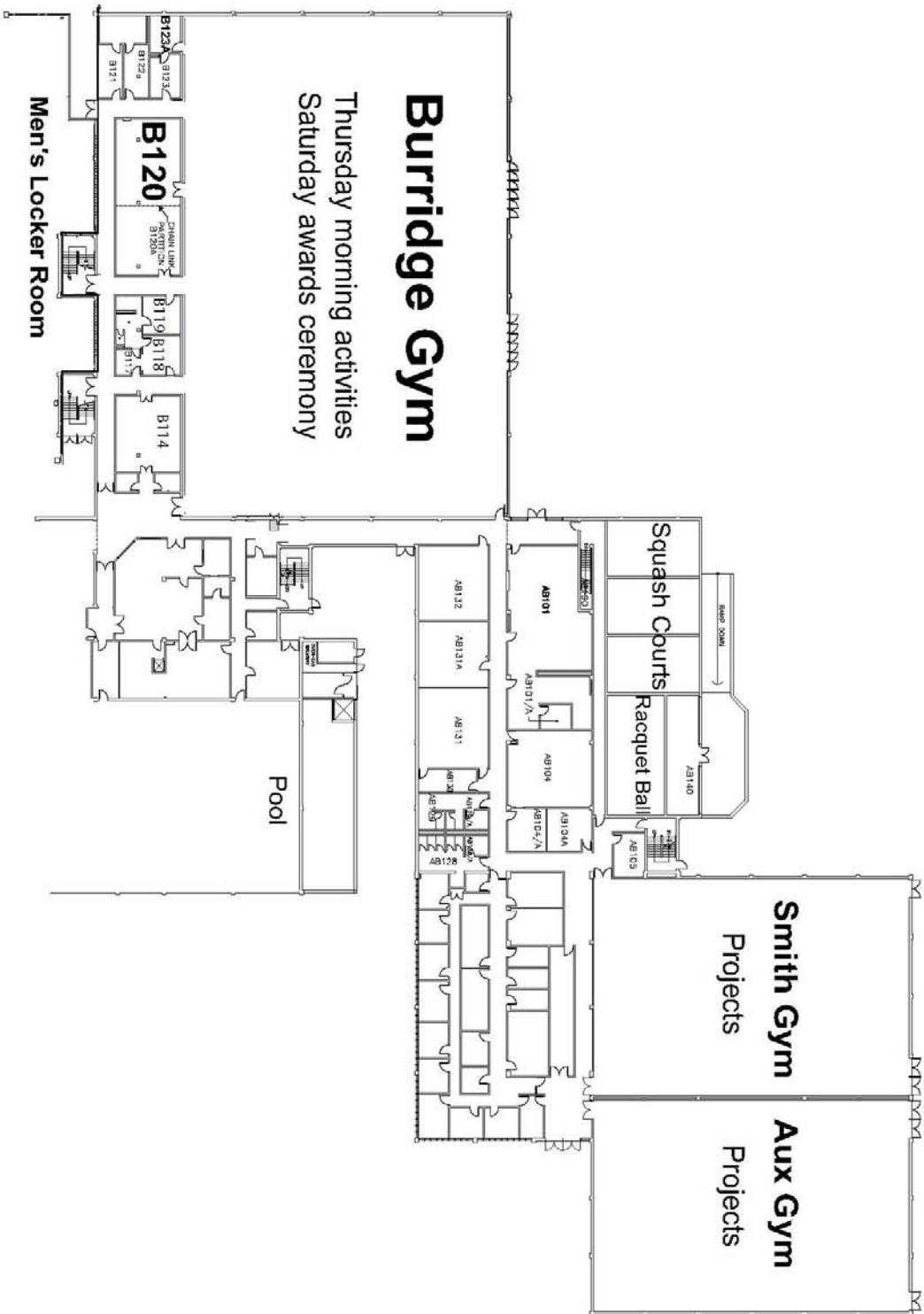
**Wednesday & Saturday  
PARKING**

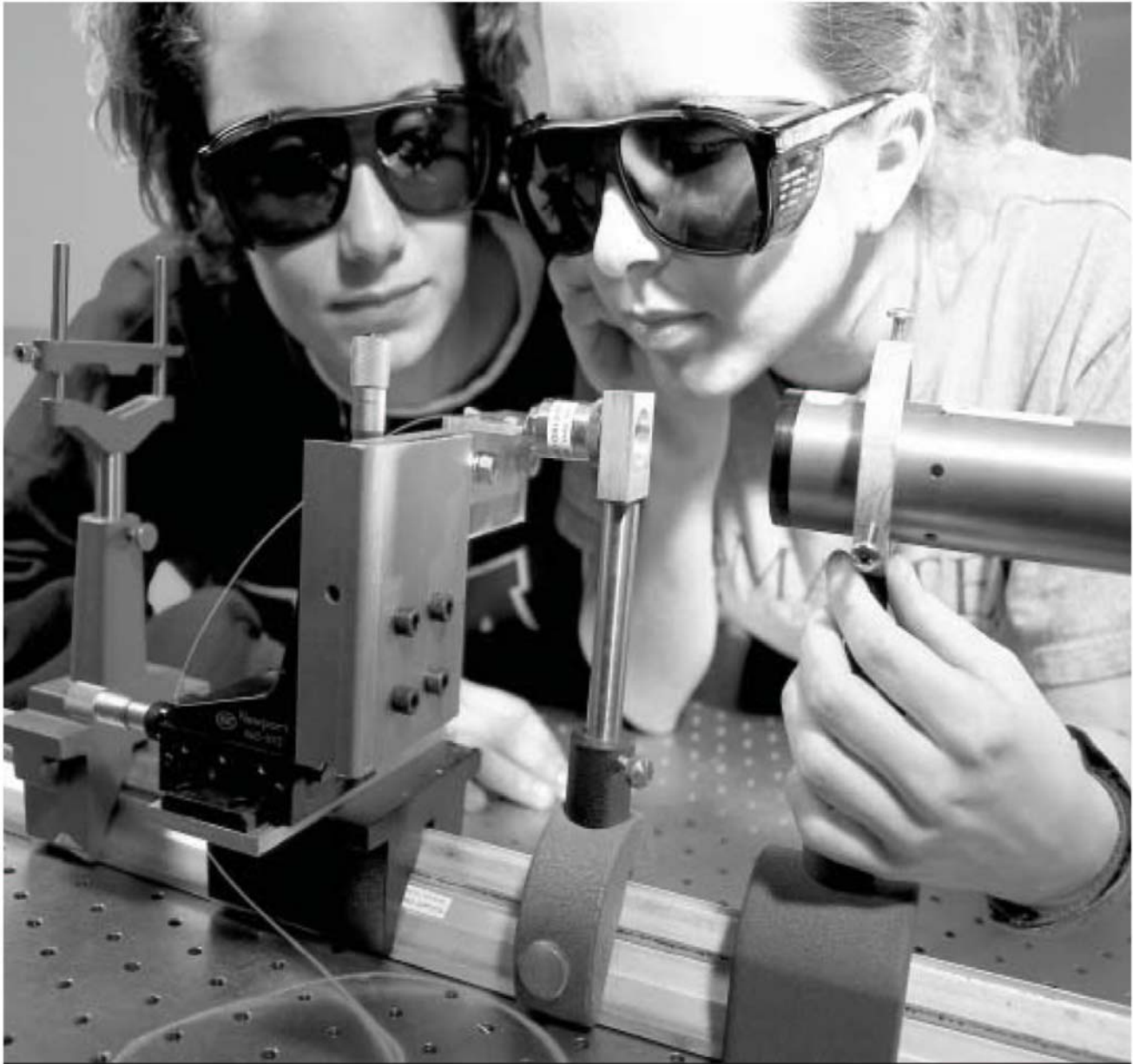
Thursday Morning Activity Day  
and Judging:  
Drop students off at the main  
entrance and follow signs to  
Arthur Burrige Gym

Saturday Public Viewing and  
Awards Ceremony:  
Enter main entrance and follow  
signs to Arthur Burrige Gym









Inspiring innovation & discovery

**Explore the possibilities at McMaster!**



# ORGANIZING COMMITTEE

## HONOURARY CO-CHAIRS

Chairman Gary Carr, Halton Region  
Mayor Fred Eisenberger, City of Hamilton

## CHAIR

Ray Kranyak

## ASSISTANT

Nelson Ruiz Blanco

## SECRETARY

Tom Crawford

## TREASURER

Eleanor O'Flynn

## RECORDING SECRETARY

Nelson Ruiz Blanco

## FUNDRAISING

Sue Olynyk

## JUDGING

Tom Crawford, Roslyne Price,  
Nelson Ruiz Blanco, Cathy Collins  
Kevin Hunt, Shannon Clark, George Geczy

## SCIENTIFIC REVIEW

Tom Crawford, Dr. Michael Coughlin,  
Dr. Elizabeth O'Brien, Steve Procyszyn,  
Donna Stack-Durward, Wuchow Than

## REGISTRATION

Steve Procyszyn, Ray Cemka, Rob  
Lenjosek, Lino Pin, Janice Rocchi,  
Christine Rowthorn, Morris Hucal,  
Michael Laskowski, Domenic LaBianca,  
Wuchow Than, Michael Goffredo,  
Kevin MacIsaac, Zenon Holadyk

## SITE

Diane Carment

## STUDENT ACTIVITIES

Kevin Hunt

## AWARDS AND CEREMONY

Gerard Chiasson, Jim Hamilton,  
Wayne Bowdish, Peter Olynyk, Cathy  
Collins

## VIP RELATIONS

Mary Querques, Susan Joyce

## SPECIAL AWARDS

Cathy Hamilton, Cathy Collins, Barb Takasaki

## INFORMATION SYSTEMS

Ken Moyle, Gerard Chiasson, Brian Minaji

## MARKETING & PUBLICITY

Sandy Walker

## OUTREACH

Wuchow Than

## VOLUNTEER RECRUITING AND SCREENING

Ola Lunyk-Child, Debra Veldstra

## PHOTOGRAPHY AND GRAPHICS

Wayne Bowdish, Jim Hamilton

## PROGRAM

Alinamaria Rodriguez

## COMMITTEE AT LARGE

Barry Brusey

## TRIP CHAPERONES

IISEF: Ray Kranyak, Cathy Collins  
CSWF: Cathy Hamilton, Tom Crawford, Sue  
Olynyk, Ken Moyle

## HOST- BASEF 2007

Diane Carment

## SAFETY

Nelson Ruiz

## FACILITIES

Dan Bowman

## SCHOOL BOARD ADVISORS

**Halton Catholic DSB:** Susan Paradiso  
**Halton DSB:** Ron Ballentine  
**Hamilton Wentworth Catholic DSB:** Steve  
Procyszyn  
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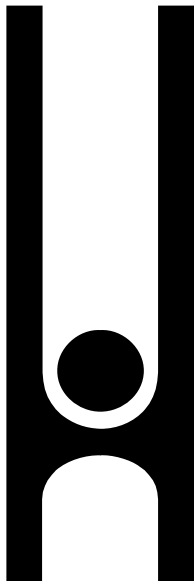
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Halton District School Board



*The Halton District School Board  
would like to congratulate  
all participating students in the 2007  
Bay Area Science and Engineering Fair.  
Best wishes for continued success!*

---

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# The BASEF Project

## Bay Area Science and Engineering Fair

### Background

- One of the largest and longest running science fairs in Canada
- For all students in grades 7-12 from Halton, Hamilton, Brant, Haldimand and Norfolk
- BASEF is a registered charity relying entirely on volunteers and sponsors

### Purpose

*To encourage youth in science, engineering and technology by:*

- Organizing and staging an annual fair
- Offering Outreach activities to promote "Project Based Science"
- Promoting BASEF to any and all captive audiences

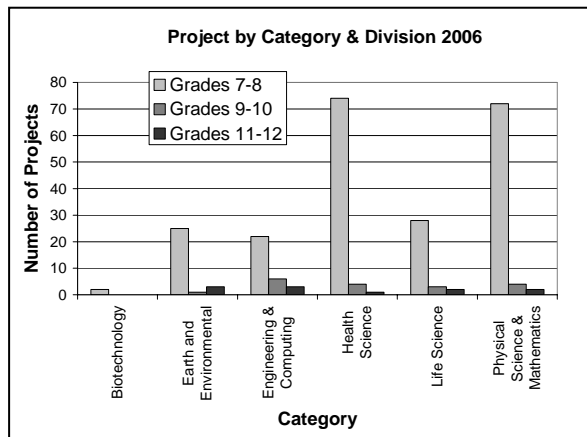
### Hypothesis

- Students gain valuable academic and life skills.
- Students compete for thousands of dollars in cash, scholarships and awards including all expense paid trips to the national and international science fairs.

### Materials

- 1) Dedicated teachers
- 2) Motivated students
- 3) Supportive parents
- 4) Enthusiastic volunteers
- 5) Generous sponsors

### Observations



### Results



*Team BASEF 2006, Saguenay Q.C.*



*Kayla Cornale wins Best in Fair at CWSF*

### Conclusions

#### BASEF 2006

- 421 students from 62 schools with 246 projects
- Over \$262,000 in awards
- 20 BASEF students won Grand Prize Trip Awards
- *for the 2<sup>nd</sup> consecutive year, BASEF was the #1 Regional fair team at CWSF 2006 in Saguenay, Q.C. and a BASEF student won Best in Fair*

*Our students are going places!*

### Discussion

*All students should be given the opportunity to participate in science fairs. Students learn invaluable academic and life skills through researching, experimenting, displaying and presenting their projects. The judging process and public viewing allow students to practice their "people" skills and gain self confidence and a sense of accomplishment for a job well done.*

*Get in touch with the scientist in you*  
[www.basef.ca](http://www.basef.ca)

### Acknowledgements

*BASEF is only made possible through the continuing support of our teachers, students, parents, volunteers and sponsors.*

# SPONSORS 2007

## TITLE \$15000 +

Dofasco

## DIAMOND \$10,000 +

The Hamilton Spectator  
Primary Fluid Systems

## PLATINUM \$5,000 +

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Mohawk College of Applied Arts & Technology  
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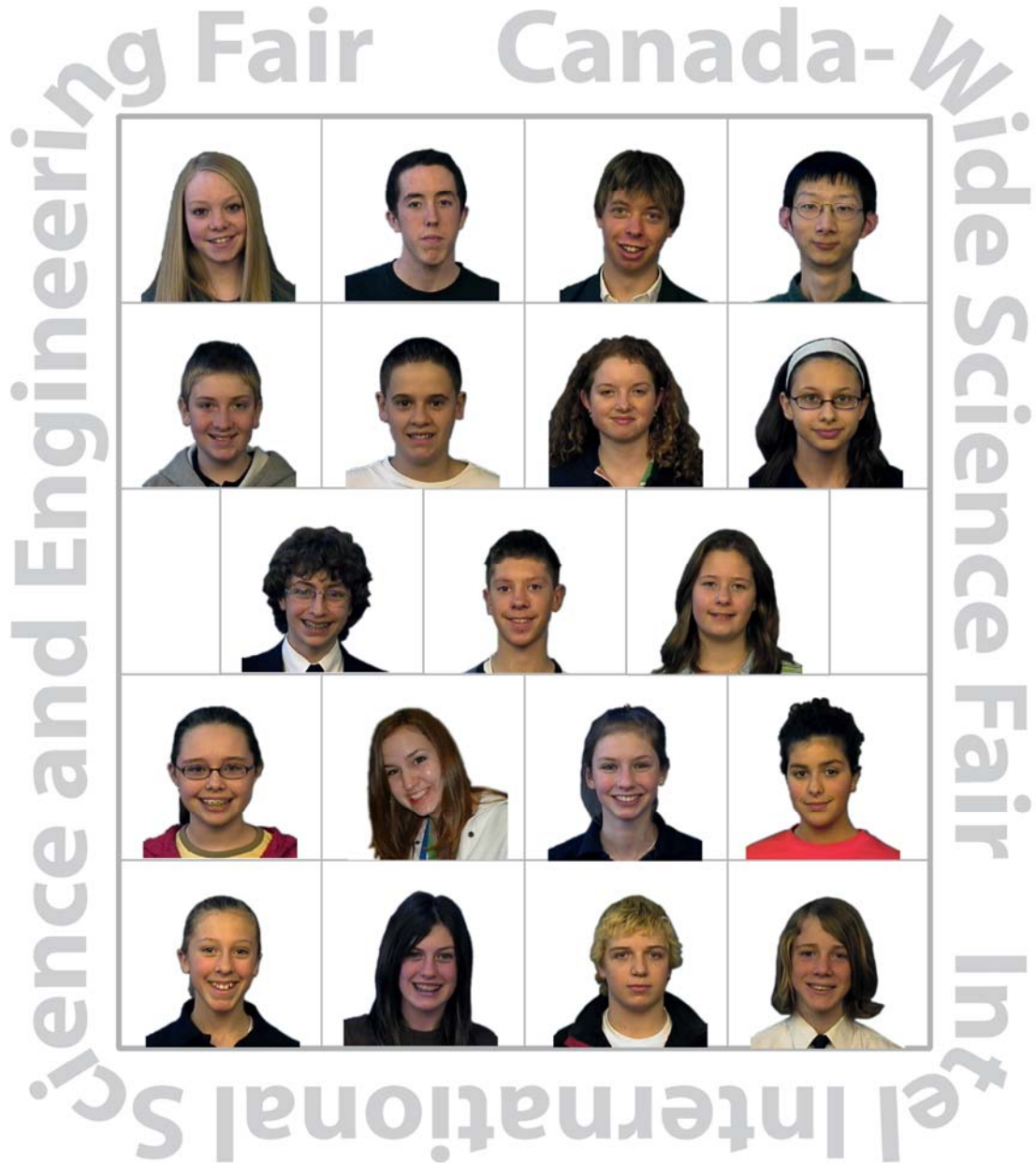
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Vince Aluminum Awnings  
Riversong





# BASEF 2006 Trip Award Winners

Thanks to our sponsors  
we're going places!



The BASEF Students and Volunteers gratefully  
acknowledge the support of all of our sponsors

## ACTIVITY DAY 2007 Sponsored by Bell Canada

Activity day this year has changed format. It will now be held the morning of judging day at McMaster's Burrigde Gym from 8:30am to 12:30pm. Seating this year in the gym is approximately 1,000; this will allow up to two guests per student to attend the activity day (you can ask for guest space on the registration form). Seating arrangements will be prioritized for BASEF participants.

Remember to bring your bag lunch and eat it during the show as no food will be available at McMaster.

### **Scheduled Speakers**

- 8:30am – 9:30am - [McMaster Fireball Show](#)
- 9:30am – 9:45am – Break
- 9:45am – 10:15am – [Niagara Windpower](#)
- 10:15am – 11:00am – [Green Venture](#)
- 11:00am – 11:45am – [Hamilton Museum of Steam and Technology](#)
- 11:45am – 12:30pm – [Hamilton Museum of Steam and Technology](#)
- 12:30pm - 12:45pm - BASEF students chance to meet the speakers at the display booths (Parents and guests will be allowed to meet the speakers 12:45pm - 1:30pm after the BASEF students have moved to the judging hall.)
- 12:45pm - Doors to gymnasium open to students
- 1:00pm - Judges' interviews with students begin. **Judging begins at 1:00pm sharp**

### **McMaster Fireball Show**

Scientific experiments! Interactive multimedia presentation! Exciting, fast-paced and full of energy! The McMaster Fireball Show, a traveling science and engineering show, encompasses all of these characteristics. Through its eye-catching presentation, the McMaster Fireball Show increases students' awareness of and interest in engineering programs, careers, and related futures. The one-hour show highlights the wonder and relevance of engineering and applied science, as well as outlining how a future in the applied sciences is of benefit to society as a whole.

Another second major theme throughout the show is related to the ten skills, strengths, and abilities that future scientists and engineers will need to possess. The show emphasizes that these skills, strengths, and abilities will be valuable in any career.



- Analytical thinking
- Problem solving
- Able to work/interact with others
- Creative thinking
- Dealing with uncertainty and understanding statistics
- Desire to communicate well with others
- Flexible and resourceful
- Self-disciplined and self-motivated
- Interest in, or aptitude for computers
- Ability to research and ability to be meticulous [www.fireball.mcmaster.ca](http://www.fireball.mcmaster.ca)



### Niagara Windpower – Renewable Energy Inventions

Mike Fournier and Deborah Power will provide a presentation on renewable energy inventions originating the Niagara Region.

Mike Fournier, President and Operations Manager, has been involved in the energy industry since 1984 as a licensed journeyman Electrician. During his apprenticeship years, he became fascinated with alternative energy and in 1996 formed the Welland Canal Power Corporation. After deregulation in May of 2002, the company was renamed Niagara Windpower Inc. to better serve the Niagara Region. Deborah Power has been the Vice-president of the company since 2002 after moving from a career in marketing and sales. From May 2002 to present the company has been constantly growing and expanding.



[www.niagarawindpower.com](http://www.niagarawindpower.com)

### Green Venture – Water Wise Use / Wacky Water Facts

Peter Wobschall will provide an interactive presentation on our most precious resource; water. Learn about water facts and conservation through this informative presentation and interactive game designed to help students live a more sustainable lifestyle and protect our most precious natural resource.

Pete Wobschall is Green Venture's EcoHouse Manager and over the past six-years has promoted sustainable living through various methods of environmental conservation. He is a graduate of Sir Sandford Fleming College and is a qualified Water Resource Technician. Pete was raised in a household where organic lawn care, recycling and composting was practiced from a young age, and his environmental awareness is complimented by his nine-years of landscape construction experience.



[www.greenventure.ca](http://www.greenventure.ca)

### Hamilton Museum of Steam and Technology - Hamilton 1859 Waterworks Hamilton Museum of Steam and Technology - Urban Problems, Urban Solutions: Waste Water Treatment

Mac Swackhammer the curator at the Hamilton Museum of Steam and Technology and Sarah Ehmke the Historical Interpreter at the Hamilton Museum of Steam and Technology will provide two interesting “water based” presentations.

Hamilton 1859 Waterworks will focus on the history of Hamilton urbanization and industrialization and machinery and mechanics. Urban Problems, Urban Solutions: Waste Water Treatment will focus on water pollution and solutions to this growing problem.



[www.myhamilton.ca/myhamilton/CityandGovernment/CultureandRecreation/ArtsCultureAndMuseums/HamiltonCivicMuseums/SteamTechnology](http://www.myhamilton.ca/myhamilton/CityandGovernment/CultureandRecreation/ArtsCultureAndMuseums/HamiltonCivicMuseums/SteamTechnology)

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Barrett Jennifer	Cosgrove Rebecca	Homenick Christa McMaster University	Lonz Steve Region of Peel
Bartoszek Diana Halton Catholic District School Board	Cran Marzena Hamilton Health Sciences	Jacobs Stephen Dufferin-Peel Catholic District School Board	MacDougall Dr. Stephen Halton District School Board
Baxter Matt Gandinovations	Crane Maureen Dofasco Inc	Jaeger Heinz Retired	Manmohan Neil ASECO Integrated Systems Ltd.
Bécharé Karen McMaster University	Crawford Travis McMaster University	Jeremic Aleksandra Voith Siemens HPG Inc., Mississauga	Marshall Sarah L-3 Wescam
Billeci Mena Hamilton Health Sciences	Cuthbert Heather Lynn McMaster University	Johnson Ross Sandwell Consulting Engineers Ltd	Martin Michelle
Billeci Stefanie Halton Catholic District School Board	Edwards Kyle Dofasco Inc	Johnson Warren retired teacher	Maxymuik Peter Primerica
Bistuamlak Girma Tsegaye RWDI Inc.	Effinger Daniel L-3 Wescam	Kazmierski Ursula McMaster University	McAnanama James L-3 Wescam
Brown Dr. David retired	Ellithorn Trixie (Karen) Medical Technologist (retired)	Kelly Ailyn Halton Catholic District School Board	McLaughlin Rian Hamilton-Wentworth Occasional Teacher Local
Bruin Jenny McMaster University	Feswick Jeff D. Historia Building Restoration Inc	Kelly Michael Halton Catholic District School Board	McNally Beth McMaster University
Bryan Martin Dofasco Inc	Garrett Jim McMaster University	Kennedy Eveline St. Joseph's Hospital	McNally Mike C&M McNally Engineering Corp.
Cameron Heather McMaster University	Geczy George BattleGoat Studios	Lasowski Frances McMaster University	Meehan Nancy L. Hamilton-Wentworth Occasional Teacher Local
Carl Andrew Venture Engineering and Science Camp	Gou Harry Dofasco Inc.	Lawlor Daniel Laurel Steel (Burlington)	Mejia Diego Hamilton Police Service
Cesta Carolyn McMaster University	Hagopian Craig	Leanage Ramani HWCDSD	Mercier-Schrobligen Dr. Helene McMaster University
Chaudhry Alanna University of Guelph	Harrison Jessica Dofasco Inc.	Lewis Justin AVAR Environmental Inc.	Michalopoulos Olga
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Orava Matt  
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Ormond Peter  
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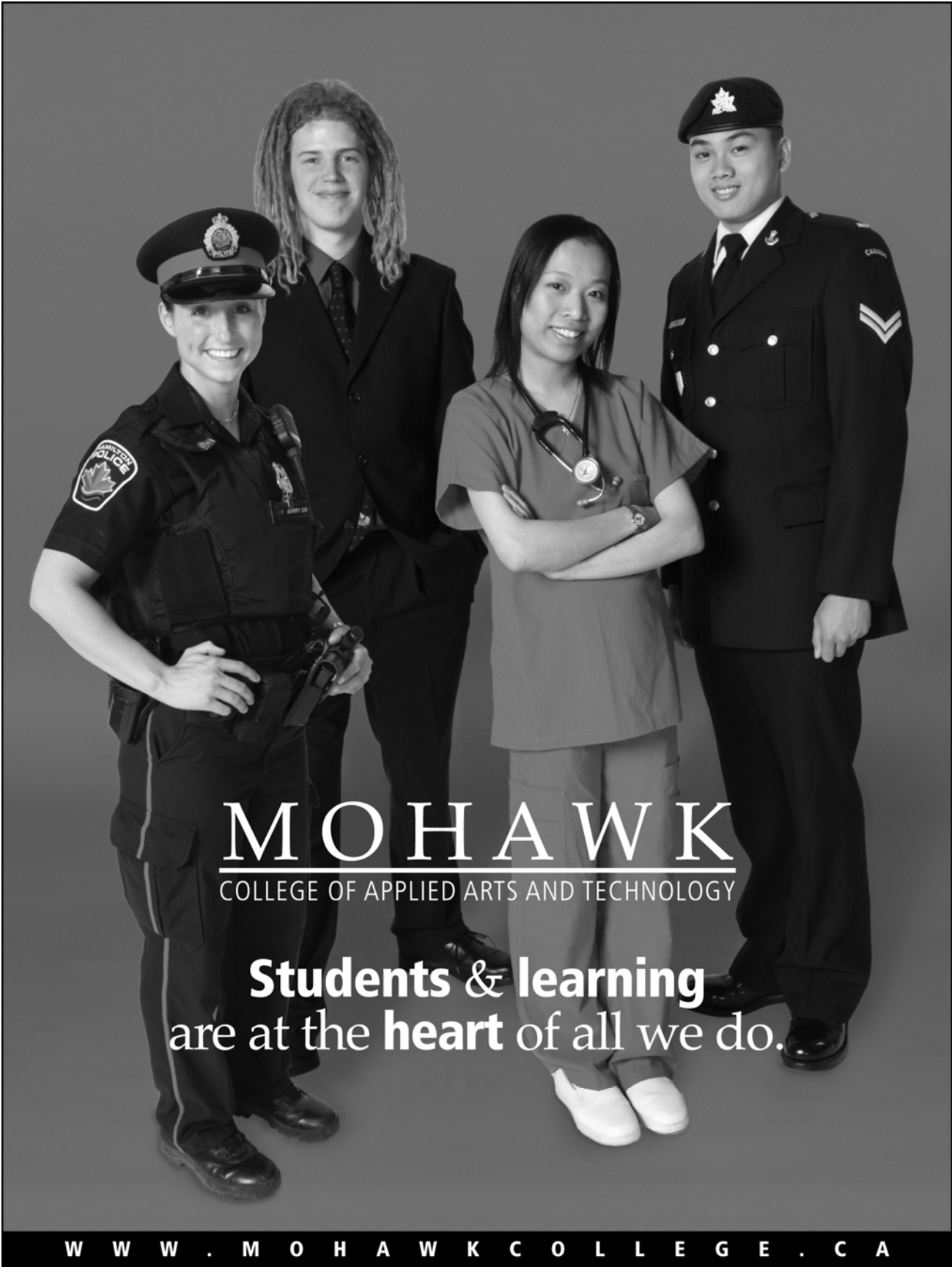
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Jonathan Kranyak  
Rian McLaughlin  
Joyce Savoline  
Helena Streun  
Bill Droogendyk  
Harry Gou  
Lesley Harschnitz  
Carrie Hughes  
Vicas Jha  
Sarodha Rajkumar  
Wuchow Than  
David Thurlow  
Steve Germann  
Prem Arora  
Michael Arthur  
Don Barclay  
Hassaan Basit  
Nigel Birch  
Chris Blackwood  
Daniel Borrelli  
Bill Brimley  
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Jim Casey  
Peter Child  
Dr. Stephen Chin  
Cathy Collins  
Tom Crawford  
Zoran Dabic  
Helen Dakin  
Corinne Ethier  
Tom Fehr  
James Ford  
Rodney Gabay  
Nick Gagliardo  
Dr. David Galbraith  
Bert Halliday  
Cathy Hamilton  
Dr. Leonard Harris  
Elaine Holding  
Philip Homerski  
David Howard  
Rebecca Hull

Mike Jefferson  
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Nicola Simmons  
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Lorraine Skuse  
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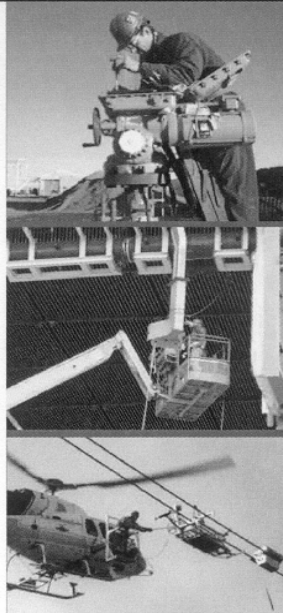
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## EXHIBITOR INDEX continued...

Suciu, Maria	E15	Terdik, Jessica	V07	VanHelden, Kaitlyn	T09	Williamson, Jaedon	E16
Summers, Ian	R08	Tesone, Ally	E01	Verbickas, Andrina	B18	Wilson, Jennifer	J06
Sur, Romita	A17	Teymourian, Roxana	S05	Vermeyden, Pieter (Pim)	M06	Wimmers, Ben	P01
Swallow, Benjamin	E03	Thomson, John Gray	P04	Vickinadas, Vivesh	A02	Wittek, Michelle	C08
Szymkiewicz, Erica	D13	Tinebra, Alexandra Maria	Q06	Voortman-Bremer, Jessica	G18	Wong-Pack, Matthew	B06
Tabone, Lauren	D06	Tolmac, Aleksandra	S04	Wain-Lowe, Samuel	F19	Yang, Jenny	K06
Tabone, Shannon	E01	Tornyos, Levente	E11	Walczak, Gillian	T08	Yang, Jonathan	L06
Tamburic, Mariana	C05	Tran, John	N07	Walker, Caroline	E05	Yee, Rose	M01
Tarbutt, Lindsay	D15	Trevisani, Cassandra	C15	Walker, Katie	E14	Yum, Victoria	M01
Tarka, Jessica	C18	Trout, Kinzi	L03	Weaver, Jacob	A04	Zadlo, Betty	B13
Tatti, Leah	N10	Tudball, Matthew	D14	Weaver, Nicholas	K02	Zerrouk, Yasmin	Q08
Taylor, Alicia	F01	Urquhart, Taylor	K01	Weston, Kathryn	B16	Zhang, David	M09
Taylor, Chanise	B17	van Leeuwen, Jenna	F17	Wheaton, Jacob	G02	Zografou, Alexander	L05
Telesnicki, Teagan	B07	Vandemerwe, Jesse	D01	Whitwell, Anthony	U02	Zylik, Diana	R05
Terbrack, Nathan	K13	Vangoch, Stacie	J02	Williams, Tobias	Q03		

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Exit

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A01	A02	A03	A04	A05	A06	A07	A08	A09	A10
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B01	B02	B03	B04	B05	B06	B07	B08	B09	B10
C01	C02	C03	C04	C05	C06	C07	C08	C09	C10

D01	D02	D03	D04	D05	D06	D07	D08	D09	D10
E01	E02	E03	E04	E05	E06	E07	E08	E09	E10

F01	F02	F03	F04	F05	F06	F07	F08	F09	F10
G01	G02	G03	G04	G05	G06	G07	G08	G09	G10

H01	H02	H03	H04	H05	H06	H07	H08	H09	H10
J01	J02	J03	J04	J05	J06	J07	J08	J09	J10

Exit

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K01	K02	K03	K04	K05	K06	K07	K08	K09	K10
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# EAST AUXILIARY GYM

A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	Exit
B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	
C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	
D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	
E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	
F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	
G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	
K11	K12	K13	K14	K15	K16	K17	K18	K19	K20	



To Burridge Gym

### B.A.S.E.F. 2007 SMITH GYM

Exit

L01	L02	L03	L04	L05	L06	L07	L08	L09	L10
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M01	M02	M03	M04	M05	M06	M07	M08	M09	M10
N01	N02	N03	N04	N05	N06	N07	N08	N09	N10

P01	P02	P03	P04	P05	P06	P07	P08	P09	P10
Q01	Q02	Q03	Q04	Q05	Q06	Q07	Q08	Q09	Q10

R01	R02	R03	R04	R05	R06	R07	R08	R09	R10
S01	S02	S03	S04	S05	S06	S07	S08	S09	S10

T01	T02	T03	T04	T05	T06	T07	T08	T09	T10
U01	U02	U03	U04	U05	U06	U07	U08	U09	U10

Exit

V01	V02	V03	V04	V05	V06	V07	V08	V09	V10
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## EXHIBITOR LISTING

**A01, Electricity**

Tesla Filice,  
J 7-8, Physical Sciences & Math  
Lisgar, HWDSB

**A02, Hover Craft**

Vivesh Vickinadas,  
J 7-8, Engineering and Computing  
Dalewood, HWDSB

**A03, Air, Wind, And Flight**

David Scott, Navid Malek  
J 7-8, Physical Sciences & Math  
Lisgar, HWDSB

**A04, Yes this is Rocket Science!**

Jacob Weaver,  
J 7-8, Engineering and Computing  
Dr. John Seaton, HWDSB

**A05, Bridges**

Shahab Sennah,  
J 7-8, Engineering and Computing  
Al-Falah School, Independent

**A06, BookLog: A Reading Incentive Software Program for Elementary Students**

Ian Sinke,  
J 7-8, Engineering and Computing  
Home Schooling, Independent

**A07, Take a Breath**

Katelyn Chovance, Stephanie Gandza  
J 7-8, Earth and Environmental  
St. Thérèse of Lisieux, HWCDSD

**A08, Global Warming : Solutions, Consequences ... Our Future!**

Cassandra Landry, Kayla Carlin  
J 7-8, Earth and Environmental  
St. Jean de Brébeuf, BHNCDSB

**A09, A Final Warning, for Global Warming**

Merrick Fallah,  
J 7-8, Earth and Environmental  
Silver Creek Public School, HDSB

**A10, Exhausting Our Planet**

Daniel Lamanna, Daniel Mariella  
J 7-8, Earth and Environmental  
Immaculate Heart of Mary, HWCDSD

**A11, Fresnel lens**

Colin Brown,  
J 7-8, Physical Sciences & Math  
Spencer Valley, HWDSB

**A12, Savonius Wind Turbines**

Cody Luzar,  
J 7-8, Engineering and Computing  
Hawthorne Village Public School, HDSB

**A13, Human's Unknowing Devastation: Pond Ecosystem**

Brooke Clairmont,  
J 7-8, Earth and Environmental  
Ancaster Senior, HWDSB

**A14, Solar Sizzling**

Timothy Rohr,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**A15, Pathogenic Bacterial Elimination: Bacterial Lysis Through the Application of Muramidase**

Anthony Querques,  
J 7-8, Biotechnology  
St. Joseph (Acton), HCDSB



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Lou Piovesan  
*Director of Education*

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of your endeavours!

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# EXHIBITOR LISTING *continued...*

**A16, Gene Expression Changes in Parkinson's disease: Genes mediating alpha-synuclein Toxicity in a Drosophila Model**

Aaron Hakim,  
I 9-10, Health Sciences  
Appleby College, Independent

**A17, I HAVE SEEN THE LIGHT!- An Introduction to Photodynamic Therapy**

Romita Sur,  
I 9-10, Health Sciences  
Hillfield Strathallan College, Independent

**A18, Defeat Diabetes and Make it Curable!**

Manmeet Kaur,  
I 9-10, Health Sciences  
Abbey Park High School, HDSB

**A19, Vocal Identity**

Sharaya Jones, Megan MacCuish  
I 9-10, Health Sciences  
Hillfield Strathallan College, Independent

**A20, Operation MESV: The Spy 2**

Joseph Almonte,  
I 9-10, Engineering and Computing  
Bishop Ryan High School, HWCDSD

**B01, Battle of the Drinks**

Nicholas D'Attona,  
J 7-8, Health Sciences  
Oakville Christian School, Independent

**B02, Bald much**

Sarah Mahmood,  
J 7-8, Health Sciences  
Al-Falah School, Independent

**B03, Taste Test**

Alexa Stratis,  
J 7-8, Health Sciences  
Appleby College, Independent

**B04, Lead... The Silent Killer**

Mark Semelhago, Sherif Ramadan  
J 7-8, Health Sciences  
Hillfield Strathallan College, Independent

**B05, Murderous Melanoma**

Alexandria Oreskovic,  
J 7-8, Health Sciences  
St. John the Baptist, HWCDSD

**B06, sleep deprivation**

Steven Murray, Matthew Wong-Pack  
J 7-8, Health Sciences  
Charles R. Beaudoin Public School,  
HDSB

**B07, Bottled Vs. Tap**

Teagan Telesnicki,  
J 7-8, Physical Sciences & Math  
Appleby College, Independent

**B08, Eat Right! Be Bright!**

Sarah Filice,  
J 7-8, Health Sciences  
St. Augustine, HWCDSD

**B09, BRUSH 4 DEN-TEST**

Kelly Fitzgerald, Indira Boskovic  
J 7-8, Health Sciences  
Sir Wilfrid Laurier, HWDSB

**B10, Does Colour Make A Sound?**

Kathryn Benincasa,  
J 7-8, Health Sciences  
St. Vincent de Paul, HWCDSD

**B11, Optical Illusions and Your Gender**

Victoria Johnson, Nicolette Paradela  
J 7-8, Health Sciences  
Dundas District, HWDSB

**B12, Sleep Deprivation**

Mike Small, Cyrus Montazemi  
J 7-8, Health Sciences  
Ancaster Senior, HWDSB



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Encourage thoughtful experimentation and challenge routine.  
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### *Accountability... We will:*

Act with integrity in accordance with Board policies.  
Measure and report our accomplishments to the community.  
Use our resources wisely, efficiently and effectively.  
Honour our commitments.

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## EXHIBITOR LISTING continued...

**B13, Pin Point**

Kamila Pogoda, Betty Zadlo  
J 7-8, Health Sciences  
St. James the Apostle, HWCDSB

**B14, Taste Buds**

Stephanie Robinson, Deanna Capela  
J 7-8, Health Sciences  
Lisgar, HWDSB

**B15, Brain Draining Summer**

Robert Gagnon, Jimmy He  
J 7-8, Health Sciences  
Charles R. Beaudoin Public School,  
HDSB

**B16, Driving Under the Influence of Music**

Kathryn Weston,  
J 7-8, Health Sciences  
St. James the Apostle, HWCDSB

**B17, What Are You Lookin' At?**

Chanise Taylor, Daniella DeSarno  
J 7-8, Health Sciences  
Holy Name of Jesus, HWCDSB

**B18, Pop Goes Your Heart Rate**

Andrina Verbickas,  
J 7-8, Health Sciences  
St. Augustine, HWCDSB

**B19, Is Soy the Right Choice**

Sofia Neto, Stephanie Orlando  
J 7-8, Health Sciences  
St. Augustine, HWCDSB

**B20, Where Artistry Meets Injury: A Comparison of Passive Turnout, Funtional Turnout and Self Reported Injuries in Academy of**

Nicole Reid,  
J 7-8, Health Sciences  
St. Augustine, HWCDSB

**C01, Har-money? A Study about Wage Equality**

Robin Jones,  
J 7-8, Health Sciences  
Dalewood, HWDSB

**C02, How big is YOUR blind spot?**

Miriam Martens, Natasha Burtenshaw-deVries  
J 7-8, Health Sciences  
Westview, HWDSB

**C03, The Priest And The Thief**

Tanner Stout,  
J 7-8, Health Sciences  
St. Augustine, HWCDSB

**C04, Dont Snooze You Looze**

Kyana Selvaggio, Kayla Hewer  
J 7-8, Health Sciences  
Holy Name of Jesus, HWCDSB

**C05, Conversation With "Polite" Cards**

Vivian Milliken, Mariana Tamburic  
J 7-8, Health Sciences  
Dundas District, HWDSB

**C06, Mind And Taste**

Katarina Bago,  
J 7-8, Health Sciences  
St. Daniel, HWCDSB

**C07, A Mother's Cravings**

Courtney Myrden,  
J 7-8, Health Sciences  
Dalewood, HWDSB

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## EXHIBITOR LISTING continued...

**C08, Keep It Moist**

Michelle Wittek,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**C09, Colour Confusion: Can You See the Taste?**

Diana Cocchiarella,  
J 7-8, Health Sciences  
St. Vincent de Paul, HWCDSB

**C10, Gut Feeling**

Julie Jakji, Emma Atkinson  
J 7-8, Health Sciences  
Blessed Kateri Tekakwitha, HWCDSB

**C11, Learning in our Sleep**

Erin Janssen, Kayla Jarvis  
J 7-8, Health Sciences  
Templemead, HWDSB

**C12, Personality and Learning Styles - Are they Connected?**

Amena Masoomy, Lyna Dinh  
J 7-8, Health Sciences  
Sanford Avenue, HWDSB

**C13, Pulse: It's the Heart of the Matter**

Lauren DeRaaf,  
J 7-8, Health Sciences  
Trinity Christian School, Independent

**C14, Brushing or Whitestrips? Coke or Sprite? What's Best for Your Teeth.**

Alison Mitro, Nicole Hughes  
J 7-8, Health Sciences  
Dundas District, HWDSB

**C15, Caffeine Craze**

Cassandra Trevisani, Alicia Greco  
J 7-8, Health Sciences  
St. Mark, HWCDSB

**C16, Wanna Chat?**

Maddy Links, Vanessa Carment-Baker  
J 7-8, Health Sciences  
Dalewood, HWDSB

**C17, Identifying the major causes of tooth loss that result in dental implant placement**

Judah Glogauer,  
J 7-8, Health Sciences  
Hamilton Hebrew Academy Zichron Meir  
School, Independent

**C18, The Pimple Problem**

Jessica Tarka,  
J 7-8, Health Sciences  
St. Brigid, HCDSB

**C19, Water vs. Gatorade**

Natasha Despinic,  
J 7-8, Health Sciences  
Memorial (City), HWDSB

**C20, Now You See It, Now You Don't**

Celina Osakowicz, Rebecca Jerome  
J 7-8, Health Sciences  
St. Mark, HWCDSB

**D01, Reaction Rules**

Jesse Vandemerwe,  
J 7-8, Health Sciences  
Trinity Christian School, Independent

**D02, Does Singing Affect Children's Memory?**

Caitlin Rees, Michelle Collin  
J 7-8, Health Sciences  
Templemead, HWDSB

**D03, Play all day, what will your body say?**

Emma Ferguson, Heather Coburn  
J 7-8, Health Sciences  
Dundas District, HWDSB

**D04, Watch What You Eat**

Elizabeth Fox,  
J 7-8, Health Sciences  
Eastview Public School, HDSB

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## EXHIBITOR LISTING continued...

**D05, Don't Forget Your Vitamins**

Kristy Kastelic, Melissa Palios  
J 7-8, Health Sciences  
Corpus Christi, HWCDSB

**D06, Do Bacteria Cause Obesity?**

Lauren Tabone,  
J 7-8, Health Sciences  
Holy Name of Mary, HWCDSB

**D07, Heart To Heart Facts On Trans Fats**

Jessica Davison,  
J 7-8, Health Sciences  
Corpus Christi, HWCDSB

**D08, Have Your Cake And Eat It Too**

Tasha Slye,  
J 7-8, Health Sciences  
St. Paul, HWCDSB

**D09, Seeing is Deceiving**

Janna Guyatt,  
J 7-8, Health Sciences  
St. Vincent de Paul, HWCDSB

**D10, Feel the Beat (Music and the affects it ha on your pulse)**

Marissa Foley, Teresa Francella  
J 7-8, Health Sciences  
St. Vincent de Paul, HWCDSB

**D11, Apples: Are they all the Same**

Joe Drake,  
J 7-8, Health Sciences  
Eastview Public School, HDSB

**D12, Using More Than Words**

Jordan Angiolillo,  
J 7-8, Health Sciences  
St. Ann (Hamilton), HWCDSB

**D13, Let's Get Down to the Roots**

Erica Szymkiewicz,  
J 7-8, Health Sciences  
St. Mark, HWCDSB

**D14, Human Cloning. Is It Truly God's Work?**

Matthew Tudball,  
J 7-8, Health Sciences  
Eastview Public School, HDSB

**D15, Ready, Set, Breakfast!**

Lindsay Tarbutt, Karie Balon  
J 7-8, Health Sciences  
St. Mark, HWCDSB

**D16, More zzz's, More Aaa's.**

Shannon Krause, Marija Curic  
J 7-8, Health Sciences  
St. Brigid, HCDSB

**D17, IS LAUGHTER REALLY THE BEST MEDICINE?**

Alana Klunder, Jessica Klunder  
J 7-8, Health Sciences  
Our Lady of the Assumption, HWCDSB

**D18, DNA**

Erica Reichl,  
J 7-8, Life Sciences  
St. Thérèse of Lisieux, HWCDSB

**D19, Dyed Pink?**

Alice Kim, Jennie Chang  
J 7-8, Health Sciences  
Oakville Christian School, Independent

**D20, Vitamin C Quantity**

Jessica Scozzari, Daniella Cisternino  
J 7-8, Physical Sciences & Math  
St. Thérèse of Lisieux, HWCDSB

**E01, Does music affect your memory ?**

Shannon Tabone, Ally Tesone  
J 7-8, Health Sciences  
St. Thérèse of Lisieux, HWCDSB

**E02, Who's got the brains?**

Francesca Altobelli, Simone Rossi  
J 7-8, Health Sciences  
St. Thérèse of Lisieux, HWCDSB

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## EXHIBITOR LISTING continued...

**E03, Leaky Laptops**

Benjamin Swallow,  
J 7-8, Health Sciences  
Oakville Christian School, Independent

**E04, Mind over Gender**

Justin Centanni, Mario Pacheco  
J 7-8, Health Sciences  
St. Thérèse de Lisieux, HWCDSB

**E05, The Essence Of Aromatherapy**

Caroline Walker,  
J 7-8, Health Sciences  
Oakville Christian School, Independent

**E06, The Effects of Coloured vs. Black and White Stimuli on Short-Term Memory**

Lindsay Dynes, Amanda Dufour  
J 7-8, Health Sciences  
Dundas District, HWDSB

**E07, UNDER PRESSURE?**

Gabriel Adamo, Matthew Hilson  
J 7-8, Health Sciences  
St. Catherine of Siena, HWCDSB

**E08, Fast or Friction? Measuring the Effect of Friction on Remote Control Car Performance**

Shaphan Bowen,  
J 7-8, Engineering and Computing  
Christadelphian Heritage College,  
Independent

**E09, An Efficient and Reliable Shovel**

Kehlyn Jansen, Michelle Jamroz  
J 7-8, Engineering and Computing  
St. Jean de Brébeuf, BHNCDSB

**E10, Mess No More**

Christina Jones, Lisa Pegoretti  
J 7-8, Engineering and Computing  
St. John the Baptist, HWCDSB

**E11, How do jet engines work?**

Levente Tornoyos,  
J 7-8, Engineering and Computing  
Sts. Peter & Paul, HWCDSB

**E12, Trebuchets: Solid vs. Hollow**

Jason Chaykowski,  
J 7-8, Engineering and Computing  
Our Lady of the Assumption, HWCDSB

**E13, Best Bridge Blend**

Daniel Kosis, Ryley Guite  
J 7-8, Engineering and Computing  
St. John the Baptist, HWCDSB

**E14, amplitude modulation of aerodynamic noise**

Katie Walker,  
J 7-8, Engineering and Computing  
Dundas District, HWDSB

**E15, Sound Proof**

Maria Suci,  
J 7-8, Engineering and Computing  
St. John the Baptist, HWCDSB

**E16, Slick Slippery Slide**

Jaedon Williamson, Brandon Benevides  
J 7-8, Engineering and Computing  
St. James, HCDSB

**E17, Preventing Iron from Rusting**

Amanda Carvalho, Pauline Radzikowski  
J 7-8, Engineering and Computing  
Blessed Kateri Tekakwitha, HWCDSB

**E18, Duration of Your Floatation**

Harley Jensen,  
J 7-8, Engineering and Computing  
St. John the Baptist, HWCDSB

**E19, The Answer Is Blowing In the Wind**

Gregory Campbell,  
J 7-8, Engineering and Computing  
St. James the Apostle, HWCDSB

**E20, The Effects Of Gyroscopes On A Structures Stability Part II**

Luke Martin,  
J 7-8, Engineering and Computing  
St. John the Baptist, HWCDSB

**F01, Stressed Out**

Alicia Taylor,  
J 7-8, Engineering and Computing  
St. Paul, HWCDSB



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## EXHIBITOR LISTING continued...

**F02, Can solar energy be efficiently utilized as a renewable energy?**  
George Lacatus,  
J 7-8, Engineering and Computing  
Westview, HWDSB

**F03, What makes a skate Great**  
Daniel Rosati,  
J 7-8, Engineering and Computing  
St. Brigid, HCDSB

**F04, How does a cell phone effects driving ?**  
Raiyan Chowdhury,  
J 7-8, Health Sciences  
Al-Falah School, Independent

**F05, Sringe arm**  
Jessica Pallace,  
J 7-8, Engineering and Computing  
Kilbride Public School, HDSB

**F06, It'll Blow You Away**  
Matthew Gauthier, Joey Paolini  
J 7-8, Engineering and Computing  
St. Daniel, HWCDSB

**F07, Electrocity**  
Joseph Mandozzi, Carmen Bozzelli  
J 7-8, Engineering and Computing  
St. Daniel, HWCDSB

**F08, Acid power**  
Tyler Kara, Alex Doro  
J 7-8, Engineering and Computing  
Blessed Kateri Tekakwitha, HWCDSB

**F09, THE SCORPION**  
Joey Stampone, Phillip Salman  
J 7-8, Engineering and Computing  
St. Dominic, HCDSB

**F10, 9-11 What Went Wrong?**  
Melanie Golbeck, Sara McNamara  
J 7-8, Engineering and Computing  
Oakville Christian School, Independent

**F11, Backpacks: A Pain in the Back**  
Carolyn Chong,  
J 7-8, Engineering and Computing  
Canadian Martyrs, HWCDSB

**F12, Tomorrow's Way**  
Lisa Bast,  
J 7-8, Engineering and Computing  
Oakville Christian School, Independent

**F13, Back 2 the Drawing Board**  
Anisa Fleet, Sakura Bunette  
J 7-8, Engineering and Computing  
Memorial (City), HWDSB

**F14, Effective Reflectors II: Optimizing Angles**  
Michael Peto,  
J 7-8, Physical Sciences & Math  
Oakville Christian School, Independent

**F15, The ARM**  
Rob Fuse, Mark McIntyre  
J 7-8, Engineering and Computing  
St. Dominic, HCDSB

**F16, How Low Can It Go?**  
Niall Paterson,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**F17, The Recyclables versus The Biodegradables**  
Jenna van Leeuwen,  
J 7-8, Earth and Environmental  
Hillfield Strathallan College, Independent

**F19, Green Clean?**  
Samuel Wain-Lowe,  
J 7-8, Earth and Environmental  
Hillfield Strathallan College, Independent



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# EXHIBITOR LISTING continued...

**F20, Acid Rain and Aquatic Life**

Sasha Kulczycki,  
J 7-8, Earth and Environmental  
Sts. Peter & Paul, HWCDSB

**G01, Why is the sky blue?**

Christine Bordas, Allison Jang  
J 7-8, Physical Sciences & Math  
St. James, HCDSB

**G02, The Wave Works**

Jacob Wheaton,  
J 7-8, Engineering and Computing  
Oakville Christian School, Independent

**G03, The Salt Affect**

David Pimiskern,  
J 7-8, Physical Sciences & Math  
St. Brigid, HCDSB

**G04, Environmental Pollution and Plant Responses**

Alexandra Beran, Emily Fyfe  
J 7-8, Earth and Environmental  
Oakville Christian School, Independent

**G05, Breathin' Easy**

Matt Girgis,  
J 7-8, Earth and Environmental  
Oakville Christian School, Independent

**G06, Wave Destruction**

David Najda, Austin Scime  
J 7-8, Earth and Environmental  
Blessed Kateri Tekakwitha, HWCDSB

**G07, ON YOUR MARK, GET SET, GROW!**

Ben Couce,  
J 7-8, Earth and Environmental  
Trinity Christian School, Independent

**G08, Power Production**

Jade Phillip, Lilia Serpa  
J 7-8, Earth and Environmental  
St. James, HCDSB

**G09, PROJECT POLLUTION**

Christopher Rubletz,  
J 7-8, Earth and Environmental  
Lisgar, HWDSB

**G10, Red Light, Green Light**

Lauren Brooks, Keira McKee  
J 7-8, Earth and Environmental  
Dalewood, HWDSB

**G11, Tsunami demonstration**

Kaleigh Russell, Meghan Rutherford  
J 7-8, Earth and Environmental  
St. Jean de Brébeuf, BHNCDSB

**G12, Sink or Swim**

Alexandra Finstad,  
J 7-8, Physical Sciences & Math  
Dalewood, HWDSB

**G13, Melt Away**

Kyle Stiliadis, Matthew Kush  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**G14, Do two stroke engines pollute too much?**

Ryley Besseling, Connor MacQueen  
J 7-8, Earth and Environmental  
Our Lady of the Assumption, HWCDSB

**G15, Washout!**

Jazriel Macasling,  
J 7-8, Earth and Environmental  
Holy Name of Jesus, HWCDSB

**G16, Pump'n the Petro/The Viscosity of Oil**

Graeme Milligan, Jason Saltarelli  
J 7-8, Earth and Environmental  
Mother Teresa, HWCDSB

**G17, Plants and UV**

Jacob Charles,  
J 7-8, Life Sciences  
Lisgar, HWDSB



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**Congratulations and good luck to all participants of the 2007 Bay Area Science and Engineering Fair!**



**JOHN DEERE**

## EXHIBITOR LISTING continued...

**G18, Fishy Business**  
Jessica Voortman-Bremer,  
J 7-8, Earth and Environmental  
Trinity Christian School, Independent

**G19, When Carbon Dioxide Invades**  
Kelsey Fedus,  
J 7-8, Earth and Environmental  
Lisgar, HWDSB

**G20, Solar Street  
Lights....Futuristic...Not!!**  
Monika Rouptra,  
J 7-8, Earth and Environmental  
Memorial (County), HWDSB

**H01, Dense and Dirty**  
Christopher Cocker,  
J 7-8, Earth and Environmental  
Appleby College, Independent

**H02, A study of water purification- to  
help those who are less fortunate**  
Alon Coret, Connor Dutchak  
J 7-8, Earth and Environmental  
Charles R. Beaudoin Public School,  
HDSB

**H03, Super Saliva**  
Dylan Siriwardena,  
J 7-8, Physical Sciences & Math  
Westview, HWDSB

**H04, What's in Your Walls**  
Carlo Muser,  
J 7-8, Earth and Environmental  
Appleby College, Independent

**H05, Are You Cloudy About Water  
Turbidity?**  
Victoria Rochon,  
J 7-8, Earth and Environmental  
Appleby College, Independent

**H06, Waves Beware!**  
Deanne Durward, Teresa- Marie Pagliaro  
J 7-8, Earth and Environmental  
St. Vincent de Paul, HWCDSB

**H07, Would You Eat This ?**  
Brian Robson, Marco DiCienzo  
J 7-8, Life Sciences  
St. James the Apostle, HWCDSB

**H08, Old Becomes Mold**  
Mithin Koshy, Julian Quaglia  
J 7-8, Life Sciences  
Mother Teresa, HWCDSB

**H09, Everything's Coming up... Algae**  
Patrick Bowman,  
J 7-8, Earth and Environmental  
St. Augustine, HWCDSB

**H10, Comparison of cozzz**  
Sally Chau, Abdullah Bin Aftab Syed  
J 7-8, Earth and Environmental  
Cathy Wever, HWDSB

**J01, Rust or Bust**  
Carmen Santino,  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**J02, Carpet Kaos**  
Jennifer Hall, Stacie Vangoch  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**Congratulations  
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# EXHIBITOR LISTING continued...

**J03, Magic Pennies**  
Steven Pray, Johnathon Pimentel  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**J04, Solar Electrolysis**  
Andrew De Jong,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**J05, Acid Rain, What a Shame**  
Josh Staboon,  
J 7-8, Earth and Environmental  
St. Mark, HWCDSB

**J06, Paper Pals**  
Tara Sampson, Jennifer Wilson  
J 7-8, Earth and Environmental  
Templemead, HWDSB

**J07, How Good Is Your driveway**  
Ryker Humphreys,  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**J08, Carbon Capture**  
Nick Calvert, Pellizzari Andrew  
J 7-8, Physical Sciences & Math  
St. Mark, HWCDSB

**J09, Colour Smart**  
Bishoy Ragheb, David Horvatic  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**J10, Happy Hydroponics**  
Kyle Fan, Daniel Cressman  
J 7-8, Biotechnology  
Dalewood, HWDSB

**K01, ProTerra Soil to the Res-Q!**  
Taylor Urquhart,  
J 7-8, Biotechnology  
Appleby College, Independent

**K02, Artificial Intelligence Turtle**  
Nicholas Weaver,  
I 9-10, Engineering and Computing  
Highland Secondary, HWDSB

**K03, The Digital Clock**  
Yiyong Lok,  
I 9-10, Engineering and Computing  
Hillfield Strathallan College, Independent

**K04, Effect of Pollution on Aquatic Life: Part 2**  
Lauren Bursey,  
I 9-10, Earth and Environmental  
Hillfield Strathallan College, Independent

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# EXHIBITOR LISTING continued...

**K05, Twinkling Tomatoes**  
Mannat Malik, Sarah Lovrics  
I 9-10, Biotechnology  
Hillfield Strathallan College, Independent

**K06, Heal or No Heal**  
Lucy Hu, Jenny Yang  
J 7-8, Biotechnology  
Dalewood, HWDSB

**K07, DNA works in mysterious ways**  
Simona Gabriele,  
J 7-8, Life Sciences  
St. Clare of Assisi, HWDSB

**K08, Natural Born Killers**  
Joy Liu, Michelle Phonthaphanh  
J 7-8, Biotechnology  
Sir Wilfrid Laurier, HWDSB

**K09, HSC:3000**  
Grace Latimer, Alison Castle  
I 9-10, Health Sciences  
Hillfield Strathallan College, Independent

**K10, Arch to Arch**  
Christine MacCauley,  
I 9-10, Engineering and Computing  
Bishop Tonnos High School, HWCDSD

**K11, Pollution: Country Mouse and City Mouse**  
Megan Anderson, Mina Kazemi  
I 9-10, Earth and Environmental  
Hillfield Strathallan College, Independent

**K12, The best water for your health**  
Nicole Delville,  
I 9-10, Physical Sciences & Math  
Bishop Tonnos High School, HWCDSD

**K13, The Ultimate Weapon of Mass Destruction**  
Nathan Terbrack,  
I 9-10, Earth and Environmental  
Bishop Ryan High School, HWCDSD

**K14, ALL THINGS BRIGHT AND BEAUTIFUL**  
Jordana Faruqil,  
I 9-10, Health Sciences  
Appleby College, Independent

**K15, Check Out My Sweet Ride**  
Patrick McCulloch, Sean Sears  
J 7-8, Engineering and Computing  
Sir Wilfrid Laurier, HWDSB



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# EXHIBITOR LISTING continued...

**L01, A Clinical Proposal Regarding the Effectiveness of Salvia as a Stress Reliever**

Slavena Petrova, James Goacher  
S 11-12, Biotechnology  
Abbey Park High School, HDSB

**L02, To Burn or not to Sunburn**

Joanna Nguyen, Bhaag Marway  
J 7-8, Physical Sciences & Math  
Cathy Wever, HWDSB

**L03, Ripple Tank**

Kinzi Trout, Sarah Campbell  
J 7-8, Physical Sciences & Math  
Lisgar, HWDSB

**L04, The Double Life of Non-Newtonian Fluids**

Nicolas Schrobilgen,  
J 7-8, Physical Sciences & Math  
St. Bernadette, HWDSB

**L05, Airborne With Hot Air Balloons**

Alexander Zografou, Andrew Ferreira  
J 7-8, Physical Sciences & Math  
St. James, HCDSB

**L06, S.O.C.C.E.R**

Charles Alexander, Jonathan Yang  
J 7-8, Physical Sciences & Math  
Oakville Christian School, Independent

**L07, Voltage Drop**

Eric Dyer,  
J 7-8, Physical Sciences & Math  
Home Schooling, Independent

**L08, The Cells Are Alive**

Rachael Adcock,  
J 7-8, Life Sciences  
Trinity Christian School, Independent

**L09, Cleaning Up our Act**

Alexander Rabicki,  
J 7-8, Life Sciences  
Dalewood, HWDSB

**L10, The 5 second rule?**

Madison Gunn, Kaela Guesenbauer  
J 7-8, Life Sciences  
Hillfield Strathallan College, Independent

**M01, Oh, where has my memory gone? (a planarian's perspective)**

Rose Yee, Victoria Yum  
S 11-12, Life Sciences  
North Park Collegiate and Vocational School, GEDSB

**M02, I Have A Bone to Pick With You... The bare bones of osteoporosis**

Emily Bhattacharya,  
S 11-12, Health Sciences  
Abbey Park High School, HDSB

**M03, Food for Mood**

Tanya Decarie, Shreya Jalali  
S 11-12, Health Sciences  
Abbey Park High School, HDSB

**M04, Send in the Reinforcements**

Peter MacCauley,  
S 11-12, Engineering and Computing  
Bishop Tonnos High School, HWDSB

**M05, Night Vision Camera**

David Bell, Jamie DeRe  
S 11-12, Engineering and Computing  
Abbey Park High School, HDSB

**M06, Ethanol Production from Bio-oil**

Pieter (Pim) Vermeyden, Peter Lynch  
S 11-12, Earth and Environmental  
Paris District High School, GEDSB

**M07, Does it go with the flow?**

Anthony DePaolo,  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWDSB



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## EXHIBITOR LISTING continued...

**M08, Convection Cooking - Is It Better?**

Alyssa Berardocco,  
J 7-8, Physical Sciences & Math  
St. Vincent de Paul, HWCDSB

**M09, The M-azing Race**

Brian Phan, David Zhang  
J 7-8, Physical Sciences & Math  
Sir Wilfrid Laurier, HWDSB

**M10, Mentos and Diet Coke - The Real Story**

Jack Copple, Abdullah Abdulmatlub  
J 7-8, Physical Sciences & Math  
Cathy Wever, HWDSB

**N01, I Lost My Frequency**

Matthew Lewis,  
J 7-8, Physical Sciences & Math  
St. Augustine, HWCDSB

**N02, Pretty Colours: The Division of Light into the Spectrum**

Ben Robertson,  
J 7-8, Physical Sciences & Math  
Christadelphian Heritage College,  
Independent

**N03, Wouldn't it be Nice if the World Was Chocolate? Why Chocolate Tastes Different from Different Countries**

River Jones,  
J 7-8, Health Sciences  
Christadelphian Heritage College,  
Independent

**N04, Memory Madness**

Michael Brunski, Sean Juen  
J 7-8, Health Sciences  
St. James the Apostle, HWCDSB

**N05, Do You Remember?**

Jessica Martinac, Julia Karpuik  
J 7-8, Health Sciences  
St. James the Apostle, HWCDSB

**N06, Heat in Motion**

Taylor Fraser, Natalie Porco  
J 7-8, Physical Sciences & Math  
St. Vincent de Paul, HWCDSB

**N07, When Pressure Volume and Temperature Collide- the Story of the Stirling Engine**

Jamie-Leigh Hatherley, John Tran  
J 7-8, Physical Sciences & Math  
Sanford Avenue, HWDSB

**N08, The Relations Between the Volume, Pressure, and Temperature of Air**

Faiza Ali,  
J 7-8, Physical Sciences & Math  
Hawthorne Village Public School, HDSB

**N09, Paper Chromatography**

Hera Hussain,  
J 7-8, Physical Sciences & Math  
Al-Falah School, Independent



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## EXHIBITOR LISTING continued...

**N10, Go Ahead Get Dirty**

Leah Tatti, Helena Sawosciej  
J 7-8, Physical Sciences & Math  
Holy Name of Jesus, HWCDSB

**P01, Electroplating 101**

Ben Wimmers,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**P02, You can rust , but you can't hide**

Nada Ahmed,  
J 7-8, Physical Sciences & Math  
Al-Falah School, Independent

**P03, Cleansing Power**

Hoson Abbas,  
J 7-8, Physical Sciences & Math  
Al-Falah School, Independent

**P04, The Pitch of a Glass**

John Gray Thomson,  
J 7-8, Physical Sciences & Math  
Appleby College, Independent

**P05, Hydrogen Production**

Seth Macey,  
J 7-8, Physical Sciences & Math  
Rotherglen School (Oakville),  
Independent

**P06, Pythagorean Expectation Applied to the Sport of Hockey**

Colin Marley,  
J 7-8, Physical Sciences & Math  
Ancaster Senior, HWDSB

**P07, Surface Tension**

Scott Morris,  
J 7-8, Physical Sciences & Math  
McKenzie-Smith Bennett Public School,  
HDSB

**P08, Surface Tension**

Jordan Holzschuher,  
J 7-8, Physical Sciences & Math  
Hawthorne Village Public School, HDSB

**P09, What colour can be seen most clearly through fog?**

Stephanie Mullin, Elizabeth Backman  
J 7-8, Physical Sciences & Math  
McKenzie-Smith Bennett Public School,  
HDSB

**P10, which candle burns the fastest?**

Lindsay Simpson, Brittany Hansen  
J 7-8, Physical Sciences & Math  
McKenzie-Smith Bennett Public School,  
HDSB

**Q01, The Coefficient of Friction: Experimental Study**

Stefan Dumitrescu,  
J 7-8, Physical Sciences & Math  
Dundas District, HWDSB

**Q02, Sounds good to me**

Alexandra DiCenzo,  
J 7-8, Physical Sciences & Math  
Appleby College, Independent

**Q03, Stairway to Heaven**

Tobias Williams,  
J 7-8, Physical Sciences & Math  
Dundas District, HWDSB

**Q04, Burn Baby Burn!**

Antonio Giacchetti, Nathan Ivanco  
J 7-8, Physical Sciences & Math  
St. John the Baptist, HWCDSB

**Q05, Ferrum Corruptur Quod Aer**

Kieran Smith,  
J 7-8, Physical Sciences & Math  
Hillfield Strathallan College, Independent

**Q06, Tap vs. Bottled**

Alexandra Maria Tinebra, Natalie Sorbara  
J 7-8, Health Sciences  
St. Thérèse of Lisieux, HWCDSB

**Q07, Purple?**

Riely McFarlane, Maria Mazurowska  
J 7-8, Physical Sciences & Math  
St. James, HCDSD

**Q08, Difference between white light and laser light**

Yasmin Zerrouk,  
J 7-8, Physical Sciences & Math  
Al-Falah School, Independent

**Q09, Poparific**

Erica Jones, Kaitlyn Fernandes  
J 7-8, Physical Sciences & Math  
Holy Name of Jesus, HWCDSB

**Q10, Oh, What A Relief!**

Elizabeth Smith, Aisha Hassan  
J 7-8, Physical Sciences & Math  
Sir Wilfrid Laurier, HWDSB

**R01, Battery Power**

Evan Inrig,  
J 7-8, Physical Sciences & Math  
St. Vincent de Paul, HWCDSB

**R02, Out Of This World!!!**

Philip Gabardo, Salvatore Macaluso  
J 7-8, Physical Sciences & Math  
St. Augustine, HWCDSB

**R03, A Race Down Memory Lane**

Katie Foster,  
J 7-8, Health Sciences  
Holy Name of Jesus, HWCDSB

**R04, Head Light**

Katy McLean,  
J 7-8, Physical Sciences & Math  
Oakville Christian School, Independent

**R05, The Colour of Power**

Diana Zylk,  
J 7-8, Physical Sciences & Math  
Oakville Christian School, Independent

**R06, Acid and Base Indicators**

Mohammed Alor bani,  
J 7-8, Physical Sciences & Math  
Al-Falah School, Independent

**R07, Roll It!**

Greg Hanta,  
J 7-8, Physical Sciences & Math  
St. Catherine of Siena, HWCDSB

**R08, A,B,..D...The Case of the Missing Vitamin C**

Ian Summers,  
J 7-8, Physical Sciences & Math  
Dalewood, HWDSB

**R09, Bacteria is Everywhere**

Chris Martone,  
J 7-8, Life Sciences  
Rotherglen School (Oakville),  
Independent

**R10, Potato Power**

Connor Allan, Zachary Allan  
J 7-8, Engineering and Computing  
Our Lady of the Assumption, HWCDSB

**S01, Moldy Bread**

Thomas Baxter,  
J 7-8, Life Sciences  
Memorial (City), HWDSB

## EXHIBITOR LISTING continued...

**S02, Hot and Sweet!**

Daniel Robinson,  
J 7-8, Physical Sciences & Math  
Rotherglen School (Oakville),  
Independent

**S03, Uncle and Antiseptic**

Victoria Hamilton,  
J 7-8, Life Sciences  
Memorial (City), HWDSB

**S04, Drugs Aren't The Key, Little Water Flea**

Nikolina Kablar, Aleksandra Tolmac  
J 7-8, Life Sciences  
Sir Wilfrid Laurier, HWDSB

**S05, MOLD**

Roxana Teymourian,  
J 7-8, Life Sciences  
Lisgar, HWDSB

**S06, Through Thick and Thin**

Kelly Botelho, Sarah Pongetti  
J 7-8, Physical Sciences & Math  
St. Thérèse of Lisieux, HWCDSB

**S07, Positive Synergy Gone Wrong**

Starr Liang, Nazneen Patel  
J 7-8, Life Sciences  
Sir Wilfrid Laurier, HWDSB

**S08, Disinfect to Protect**

Jelena Lucic, Ana Andrijevic  
J 7-8, Physical Sciences & Math  
Sir Wilfrid Laurier, HWDSB

**S09, Are microwaves cancerous ?**

Chelsea Gillen, Victoria Lindley  
J 7-8, Life Sciences  
St. Jean de Brébeuf, BHNCDSB

**S10, Which Cheese Molds the Fastest**

Angela Pileggi,  
J 7-8, Life Sciences  
St. Vincent de Paul, HWCDSB

**T01, Apples and Bananas**

Tyler Munn, Tyler Shippel  
J 7-8, Life Sciences  
St. Brigid, HCDSB

**T02, Something Fishy This Way Comes**

Lara Isaac,  
J 7-8, Life Sciences  
Eastview Public School, HDSB

**T03, AS CLEAN AS NEW**

Eboni-Rai Mullings,  
J 7-8, Physical Sciences & Math  
Eastview Public School, HDSB

**T04, How does Music affect the growth of plants**

Katelyn Brausewetter, Paulina Lizewski  
J 7-8, Life Sciences  
St. Brigid, HCDSB

**T05, How Clean is your Food**

Sammer Khalil,  
J 7-8, Life Sciences  
Dundas District, HWDSB

**T06, Coming Clean**

Kristina Saric, Caitlin Silveira  
J 7-8, Physical Sciences & Math  
St. James, HCDSB

**T07, Don't Cry Over Split Milk**

Tatjana Medakovic, Wardah Nasir  
J 7-8, Life Sciences  
Sir Wilfrid Laurier, HWDSB

**T08, Which Wins? Disinfectant Idol!!!**

Gillian Walczak, Sophia Coulter-English  
J 7-8, Physical Sciences & Math  
St. Mark, HCDSB

**T09, See monkeys???**

Kaitlyn VanHelden,  
J 7-8, Life Sciences  
Trinity Christian School, Independent

**T10, Sponge Diapers**

Christine Bowen,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**U01, The Beat Goes On**

April Hope,  
J 7-8, Life Sciences  
Trinity Christian School, Independent

**U02, Taking Your Best Shot**

Anthony Whitwell,  
J 7-8, Physical Sciences & Math  
St. James the Apostle, HWCDSB

**U03, It's a Washout!**

Emily Gregorcic,  
J 7-8, Physical Sciences & Math  
Trinity Christian School, Independent

**U04, The Ultimate Sea monkey**

Cassandra Gelzynsky,  
J 7-8, Life Sciences  
Immaculate Heart of Mary, HWCDSB

**EXHIBITOR LISTING** continued...**U05, Follow the Beat**

Sarah Gulas,  
J 7-8, Health Sciences  
St. Mark, HWCDSB

**U06, Colours, Colours, Colours**

Erin O'Donnell, Veronica Espinove  
J 7-8, Health Sciences  
St. John the Baptist, HWCDSB

**U07, Will Cow Poo Do?**

Clarissa Langille, Nazareth Alvarez  
J 7-8, Life Sciences  
Templemead, HWCDSB

**U08, An altered habitat**

Hilary Cosmo,  
J 7-8, Life Sciences  
St. Brigid, HCDSB

**U09, How to Beat Smelly Feet**

Mark Macfarlane,  
J 7-8, Health Sciences  
Christadelphian Heritage College,  
Independent

**U10, Digestive Enzymes Eat'em Raw**

Christina Romano, Laura Orfei  
J 7-8, Health Sciences  
Mother Teresa, HWCDSB

**V01, Wave Goodbye to Microwaves**

James Davis,  
J 7-8, Life Sciences  
Oakville Christian School, Independent

**V02, How do video games affect short-term memory**

Brandon Neate, Abdullah Malik  
J 7-8, Health Sciences  
Rotherglen School (Oakville),  
Independent

**V03, The Reflex Race**

Faraaz Ahmed,  
J 7-8, Health Sciences  
Hillfield Strathallan College, Independent

**V04, The 5 Second Rule**

Caitlin Kennific, Leanne Soares  
J 7-8, Life Sciences  
St. James, HCDSB

**V05, Pure Water or Pure Hype ?**

Lindsay Moffatt, Brittany Morim  
J 7-8, Physical Sciences & Math  
St. Daniel, HWCDSB

**V06, Pure Tone Audiometry : An Investigation Into Hearing Loss in Young Adults.**

Gallo Alessandra, Lawlor Jenny  
J 7-8, Health Sciences  
St. Vincent de Paul, HWCDSB

**V07, Music to our ears : how do we protect them?**

Samantha Edwards, Jessica Terdik  
J 7-8, Health Sciences  
St. Jean de Brébeuf, BHNCDSB

**V08, DISCOMBOBULATED**

Lisa-Marie Assenza,  
J 7-8, Health Sciences  
St. Clare of Assisi, HWCDSB

**V09, Dredging Dredgers: Improving Dredge Boat Design**

Caleb Myers,  
J 7-8, Engineering and Computing  
Christadelphian Heritage College,  
Independent

**V10, Safety In The Eye Of The Beholder**

Adam Lipari,  
J 7-8, Engineering and Computing  
Holy Name of Jesus, HWCDSB



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Special Awards are donated by organizations and groups to recognize deserving projects that deal with topics of interest to the donor.

### Halton Regional Chairman's Award for Student Excellence

Prize: \$300 and certificates to each of three projects.  
Criteria: Deserving projects by Halton students, any category, any level.

### City of Hamilton Mayor's Award

Prize: 1st: \$500, 2nd: \$300, 3rd: \$200  
Criteria: Deserving projects by Hamilton students in the Biotechnology division.

### Acquired Brain Injury Awards

Prize: 1st: \$75, 2nd: \$25  
Criteria: Two projects relating to the brain, especially acquired brain injuries, their causes, or therapies.

### Ambitious City Toastmasters Leadership and Communications Awards

Prize: \$50 to each of two projects  
Criteria: Leadership Award: Project demonstrating outstanding leadership skills in the area of innovative research.  
Communications Award: Outstanding clarity in written format and communication during the interview.



## Bright Minds Come to Hamilton



McMaster University and the City of Hamilton are working hard to attract and keep some of the world's brightest minds right here in Hamilton. In collaboration with our partner hospitals, we are exploring ways to create a new economic future based on biosciences. Biotechnology and biosciences hold enormous promise for economic and social benefits. By building on our research strengths and leveraging our intellectual, human and capital resources, we will create a globally competitive biotechnology industry in this part of the world. Hamilton and McMaster – partnering to ensure a healthier future for our community.



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## SPECIAL AWARDS *continued...*

### **Artistically Inspired Display Award**

Prize: \$100.

Criteria: The most artistically inspired Display

### **Bell Canada Computer and Communications Awards**

Prize: 1st: \$150; 2nd: \$100.

Criteria: For projects regarding communication between people, between machines, or between people and machines.

### **Canadian Institute of Mining & Metallurgy Hamilton Branch Award**

Prize: 1st: \$100, 2nd: \$50, 3rd: \$25.

Criteria: For projects relating to mining and metallurgy.

### **Canadian Nuclear Society (Sheridan Park Branch) Awards**

Prize: Two awards at the intermediate or senior levels for \$125 each & two at the junior level for \$75 each.

Criteria: For projects relating to nuclear science and engineering, energy research or climate sciences

### **Cancer Assistance Program Awards**

Prize: Three awards: \$50, \$35, \$25.

Criteria: For outstanding projects on topics related to cancer prevention.

### **Chemical Institute of Canada, Hamilton Section Award**

Prize: Three cash prizes of \$100 each.

Criteria: Projects related to chemistry, chemical engineering, or chemical technology.



*Science advancing health*

**Congratulations and good luck to  
all participants  
in the 2007  
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## SPECIAL AWARDS continued...

### Conservation Halton Environmental Sciences Award

Prize: \$100 each to two projects

Criteria: Best and second best Environmental Projects done by Halton Student(s)

### The DaVinci Awards

*Sponsored by the Hamilton Association for the Advancement of Literature, Science & the Arts*

Prize: \$300, honorary membership in the Association and an invitation to attend meetings

Criteria: The best candidate combination of personal initiative with the use of the scientific method.

### Dofasco Chemical Testing Award

Prize: \$100

Criteria: Project that best displays the use of chemical testing and/or chemical principles to solve a technical problem.

### Dofasco Commercial Award

Prize: \$100

Criteria: Project which best displays, the use of commercial and business planning tools in developing a potentially new or improved commercial product

### Dofasco Creativity and Innovation Community of Practice Award

*Sponsored by the members of the Dofasco Creativity and Innovation Group*

Prize: \$100

Criteria: Project which best displays the use of creativity and innovation in solving or exploring either a technical or social problem.

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## **SPECIAL AWARDS** continued...

### **Dofasco Engineering & Maintenance Technology Award**

Prize: \$100

Criteria: Deserving project that best displays the use of Engineering & Maintenance Technology principles and design to solve a technical problem.

### **Dofasco Environmental & Energy Award**

Prize: \$100

Criteria: Project that best displays the use of physics, chemistry or engineering to explore or solve a technical problem associated with environmental issues.

### **Dofasco Hot Mill Award**

Prize: \$100

Criteria: Project that best displays the use of creative principles and design to solve a manufacturing or process problem.

### **Dofasco Human Resources Training and Development Award**


Prize: \$100

Criteria: Project that best displays the use of teaching and training techniques in explaining or exploring a technical program.

### **Dofasco Information Systems Award**

Prize: \$100

Criteria: Deserving project that uses Information Systems and design to solve a technical problem.



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**SPECIAL AWARDS** continued...

**Dofasco Market Development and Product Applications Award**

Prize: \$100

Criteria: Project that best displays the innovative application of materials, products, processes or design principles.

**Dofasco Medical Department Award**

Prize: \$100

Criteria: Project that best displays the use of scientific principles in exploring or solving a problem related to human health issues.

**Dofasco Process Automation Award**

Prize: \$100

Criteria: Project that best displays the use of Process Automation principles and design to solve a technical problem.

**Dofasco Product Development Business Process Award**

Prize: \$100

Criteria: Project that best displays the use of Product Development principles and design in developing a new consumer product with commercial potential.

**Dofasco Quality Systems Award**

Prize: \$100

Criteria: Project that best displays the use of Quality Systems principles and design to solve a technical problem with a Health and Safety Focus.

**Dofasco Research and Development Award**

Prize: \$100

Criteria: Project that displays the best use of investigative research and scientific principles to explore or solve a technical problem.



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**SPECIAL AWARDS** continued...**Dofasco Steelmaking Award**

Prize: \$100

Criteria: Project that best displays the use of Engineering and Materials Science principles to solve a technical problem.

**Dr. Colin J.L. Lock Memorial Chemistry Award**

Prize: \$100

Criteria: Project demonstrating the best application of chemistry.

**Dr. Leonard Harris Award in Health Sciences**

Prize: \$100 to each of two projects

Criteria: Awarded to the most interesting projects which involve an experiment relating to human biology, health or disease.

**Dr. M. Doyle Award**

Prize: \$100 cash award, a plaque and a trophy for the winner's school

Criteria: Best biology project.

**Electrical Construction Association of Hamilton Award**

Prize: \$250

Criteria: A project displaying the best, safest use of electricity in a creative manner.

**Hamilton Amateur Astronomers Award**

Prize: Astronomy book and one year membership in the HAA

Criteria: Project that best demonstrates an understanding of a topic related to astronomy

**Hamilton Wentworth Occasional Teacher Local****Environment and Education Award**

Prize: \$50 and certificate

Criteria: Junior project which most effectively educates others about an environmental issue

**Healthy Lifestyles Award**

Prize: \$ 50 and certificate

Criteria: Junior project which most effectively educates others regarding the role of nutrition and/or exercise in maintaining a healthy lifestyle.

**Presentation and Aesthetics Award**

Prize: \$50 and certificate

Criteria: Junior project which demonstrates a high level of visual appeal, creativity and overall quality of Presentation.

**Helen Crawford Memorial Award**

Prize: \$100

Criteria: A deserving project in Health Sciences, with preference given to projects related to the causes or treatment of cancer

**Hillfield Strathallan College Awards of Excellence****Design and Engineering**

Prize: One cash award of \$100

Criteria: Senior project that best displays innovation in identifying an ergonomic design problem

**Environmental Sciences**

Prize: One cash award of \$100

Criteria: Junior or Intermediate project that best displays innovation in identifying an environmental problem

## SPECIAL AWARDS continued...

### **Health Sciences**

Prize: One cash award of \$100

Criteria: Intermediate project that best displays excellence in sampling design in a health science project

### **Hamilton Community Energy Award**

Prize: Three awards of \$100 each

Criteria: Project that best demonstrate the production of electrical energy from "green sources", or new, viable approaches to using electrical energy more efficiently

### **Hydro One Energy Ambassador Award**

Prize: One award of \$100, to be sent after the fair.

Criteria: For a project at any level, with outstanding scientific quality and whose primary focus is the distribution, supply management, use or conservation of electrical energy (or alternatively, other forms of energy if suitable projects relating to electrical energy are not available)

### **IEEE Hamilton Section Awards**

Prize: Two prizes of \$100 each

Criteria: Two projects which shows the best use of Electronics in a science or engineering project, any level.

### **Intel Excellence Awards for regional science fairs affiliated with the Intel International Science & Engineering Fair**

Prize: Two prizes of \$200 (U.S.) each (to be forwarded after the fair.)

Criteria: The top winner of Computer Science category in Intermediate or Senior potential of the fair.

### **International Science & Engineering Affiliated Fair Awards for regional science fairs affiliated with the Intel International Science & Engineering Fair**

Prize: certificates

Criteria: deserving intermediate and senior projects related to topics of interest to the following organizations

American Meteorological Society: For an Intermediate or Senior project Best ability and creativity in an atmospheric science exhibit.

American Psychological Association: Outstanding research in Psychology under the category of behavioural and social sciences.

ASM Materials: outstanding exhibit in materials science.

Association for Women Geoscientists: Project by female student(s) demonstrating high standards of innovativeness and scientific excellence in the geosciences.

Herbert Hoover Young Engineer Award: Outstanding Engineering Project.

International Society for Optical Engineering: Best project in the area of Optical Science or Engineering.

MU Alpha Theta: Intermediate or Senior project demonstrating the most challenging, original, thorough and creative investigation or problem involving mathematics.

Ricoh Sustainable Development Award: Most outstanding project, selected among all the general award categories, whose principles and technical innovations offer the greatest potential for increasing our ability to grow environmentally friendly and socially responsible businesses

Society for In Vitro Biology: 11 grade project exhibiting in the areas of plant or animal in vitro biology or tissue culture

Yale Science & Engineering Association: Most outstanding grade 11 student exhibiting in the areas of Computer Science, Engineering, Physics, or Chemistry.

**SPECIAL AWARDS** continued...**Investigative Science Awards**

Prize: Two awards of \$250 each

Criteria: Two projects showing the best application of creative problem solving, any project, any level.

**John. W. Howard Materials Research Award**

Prize: \$100

Criteria: A project demonstrating innovation in engineering materials, especially concrete.

**Keep Hamilton Clean Committee/ City of Hamilton Public Works Award**

Prize: \$100

Criteria: The entry that best addresses the effect on the environment of littering, dumping, and defacing property and/or processes and systems to effectively manage the collection and disposal of litter.

**McMaster University Department of Chemistry Award**

Prize: \$100 plus certificate

Criteria: An outstanding senior or intermediate project connected to chemistry

**Congratulations and best wishes  
for continued success  
to all BASEF participants!**



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## SPECIAL AWARDS continued...

### **McMaster Engineering Society Award**

Prize: \$250

Criteria: Best junior engineering project.

### **McMaster University Faculties of Science & Engineering Tuition Awards**

Prize: Five \$500 tuition awards, to be redeemed upon acceptance of successful admission to either of the Faculties of Science or Engineering.

Criteria: Excellent science or engineering projects.

### **The Venture Science and Engineering Technology, McMaster University**

Prize: Two awards of \$50 off The Venture Engineering Science Summer Camp registration and a plaque to the winning projects

Criteria: Presented to one Junior and one Intermediate project that can demonstrate creativity and originality.

### **Mechanical Contractors Association of Hamilton Award**

Prize: \$250

Criteria: Best intermediate or senior engineering project.

### **Mohawk College School of Engineering Technology Awards**

#### **Building & Construction Sciences Awards**

Prize: \$50

Criteria: deserving project related to any branch of civil engineering, any category, any level.

Prize: \$50

Criteria: deserving project related to planning, design, operation of any transportation mode or facility, any category, any level.

Prize: \$50

Criteria: deserving project related to building sciences, building materials, energy conservation in structures, any category, any level.

#### **Chemical and Environmental Engineering Technology Awards**

Prize: \$100

Criteria: One deserving intermediate or senior project related to applied chemistry.

Prize: \$50

Criteria: One deserving junior project in environmental studies.

#### **Computer Science & Information Technology - Computer Excellence Award**

Prize: \$50

Criteria: Project which demonstrates thorough understanding of computer applications and design in today's world.

#### **Electrotechnology Engineering Award**

Prize: \$100

Criteria: \$50 for a deserving junior project in engineering studies. And \$50 for a deserving project in engineering studies

#### **Mechanical & Industrial Engineering Technology Awards**

Prize: \$100

Criteria: Outstanding project related to industrial engineering or manufacturing, any level



**SPECIAL AWARDS** continued...**Mathematics Awards**

Prize: \$75 to each of two projects

Criteria: Deserving projects in the mathematics division, or any project from any division demonstrating a thorough understanding of statistics, any level.

**National Science & Engineering Research Council (NSERC) Awards**

Prize: \$250 to each of two projects.

Criteria: Deserving projects demonstrating innovative and creative research by the student.

**Nelson Steel Awards**

Prize: \$50 to each of three projects

Criteria: Outstanding projects related to each of the following fields: steel, environmental and chemistry.

**Nicola Simmons Award in Cognition Studies**

Prize: \$100

Criteria: An exemplary project in cognition studies.

**Nipissing University Scholarship Award**

Prize: One scholarship award of \$1000

Criteria: To a senior project, any level, any category

**Ontario Association of Medical Laboratories**

Prize: Two awards of \$100 each, to be sent after the fair

Criteria: Outstanding projects at any level in disciplines such as biochemistry, chemistry, microbiology, toxicology, and forensic science, and incorporating analytical laboratory techniques or physical methods of analysis, for example a spectrometer or chromatograph.

**Procor Engineering Awards**

Prize: \$300 each, one prize each of \$150, \$100, \$50

Criteria: Excellent Engineering projects

**Primary Fluid Systems Awards**

Junior or Intermediate Engineering Awards

Two prizes each of : \$250, \$150, \$100

Criteria: Deserving projects in junior or intermediate engineering.

Junior or Intermediate Physical Sciences Awards

Two prizes each of : \$125, \$75, \$50

Criteria: Deserving projects in junior or intermediate physical sciences.

Junior or Intermediate Earth & Environmental Awards

Two prizes each of: \$125, \$75, \$50

Criteria: Deserving projects in junior or intermediate earth & environment.

**Professional Engineers Ontario (Hamilton Chapter) Awards**

Prize: 1st: \$150, 2nd: \$125, 3rd: \$75

Criteria: To the top three outstanding Engineering Project Exhibitors at any level.

**Professional Engineers Ontario (Oakville Chapter)**

Prize: Two awards of \$100 each

Criteria: To two deserving engineering projects.

**Ramanujan Award**

Prize: \$100 for up to three projects

Criteria: Projects that demonstrate strong mathematical base.

**SPECIAL AWARDS** continued...

**Royal Botanical Gardens Award**

Prize: \$100 gift certificate from RBG shop plus 1 year RBG Family Membership  
Criteria: Best project in botanical or environmental sciences

**Safety Management Systems Software Award**

Prize: \$100 and a plaque  
Criteria: A project that incorporates the most innovative integration of programming code to analyze data or to operate a piece of equipment.

**University of Ontario Institute of Technology Innovation Award**

Prize: Two Awards of \$100 each, to be sent after the fair and one award must go to a junior project.  
Criteria: Outstanding projects demonstrating the most innovative development, adaptation, or use of technology in any subject area.

**University of Ottawa Admission Scholarship**

Prize: \$1000 admission scholarship (or two \$500 scholarship for a pair project) toward tuition fees upon being accepted into and registration in an undergraduate program in the faculties of Engineering, Science or Health Sciences at the University of Ottawa.  
Criteria: The most deserving Senior project.

**Ontario Ministry of the Environment Award**

Prize: One cash prize of \$100, to be sent after the fair and one award must go to a junior project.  
Criteria: To an outstanding project in any category which demonstrates a creative approach to an environmental problem that could lead to cleaner air, land or water

**Zonta Club of Hamilton Awards**

Prize: \$300 will be shared by a limited number of projects.  
Criteria: Outstanding projects by females, any category, any level.




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## MERIT AWARDS



### *Sponsored by Primary Fluid Systems*

Merit Awards recognize the tremendous amount of thought and effort that has gone into the projects entered into the BASEF Regional Science Fair. They are the result of an extensive judging process undertaken by up to 150 independent judging volunteers who have come forward from educational institutions, local government organizations, business and industry in our regions. All participants in the Bay Area Science and Engineering Fair are eligible to win Merit Awards.

### ***The Awards are issued to projects that meet the following criteria:***

#### **Scoring:**

over 90% and ranking in top 7.5% of category:  
earns **Gold medal** & cash award

over 80% and next 10% of category:  
earns **Silver medal** & cash award

over 75% and next 12.5% of category:  
earns **Bronze medal** & cash award

over 75% and not in the top 30% of category:  
earns **Honourable Mention** certificate & cash award

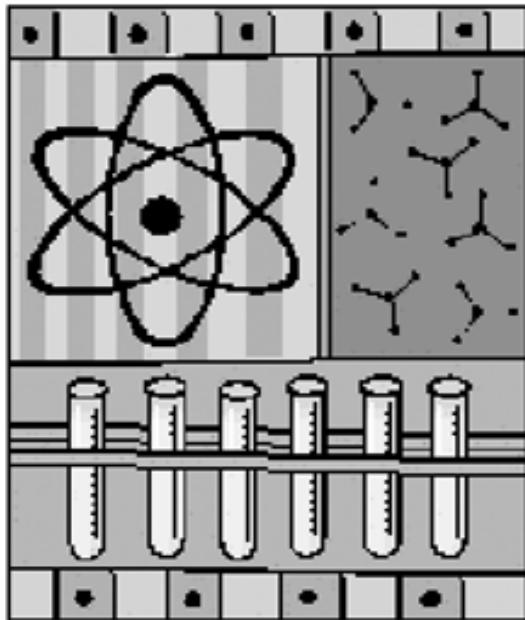
#### **For Junior, Intermediate, Senior levels in:**

- Health Sciences (Human)
- Life Sciences (Non-human)
- Physical and Mathematical Sciences
- Biotechnology
- Engineering and Computing Sciences
- Earth & Environmental Sciences

### **The Mohawk College & Sheridan Institute Tuition Scholarships**

Mohawk College of Applied Arts and Technology & Sheridan Institute of Technology and Advanced Learning will provide \$500 scholarships to ALL BASEF 2007 Merit Award Medal (Gold, Silver, Bronze) winners. The scholarship may be used toward first year tuition upon the recipients' acceptance and registration in any full-time program at either Mohawk or Sheridan. If multiple scholarships are accumulated over more than one year, only one of these scholarships may be used.

# Proud sponsors of BASEF and the 2007 Merit Awards



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by most people  
because it is dressed  
in overalls and  
looks like work”*

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## GRAND PRIZE AWARDS

WINNERS OF GRAND AWARDS HAVE DESIGNED, RESEARCHED AND PRESENTED EXCELLENT PROJECTS.

### DOFASCO PINNACLE AWARDS

BASEF's Pinnacle Awards are presented to each of the top three projects in the fair. These awards are based on the project's Merit Award score. Each winner receives an engraved plaque; trophies are awarded to the winners' schools.



### ROY MIDDLETON AWARD

For the best Junior level project at the fair, a plaque to the winner's school.

### 2007 PFIZER CANADA AWARD OF EXCELLENCE

The top project from BASEF 2007 that is advancing to CWSF, will earn the 2007 Pfizer Canada Award of Excellence. The winning project will receive a certificate and a Gold Medal. The winner's school will receive an Award of Excellence plaque to keep.



### HERB GILDEA MEMORIAL TROPHY

A trophy is awarded to the secondary school accumulating the most points. Points are earned from the number of projects entered from intermediate and senior levels of each school and those projects earning Gold, Silver, Bronze and Honourable Mention Merit Awards.

### BASEF COMMITTEE TROPHY

A trophy is awarded to the elementary school accumulating the most points. Points are earned from the number of projects entered from the junior level of each school and those projects earning Gold, Silver, Bronze and Honourable Mention Merit Awards.

# GRAND PRIZE TRIP AWARDS

## INTEL INTERNATIONAL SCIENCE & ENGINEERING FAIR TRIP AWARDS

All-expense-paid trips to the 2007 Intel International Science & Engineering Fair, to be held in Albuquerque, New Mexico, USA from May 13 to 19, 2007. Chosen from excellent secondary school (Intermediate & Senior level) projects, up to 4 trips, two singles and a pair project (depending on funding levels), will be awarded. Winners must be able to travel into the USA (Canadian citizenship or landed immigrant status)



### **Sponsors are**

- McMaster University
- Mohawk College
- Sheridan College

## CANADA WIDE SCIENCE FAIR TRIP AWARDS

All expense-paid trips to the 2007 Canada Wide Science Fair, to be held in Truro, Nova Scotia from May 12 to May 20, 2007. Up to 16 trips (depending on funding levels) will be awarded for excellent projects. All projects entered in BASEF 2007 are eligible.

### **Sponsors are**

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- Hamilton-Wentworth Catholic District School Board
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- Rotary Club of Hamilton
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## TEAM SCI-TECH ONTARIO

Along with all other Ontario CWSF trip winners, BASEF students awarded CWSF trips will be named to "Team Sci-Tech Ontario". Each Ontario CWSF trip-winner will receive a Team Sci-Tech Ontario lapel pin.





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Good luck to all the participants of the 2007 Bay Area Science and Engineering Fair!

