



BASEF

BASEF 2007
McMaster University

**Big ideas.
Infinite possibilities.**

Bay Area Science & Engineering Fair
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OFFICIAL PROGRAM

BASEF 2006

46th Annual
Bay Area Science & Engineering Fair
March 29 to April 1, 2006
Mohawk College

Sponsored by:

DOFASCO

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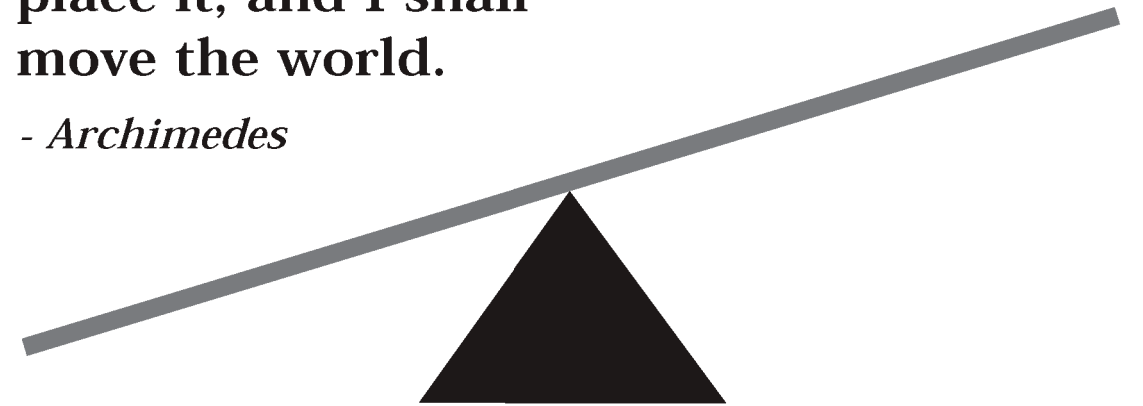
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**Big ideas.
Infinite possibilities.**

The Hamilton Spectator Founding partner for 46 years

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. We salute you!

THE HAMILTON SPECTATOR
— **Beyond Black and White** —

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.**

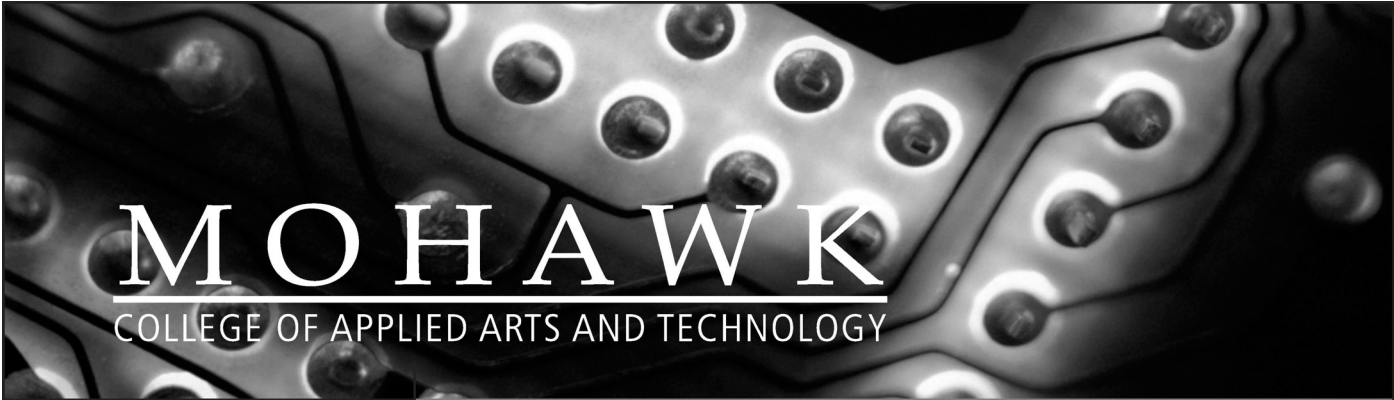
DOFASCO

Our product is steel. Our strength is people.

... *Our home is Hamilton.*

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MOHAWK

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

TECHNOLOGY **AT ITS FINEST!**

Mohawk College's vision of excellence in technology is clear. We offer the finest in technology education and training.

46th

MOHAWK COLLEGE is pleased to welcome you to the Annual **Bay Area Science and Engineering Fair.**

Best Wishes to all participants!

WWW.MOHAWKCOLLEGE.CA





A MESSAGE FROM THE BASEF CHAIR

Ray Kranyak

This is the 46th consecutive year of operation for the Bay Area Science and Engineering Fair (BASEF). The faces and the names may have changed, 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 Joyce Savoline and Hamilton Mayor Larry Di Ianni who continue to support 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 welcome DOFASCO, a long time BASEF supporter as our BASEF 2006 Title Sponsor. I would also like to thank the 10 new sponsors and over 43 returning sponsors who make it possible for BASEF's students to excel in science and engineering. Please support our sponsors wherever possible. Thank you also to our Special Awards donors. This year the total value of prizes, special awards, scholarships and trip awards is expected to top \$220,000.

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 Mohawk College of Applied Arts and Technology. It has taken the better part of a year to plan and stage BASEF 2006. Mohawk has made 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 your results 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 you all on a job well done and wish you all the best of luck.

Raymond T. Kranyak, Chairman, BASEF 2006



A MESSAGE FROM HONOURARY CO-CHAIR

Joyce Savoline

I am proud to once again, serve as the Honourary Co-chair for the Bay Area Science and Engineering Fair (BASEF)! This impressive event fosters a love of discovery and ingenuity in our young people offering them the opportunity to hone their skills in a supportive and rewarding arena.

As we look to the future, we recognize the importance of creating environments where the talents and skills of youth may be nurtured, in order that our next generation of workers may uphold the healthy Halton community we enjoy today.

The dedicated volunteers who have ensured the success of the BASEF work tirelessly to support technological education and I applaud their efforts and commitment to seeing our young people succeed!

My congratulations to everyone involved in the 2006 BASEF – the organizers, teachers, parents, sponsors and of course the students whose hard work is reflected in the high quality of their projects.

Sincerely,
Joyce Savoline,
Regional Chairman

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

MAYOR LARRY DI IANNI



CITY OF HAMILTON

GREETINGS FROM THE MAYOR OF HAMILTON

It is my pleasure, on behalf of the City of Hamilton, to welcome you to the annual **Bay Area Science and Engineering Fair (BASEF)**.

It is a privilege for me to have the opportunity to act as Honourary Co-chair and I take pride in a community that encourages students to strive for excellence in all their endeavours.

The BASEF provides the opportunity for young people interested in science, engineering and technology to explore their potential; to possibly discover new cures, build our cities and maintain Canada's competitive edge in the technology market. It provides a legacy for our future, and assists in the development of strong, responsible, and contributing citizens.

I wish to acknowledge the hard work and commitment of the parents, teachers, and the event organizers, who have allowed us the chance to witness the achievements of today's youth and tomorrow's innovators.

To our students, you are all winners. Your commitment and dedication to science and engineering is to be commended.

All the best for an exciting and enlightening event.



Sincerely,

A handwritten signature in black ink that reads "Larry Di Ianni".

Larry Di Ianni
Mayor

SCHEDULE OF EVENTS

Mohawk College of Applied Arts and Technology, Fennell Campus

Wednesday, March 29 **Project Setup**

4:00 p.m. Safety Check, ID Cards	Official Ribbon cutting; BASEF opens	4:00 p.m. 8:00 p.m.	On-site Registration, Project Setup, Registration Closes
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Thursday, March 30 **Judging Day**

“Arnie” projects without students and interviews completed	8:00 a.m. 8:30 a.m. 9:00 a.m. 11:45 a.m. 1:00 p.m. 4:00 p.m. 4:30 p.m.	Judges arrive at The Student Centre Judges’ welcome and assignment of Judges move to gym. Judging Start of Judges’ Luncheon Students arrive for afternoon judging Afternoon judging with students Judging scores reported
--	--	---

Friday, March 31st **Activity Day**

Centre, “Arnie” Discovery Centre provide own bagged lunch “Arnie”	8:00 a.m. 9:00 a.m. 3:30 p.m. to 4:30 p.m.	Students arrive at The Student Buses begin departing for Marine Arrive back at Student Centre, Parental pick-up begins. Parents must come into the College to sign out children.
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Students to

Saturday, April 1st **Public Viewing and Awards Ceremony**

9:00 a.m. 11:30 a.m. 12:00 noon 1:00 p.m.	Mohawk College Gym opens for Public Viewing. All students should be present. VIP Luncheon (by invitation only) End of Public Viewing. Gym will be closed until after the Awards Ceremony Mohawk College, McIntyre Theatre will open
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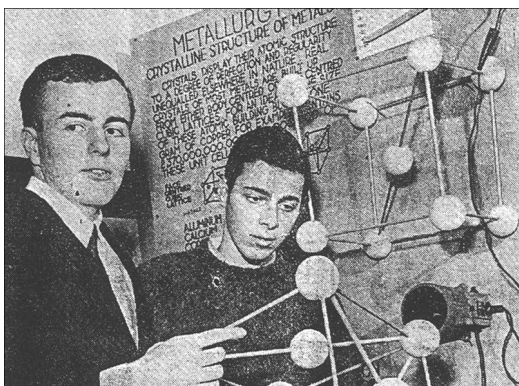
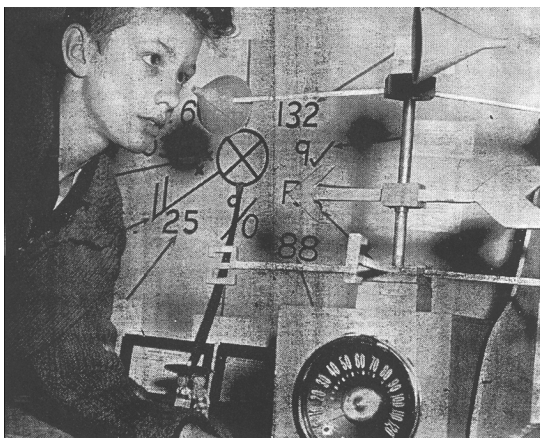
- 1:30 p.m. Start of Awards Ceremony
- 3:30 p.m. End of Awards Ceremony. Projects may now be removed from the gym.
- 4:00 p.m. Meeting for Trip Award Winners, their parents, chaperones, delegates, in the gym. (Note: It is important that winning students and their projects be available for this meeting).

BASEF 2006: 46th 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.



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.



SCIENCE FAIR

Hamilton Spectator advertisement: March 24, 1961

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 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

Your Future. Your choice!

- innovative industry-driven programs
- dedicated, professional faculty
- quality student services and resources
- Canada's leader in mobile computing
- 93% employer satisfaction
- new financial grants now available

An amazing student experience!

**Apply today for May or
September 2006.**

**www.sheridaninstitute.ca
905-845-9430 or 905-459-7533**



06/01



A Beginner's Guide 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 projects meet safety and ethical guidelines and are assigned to the correct division, the registration documents are complete and the 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
Judging with students present: Thursday- 1:00 pm – 4:00 pm
Activity Day: Friday- 8:00 am – 4:00 pm (free of charge)

Public Viewing: Saturday- 9:00 am – noon
Awards Ceremony: Saturday- 1:30-3:30 pm
Project Take Down: Saturday- 3:30 pm
(After the Awards Ceremony only!)

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: 9-10
Senior: 11-12

Divisions (six):

Biotechnology; Earth & 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 at BASEF. All projects are judged by a minimum of four independent judges. Gold, silver and bronze medals and honorable 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 next 12.5% of division
 - Honourable Mention:** over 75% and not in the top 30% of division
- At BASEF 2005, 8 projects won Gold, 33 Silver, 60 Bronze and 7 honourable mention.

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 2005, over \$24,000 in cash and scholarships was 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 accompany our students and students advancing to these prestigious competitions are provided with additional mentoring. All students are eligible to win a place on Team BASEF and go on to compete at the Canada Wide Science Fair (CWSF). We have sent our maximum number of students for the past few years. High school students are eligible to win trips to the Intel International Science and Engineering Fair (IISEF), held in the United States. Our maximum number is three projects, consisting of two single projects and one team project.

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.
Roy Middleton Award is given to the best Junior level project.
Pfizer Canada Award of Excellence is given to the top project in the fair that is advancing to CWSF. The winner receives

a medal of excellence and a plaque for display at their school.

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%
- Abstract: 5%
- Notebook: 20%
- Interview: 20%

The judging forms and criteria are available on the BASEF website at: http://basef.ca/2005/judges/#judging_form

Our Gold medallists (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 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 and include an extensive reference list. Additional recommended sites: www.sciencebuddies.org www.hallbar.com/sciencecenter.html

The “Parent Pages”(or How to Survive Science Fair!)

Congratulations on your wise decision to allow your child to participate in BASEF 2006!

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 2005, over \$212,000 in cash, prizes, awards and scholarships were shared by 375 students. We awarded 125 gold, silver or bronze Merit Awards (including over \$6,000 in cash), 139 Special Awards (cash and scholarships totaling \$24,000) and twenty four all expense paid trips. Each of our medal winners received a \$500 entrance scholarship to Mohawk or Sheridan College. The prize purse for BASEF 2006 will be similar.

Location of Events:

Note: All science fair activities are planned to take place at Mohawk College with the exception of the “Activity Day Tour” on Friday. All transportation for Activity Day will be provided by BASEF.

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 Mohawk College: Evening parking (after 5 pm) is \$3.50 and Weekend parking at Mohawk College is free. If you enter the campus during the day Thursday or Friday, you will be required to pay \$7.00 for parking. There will be signs directing you to the Science Fair as you enter the college from the West 5th entrance or the Fennell Avenue entrance. A map, directions to the campus and drop off/pick up areas will be posted on the BASEF 2006 website and at <http://www.mohawkc.on.ca/maps/> for your reference.

Day by Day: Parent Responsibilities

Day 1: Project set up for the fair occurs on **Wednesday, March 29, 2006 from 4:00 pm – 8:00 pm at Mohawk College.** 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 they 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/2006**

Day 2: Judging - Students are required to be at their projects for **judging on Thursday, March 30, 2006 from 1:00 pm – 4:00 pm.** **Parents and teachers will NOT be allowed onto the Judging Floor this day**

Day 3: Activity Day, Friday, March 31, 2006, 8:00 am – 4:00 pm

Students must be dropped off and picked up at “The Arnie”, Student Centre at Mohawk College for participation in the Activity Day event.

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, April 1, 2006**. This is followed by the Awards Ceremony from **1:30 pm to 3:30 pm**. Grand Prize winners will be required to stay after the ceremony. There will be a break for lunch from 12 noon until 1:15 pm. There will be some food service available in the cafeteria, or 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.*



*Public viewing
Intel IISEF 2005
Phoenix,
Arizona*

*BASEF alumnus
Anthony Chiarelli
and
David Hemler,
President of
Microsoft Canada*



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!"*



EMERGENCY SAFETY AND SECURITY PROCEDURES

The following emergency procedures and personal safety tips apply to Mohawk College’s Fennell 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

Mohawk’s Fennell Campus has a two-stage fire alarm. This means the fire alarm sounds *INTERMITTENTLY* to indicate a *FIRE ALERT* and *CONTINUOUSLY* for an *EVACUATION*.

IN CASE OF FIRE

1. If the alarm sounds intermittently, be prepared to “VACATE THE BUILDING”.
2. If the alarm sounds continuously 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 the Fire Department at **911**.

PERSONAL SAFETY

Emergency Intercoms and Phones

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

- 1) Emergency intercoms. These are located in the hallways throughout the College. Press the round button to speak directly to a Security Officer.
- 2) Bell pay phones. These phones have an *Emergency* button identified by a yellow label. A sign above the phones identifies your location. Press the Emergency button and give your location to the Security Officer.
- 3) Outside Emergency Intercoms. These are recognizable by a blue light. Press the red button to speak directly to a Security Officer.

Emergency Directory

Emergency Situations

Police/Fire/Ambulance-----Dial 9-911 on College phones or 911 on Bell pay phones

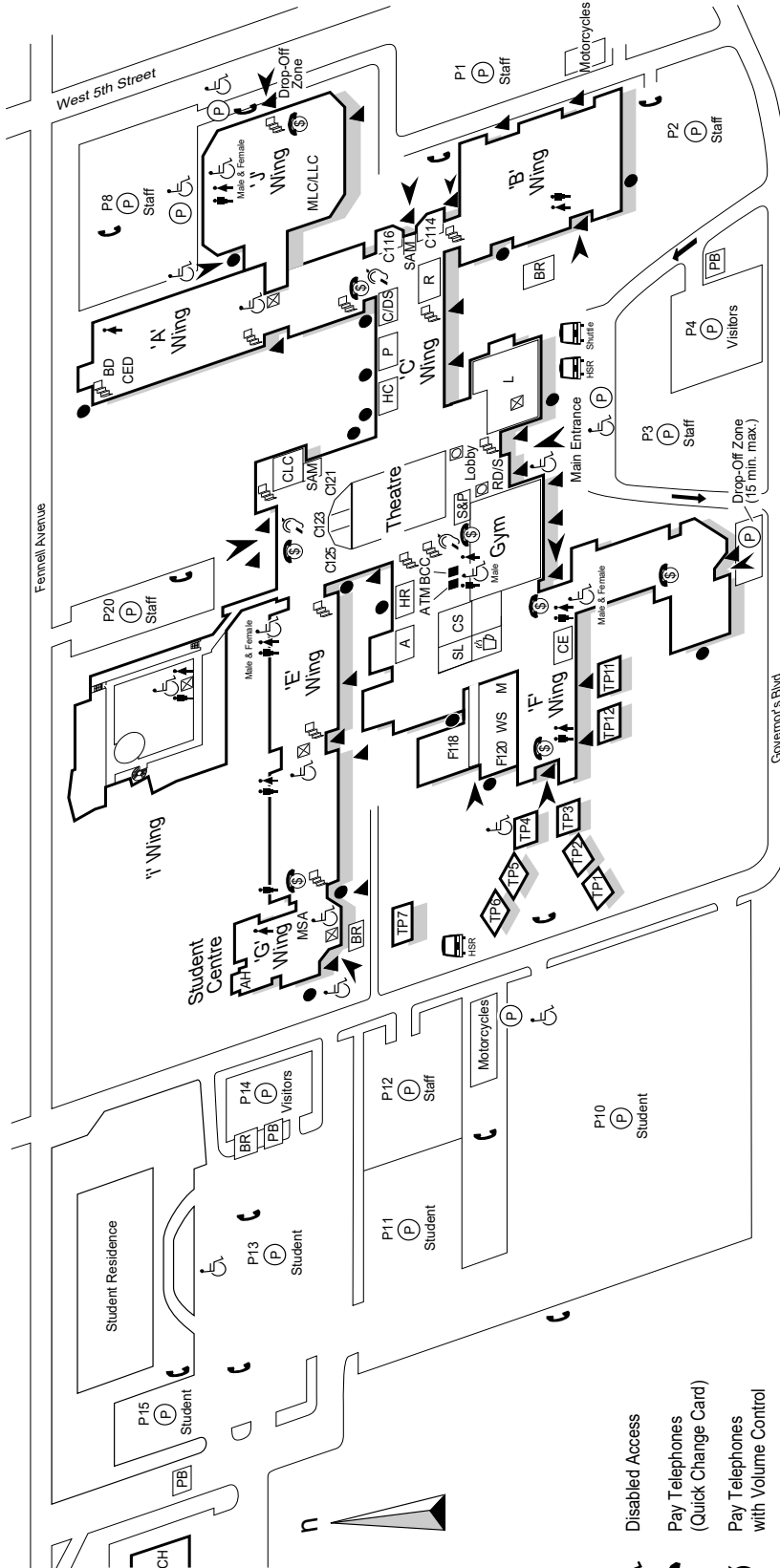
Main Security Desk-----Dial 55 on College phones

Main Security Desk-----Press the *Emergency* button on Bell pay phones

Non-Emergency Situations

Main Security Desk-----Dial 2003 on College phones

Main Security Desk-----Dial 905-575-2003 on other phone

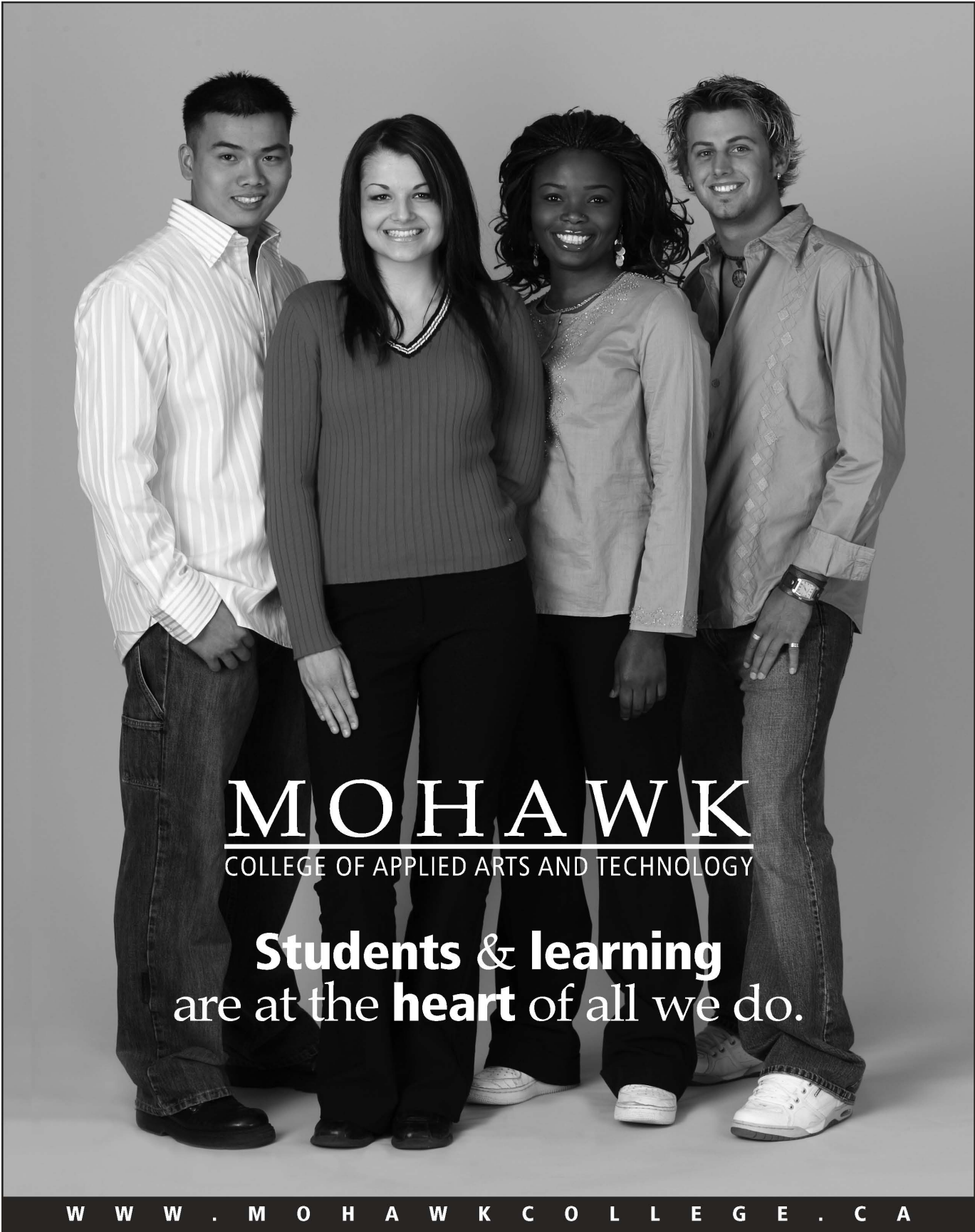


Fennell Campus

MAIN FLOOR

Code	Room Name	Code	Room Name	Code	Room Name	Code	Room Name
A	Accounting	CE	Continuing Education	RD/S	Reception Desk/Security	R	R
AH	Alumni Hall	C/DS	Counselling/Disability Services	R	Registrar	MLC/LLC	MLC/LLC
ATM	Automated Teller Machine	HSR	Hamilton Street Railway	S&P	Math & Literacy Learning Centre	S&P	S&P
BCC	Bell Calling Card Machine	HC	Health Clinic	Security & Parking	Security & Parking	SAM	SAM
BR	Bicycle Rack	HR	Human Resources	Student Access Module	Student Access Module	SL	SL
BD	Business Development	L	Library	Student Life	Student Life	TP	TP
CS	Campus Store (Bookstore)	M	M.C.A.C.E.S.	Temporary Portables	Temporary Portables	TP	TP
CED	Community/Economic Development	MSA	Mohawk Student Association	Walk Safe Program	Walk Safe Program	WS	WS
CLC	Computer Learning Centre	PB	Parking Booth				
CH	Conference House	P	President's Office				

- Disabled Access
- Pay Telephones (Quick Change Card)
- Pay Telephones with Volume Control
- Washrooms
- Accessible Washrooms
- Elevator
- Wheelchair Lift
- Parking (General Parking P10, P11, P13, P15)
- Entrances
- Emergency Phones
- Smoking Area
- Non-Smoking Area



MOHAWK

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

Students & learning
are at the **heart** of all we do.

W W W . M O H A W K C O L L E G E . C A

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McMaster: Andy Hrymak, Susan Masten

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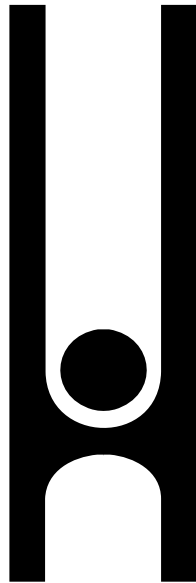
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Helen Martin
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Rachel Anscomb
Carlos Arias
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*The Halton District School Board
would like to congratulate
all participating students in the 2006
Bay 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

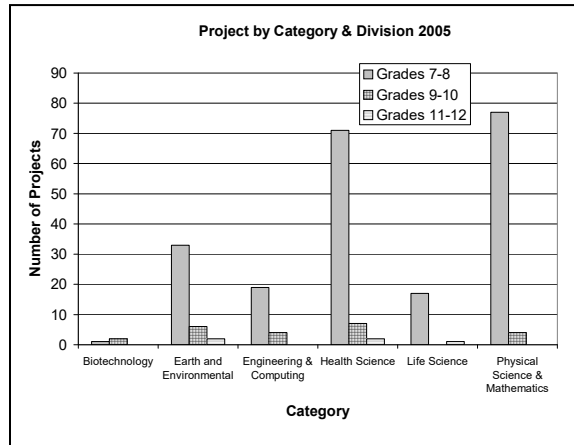
Hypothesis

- 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



BASEF students and fellow Team Canada members preparing to take on the world at IISEF 2005 in Phoenix, Arizona.



*Team BASEF 2005
Vancouver, British Columbia*

Conclusions

- 375 students from 62 schools with 246 projects
- Over \$212,000 in awards
- 24 BASEF students won Grand Prize Trip Awards
- BASEF was the #1 Regional fair team at CWSF 2005 in Vancouver, B.C.
- BASEF student was the top Canadian entry at Intel IISEF 2005 in Phoenix, Arizona
- BASEF student won Best in Fair at CWSF

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

Acknowledgements

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

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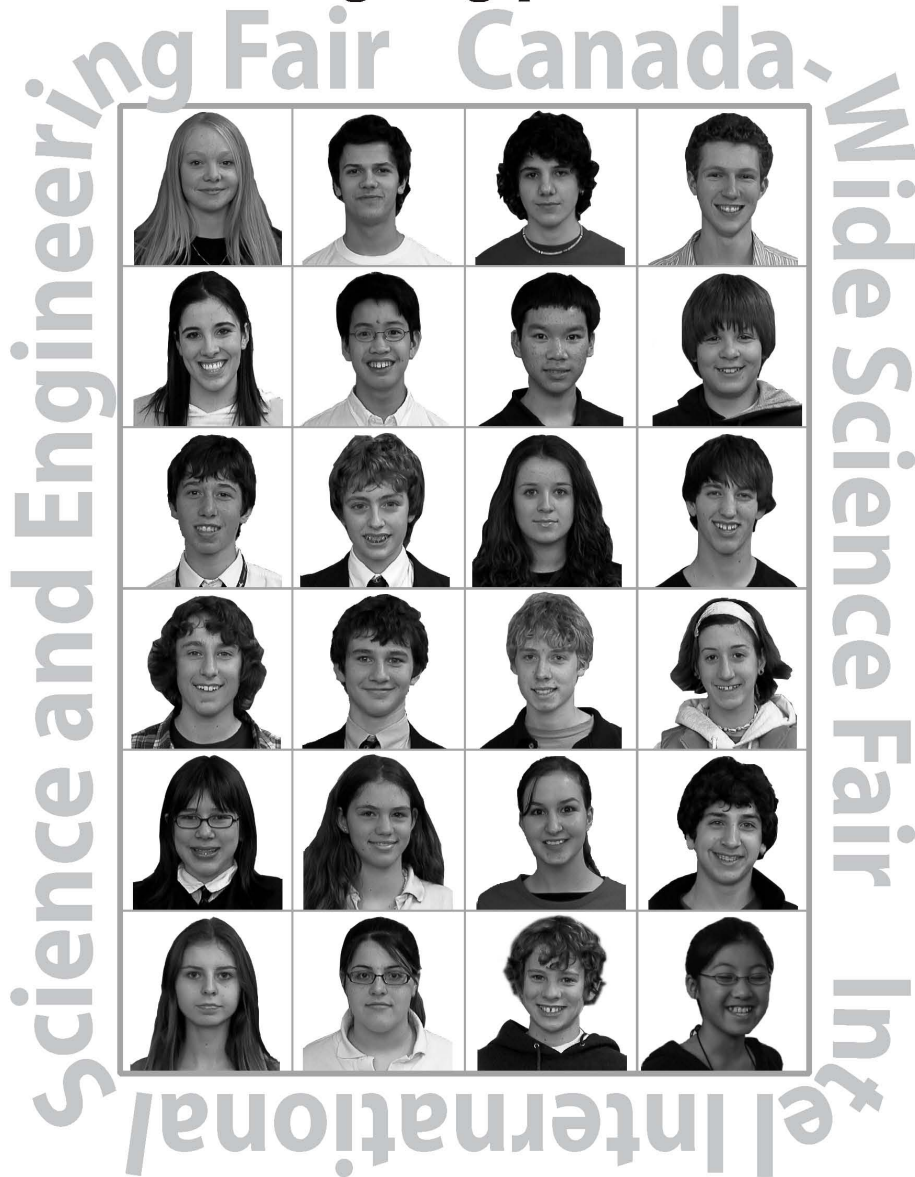
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BASEF 2005 Trip Award Winners

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ACTIVITY DAY



Parks
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Parcs
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As another incentive, we offer all of our participants an Activity Day event. Activity day was established as a reward for our hardworking, budding scientists and engineers. Students have the opportunity to relax after the stresses of judging day, can meet other students interested in science and technology, and take part in some fun and educational events.



A fun filled day is being offered to the students at the Canada Marine Discovery Centre located at 57 Guise Street on Hamilton harbour. Our day will cover work stations in Geothermal Heating and Cooling Systems, Migration Headache Game, Will your vessel master the Seven Seas, Build an Igloo, Sila Climate Change Exhibit, Pond and Prairie Talks, Haida Presentation, Hamilton Harbour to the Oceans Depths, being a National Park Warden and having guest speakers from their field on their specializations. Activity Day is free and includes transportation and admission. Students must provide their own lunch.

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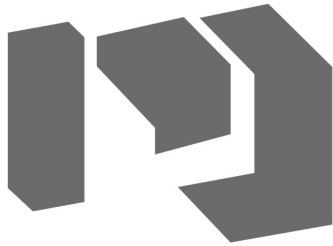
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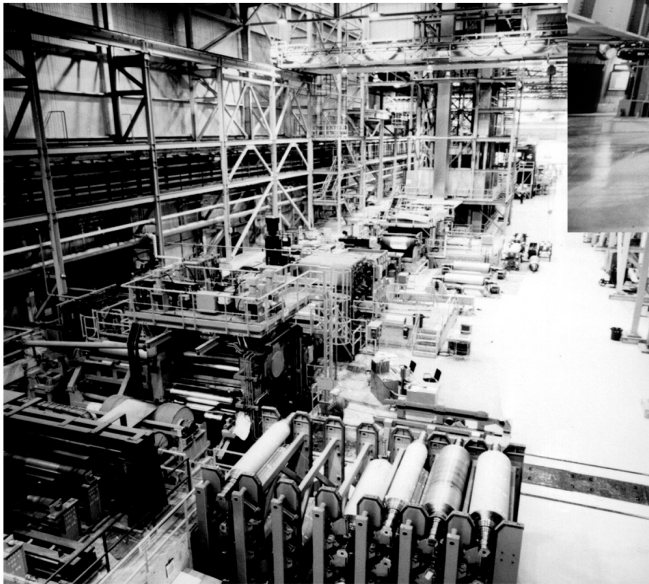
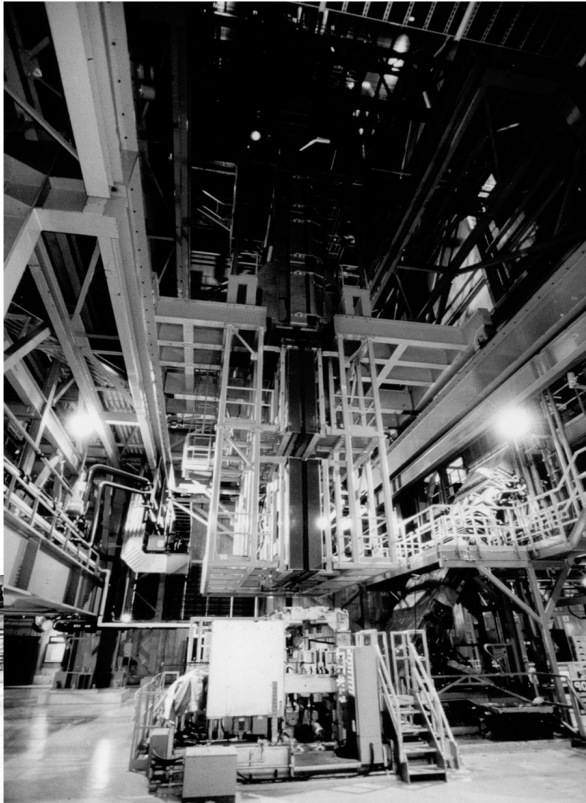
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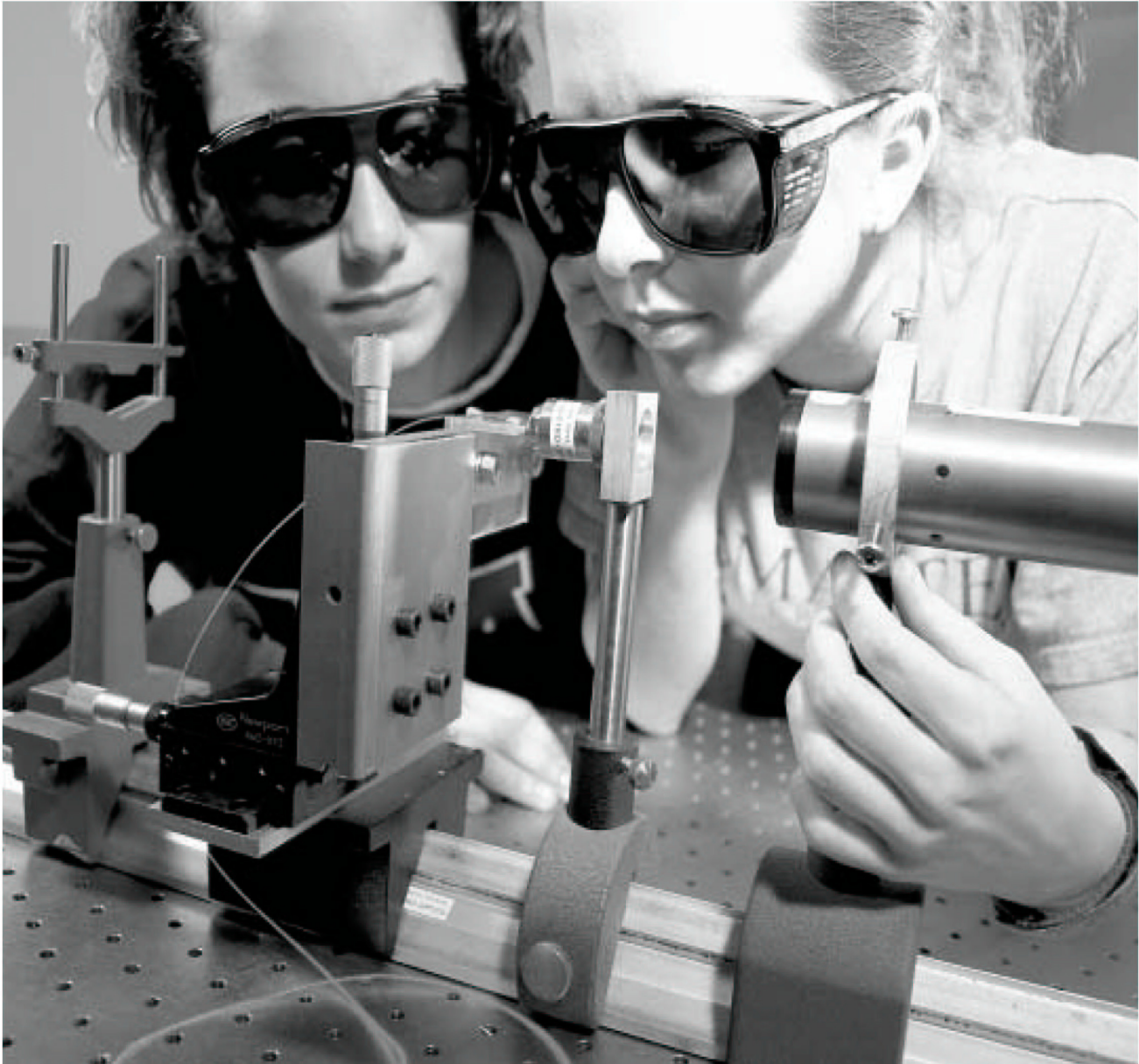
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Jacobs, Stephen	Nelson, Brian Dofasco Inc	Hagopian, Craig GenFast Manufacturing Company	Leanage, Ramani Hamilton-Wentworth Catholic School Board
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Perchaluk, Brett Clarifica Water Resources			

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Nicola Simmons, Dr. Pippa Lock

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TBA

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Ishwar Singh, Herb Sinnock

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Sandy Walker

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David Howard

Professional Engineers of Ontario - Oakville

Cindy Storr, Tamara Wilson

Safety Management Software

David Thurlow

SciTech Awards

Wuchow Than

All other Awards (Floating Judges)

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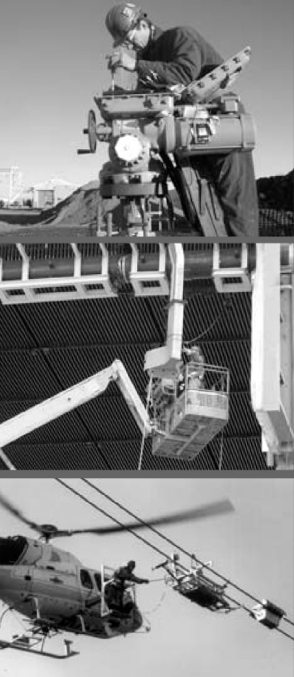
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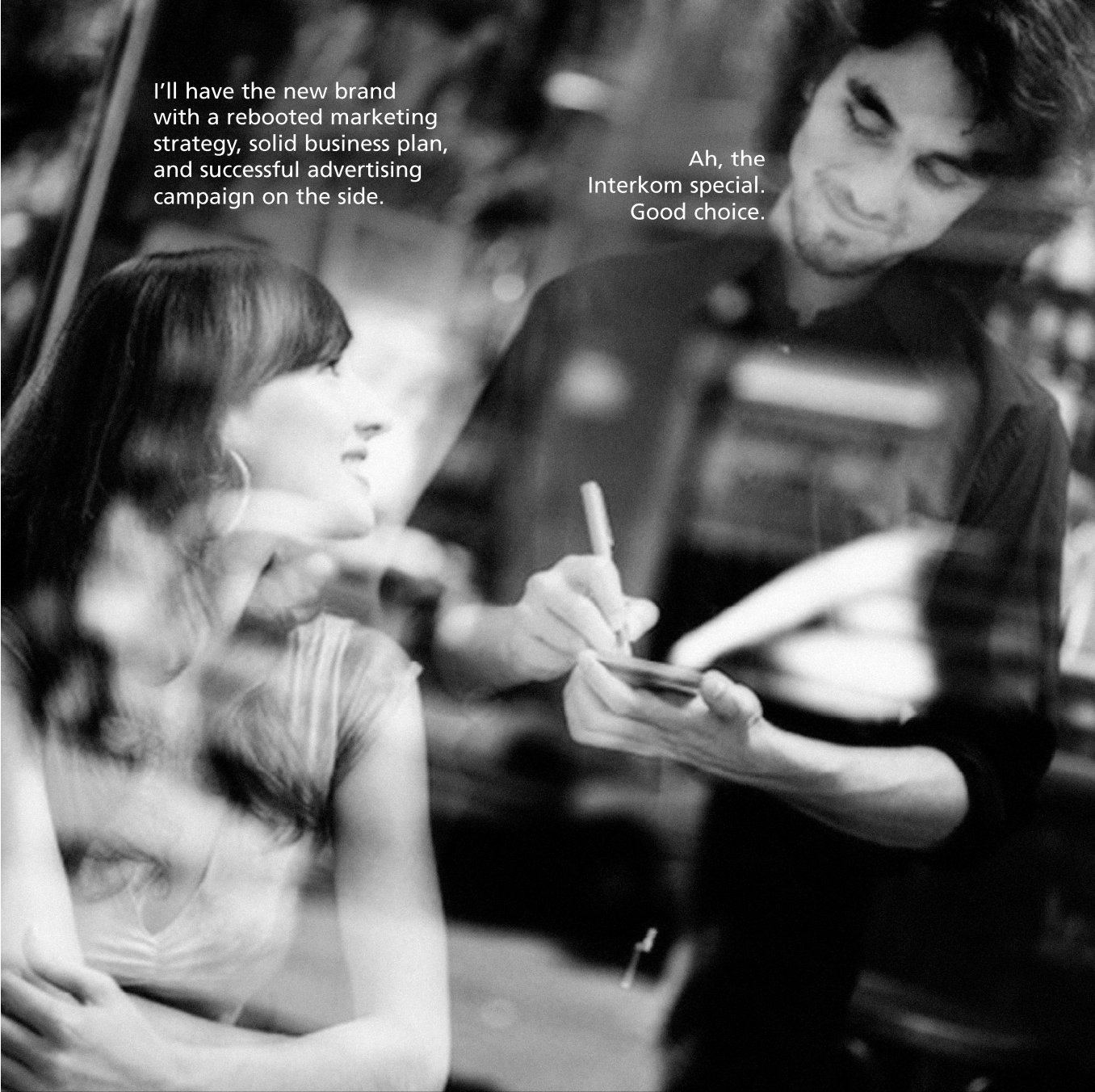
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Selvaggio Kyana	F16	Stevens Sean	L09	Terziev Karlee	P10	Witt Josiah	C17
Selvaggio Anthony	F18	Stevens Laura	Q12	Thomas Shanika	C14	Wood Andrew	A12
Setter Simone	E11	Stewart Eryn	L15	Tith Peeto	E09	Woodworth Carlie	C13
Sheppard Keith	G15	Stewart David	L19	Tribble Garrett	I20	Yaqoob Maha	A17
Sian Jeevan	B15	Stoicheci Andrew	Q11	Vaidya Shalvaree	M11	Yellin Robert	F03
Singh Justin	Q11	Stojanovic Milica	I05	Valeri Cristina	Q20	Young Paul	B14
Sinke Arie	G16	Strub Adam	F03	Virag Celina	N08	Zhang David	I07
Sinke Ian	G17	Suciu Maria	N09	Vrankulj Victor	M10	Zhao Xiong	M07
Skrtic Annamaria	N07	Sullivan Katie	K20	Walchuk Mercedes	J04	Zheng Jiashu	I17
Slowka Steven	N13	Summers Ian	D10	Walker Cameron	A09	Zhou Helena	E08
Slye Stephanie	P15	Sur Romita	A08	Walker Katie	D14	Zians Avi	F04

Congratulations to all BASEF 2006 participants!

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Registration

		N01 N02	N03 N04	N05 N06	N07 N08	N09 N10		
	<u>Mezzanine</u>			P05 P06	P07 P08	P09 P10		
				Q05 Q06	Q07 Q08	Q09 Q10		
							<u>Main Gym</u>	
X		A01 A02	A03 A04	A05 A06	A07 A08	A09 A10		
		Safety Check Table Fix It Table			Sponsor Displays Activity Day Table			X
M12								
M11		D01 D02	D03 D04	D05 D06	D07 D08	D09 D10		
M10		E01 E02	E03 E04	E05 E06	E07 E08	E09 E10		
M09								
M08		F01 F02	F03 F04	F05 F06	F07 F08	F09 F10		
M07		G01 G02	G03 G04	G05 G06	G07 G08	G09 G10		
M06								
M05		H01 H 02	H03 H04	H05 H06	H07 H08	H09 H10		
M04		I01 I02	I03 I04	I05 I06	I07 I08	I09 I10		
M03								
M02		J01 J02	J03 J04	J05 J06	J07 J08	J09 J10		
M01		K01 K02	K03 K04	K05 K06	K07 K08	K09 K10	X	
exit		L01 L02	L03 L04	L05 L06	L07 L08	L09 L10		

NOTES: X = Fire Extinguishers

Electrical projects are in Rows A, L, M, N

	N11 N12	N13 N14	N15 N16	N17 N18	N19 N20
	P11 P12	P13 P14	P15 P16	P17 P18	P19 P20
	Q11 Q12	Q13 Q14	Q15 Q16	Q17 Q18	Q19 Q20

Main Gym

	A11 A12	A13 A14	A15 A16	A17 A18	A19 A20	
X	B11 B12	B13 B14	B15 B16	B17 B18	B19 B20	exit
	C11 C12	C13 C14	C15 C16	C17 C18	C19 C20	
	D11 D12	D13 D14	D15 D16	D17 D18	D19 D20	Emergency Exits Only; Alarm Will Sound if Opened.
	E11 E12	E13 E14	E15 E16	E17 E18	E19 E20	
	F11 F12	F13 F14	F15 F16	F17 F18	F19 F20	exit
	G11 G12	G13 G14	G15 G16	G17 G18	G19 G20	
	H11 H12	H13 H14	H15 H16	H17 H18	H19 H20	exit
	I11 I12	I13 I14	I15 I16	I17 I18	I19 I20	
X	J11 J12	J13 J14	J15 J16	J17 J18	J19 J20	exit
	K11 K12	K13 K14	K15 K16	K17 K18	K19 K20	
	L11 L12	L13 L14	L15 L16	L17 L18	L19 L20	X

Non-Electrical Sites

EXHIBITOR LISTING

A01, Bacteria At It's Best
Karlee Martin, Joseph Martin
J 7-8, Life Sciences
Oliver M. Smith Kawennio, SNS

A02, Affecting Aging: Protection of
cSOD-deficient Drosophila from
Oxidative Stress
Aaron Hakim
I 9-10, Life Sciences
Appleby College, Independent

A03, Which water would you rather?
Colin Salter
J 7-8, Life Sciences
Appleby College, Independent

A04, Driving Under the Influence of Cell
Phones
Abdullah Malik
J 7-8, Health Sciences
Rotherglen School (Oakville),
Independent

A05, RAKU
Calum Matthews
I 9-10, Physical Sciences & Math
Hillfield Strathallan College, Independent

A06, Which type/size light bulb produces
the most light?
Samuel Habicht
J 7-8, Physical Sciences & Math
Home Schooling, Independent

A07, Effect of Pollution on Aquatic Life
Lauren Bursey
I 9-10, Earth and Environmental
Hillfield Strathallan College, Independent

A08, TUMOR ANGIOGENESIS AND
INHIBITORS- Targeted Therapy in
Cancer
Romita Sur
J 7-8, Health Sciences
Hillfield Strathallan College, Independent

A09, Eat Better, Be Better
Cameron Walker, Elliott Cheeseman
J 7-8, Health Sciences
Oakville Christian School, Independent

A10, White Noise- Does it Help?
Hunter Lee
J 7-8, Health Sciences
Hillfield Strathallan College, Independent

A11, Tag! You're It
Emmaline Houston
I 9-10, Engineering and Computing
Hillfield Strathallan College, Independent

A12, Wind Generators - harnessing the
power of the wind
Andrew Wood
J 7-8, Engineering and Computing
Oakville Christian School, Independent

A13, Magnetic Materials
Ivan Surnin
S 11-12, Physical Sciences & Math
Appleby College, Independent

A14, Beauty Is In The Arch Of The
Beholder
Lora Capobianco
I 9-10, Engineering and Computing
Hillfield Strathallan College, Independent

A15, Raise Your Voice
Grace Latimer, Alison Castle
J 7-8, Health Sciences
Hillfield Strathallan College, Independent

Congratulations to all BASEF 2006 participants and
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Chair of the Board



Lou Piovesan
Director of Education

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EXHIBITOR LISTING continued...

A16, 3 Bit Binary Adder
Yiyong Lok
J 7-8, Engineering and Computing
Rotherglen School (Oakville),
Independent

A17, Fight BAC!
Maha Yaqoob
J 7-8, Health Sciences
Sir Wilfrid Laurier, HWDSB

A18, Cokeacola
Kate Harrison, Jennifer Ehrenstrom
J 7-8, Physical Sciences & Math
Dundas District, HWDSB

A19, The Basics of the Desktop: Part I
Devin Binnie
J 7-8, Engineering and Computing
Dalewood, HWDSB

B11, Development of Bacterial
Resistance Versus Different Dilutions of
Disinfectants
Ayesha Dost
S 11-12, Life Sciences
Abbey Park High School, HDSB

B12, A study of the antibacterial
effectiveness of household cleaners
James Goacher, Slavena Petrov
I 9-10, Life Sciences
Abbey Park High School, HDSB

B13, Chronobiology: Circadian Rhythms
Noel Sardana, Tyler Bao
S 11-12, Health Sciences,
Abbey Park High School, HDSB

B14, An investigation of aspartame
Jimmy Tat, Paul Young
S 11-12, Physical Sciences & Math
Abbey Park High School, HDSB

B15, The Effects of Sports Drinks
Mark Gill, Jeevan Sian
S 11-12, Health Sciences
Abbey Park High School, HDSB

B16, Caffeine, The Silent Killer?
Mark Lauzon, Eleni Kelly
I 9-10, Health Sciences
Abbey Park High School, HDSB

B17, The essence of bioluminescence
Gary Tam
I 9-10, Biotechnology
Abbey Park High School, HDSB

B18, Oxidation of Different Metals
Mike Small
J 7-8, Physical Sciences & Math
Ancaster Senior, HWDSB

B19, Run to Remember
Cyrus Montazemi, Ruth Matthew
J 7-8, Health Sciences
Ancaster Senior, HWDSB

B20, Dissolution rate of Ibuprofen,
Acetaminophen and Multivitamin
David Hakim
J 7-8, Health Sciences
Appleby College, Independent

C11, Hot and Cold - Thermoregulation of
a twelve-year-old male
Max Humber
J 7-8, Health Sciences
Balaclava, HWDSB

C12, Fingerprint Frenzy
Evelyn Pyper, Ellen Hyslop
J 7-8, Physical Sciences & Math
Balaclava, HWDSB



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Foster an environment that encourages creativity and inspires people to make a difference.
Recognize and reward excellence, effort and innovation.
Encourage thoughtful experimentation and challenge routine.
Adapt best practices in enhancing our mission.

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.
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EXHIBITOR LISTING continued...

C13, Invisible Ink Investigation
Alyssa Holmes, Carlie Woodworth
J 7-8, Physical Sciences & Math
Balaclava, HWDSB

C14, Bend it with Science
Shanika Thomas
J 7-8, Physical Sciences & Math
Balaclava, HWDSB

C15, Fruit and Veggie Power
Taylor Burch, Joy MacDonald
J 7-8, Physical Sciences & Math
Balaclava, HWDSB

C16, Comet Catastrophe
Areya Bartlett, Collin Chau
J 7-8, Physical Sciences & Math
Bennetto, HWDSB

C17, Botanical Chromatography
Josiah Witt, Ishmam Hasan
J 7-8, Life Sciences
Bennetto, HWDSB

C18, Managing Greenhouse Gas
Exchange in a Constructed Wetland
Model: Part 2
Madeleine Martin
S 11-12, Earth and Environmental
Bishop Ryan High School, HWCDSB

C19, Concrete Differences
Peter MacCauley
I 9-10, Physical Sciences & Math
Bishop Tonnos High School, HWCDSB

C20, Tornadoes
Chantal Hennigar
J 7-8, Earth and Environmental
Burlington Christian Academy,
Independent

D01, Catecholamine Regulated Protein
(CRP40) knockdown using CRP40
antisense, results in abnormal behaviour:
Possible implic
Nicole Gabriele
S 11-12, Life Sciences
Cardinal Newman High School,
HWCDSB

D02, Math Assessment preparation
Techniques as Homework
Matt Weber, Kylie de Chastelain
J 7-8, Health Sciences
Centennial Public School, HDSB

D03, Household killers
Jimmy He, Robert Gagnon
J 7-8, Life Sciences
Charles R. Beaudoin Public School,
HDSB

D04, Germination of the Future
Stephanie Lewis, Matthew Smart
J 7-8, Life Sciences
Charles R. Beaudoin Public School,
HDSB

D05, What is Phynolthalian?
Marissa Blanchard, Steven Murray
J 7-8, Physical Sciences & Math
Charles R. Beaudoin Public School,
HDSB

D06, Insulation, Keeping in the Hot and
the Cold
Steven Long
J 7-8, Physical Sciences & Math
Dalewood, HWDSB

Edward Oldham

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Good luck to all participants !

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EXHIBITOR LISTING continued...

D07, Salty Solutions
Jeffrey Behan, Haakim Nainar
J 7-8, Physical Sciences & Math
Dalewood, HWDSB

D08, Let it Bloom
Grace Davidson, Rosemary Hopkins
J 7-8, Life Sciences
Dalewood, HWDSB

D09, Dinner's Ready, Wash Your Hands
Matthew Smith
J 7-8, Health Sciences
Dalewood, HWDSB

D10, Why do apples turn brown?
Ian Summers
J 7-8, Biotechnology
Dalewood, HWDSB

D11, Gripping Grass
Lauren Brooks, Keira McKee
J 7-8, Earth and Environmental
Dalewood, HWDSB

D12, Yum, Candy!
Sarah Craske
J 7-8, Health Sciences
Dundas District, HWDSB

D13, Could more steps a day keep the weight away?
Adam Anderson
J 7-8, Health Sciences
Dundas District, HWDSB

D14, CSI investigation
Katie Walker, marija petrovic
J 7-8, Physical Sciences & Math
Dundas District, HWDSB

D15, Date Rape Drugs: Can They Be Detected?
Anne Marie Child
I 9-10, Physical Sciences & Math
Westdale High School, HWDSB

D16, Which Water Grows The Best
Gareth Martin
J 7-8, Life Sciences
Dundas District, HWDSB

D17, Sea Sponge as an Installater?
Joanna Rees
J 7-8, Physical Sciences & Math
Dundas District, HWDSB

D18, Molding of Hambergers
Candice Evans, Tyler Bigden
J 7-8, Life Sciences
Dundas District, HWDSB

D19, Trebuchet or not?
Johnathan Bello, Lee Hughes
J 7-8, Engineering and Computing
Dundas District, HWDSB

D20, Don't judge a book by it's colour
McKenna Gray, Taylor Wilson-Sipkema
J 7-8, Health Sciences
Eastview Public School, HDSB

E01, Mercury Content in Hamilton Harbour Fish
Aman Dhillon
S 11-12, Earth and Environmental
Glendale High School, HWDSB

E02, Extracting DNA From a Kiwi
Jordana Faruqi
J 7-8, Life Sciences
Glenburnie School, Independent

E03, Aquatic Respiration
Holly Fortier, Teija Bean
J 7-8, Life Sciences
Glenburnie School, Independent

E05, Magnetic Movers
Christine Bancroft
J 7-8, Engineering and Computing
Glenburnie School, Independent

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Tel: 905-522-5220 Fax: 905-572-9166 Email: info@hhca.ca

EXHIBITOR LISTING continued...

E06, The Baghdad Battery
A.J. Cook
J 7-8, Engineering and Computing
Glenburnie School, Independent

E07, A Puppet Without Strings
Zahra Raza, Safa Al-Shammary
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E08, Wanna Eat It? How About Now?
Helena Zhou, Dona Miftari
J 7-8, Life Sciences
Elizabeth Bagshaw, HWDSB

E09, Shock Waves
Aris Damianopoulos, Peeto Tith
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E10, Bounce! Bounce! Bounce!
Michael Gallaughier
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E11, Perfect Pitch
Simone Setter
J 7-8, Health Sciences
Elizabeth Bagshaw, HWDSB

E12, Red Light, Green Light
Weiler Courtney, Marina Dalglish
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E13, Save a Sailor's Life
Aus Ali, Ismail Hegazi
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E14, This Will Shock You
Erin Roman, Paige Walker
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E15, The Co2 Boat
Kyle O'Connor, Fraz Ahmad
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E16, Stalactites and the Effects of String
Length
Kevin Grove, Daniel Jung
J 7-8, Earth and Environmental
Elizabeth Bagshaw, HWDSB

E17, The Nose Knows
Shayla O'Rourke, Clara Luca
J 7-8, Health Sciences
Elizabeth Bagshaw, HWDSB

E18, North South
Ana-Maria Gligor
J 7-8, Physical Sciences & Math
Elizabeth Bagshaw, HWDSB

E19, Dreams And You
Joseph Drake
J 7-8, Health Sciences
Eastview Public School, HDSB

E20, What to Clean With
Thomas Dobronyi, Connor Freeman
J 7-8, Life Sciences
Eastview Public School, HDSB

F01, Effects of Alpha Thalassemia
Simone Liang, Christina Tan
S 11-12, Health Sciences
Glendale High School, HWDSB

F02, Green Day Vs. Slimshady Does the
Genre of music affect plant growth
Alex Gould, Max Martin
J 7-8, Life Sciences
Hamilton Hebrew Academy Zichron Meir
School, Independent

F03, What Affects Your Energy?
Robert Yellin, Adam Strub
J 7-8, Health Sciences
Hamilton Hebrew Academy Zichron Meir
School, Independent


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EXHIBITOR LISTING continued...

F04, A Good Food to Eat
Theodore Kravetsky, Avi Zians
J 7-8, Health Sciences
Hamilton Hebrew Academy Zichron Meir
School, Independent

F05, Hamburger Helper
Zack Feldman, Aaron Barwin
J 7-8, Health Sciences
Hamilton Hebrew Academy Zichron Meir
School, Independent

F06, The Sinking Success
Eliana Glogauer, Sarah Kohenzadeh
J 7-8, Health Sciences
Hamilton Hebrew Academy Zichron Meir
School, Independent

F07, Ice Melters
Andrew Boivin
J 7-8, Physical Sciences & Math
Hawthorne Village Public School, HDSB

F08, Maze Walking A.I Robot
Nicholas Weaver
I 9-10, Engineering and Computing
Highland Secondary, HWDSB

F09, Green Day
Amelia Mannarino
J 7-8, Life Sciences
Hillfield Strathallan College, Independent

F10, Is school healthy?
Maddison Neate, Kristen Packham
J 7-8, Life Sciences
Hillfield Strathallan College, Independent

F11, Memory Chocolate
Sharaya Jones
J 7-8, Health Sciences
Hillfield Strathallan College, Independent

F12, Truss Strength
Michael Malott, William Montour
I 9-10, Engineering and Computing
Hillfield Strathallan College, Independent

F13, Effects on Solutes During and After
Freezing
Lucas Currah, Chris Morgan
I 9-10, Physical Sciences & Math
Hillfield Strathallan College, Independent

F14, They help you with your homework,
but are a hindrance to your health
Francesca Gottschalk, Lara Owsianik
I 9-10, Life Sciences
Hillfield Strathallan College, Independent

F15, How Chocolate Effects Heart Rate
Alison Ower, Sarah Robson
I 9-10, Health Sciences
Hillfield Strathallan College, Independent

F16, Tasty Tactiles
Kyana Selvaggio
J 7-8, Health Sciences
Holy Name of Jesus, HWCDDB

F17, Chemistry and Distilled Water
Marina Ghtas
J 7-8, Physical Sciences & Math
Holy Name of Jesus, HWCDDB

F18, Flying Paper Clips
Julian Chrucki, Anthony Selvaggio
J 7-8, Physical Sciences & Math
Holy Name of Jesus, HWCDDB

F19, Energize Me
Adam Lipari
J 7-8, Health Sciences
Holy Name of Jesus, HWCDDB

F20, Can You Hear Me Now ?
Chanise Taylor, Daniella DeSarno
J 7-8, Health Sciences
Holy Name of Jesus, HWCDDB

G01, Effective Reflectors
Michael Peto
J 7-8, Physical Sciences & Math
Oakville Christian School, Independent

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EXHIBITOR LISTING continued...

G02, Bacterial Backwash
Caroline Walker
J 7-8, Health Sciences
Oakville Christian School, Independent

G03, Optical Illusions
Laura Orfei, Christina Romano
J 7-8, Health Sciences
Mother Teresa, HWCDSB

G04, On Your Mark, Get Set, Launch!
Graeme Milligan, Jason Saltarelli
J 7-8, Physical Sciences & Math
Mother Teresa, HWCDSB

G05, An Analysis of Breakfast & School
performance
Monika Roupra
J 7-8, Health Sciences
Memorial (County), HWDSB

G06, How the Temperature of Water
Effects How Fast it Freezes
Meghan Miholics
J 7-8, Physical Sciences & Math
Memorial (City), HWDSB

G07, Mold Anyone?
Victoria Hamilton
J 7-8, Life Sciences
Memorial (City), HWDSB

G08, Super Paper Towel
Maddison Bainbridge, Hayley Nixon
J 7-8, Physical Sciences & Math
Memorial (City), HWDSB

G09, Brain Busters
Jesse Nowakowski, Chase Duthie
J 7-8, Health Sciences
Memorial (City), HWDSB

G10, Our crutch versus their crutch
Sakura Brunette, Anisa Fleet
J 7-8, Engineering and Computing
Memorial (City), HWDSB

G11, Ice Melters
Wesley Nantais, Benjamin Fok
J 7-8, Physical Sciences & Math
Memorial (City), HWDSB

G12, Fly Away
Ryan Cornell
J 7-8, Engineering and Computing
Memorial (City), HWDSB

G13, What Body Of Water Is More
Polluted Bayfront Or Confederation
Ryan Smith
J 7-8, Earth and Environmental
Memorial (City), HWDSB

G14, Mold
Lindsay Charles
J 7-8, Life Sciences
Lisgar, HWDSB

G15, Magnetic Linear Accelerator
Keith Sheppard, Zakariya Gatannesh
J 7-8, Physical Sciences & Math
Lisgar, HWDSB

G16, Minimizing the effects of road
construction on natural heritage
Arie Sinke
I 9-10, Earth and Environmental
Home Schooling, Independent

G17, How Does Multiparity Affect
Longevity?
Ian Sinke
J 7-8, Health Sciences
Home Schooling, Independent

G18, Tin Foil Shocks Me!
Emily Barbosa
J 7-8, Physical Sciences & Math
Home Schooling, Independent



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EXHIBITOR LISTING continued...

G19, What A Pain
Christine MacCauley
J 7-8, Health Sciences
Holy Spirit, HWCDSB

G20, The Nose Knows
Katie Foster
J 7-8, Health Sciences
Holy Name of Jesus, HWCDSB

H01, Sound Barriers - Hot... or Cold?
Stephanie Collins
J 7-8, Engineering and Computing
Oakville Christian School, Independent

H02, Stop the Flood! What Material Stops
Flood Waters Best?
Jenny Chambers
J 7-8, Earth and Environmental
Oakville Christian School, Independent

H03, Katrina what went wrong?
Natasha McNamara
J 7-8, Earth and Environmental
Oakville Christian School, Independent

H04, Living Water
Alex Hume
J 7-8, Life Sciences
Oakville Christian School, Independent

H05, Head to Head
Will Cox
J 7-8, Earth and Environmental
Oakville Christian School, Independent

H06, Covered in Flames! Walls to
Blame?
James Davis
J 7-8, Physical Sciences & Math
Oakville Christian School, Independent

H07, Are You Protected?
Emily Fyfe
J 7-8, Health Sciences
Oakville Christian School, Independent

H08, You Are What You Breathe
Matthew Girgis
J 7-8, Earth and Environmental
Oakville Christian School, Independent

H09, IAQ & YOU
Allison Borges, Nikita Borges
I 9-10, Earth and Environmental
Oakville Trafalgar High School, HDSB
Iroquois Ridge High School

H10, How Do Planes Fly
Antonio Acocella
J 7-8, Physical Sciences & Math
Regina Mundi, HWCDSB

H11, Water Works
Melissa Duque, Abbey Cullen
J 7-8, Life Sciences
Regina Mundi, HWCDSB

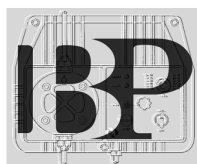
H12, Turn It Up - A Study on Music and
Homework
Kristina Adera
J 7-8, Health Sciences
Regina Mundi, HWCDSB

H13, Are you water wise?
Justin Fortino, Jessica Mahler
J 7-8, Earth and Environmental
Regina Mundi, HWCDSB

H14, Timing Isn't Everything
Emily O'Rourke, Sarah McCrackin
J 7-8, Health Sciences
Regina Mundi, HWCDSB

H15, Greener Side-Up
Kelly de Koning
J 7-8, Earth and Environmental
Regina Mundi, HWCDSB

H16, Video Games Affecting Reflexes
Nick Galle, Stephen Cho
J 7-8, Health Sciences
Rotherglen School (Oakville),
Independent



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***Best wishes
good luck
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EXHIBITOR LISTING continued...

H17, Fertilizer: Friend or Foe
Jack Mather
J 7-8, Earth and Environmental
Rotherglen School (Oakville),
Independent

H18, Parachute Power
Stephanie Petrie
J 7-8, Physical Sciences & Math
Rotherglen School (Oakville),
Independent

H19, Crazy Carbonation
Stephanie Scicluna, Janelle Eberly
J 7-8, Physical Sciences & Math
Rotherglen School (Oakville),
Independent

H20, Out of Step
Hanna Blades, Christine Brown
J 7-8, Health Sciences
Rotherglen School (Oakville),
Independent

I01, Water Purification (a solution for
people in need)
Evan Richardson, Kamil Surmanski
S 11-12, Earth and Environmental
St Jean de Brébeuf, BHNCDSB

I02, STRESSED OUT
Andrew Steele, Patrick McCulloch
J 7-8, Engineering and Computing
Sir Wilfrid Laurier, HWDSB

I03, Butt Out!
Bailey Cohoe, Carly Dziob
J 7-8, Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

I04, Vitamin C is the Key
Aisha Hassan, Elizabeth Smith
J 7-8, Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

I05, R-O-L-A-I-D-S Spells Relief
Ivana Petrovic, Milica Stojanovic
J 7-8, Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

I06, Detergents and Pond Life
Lana Abdulrahman, Jordan Laffrenier
J 7-8, Earth and Environmental
Sir Wilfrid Laurier, HWDSB

I07, Minimize Me
David Zhang, Brian Phan
J 7-8, Life Sciences
Sir Wilfrid Laurier, HWDSB

I08, Got Gas
Sally Chau, Amina Masoomy
J 7-8, Physical Sciences & Math
Sanford Avenue, HWDSB

I09, Gasahol
Jamie-Leigh Hatherley, Abdullah Aftab
J 7-8, Biotechnology
Sanford Avenue, HWDSB

I10, Up, Up and Away
Angelica Martinez
J 7-8, Physical Sciences & Math
Sacred Heart, HWCDSB

I11, Flushing the Truth
Dara Melanson
J 7-8, Life Sciences
Sacred Heart, HWCDSB


I12, Beat the Bird Flu
Scott MacPherson
J 7-8, Health Sciences
Sacred Heart, HWCDSB

I13, Bacteria Growing in Your Shoes?
Nikki Arellano
J 7-8, Life Sciences
Sacred Heart, HWCDSB

**Congratulations
and good luck
to all participants in the
2006 Bay Area Science and
Engineering Fair!**



**Optimist Club
of Stoney Creek**



www.hamiltoncaer.com
Community Awareness and Emergency Response (CAER) is a community-based volunteer organization that has been established since 1980. CAER members plan, practice and co-ordinate activities to enhance safe operating practices and reduce the risk of emergency situations that could threaten the Hamilton-Wentworth Community

EXHIBITOR LISTING continued...

I14, What's On Your Finger?
 Connor Sekac
 J 7-8, Health Sciences
 Sacred Heart, HWCDSB

I15, Blood Clots
 Amanda Misale
 J 7-8, Health Sciences
 Sacred Heart, HWCDSB

I16, RedBull a load of bull?
 Madeline Hourmouzis
 J 7-8, Health Sciences
 Ryerson, HWDSB

I17, IQ, your report card too?
 Jiashu Zheng
 J 7-8, Health Sciences
 Ryerson, HWDSB

I18, The Strengthening of Levees
 Emilie Han, Catherine Hodgson
 J 7-8, Earth and Environmental
 Ryerson, HWDSB

I19, Insulation
 Eric Craven
 J 7-8, Physical Sciences & Math
 Rotherglen School (Oakville),
 Independent

I20, A Wormy Situation
 Michael McNeivits, Garrett Tribble
 J 7-8, Earth and Environmental
 Rotherglen School (Oakville),
 Independent

J01, Strollski
 Kayla Carlin, Cassandra Landry
 J 7-8, Engineering and Computing
 St Jean de Brébeuf, BHNCDDB

J02, Oil Spills Affect Marine Life
 Kehlyn Jansen, Jessica Terdik
 J 7-8, Earth and Environmental
 St Jean de Brébeuf, BHNCDDB

J03, Tired Out
 Bronwyn Barlow Cash
 I 9-10, Engineering and Computing
 Westdale High School, HWDSB

Congratulations to all Science Fair participants!

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• Sturgeon Falls	705-753-4355	• N. W. Ontario	204-255-1388

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EXHIBITOR LISTING continued...

J04, Hydraulic Arm
Lauren Camara, Mercedes Walchuk
J 7-8, Engineering and Computing
St Jean de Brébeuf, BHCNDSB

J05, Bouncing Balls
Shayne Allum, Scott Stevenett
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J06, Pop Goes Your Popcorn!
Stephanie Gramigna
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J07, That's the Way the Ball Bounces
Danielle Barbe
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J08, You Spin Me Right Round!
Christa Cameron
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J09, Butt Out
Justin Moros
J 7-8, Health Sciences
St. Agnes, HWCDSB

J10, Musical Mayhem
John Kobernyk, John Murphy
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J11, Cookie Time!
Kristina Ivanis, Jennifer Nguyen
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J12, Soft Flames, Olivia Sehl
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J13, Duct Tape Derby
Matt Prpic, Joseph Botelho
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

J14, TO DYE OR NOT TO DYE
Salvatore Macaluso
J 7-8, Health Sciences
St. Augustine, HWCDSB

J15, Microwave Meltdown
Megan Russell
J 7-8, Physical Sciences & Math
St. Augustine, HWCDSB



CWSF 2005, Vancouver, B.C.



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Today's young scientists need and deserve our encouragement and support

EXHIBITOR LISTING continued...

J16, How Sweet is This?
Philip Gabardo
J 7-8, Physical Sciences & Math
St. Augustine, HWCDSB

K02, How can we make cells turn green?
Adam Austin, Ryan Mintz
J 7-8, Health Sciences
St. Joachim, HWCDSB

K07, Ready,Set,Go
Michael Destro
J 7-8, Physical Sciences & Math
St. Jerome, HWCDSB

J17, Asbestos- The Invisible Enemy!
Katie Pringle
J 7-8, Earth and Environmental
St. Augustine, HWCDSB

K03, Effects Of Exercise On Blood Pressure
Hannah Pigott
J 7-8, Health Sciences
St. Joachim, HWCDSB

K08, That's The Way The Ball Bounces
Brendan Ellingham
J 7-8, Physical Sciences & Math
St. Jerome, HWCDSB

J18, To Resist The Rust...That's A Must
Lana Socha
J 7-8, Earth and Environmental
St. Augustine, HWCDSB

K04, Desalination For The Nations
Daniel Mancini, Ryan Campbell
J 7-8, Physical Sciences & Math
St. Jerome, HWCDSB

K09, Dare to breathe the air?
Christopher Krnezich
J 7-8, Health Sciences
St. Jerome, HWCDSB

J19, Shedding the Lights From Landfill Sites
Patrick Bowman
J 7-8, Earth and Environmental
St. Augustine, HWCDSB

K05, A Tortoise or a Hare?
Understanding How Genetics Affects People's Ability to Metabolize Drugs Differently
Patricia Raso
J 7-8, Health Sciences
St. Jerome, HWCDSB

K10, How You Doing?
Lourdes Pocop
J 7-8, Health Sciences
St. Jerome, HWCDSB

J20, CO On The Go
Matthew Lewis
J 7-8, Health Sciences
St. Augustine, HWCDSB

K06, Living With The Land
Trevor Taibi
J 7-8, Earth and Environmental
St. Jerome, HWCDSB

K11, Waterrific!
Roy Perez, Josh Pietrantonio
J 7-8, Physical Sciences & Math
St. Jerome, HWCDSB

K01, How Do Fatty Foods Affect A Person's Body?
Alison Cruse, Vanessa Biancucci
J 7-8, Health Sciences
St. Joachim, HWCDSB

K12, What Grade Is Your Fruit? C+
Kamila Pogoda
J 7-8, Physical Sciences & Math
St. James the Apostle, HWCDSB



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**The BASEF 2006 participants
gratefully acknowledge the continued
support of our educators!**

EXHIBITOR LISTING continued...

K13, Circuit Training
Megan Mandula
J 7-8, Engineering and Computing
St. James the Apostle, HWCDSB

K14, Think What You Drink
Gregory Campbell
J 7-8, Health Sciences
St. James the Apostle, HWCDSB

K15, Third Class Levers: What's The Use
Anthony Whitwell
J 7-8, Engineering and Computing
St. James the Apostle, HWCDSB

K16, MOO-ve Over Lactose Intolerance
Jenna Frank
J 7-8, Health Sciences
St. James the Apostle, HWCDSB

K17, Someone say Trebuchet?
Michael Brunski, Sean Juen
J 7-8, Engineering and Computing
St. James the Apostle, HWCDSB

K18, Coffee Break
James Rowan
J 7-8, Life Sciences
St. Brigid, HCDSB

K19, Leapin Leotards
Nicole Reid
J 7-8, Health Sciences
St. Augustine, HWCDSB

K20, Hey Mr. DJ SHOULD You Turn The
Music Up?
Katie Sullivan
J 7-8, Health Sciences
St. Augustine, HWCDSB

L01, The Brightness Of A Light Bulb
Brodie Davis, Kevin McKinnon
J 7-8, Physical Sciences & Math
St. Joachim, HWDSB

L02, Improving Solar Desalination
Tobias Williams
J 7-8, Earth and Environmental
Dundas District, HWDSB

L03, Tampon Wars
Malin Schouten, Emily Marks-Cyr
J 7-8, Physical Sciences & Math
Dalewood, HWDSB

L04, Inhibition of Osteoblast
Differentiation and Essential Protein
Expression by Metastatic Mammary
Carcinoma
Natalie Raso
S 11-12, Health Sciences
St. Thomas More High School, HWCDSB

L05, The Silent Passenger: Carbon
Monoxide, Carboxyhaemoglobin and The
Commuter
Jordan Bowman
S 11-12, Earth and Environmental
St. Mary's High School, HWCDSB

L06, Don't Get Whipped
Maveric Croucher
J 7-8, Health Sciences
St. John the Baptist, HWCDSB



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EXHIBITOR LISTING continued...

- L07, MESV The Spy 1
Joseph Almonte
I 9-10, Engineering and Computing
Bishop Ryan High School, HWCDSB
- L08, You Can't See Me
Adam Carter
J 7-8, Life Sciences
St. Martin of Tours, HWCDSB
- L09, Project T.A.F.F.Y. - The Truth About
Fast Food and You
Nigel Cruz, Sean Stevens
J 7-8, Health Sciences
Sacred Heart, HWCDSB
- L10, Earthquake
Evan Fraser
J 7-8, Earth and Environmental
St. John the Baptist, HWCDSB
- L11, Sun Cents
Alexandria Oreskovic
J 7-8, Physical Sciences & Math
St. John the Baptist, HWCDSB
- L12, HOW EFFICIENT IS A SOLAR
COOKER?
Rebecca Pilot, Laurene Wierenga
J 7-8, Earth and Environmental
St. Joachim, HWCDSB
- L13, Electromagnetic Hydraulics
Jonathan Corbett, Tristan D'Souza
J 7-8, Engineering and Computing
St. Thérèse of Lisieux, HWCDSB
- L14, Catch The Wind
Katherine Mahler
J 7-8, Engineering and Computing
Regina Mundi, HWCDSB
- L15, Pay Attention!
Hannah Prince, Eryn Stewart
J 7-8, Health Sciences
Sacred Heart, HWCDSB
- L16, You Take My Breath Away
Alexandra Codispodi, Courtney Walsh
J 7-8, Health Sciences
St. Joachim, HWCDSB
- L18, Drive to Survive
Erin Bethune, Symonne Madalena
J 7-8, Health Sciences
St. Joachim, HWCDSB
- L19, Factors affecting the Speed of a
Curling Stone
David Stewart
I 9-10, Physical Sciences & Math
Abbey Park High School, HDSB
- L20, Pixel Power
Elizabeth Fox
J 7-8, Physical Sciences & Math
Eastview Public School, HDSB
- M01, A New Look at Diabetes Self-
Management using MS Excel
Manmeet Kaur, Ishpreet Kaur
J 7-8, Health Sciences
Abbey Lane Public School, HDSB
- M02, Survival or Extinction: A Virtual
Simulation
Alexander Harmsen, Irene Harmsen
J 7-8, Life Sciences
Centennial Public School, HDSB
- M03, Everlasting
Paul Lee, Hermes Ko
S 11-12, Physical Sciences & Math
Abbey Park High School, HDSB
- M04, Food Bank Inventory Application
Joseph Querques
S 11-12, Engineering and Computing
Christ the King High School, HCDSB
- M05, Maintaining The Balance -
Titrations: A Volumetric Analysis
Anthony Querques
J 7-8, Physical Sciences & Math
St. Joseph (Acton), HCDSB
- M06, Sounds into Syllables II-Windows to
the World of Childhood Autism
Kayla Cornale
S 11-12, Health Sciences
Assumption High School, HCDSB
- M07, The Use of Acetone as an Additive
in Biofuel Mixtures
Chris Foster, Xiong Zhao
S 11-12, Engineering and Computing
North Park Collegiate and Vocational
School, GEDSB
- M08, Ultra Hold
Samantha Edwards, Gabrielle Berardi
J 7-8, Engineering and Computing
St Jean de Brébeuf, BHNCDSB
- M09, Rolling With Preservatives
Allison Burtenshaw-deVries, Darcy
Bainbridge
J 7-8, Life Sciences
Westview, HWDSB
- M10, Weighting Around: Re-Creating the
Trebuchet
Tristan DiFrancesco, Victor Vrankulj
J 7-8, Engineering and Computing
Westview, HWDSB
- M11, Will It Grow or Won't it? That is the
Question
Shalvaree Vaidya, Stafania Salzer
J 7-8, Life Sciences
Westview, HWDSB
- N01, Eat Your Heart Out Dr. Mario!
Tom Mazzetti, Brodie Palango
J 7-8, Health Sciences
St. Joachim, HWCDSB
- N02, Ethanol, fuel of the future?
Julia Piccioni
J 7-8, Earth and Environmental
St. Joachim, HWCDSB
- N03, BACTERIA VS DISINFECTANTS
Anthony Esposito, Ryan Smith
J 7-8, Life Sciences
St. Joachim, HWCDSB
- N04, Spin N' Shake
Luke Martin, Cole Peragine
J 7-8, Engineering and Computing
St. John the Baptist, HWCDSB
- N05, No Use Crying Over Spilt Oil!
Alexander Keating
J 7-8, Engineering and Computing
St. John the Baptist, HWCDSB
- N06, Owned
Ritesh Gupta
I 9-10, Health Sciences
Westdale High School, HWDSB
- N07, An Orange a Day...
Annamaria Skrtic
J 7-8, Health Sciences
St. John the Baptist, HWCDSB
- N08, Smell or Smoke? You Choose
Celina Virag
J 7-8, Health Sciences
St. John the Baptist, HWCDSB

EXHIBITOR LISTING continued...

N09, Got Milk?
 Maria Suci
 J 7-8, Physical Sciences & Math
 St. John the Baptist, HWCDSB

N10, IQ: Males Vs. Females
 Jonathan Cuvalo
 J 7-8, Health Sciences
 St. Joseph (Acton), HCDSB

N11, "Pirate Eye" Chromatic Adaptation
 Michael Raju
 J 7-8, Health Sciences
 St. Joseph (Acton), HCDSB

N12, Don't be so touchy!
 Rebecca Plickert, Madeline Poirier
 J 7-8, Health Sciences
 St. Joseph (Acton), HCDSB

N13, Acid Armour
 Steven Slowka
 J 7-8, Earth and Environmental
 St. Joseph (Acton), HCDSB

N14, Don't Eat That Cake
 Sarah Nicholson
 J 7-8, Health Sciences
 St. Joseph (Acton), HCDSB

N15, Pain, Pain Go Away
 Cody Mazza-Anthony
 J 7-8, Health Sciences
 St. Mark, HWCDSB

N16, Now You See It.. Now You Don't
 Jessica Penney
 J 7-8, Health Sciences
 St. Mark, HWCDSB

N17, To the Beat of Your Heart
 Raffaella Nocita
 J 7-8, Health Sciences
 St. Mark, HWCDSB

N18, White Teeth? Egg-Zactly!
 Shelby Rowland
 J 7-8, Physical Sciences & Math
 St. Mark, HWCDSB

N19, The Mystery of Aim
 Jessica Piedimonte, Angelica Frak
 J 7-8, Health Sciences
 St. Mark, HWCDSB



BASEF 2005 Grand Trip Award Winners
Congratulations to our 24 students who won trips to the Canada Wide Science Fair (CWSF) in Vancouver, B.C. or the Intel International Science and Engineering Fair (ISEF) in Phoenix, Arizona.

N20, Burn baby Burn
 Renato Rossi
 J 7-8, Physical Sciences & Math
 St. Mark, HWCDSB

P05, Molecule Meltdown
 Marco Ionni, Gabriel Cicchi
 J 7-8, Physical Sciences & Math
 St. Mark, HWCDSB

P06, Peanut Power
 Sylvia Drag, Erica Dillon
 J 7-8, Physical Sciences & Math
 St. Mark, HWCDSB

P07, Eggcellent Sport Drinks
 Ted Paul
 J 7-8, Physical Sciences & Math
 St. Martin of Tours, HWCDSB

P08, Flower Power
 Andrea DiNardo
 J 7-8, Life Sciences
 St. Martin of Tours, HWCDSB

P09, It's Like Watching Paint Dry...
 Adriana Smith
 J 7-8, Physical Sciences & Math
 St. Martin of Tours, HWCDSB

P10, Lungs 4 Life
 Karlee Terziev
 J 7-8, Health Sciences
 St. Martin of Tours, HWCDSB

P11, Can You See Vitamin C?
 Danielle de Laat
 J 7-8, Physical Sciences & Math
 St. Martin of Tours, HWCDSB

P12, Bacteria Busters
 Vanessa Longo
 J 7-8, Life Sciences
 St. Martin of Tours, HWCDSB

P13, The Tooth Fairy's worst nightmare
 Jake Haromszeki
 J 7-8, Health Sciences
 St. Martin of Tours, HWCDSB

P14, You Raise Me Up
 Nathan Terbrack
 J 7-8, Physical Sciences & Math
 St. Paul, HWCDSB

P15, He Brains Versus She Brains
 Stephanie Slye
 J 7-8, Health Sciences
 St. Paul, HWCDSB

EXHIBITOR LISTING continued...

P16, Pop The Pepsi Myth
Amanda Lultchuk, Madison Kurchik
J 7-8, Health Sciences
St. Paul, HWCDSB

P17, The Power Of Wind
Katelyn Chovance, Sophie Juteau
J 7-8, Engineering and Computing
St. Thérèse of Lisieux, HWCDSB

P18, Burn, Baby, Burn!
Mary Rao
J 7-8, Physical Sciences & Math
St. Thérèse of Lisieux, HWCDSB

P19, The Doppler Effect
Erica Reichl
J 7-8, Physical Sciences & Math
St. Thérèse of Lisieux, HWCDSB

P20, Orange You Glad We Have Vitamin C?
Maryellen Tedeschi
J 7-8, Physical Sciences & Math
St. Thérèse of Lisieux, HWCDSB

Q05, CSI Trinity
Lauren DeJong
J 7-8, Health Sciences
Trinity Christian School, Independent

Q06, How Far Can You Hurl
Benjamin Wimmers
J 7-8, Physical Sciences & Math
Trinity Christian School, Independent

Q07, Oil Oil Go Away
Jonathan Earl
J 7-8, Earth and Environmental
Trinity Christian School, Independent

Q08, Keep in the Heat
Emily Robinson
J 7-8, Physical Sciences & Math
Templemead, HWDSB

Q09, White and Brown Sugar
Crystallization
Daniel Armstrong
J 7-8, Physical Sciences & Math
Templemead, HWDSB

Q10, Does the type of salt effect how long it takes to melt ice?
Sali Ravo, Samantha Fleming
J 7-8, Physical Sciences & Math
Templemead, HWDSB

Q11, Whats the Difference?
Andrew Stoicheci, Justin Singh
J 7-8, Engineering and Computing
Templemead, HWDSB

Q12, Colour Your Choice
Laura Stevens
I 9-10, Health Sciences
T. A. Blacklock High School, HDSB

Q13, HOW FAST DO YOU REACT?
Jennifer Lawlor, Alessandra Gallo
J 7-8, Health Sciences
St. Vincent de Paul, HWCDSB

Q14, The Empty Runner
Diana Cocchiarella, Ellen Cocchiarella
J 7-8, Health Sciences
St. Vincent de Paul, HWCDSB

Q15, Are Your Teeth Safe?
Deanne Durward
J 7-8, Health Sciences
St. Vincent de Paul, HWCDSB

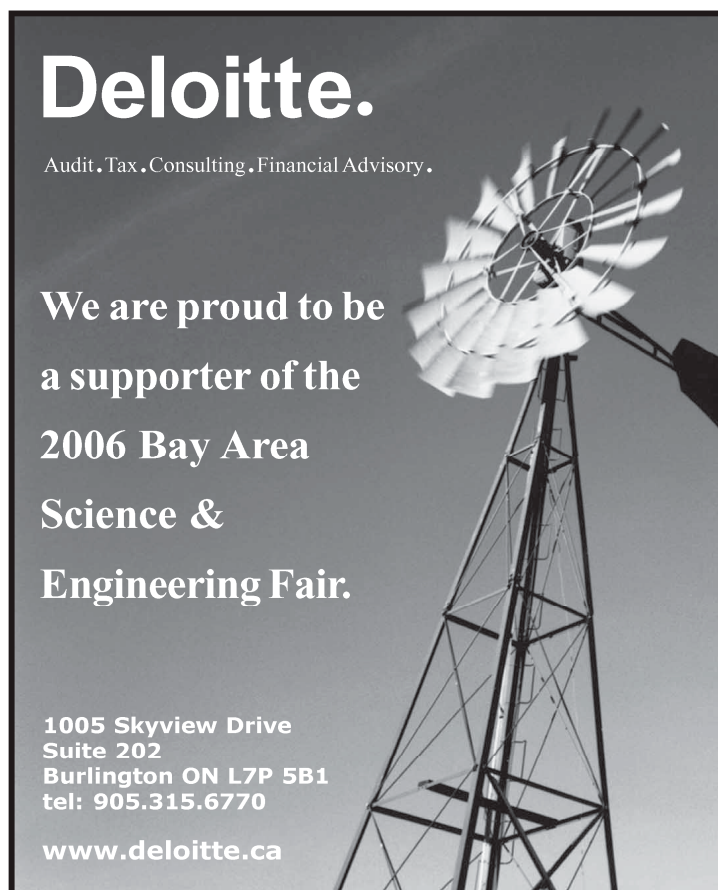
Q16, Dead Or Alive
David Chiasson
J 7-8, Life Sciences
St. Thomas (Waterdown), HWCDSB

Q17, With Or Without
Katie Rokowski
J 7-8, Life Sciences
St. Thomas (Waterdown), HWCDSB

Q18, Eggsact Measurement
Allie Canaris, Cailtyn McHarge
J 7-8, Physical Sciences & Math
St. Thérèse of Lisieux, HWCDSB

Q19, Fast Pain Relief
Kayauna Anderson-Prescod, Sarah Pongetti
J 7-8, Health Sciences
St. Thérèse of Lisieux, HWCDSB

Q20, The Nose Knows
Cristina Valeri, Annysia Samac
J 7-8, Health Sciences
St. Thérèse of Lisieux, HWCDSB



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SPECIAL AWARDS

SPECIAL AWARDS

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.

Artistically Inspired Display Award

Prize: \$200.
Criteria: The most artistically inspired display



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SPECIAL AWARDS continued...

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, energy 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, Awards

Prize: Three cash prizes of \$100 each.

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

Conservation Halton Environmental Sciences Award

Prize: \$200 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: \$200, honorary membership in the Association and an invitation to attend meetings

Criteria: The best demonstration of the use of the scientific method.

Dofasco By-Products Utilization Award

Prize: \$100

Criteria: Project that best displays the conservation and recycling of materials, so as to minimize their impact on the environment and society.



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Congratulations to all BASEF Participants

2006

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SPECIAL AWARDS continued...

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.

Employees of Dofasco (Hamilton) Credit Union Limited

Prize: \$100

Criteria: Project which best displays the use of financial analysis to solve or support a technical problem.

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.



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SPECIAL AWARDS continued...

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.

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.

**Congratulations and good luck
to all participants of
the 2006 Bay Area
Science and Engineering Fair!**



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SPECIAL AWARDS continued...**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.

Dofasco Steelmaking Award

Prize: \$100

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

Dofasco Zyplex Material Science Award

Prize: \$100

Criteria: Deserving project that best displays the use of materials in creating new structural compositions or in solving a materials science problem.

Dr. Colin J. L. Lock Memorial Chemistry Award

Prize: \$100

Criteria: Project demonstrating the best application of chemistry.

**Congratulations on your
accomplishments!**

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*Proud to support
curiosity & innovation
shown by the participants
in the
2006 Bay Area Science
and Engineering Fair!*

**Hamilton-
Wentworth**

SPECIAL AWARDS continued...**Dr. Leonard Harris Award**

Prize: Two awards of \$50 each

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.

The Electrical Construction Association of Hamilton Award

Prize: \$250

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

Gowlings Innovation Award

Prize: \$250

Criteria: For a project that exploits multiple areas of intellectual property protection, namely trademarks, patents, industrial designs and copyright. Any level.

Hamilton Wentworth Occasional Teacher Local**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.

Environment and Education Award

Prize: \$50 and certificate

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

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.



***Union Gas congratulates all entrants
in the 2006
Bay Area Science and
Engineering Fair***



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SPECIAL AWARDS continued...

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

Horizon Utilities

Prize: Three prizes of \$100 each

Criteria: The best projects around conservation and alternative and renewable sources of energy

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 Award

Prize: Two prizes of \$100 each

Criteria: 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 in the Computer Science category in Intermediate or Senior level.

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.

ASM Materials: outstanding exhibit in materials science.



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SPECIAL AWARDS continued...

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 problem involving modern 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

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

Investigative Science Award

Prize: \$250

Criteria: A project that shows best demonstration of creative problem solving.

John. W. Howard Materials Research Award

Prize: \$100

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

Keep Hamilton Clean Award

Prize: \$100

Criteria: The best project that best addresses the effects on the environment of littering, dumping, 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 to all
Bay Area Science &
Engineering Fair Participants***



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**Congratulations and good luck to
all participants
in the 2006
Bay Area Science and Engineering
Fair!**

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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 Mechanical Contractors Association of Hamilton Award

Prize: \$250

Criteria: Best intermediate or senior engineering project.

Mohawk College Faculty 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.

Proud to be a Sponsor of the 2006 Bay Area Science and Engineering Fair

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Water for the World

SPECIAL AWARDS continued...

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

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: \$200 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.

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



Rotary Club of Hamilton
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www.rotaryclubhamilton.ca

SPECIAL AWARDS continued...

Nicola Simmons Award in Cognition Studies

Prize: \$100

Criteria: An exemplary project in cognition studies.

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.

Primary Fluid Systems Awards

Engineering Awards

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

Criteria: Deserving projects in engineering.

Physical Sciences Awards

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

Criteria: Deserving projects in physical sciences.

Earth & Environmental Awards

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

Criteria: Deserving projects in earth & environment.

Procor Engineering Awards

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

Criteria: Excellent Engineering projects

Professional Engineers of Ontario (Hamilton Local Chapter) Awards

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

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

Professional Engineers of Ontario (Oakville Chapter)

Prize: \$50 to each of two projects

Criteria: Two deserving engineering projects.

Ramanujan Award

Prize: \$100 for up to three projects

Criteria: Projects that demonstrate strong mathematical base.

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.

Science Teachers Association of Ontario Awards

Prize: \$75 to each of two projects.

Criteria: For the best projects in the Life Sciences Category demonstrating the best use of the scientific method.

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 scholarships 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.

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.

**Best wishes and good luck to all
the students participating in the
2006 Bay Area Science
& Engineering Fair.**



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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

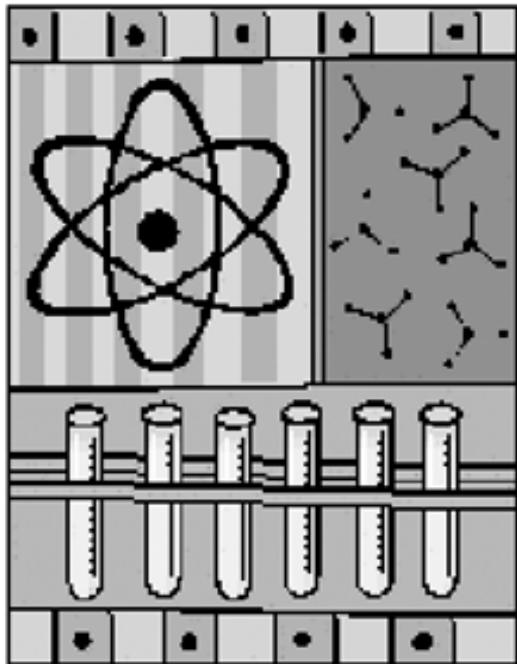
For Junior, Intermediate, Senior levels in:

- 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 2006 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 to support the Bay Area Science and Engineering Fair



“Opportunity is missed
by most people
because it is dressed
in overalls and
looks like work”

Thomas A. Edison



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GRAND PRIZE TRIP 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.

2006 PFIZER CANADA AWARD OF EXCELLENCE

The top project from BASEF 2006 that is advancing to CWSF, will earn the 2006 Pfizer Canada Minister's 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 2006 Intel International Science & Engineering Fair, to be held in Indianapolis, Indiana, USA from May 7-13, 2006. Chosen from excellent secondary school (Intermediate & Senior level) projects, up to 4 trips, two singles and a pair project (dependant on funding levels), will be awarded. Winners must be able to travel into the USA (Canadian citizenship or landed immigrant status)

Sponsors are

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Mohawk College

McMaster University
Sheridan College



CANADA WIDE SCIENCE FAIR TRIP AWARDS

All expense-paid trips to the 2006 Canada Wide Science Fair, to be held in Saguenay, Quebec from May 13 to May 21, 2005. Up to 16 trips (dependant on funding levels) will be awarded for excellent projects. All projects entered in BASEF 2006 are eligible.

Sponsors are

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- Hamilton Halton Construction Association
- City of Hamilton, Economic Development
- Hamilton Wentworth Catholic District School Board
- Hamilton Wentworth District School Board
- Ontario Association of Certified Engineering Technologists and Technicians
- Omron Canada
- Rotary Club of Hamilton
- Sci-Tech Ontario
- Triple Crown Enterprises
- Union Gas
- Zenon



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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". Sci-Tech Ontario will provide each student's school a pennant-style banner appropriate for wall-hanging. Each Ontario CWSF trip-winner will receive a team jacket/vest emblazoned with an embroidered 2006 Team Sci-Tech Ontario logo.





together
we're stronger

Bell is proud to help people improve their quality of life, and reach their full potential. By offering our support to children's hospitals and youth organizations, we can help build a stronger, healthier society, together.

