



BASEF

BASEF 2005

Sheridan Institute of
Technology and
Advanced Learning,
Oakville Campus

When you ask the question "Why?"
... you open the doors to the universe

Bay Area Science & Engineering Fair
c/o McMaster University, JHE-A214
1280 Main St. W.
Hamilton, Ontario L8S 4L7

phone: (905) 974-7975 (Hamilton)
(905) 693-7076 (Oakville)

<http://basef.mcmaster.ca>

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OFFICIAL PROGRAM

BASEF 2004

Mohawk College
March 31 to April 3, 2004

**44th Annual
Bay Area Science & Engineering Fair**

Sponsored by:
The Ontario Trillium Foundation

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Investing in communities

Making a difference!



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The Ontario Trillium Foundation is a proud sponsor of the Bay Area Science and Engineering Fair (BASEF) 2004. We extend our best wishes to all participants.

The Ontario Trillium Foundation builds healthy and vibrant communities throughout Ontario by strengthening volunteerism and investing in community-based initiatives.

We provide funding to eligible charitable and not-for-profit organizations in support of initiatives in the Arts and Culture, Environment, Human and Social Services and Sports and Recreation sectors.

Call us to discuss your ideas or visit our website for more information.

Toll-free: 1.800.263.2887
www.trilliumfoundation.org

THE ONTARIO
TRILLIUM FOUNDATION



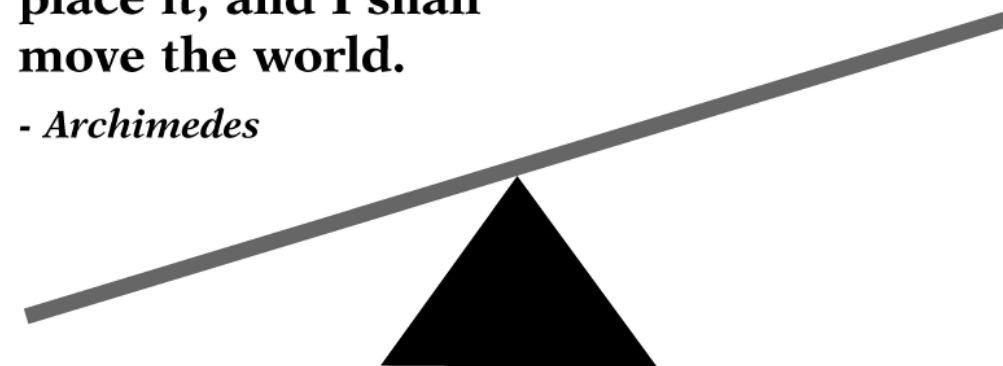
LA FONDATION
TRILLIUM DE L'ONTARIO



The Ontario Trillium Foundation is an agency of the Ministry of Culture and receives annually \$100 million of government funding generated through Ontario's charity casino initiative.

**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 —

TABLE OF CONTENTS

Welcome to Mohawk College	2
Message from BASEF Chair	3
Message from Honourary Co-Chairs	4,5
Schedule of Events	6
Parents' information page	8
Emergency Safety and Security Instructions	10
Map of Mohawk College	11
Organizing Committee	13
Volunteers	14
BASEF Project	15
2004 Sponsors	16
Hosts of Activity Day Tours	18
Merit Awards Judges	20
Special Awards Judges	23
Exhibitors Index	24
Floor Layout	30
Exhibitor Listing	32
Special Awards	48
Merit Awards	56
Grand Prize Awards	58
Grand Prize Trip Awards	59



TECHNOLOGY AT ITS FINEST! *Mohawk College's vision of excellence in technology is clear. We offer the finest in technology education and training.*

MOHAWK COLLEGE is pleased to Welcome you to the 44th Annual Bay Area Science and Engineering Fair.

Best wishes
to all
participants!

MOHAWK
C O L L E G E
www.mohawkcollege.ca



A MESSAGE FROM THE BASEF CHAIR

Sue Olynyk

Welcome to the 44th Annual Bay Area Science and Engineering Fair! BASEF is open to over 100,000 students in Grades 7-12 in Hamilton, Halton, Brant, Haldimand and Norfolk. BASEF 2004 welcomes over 400 student participants! The mission of BASEF is to promote an interest in science and engineering and to encourage youth to conduct project-based research utilizing the scientific process or the engineering design process.

Teachers, parents and mentors are important allies for us. Thank-you for your encouragement and support. Together they fan the embers of curiosity about science and can result in a burning life-long interest and love for this field of study.

I extend my sincere thanks to our Honourary Co-Chairs, Halton Region Chairman Joyce Savoline who returns for her third year, and Hamilton Mayor Larry Di Ianni, in his first year in this role. We appreciate the interest you have demonstrated in building tomorrow's citizens through this activity and thank-you for your support and involvement.

This year BASEF will see over 225 scientists, engineers, technologists, mathematicians, inventors, entrepreneurs and educators volunteer to judge the exhibitors' projects. These are our Merit and Special Award Judges who take a full day away from their hectic schedules to listen, guide and encourage our students. Thank-you Judges!

We are thrilled to have the Ontario Trillium Foundation as our title sponsor for the third year in a row. I would also like to thank the 14 new sponsors and over 30 returning sponsors who see the value in supporting this extremely worthwhile event for today's youth. I encourage you all to support our sponsors wherever possible. Without them there would be no BASEF.

I would like to extend a very special thanks to all those people at Mohawk College who have helped make it possible to stage BASEF 2004. For many years now, Mohawk has been a strong supporter of this initiative. The friendly faces, the helpful staff and the excellent facilities have made our job of conducting this fair so much easier.

Finally, there have been thousands of volunteer hours in producing BASEF 2004. I owe a great debt of gratitude to all those people who help make it happen. I thank the members of the Organizing Committee, over 25 in all, who have met every month since September and laboured many more hours on their own or in small teams to take care of every detail.

I hope that all exhibitors enjoy the results of their hard work. Over the four days of BASEF you will experience an exciting flurry of activity: meeting new friends, sharing your results with judges, family, the public and a host of dignitaries. Seeing all the effort that has gone into each and every project presented this week, I congratulate you all on a job well done. ...and above all, never be afraid to ask the question, "Why?"

Good luck to you all

Sue Olynyk, P.Eng
Chairman, BASEF 2004



A MESSAGE FROM HONOURARY CO-CHAIR

Joyce Savoline

It is my pleasure to once again, support the work of the Bay Area Science and Engineering Fair (BASEF) in my capacity as Honourary Co-Chair. As an elected official, I believe that government has a commitment to nurture learning in our youth and capitalize on opportunities that support technological education.

Today's youth are tomorrow's leaders and what better place to cultivate a love for learning, ingenuity and design than through a recognized, successful program such as the BASEF!

I offer my congratulations to those students who entered a submission; accolades to both the teachers and parents of participants for encouraging their children and of course, my thanks to the group of dedicated volunteers without whom, this event would not be possible.

Sincerely,

Joyce Savoline
Regional Chairman

How Halton Region supports the next generation of Innovators:

- **The Halton Business Plan Competition** (students interested in improving their business skills can develop their own business plan and win cash awards!)
- **The Summer Company Program for Youth** (up to \$3,000 to start-up and run your own business)
- **Business Registration Service**
- **Statistical & Demographic Information**
- **Exporting Assistance Programs**
- **Small Business Seminars and Advice**
- **Advocacy**
- **On-line Business Directory**

Building tomorrow's workforce through today's youth



Halton Region is committed to supporting and encouraging youth interest in science and technology. A well-educated, well-trained and motivated labour force in this community ensures that employers will 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
Tel: 905-825-6000 Toll free: 1-866-4-HALTON Fax: 905-825-8839
www.haltonbusiness.com
busdev@region.halton.on.ca





GREETINGS FROM THE OFFICE OF THE MAYOR

Larry Di Ianni

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 Honorary Co-chair and I take pride in a community that encourages students to strive for excellence in all their endeavours.

I wish to acknowledge the hard work and commitment of the students, the organizers, and the volunteers who have allowed us the chance to witness the achievements of today's youth and tomorrow's innovators who will undoubtedly become the contributors, the innovators of our future.

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

Sincerely,

Larry Di Ianni
Mayor



Bright Minds Come to Hamilton



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



For more information contact: **McMaster University** • 905-525-9140 ext. 27270 • www.mcmaster.ca **City of Hamilton** 905-546-4222 • www.hamilton.ca

SCHEDULE OF EVENTS

Mohawk College

WEDNESDAY, MARCH 31 PROJECT SETUP

- 4:00 p.m. On-site Registration, Project Setup, Safety Check begins.
- 8:00 p.m. Registration closes.

THURSDAY, APRIL 1 JUDGING DAY

- 8:00 a.m. Judges begin arriving at the Gym
- 8:30 a.m. Judges' welcome and assignment of projects
- 9:00 a.m. Begin preliminary judging without students present
- 11:45 a.m. Start of Judges' Luncheon
- 1:00 p.m. Students arrive for afternoon judging and interviews
- 4:00 p.m. Afternoon judging with students complete
- 4:30 p.m. Reporting of all judging scores, and issues resolution, complete.

FRIDAY, APRIL 2 ACTIVITY DAY

- 8:00 a.m. Students arrive at "The Arnie", Student Centre Mohawk College
- 9:00 a.m. Leave for morning activities (buses provided to offsite activities).
- 12:00 noon Arrive back at "The Arnie", Student Centre for lunch
- 1:00 p.m. Leave for afternoon activities (buses provided to offsite activities)
- 4:00 p.m. Arrive back at Mohawk College. Students begin departing.

SATURDAY, APRIL 3 PUBLIC VIEWING AND AWARDS CEREMONY

- 10:00 a.m. Mohawk College Gym opens for Public Viewing. All students to be present.
- 11:45 a.m. VIP Luncheon (by invitation), Faculty Dining Room
- 12:00 noon End of Public viewing. Gym closed until after Awards Ceremony.
- 1:15 p.m. McIntyre Theatre opens for Awards Ceremony. The Gym remains closed
- 1:30 p.m. Start of Awards Ceremony
- 3:30 p.m. End of Awards Ceremony. Projects may now be removed from the Display Area of the Gym.
- 4:00 p.m. Meeting for Trip Award Winners, their parents, chaperones, delegates, in the Gym. (Note: It is important that winning projects be available for this meeting).



TECHNOLOGY AT ITS FINEST!

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

Coming Soon!

Mohawk College is establishing a new, state of the art Industrial/Process Automation Training and Applied Research Centre. The Centre will meet the needs of human resource training manufacturing and process automation industries as they implement Advanced Manufacturing Technologies.

Centre will be able to respond to the emerging training and education needs of industry. Through new programs and partnerships it will support the development of individuals seeking a career within the advanced manufacturing field.

The Centre is being developed in collaboration with industrial partners from the process automation sector, and is supported by the Ministry of Economic Development and Trade. Offering first class instruction, training and applied research, the

Mohawk College, as the only institution in Ontario to offer an Applied Degree in Process Automation, will continue to be a leader in educational innovation in manufacturing technology. Our graduates will be able to offer the technological skills and knowledge that will contribute to the competitiveness of industrial manufacturers in the fields of design, manufacturing, operation, maintenance and sales of automated systems.



For more information please contact:
Cheryl Jensen,
Dean, Engineering Technology,
Mohawk College
905-575-1212 extension 5069
www.mohawkcollege.ca

MOHAWK

C O L L E G E

 **Ontario** This project was funded in part by the Strategic Skills Investment Program of the Ministry of Economic Development and Trade.

THE “PARENT PAGES” (or How to Survive Science Fair!)

Congratulations on your wise decision to allow your child to participate in BASEF 2004!

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 2004 tee-shirt. One parent noted that the students were 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. BASEF 2004 will offer cash, prizes and trip awards totaling over \$70,000: about \$15,000 in Special Awards, about \$8500 in Merit Awards and the Grand Prize Trip Awards to the Canada Wide and International Science Fairs (about \$55,000).



Note: All science fair activities are planned to take place at Mohawk College with the exception of the “Activity Day Tours” on Friday. Most Activity Day tours take place off site, however 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: Parking is free for BASEF 2004. You will be required to park in lot P10 at the west end of the Fennell campus building. 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 2004 website <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 31, 2004 from 4:00 pm – 8:00 at Mohawk College.** Your child will visit a registration desk and find out their assigned display area in the gym and receive information about the Friday activities they are enrolled in. 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: <http://basef.mcmaster.ca/2004>

Day 2: Judging - Students are required to be at their projects for **judging on Thursday, April 1, 2004 from 1:00 pm – 4:00 pm.**

Day 3: Activity Day, Friday, April 2, 2004, 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 their assigned activities.

THE "PARENT PAGES" (Or How To Survive Science Fair!)

Day 4: Public Viewing and Awards Ceremony - We ask that your children be at their projects for Public Viewing which takes place from **10:00 am - 12:00 pm on Saturday, April 3, 2004**. 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. Information regarding any special clothing requirements (gym clothes etc.) for activity days will be made available at registration.

Busing from Halton: If busing is being provided, those students involved will already have been contacted. If there are additional questions, **PLEASE ENQUIRE AT THE REGISTRATION DESK FOR MORE INFORMATION ON HALTON BUSES.**

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.

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

Be sure to visit the BASEF website 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!"

<http://basef.mcmaster.ca>



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
3. evacuate the building using the nearest exit.
4. 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

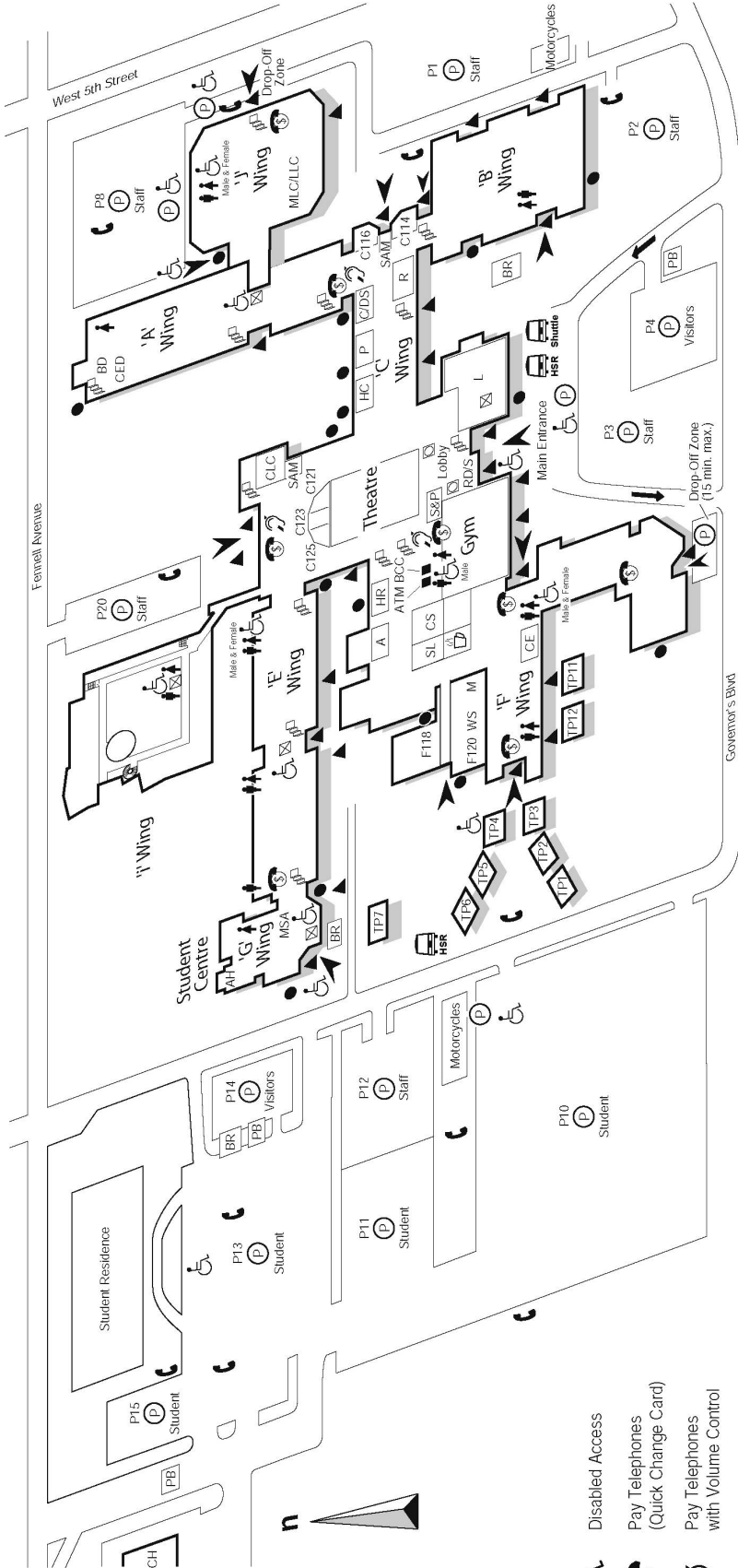
Main Security Desk-----Dial 2003 on College phones

Main Security Desk-----Dial 905-575-2316 on other phone



Fennell Campus

MAIN FLOOR



- 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

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

Sheridan Advert

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Mayor Larry Di Ianni, City of Hamilton

CHAIR

Susan Olynyk

SECRETARY

Tom Crawford

TREASURER

Eleanor O'Flynn

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Cathy Hamilton

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SCIENTIFIC REVIEW

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

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Steve Procyszyn, Morris Hucal, Mary Procyszyn, Christine Rowthorn, Mike Laskowski, Janice Rocchi, Wuchow Than, Jim Mauro, Michael Goffredo, Rob Lenjosek, Zenon Holadyk, Ray Cemka

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Sandy Walker, Peter Olynyk, Wayne Bowdish

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Wuchow Than

VOLUNTEER RECRUITING

Joanne Teoh

PHOTOGRAPHY AND GRAPHICS

Jim Hamilton, Wayne Bowdish

PROGRAM

Jenny Shirton, Wayne Bowdish, Sandy Walker

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Barry Brusey,

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Halton Catholic DSB: Susan Paradiso

Halton DSB: Ron Ballentine, Rasa Pruden

Grand Erie DSB: Herb Taylor

HOST- BASEF 2005

Michael Arthur, Don Wiles

VOLUNTEERS

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Andrea Bazzard
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Ryan Bowdish
Dan Bowman
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Jim Casey
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Vagmi Dholakia
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Chris Stearns

Nicole Stearns
Rose Stearns
Joe Szpak
Sarah Tessier
Jennifer van
Leeuwen
Bonnie Vandoorn
Carol Walzak
Terry Wells
Paul Werhle
Tammie Weston
Anne-Marie
Wheaton
Bonnie White
Glen Allan Whitwell
Renee Wong
Marilyn Young
Norman Young
Zhang Yuepeng
Steve Zerebny



*The Halton District School Board
would like to congratulate
all participating students in the 2004
Bay Area Science and Engineering Fair.
Best wishes for continued success!*

*Rich in Tradition, Progressive in Practice,
Building our Future Together*

J.W. Singleton Education Centre • 2050 Guelph Line, P.O. Box 5005 • Burlington, Ontario L7R 3Z2
Phone: (905) 335-3663 • (905) 842-3014 • (905) 878-8451 Fax: (905) 335-9802

www.hdsb.ca

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 Hamilton, Halton, Brant, Haldimand and Norfolk
- ◆ BASEF is a registered charity and relies entirely on sponsors and volunteers

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.

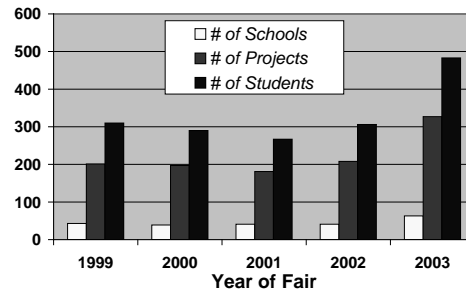
Students compete for thousands of dollars in cash, scholarships and awards, including all expense paid trips to the national and international science fairs.

Materials

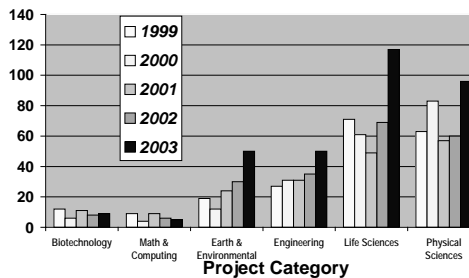
1. Dedicated teachers
2. Motivated students
3. Supportive parents
4. Enthusiastic volunteers
5. Generous sponsors

Observations

Participation Growth in BASEF



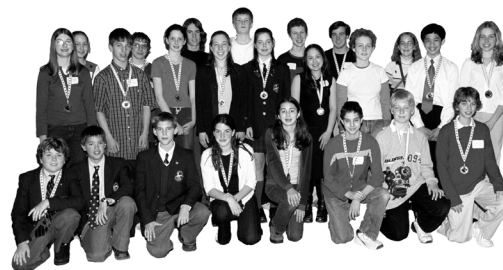
of Projects by Category



Results



Display Area BASEF 2003



Grand Trip Award Winners BASEF 2003

Conclusions

- ◆ Student participation increased by 60% in 2003
- ◆ 483 students from 63 schools with 327 amazing projects
- ◆ over \$ 71,000 in awards were shared by almost 200 students
- ◆ 24 BASEF students won Grand Trip Awards..... the most ever!!

Our students are going places!!

Discussion

We believe 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 components allow students to practice their "people" skills and gain self confidence and a sense of accomplishment for a job well done.

**Get involved!
It's your future.**

Acknowledgements

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

SPONSORS

TITLE

Ontario Trillium Foundation

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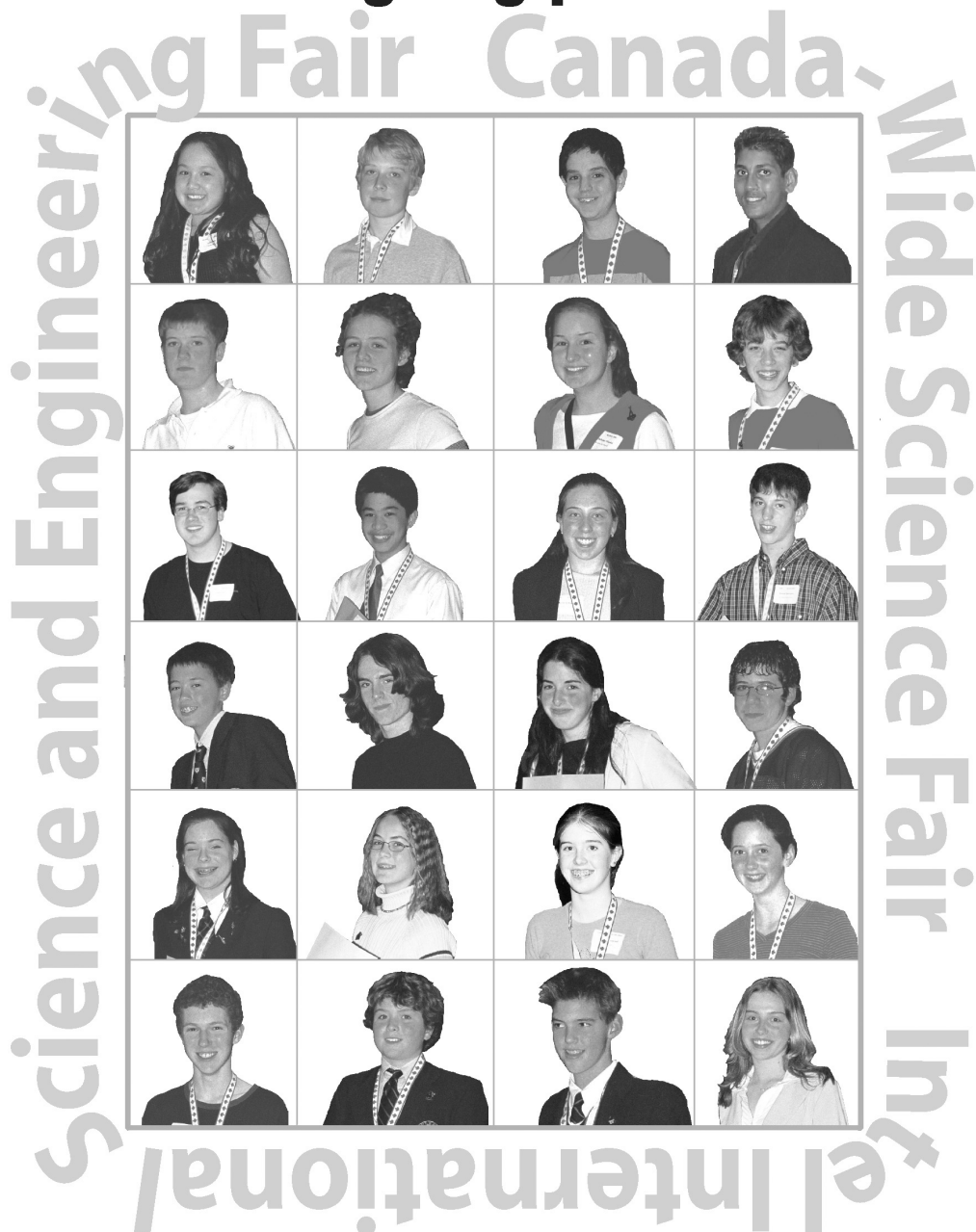
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BASEF 2003 Trip Award Winners

Thanks to our sponsors
we're going places!

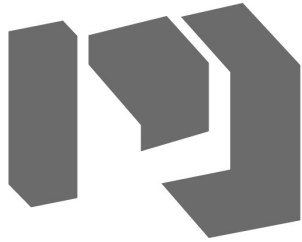


The BASEF Students and Volunteers gratefully
acknowledge the support of all of our sponsors

HOSTS OF ACTIVITY DAY TOURS

- Battlefield House Museum
- Bochsler Studio
- Dofasco Recreation Centre
- Donna's Friends in Fitness
- Dundurn National Historic Site
- The Friends of the Aviary
- Halton Industry Education Council
- The Hamilton Police Station
- The Hamilton Health Sciences Corporation
- Kanata Traditional Village
- McMaster University
 - Department of Chemistry
 - The Department of Psychology
 - Venture Engineering & Science Department
- The Department of Physics and Astronomy
- The Department of Biochemistry
- Department of Mathematics and Statistics
- The McMaster University Medical Centre - Maintenance Department/Electrical
- Mohawk College
 - Chemical Engineering & Environmental Technology Department
 - Computer Studies and Information Technology Department
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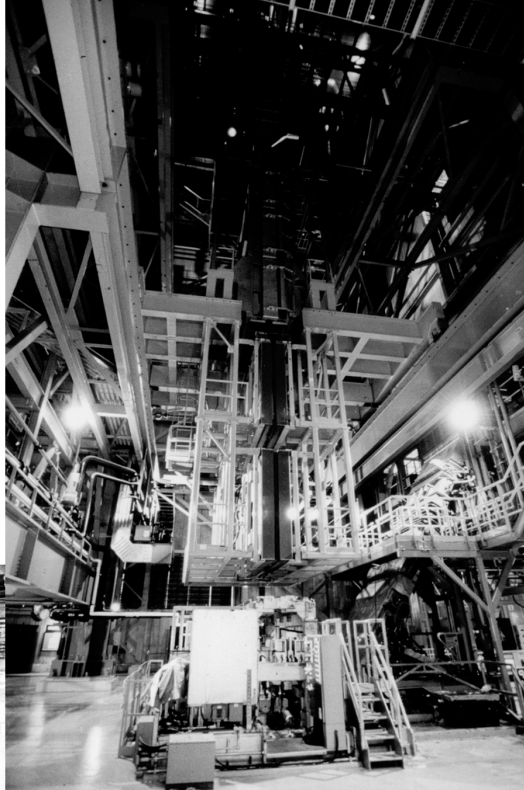
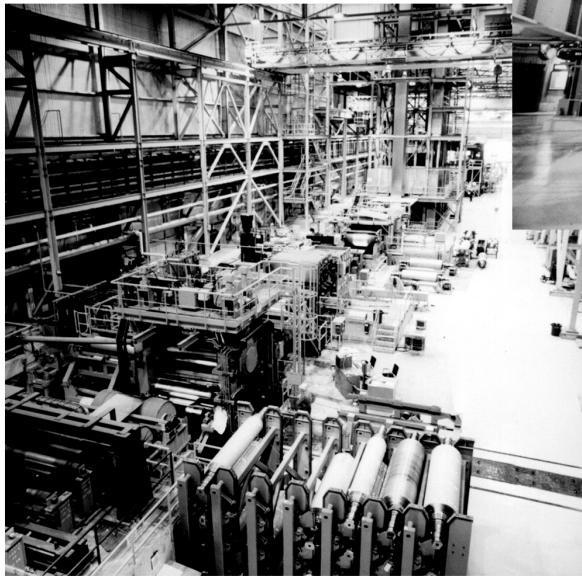
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<i>Dofasco Inc.</i> | Young, Bruce
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Abdel-Aziz, Aysha	A02	Bowman, Jordan	G02	Cormier, Laura	P11	Ferroni, Catherine	K09
Aga, Cyrus	D14	Brejnik, Mark	A07	Cornale, Kayla	N02	Filice, Julian	A06
Aitken, Cody	L08	Brown, Cameron	E01	Cornell, Eric	H14	Finucane, Rachel	G12
Albert, Evan	G16	Brown, Erica	G06	Correia, Kevin	Q18	Flegg, Jonathan	A16
Alexander, Ben	G20	Brown, Michael	P10	Costantini, Lisa	L16	Flynn, Rebecca	G18
Allaby, Devon	D17	Browne, Michelle	L13	Cross, Ryan	C15	Folino, Andrew	H17
Alton, Corey	C08	Bruculieri, Julia	K07	Crosty, Stephanie	D03	Forstner, Sacha	Q15
Anderson, Zoe	I15	Bujna, Steph	Q07	Cuberovic, Stef	Q08	Foty, George	C18
Arndt, Emily	F05	Burakoff, Philip	D11	Currie, Emma	L07	Foulds, Helena	G15
Arnoldt-Smith, Kaylan	D07	Burns, David	P07	Curtis, Sean	F19	Fowler, Samantha	P09
Arruda, Lauren	G12	Burns, Elizabeth	I16	D'Angelo, Meghan	I18	Fox, Natalie	P14
Athale, Abha	B08	Butty, Alexis	J12	Darby, Andrew	M10	Fraser, Emmett	E14
Aubrey, Patrick	D20	Butty, Cierra	J17	D'Arcy, Duncan	A12	Freidland, Lisa	F02
Aushana, George	I17	Camey, Brenda	N12	Davis, Matthew	I09	Fuca, Carmela	J01
Avis, Andrew	A12	Carducci, Jessica	H20	Dayananda, Ishani	F11	Fung, Russell	E16
Baker, Simon	N03	Carmichael, Matt	M09	De Tina, Gregory	G05	Gaetani, Melany	Q06
Baldin, Cindy	J20	Casimirri, Laura	N06	Derayeh, Andrew	Q16	Gagnon, Charles	D15
Ballarano, James	H17	Cavallin, Samantha	I06	Dewar, Amberlea	K12	Gainham, Cathy	J18
Balsor, Justin	H02	Chaffay, Brandon	Q16	Dewar, Kathleen	L01	Gair, Katie	G17
Banevicius, Alexandra	G13	Chan, Claudia	K15	Di Bartolo, Stephanie	K11	Gallant, Chantalle	J19
Barlow Cash, Bronwyn	F09	Chaston, Lucas	L05	Di Luca, Stephen	K04	Galli, Marcel	H02
Baronette, Savannah	I10	Chauvin, Sarah	D03	Dickson, Kathleen	H08	Gatza, Emily	P06
Barton, Sarah	L04	Chesla, Michael	I03	Dionne, Courtney	H03	Genovese, Chiara	H09
Barwin, Ryan	F14	Chiarelli, Angela	G11	D'Ippolito, Lisa	L15	Gerrie, Wes	J11
Bassan, Katarina	P12	Chiarelli, Anthony	L10	Domingues, Ricky	N16	Giangregorio, Elizabeth	K19
Bauce, Melissa	G09	Chiasson, Justine	G19	Dong, Jasmine	F06	Giglia, Vanessa	K11
Beatty, David	A20	Child, Anne Marie	F07	D'Ortenzio, Julie	K10	Giles, Aaron	L19
Bekeris, Leanne	Q18	Childs, Tairroyn	B15	Downey, Jacob	P19	Giles, Hillary	L16
Bello, Andrew	L03	Ching, Carly	A17	Doyle, Tayler	G08	Giore, Roula	H12
Benjamin, Greenlay	F10	Chmielecki, Martin	G05	Duguay, Ryan	K03	Girgis, Angela	B13
Bheriani, Khalil	C09	Cho, Amanda	B09	Duncombe, Deven	N01	Goddard, Melissa	G14
Bigda, Jess	Q05	Choi, Esther	C16	Dunn, Bradley	I13	Goreski, Helen	C16
Bilobrk, Brant	H07	Choudhury, Nabila	F16	Eastwood, Sarah	F15	Gorgees, Shilir	K16
Bilobrk, Erik	H06	Chrisanthopoulos, Anna	G08	Echlin, Chris	P20	Greco, Sara	C13
Birnie, Craig	C09	Cloudt, Miranda	C19	Egan, Curran	A01	Griffin, Shannon	Q06
Black, Andrew	P17	Cocchiarella, David	F18	Fader, Terry	L17	Gulak, Ben	A07
Bonomo, Vanessa	J10	Collins, David	B19	Falkowski, Paul	M08	Gureckas, Ashleigh-Anne	I01
Bontje, Justin	J07	Consoli, Alex	L02	Fazackerley, Charlotte	D06	Gurland, Lauren	D19

EXHIBITOR INDEX continued...

Gurman, Brittany	G04	Ipema, Torianne	J13	King, Ryan	G10	Learning, Tamara	I15
Hakim, Aaron	E20	Ivanecky, Nicholas	L17	Knowles, Eleanor	F14	Lee, Kimberly	E10
Hale, Katherine	K14	Jacklyn, Dunne	I07	Kochuk, Julia	F06	Leng-Marini, Victoria	M02
Han, Marina	J08	Jackman, Andrew	L03	Kotska, Rachel	E12	Leung, Alexander	A03
Hanna, Diana	I19	Jackson, Olivia	G07	Kovacevic, Lana	E08	Leung, Queenie	A05
Harris, Jonathan	A15	Jambrosich, Ashley	G06	Kovacevic, Michael	F13	Lewis, Danie	Q08
Hart, Adam	H19	Ji, Chenwei	F13	Kozak, Jordan	B18	Liao, Rose	A18
Hill, Brent	D02	Jia, Diana	F04	Kramer, Amanda	J17	Liu, Lingfei	F12
Hill, Meagan	C07	Jones, Nathan	C08	Krawchenko, Augustine	N09	Loqar, Ciara	P05
Hillis, Amber	E03	Kaczanowski, Margaret	H04	Krzykala, Shawn	K02	Lore, Mark	B16
Hoang, Tommy	N10	Kajah, Tamara	I05	Kucik, Ashley	K15	Love, Brandon	D11
Hobson, Thomas	A13	Kaleniicka, Joanna	P11	Kuffel, Kristina	M06	Lultschik, Daniel	F08
Horodecki, Brittany	K01	Kamath, Gautam	F08	Kuziora, Daniel	K17	Macaluso, Sarah	J06
Housley, Katie	Q14	Kanlic, Angela	E07	Ladha, Jamil	D05	MacCauley, Peter	N07
Huda, Sharin	F16	Kanlic, Diana	E09	Lamond, Emily	L08	MacDonald,	
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Huxley, Andrew	A20	Kay, Julia	H16	Langille, Patrick	J07	Mackin, Jo-laura	K12
Iacobucci, Jennifer	G07	Kearon, Rebecca	J06	Langlois, Kevin	M09	Magela, Jason	M05
Ilic, Jelena	E07	Keating, Patrick	H14	Lawrence, Sam	E02	Maher, Monica	Q09
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Mancini, Marina	I18	McQueen, Heather	P13	Noad, Hilary	A18	Pelech, Nathan	D13
Marco, Chris	F20	McTavish, Spencer	A04	Novak, Brock	G20	Perez, Robert	I12
Marco, Greg	G16	Mejia, Andrea	N15	Nyland, Andrew	D09	Perez, Ryan	L11
Marquerie, Monique	D01	Mejia, Estefan	H01	O'Flynn, Colin	A19	Petrina, Aaron	K08
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Martin, Kyle	D12	Michalski, Natalie	H05	Okroukh, Maria	M06	Pietroniro, Jordan	H20
Martin, Madeleine	P16	Mills, Lauren	N04	Oliver, Taylor	H12	Pikkert, Rita	E02
Martin, Margaret	H11	Mills-Lundrigan, Lindsay	H13	O'Neill, Carly	I05	Pogoda, Stefan	I20
Martin, Patrick	P15	Mitrovic, Vojislav	E04	Otaguro, Erica	D07	Poot, Nicole	C10
Martinac, David	I20	Moffatt, Sara	P18	Packer, Jeffrey	A06	Potter, David	H10
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Mason, Rachel	I08	Monaco, Chiove	N14	Palozzi, Meghan	Q12	Prolas, Jason	B10
Masoomy, Mateen	F17	Moore, Ginette	B07	Paquette, Chelsea	J01	Querques, Joseph	M12
Maurin, Sonja	E15	Morrison, Nicole	Q11	Paris, Nella	J20	Querques, Marianne	M11
Mayhew, Alexandra	E16	Morrow, Todd	B14	Pastusiak, Taylor	Q17	Querques, Nicolas	M07
Maynard, Merryn	F15	Moxness, Kieffer	E19	Patel, Deelan	F02	Quinn, Andrew	Q13
Mcdonald, Devin	M04	Muller, Ashley	K14	Paul, Amanda	P12	Quinn, Keisha	F05
McFadden, Leigh	D19	Nelles, Amanda	P08	Paulino, Sabrina	N15	Rabi, Santa	K18
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Raso, Victor	I11	Sutherland, Linda	E05	Urquhart, Andrea	I14	Welsh, Rachel	J09
Razaq, Sujood	E11	Switenky, Ellen	L15	Van Amelsvoort, Daniel	L20	Weston, Ken	K05
Rebalka, Irene	N08	Szabo, Maggie	E01	van Leeuwen, Jeffrey	D02	White, Chelsea	J05
Reddy, Kiran	C14	Szoke, Daniel	Q20	Vander Lugt, Aaron	A08	White, Lucie	E03
Reilly, Patrick	I03	Tangri, Neil	B11	Vanderzanden, Monica	L07	White, Marleigh	E09
Reinholt, Colin	M03	Tarbutt, Carson	P17	Vastano, Daniel	J03	Wild, Jenna	J04
Ressel, Madelaine	C11	Thayer, Daniel	A11	Vastano, Nicholas	K02	Wilk, Emilia	E13
Rich, Justin	I02	Thompson, Preston	L02	Vaughan, Jennifer	J15	Witt, Jordan	L12
Richter, Samantha	D04	Tidd, Charlie	A10	Virag, Olivia	H15	Woods, Lindsay	C13
Rispoli, Amanda	K01	Toms, Steve	N10	Vivani, Alanna	B12	Yakowyschuk, Devin	N05
Rockwell, Alethea	F09	Tracey, Lauren	Q07	Viveiros, Rachael	K13	Zajackowski, Ashley	P18
Romanowski, Alex	L20	Tracey, Michelle	Q11	Vorobej, Lucy	L04	Zelenovic, Anja	E11
Rudisi, Megan	P10	Treen, Craig	L05	Walker, Dayna	G01	Zielonka, Whitney	N14
Ryan, Genevieve	P08	Tse, Glenda	C20	Walton, Kevin	N13	Zoccoli, Anthony	N11
Sardo, Joe	J02	Turner, David	D05	Weaver, Nick	F03	Zubic, Olja	E08
Sauer, Cassie	J10			Weis, Alec	E17	Zylik, Chris	B17
Saunders, Mason	B20						
Scallan, Oonagh	D01						
Scarfo, Corey	C17						
Squigna, Ryan	H19						
Shaikh, Sarmad	E04						
Sill, Colin	L14						
Simpson-Hull, Evan	E18						
Singh, Jennifer	E12						
Singh, Rianka	F01						
Singh, Yashoda	D16						
Sivakumaran, Diane	J14						
Siwik, Grace	A09						
Sobiera, Lindsay	I04						
Socha, Alysha	J09						
Sorbara, Elisa	L01						
Sousa, Rachel	P06						
Spehar, John	M07						
Spinelli, Alanna	M02						
Ssemamda, Caroline	K10						
Staples, Adrien	P07						
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Main Entrance / Exit		<table border="1"> <tr> <td>N01</td> <td>N03</td> <td>N05</td> <td>N07</td> <td>N09</td> </tr> <tr> <td>N02</td> <td>N04</td> <td>N06</td> <td>N08</td> <td>N10</td> </tr> </table>					N01	N03	N05	N07	N09	N02	N04	N06	N08	N10										
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NOTES: X = Fire Extinguishers

N11	N13	N15	N17	N19	Emergency Exits Only; Alarm Will Sound if Opened.	
N12	N14	N16	N18	N20		
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					X	

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

EXHIBITOR LISTING

A01: The Power of Wind

Curran Egan
J 7-8 Engineering and Computing
Rotherglen School, Independent

A02: Time Travel--Fiction or Physics?

Aysha Abdel-Aziz
J 7-8 Physical Sciences & Math
Rotherglen School, Independent

A03: What Factors Affect Electromagnetic Fields?

Alexander Leung
J 7-8 Physical Sciences & Math
Oakville Christian School, Independent

A04: Raising the Rig

Spencer McTavish
J 7-8 Engineering and Computing
Oakville Christian School, Independent

A05: Computer Application to Study Human Behaviour

Queenie Leung
I 9-10 Engineering and Computing
Home School, Independent

A06: Spice of Life

Jeffrey Packer, Julian Filice
J 7-8 Life Sciences
Hillfield - Strathallan College,
Independent

A07: To create a magnetized track which will elevate a car

Ben Gulak, Mark Brejnik
I 9-10 Engineering and Computing
Hillfield - Strathallan College,
Independent

A08: How light affects a plant

Aaron Vander Lugt
J 7-8 Life Sciences
Burlington Christian Academy,
Independent

A09: SEOWAAT - Saving Energy One Window At A Time

Grace Siwik
J 7-8 Earth and Environmental
Burlington Christian Academy,
Independent

A10: The Effects Of Video Games On Heart Rate

Charlie Tidd
J 7-8 Health Sciences
Burlington Christian Academy,
Independent

A11: Electrolysis of water: Production of Hydrogen

Daniel Thayer
J 7-8 Physical Sciences & Math
Burlington Christian Academy,
Independent

A12: Souped up with Solar

Andrew Avis, Duncan D'Arcy
J 7-8 Engineering and Computing
Appleby College, Independent

A13: The Answer My Friend Is Blowin' In The Wind

Thomas Hobson
J 7-8 Engineering and Computing
Appleby College, Independent

A14: How Refrigerators Work?

Michael Kerr
J 7-8 Engineering and Computing
Appleby College, Independent

A15: Are You Drinking Poison?

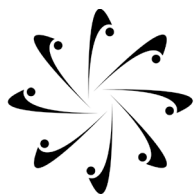
Jonathan Harris
J 7-8 Life Sciences
Appleby College, Independent

A16: Time to React

Jonathan Flegg
J 7-8 Health Sciences
Appleby College, Independent

A17: Hot or Not: The Effect of Ambient Temperature on the Energy Production of Solar Cells

Carly Ching, Laura Welch
J 7-8 Physical Sciences & Math
Westview, HWDSB



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Sci-Tech Ontario promotes and celebrates participation, excellence and innovation in science and technology by Ontario youth.

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EXHIBITOR LISTING continued...

A18: The Human Heart
Rose Liao, Hillary Noad
I 9-10 Health Sciences
Westdale H.S., HWDSB

A19: Eagle in a Rack: Real-Time Object Tracking in Analog Video
Colin O'Flynn
S 11-12 Engineering and Computing
Westdale H.S., HWDSB

A20: The Affects of Music on Humanity
Andrew Huxley, David Beatty
I 9-10 Health Sciences
Westdale H.S., HWDSB

B07: Catching Your Breath
Ginette Moores
J 7-8 Health Sciences
Rotherglen School, Independent

B08: Turmeric: An Antiseptic?
Abha Athale
J 7-8 Health Sciences
Rotherglen School, Independent

B09: Recalling Your Memory
Amanda Cho
J 7-8 Health Sciences
Rotherglen School, Independent

B10: Be Sure - Keep Your Water Pure
Jason Prolas
J 7-8 Earth and Environmental
Rotherglen School, Independent

B11: Sustain, Don't Drain the Moraine
Neil Tangri
J 7-8 Earth and Environmental
Rotherglen School, Independent

B12: Stain Busters
Alanna Vivani
J 7-8 Physical Sciences & Math
Oakville Christian School, Independent

B13: Bugs are Us : Which antibiotic is the most effective against mouth bacteria?
Angela Girgis
J 7-8 Health Sciences
Oakville Christian School, Independent

B14: It's not all it's popped up to be.
Todd Morrow
J 7-8 Health Sciences
Oakville Christian School, Independent

B15: Cellular Renewal
Tairroyn Childs
J 7-8 Physical Sciences & Math
Oakville Christian School, Independent

B16: The Beat Goes On
Mark Lore
J 7-8 Health Sciences
Oakville Christian School, Independent

B17: The Better Bridge
Chris Zylik
J 7-8 Engineering and Computing
Oakville Christian School, Independent

B18: Arctic Harbour
Jordan Kozak
J 7-8 Engineering and Computing
Oakville Christian School, Independent

B19: Size and Time: Is There A Connection
David Collins
J 7-8 Health Sciences
Oakville Christian School, Independent

Congratulations to all BASEF 2004 participants!

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EXHIBITOR LISTING continued...

B20: Breaking through the brick
Mason Saunders
J 7-8 Engineering and Computing
Oakville Christian School, Independent

C07: The Growth Efficiency of Hydroponic Plants Versus Natural Plants
Meagan Hill
I 9-10 Biotechnology
Hillfield - Strathallan College,
Independent

C08: Centralizing Mass, and It's Effect on the Velocity of a Circular Solid on a Slope
Nathan Jones, Corey Alton
I 9-10 Physical Sciences & Math
Hillfield - Strathallan College,
Independent

C09: Kuu Vs. Toko
Khalil Bheriani, Craig Birnie
J 7-8 Physical Sciences & Math
Hillfield - Strathallan College,
Independent

C10: Is wool a better insulator than other fabrics?
Nicole Poot
J 7-8 Physical Sciences & Math
Hillfield - Strathallan College,
Independent

C11: Acid Rain and Dofasco
Madeline Ressel
J 7-8 Earth and Environmental
Hillfield - Strathallan College,
Independent

C12: Raising Obelisks
Khaled Ramadan
J 7-8 Engineering and Computing
Hillfield - Strathallan College,
Independent

C13: PICTURE THIS...
Sara Greco, Lindsay Woods
J 7-8 Physical Sciences & Math
Hillfield - Strathallan College,
Independent

C14: To determine the effects of common household spices in relation to microbial growth
Alexander Molloy, Kiran Reddy
I 9-10 Life Sciences
Hillfield - Strathallan College,
Independent

C15: Impact Of Physical Activity On Academic Grades
Ryan Cross
J 7-8 Health Sciences
Hillfield - Strathallan College,
Independent

C16: Just Ask Water!
Helen Goreski, Esther Choi
J 7-8 Physical Sciences & Math
Oakville Christian School, Independent

C17: The Wonderful World Of Composting
Corey Scarfo
J 7-8 Earth and Environmental
Oakville Christian School, Independent

Edward Oldham **Patent and Trademark Agent**

is proud to sponsor the
2004 Bay Area Science and Engineering Fair!

Good luck to all participants!

Tel: 905-627-0509

Fax: 905-628-3831

EXHIBITOR LISTING continued...

C18: Disinfection Inspection
George Foly
J 7-8 Life Sciences
Oakville Christian School, Independent

C19: Memory: Short-term Capacity
Miranda Cloudt
J 7-8 Health Sciences
Oakville Christian School, Independent

C20: How Do You Get Middle "C" With Different Strings?
Glenda Tse
J 7-8 Physical Sciences & Math
Oakville Christian School, Independent

D01: Can compost replace or supplement commercial fertilizers?
Monique Marguerie, Oonagh Scallan
I 9-10 Earth and Environmental
Hillfield - Strathallan College, Independent

D02: Shots for Thought
Jeffrey van Leeuwen, Brent Hill
J 7-8 Physical Sciences & Math
Hillfield - Strathallan College, Independent

D03: The Effect of Household Detergent on the Growth of Plants
Sarah Chauvin, Stephanie Crosty
I 9-10 Life Sciences
Hillfield - Strathallan College, Independent

D04: Candy Crystals
Samantha Richter
J 7-8 Physical Sciences & Math
Hillfield - Strathallan College, Independent

D05: The affect of different concentrations of household cleaners on different strands of bacteria
David Turner, Jamil Ladha
I 9-10 Life Sciences
Hillfield - Strathallan College, Independent

D06: Budgie Seed
Charlotte Fazackerley
J 7-8 Life Sciences
Hillfield - Strathallan College, Independent

D07: The Most Effective Hydroponic Growing Medium
Kaylan Arnoldt-Smith, Erica Otaguro
I 9-10 Biotechnology
Hillfield - Strathallan College, Independent

D08: Hot Roads
Matthew Pawelke
J 7-8 Engineering and Computing
Burlington Christian Academy, Independent

D09: Alternative Insulation made from Old Phonebooks
Andrew Nyland
J 7-8 Earth and Environmental
Burlington Christian Academy, Independent

D10: Do You Get a Rise Out of Your Yeast?
Andrea McQueen
J 7-8 Life Sciences
Burlington Christian Academy, Independent



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EXHIBITOR LISTING continued...

D11: The Physics of Skateboarding

Philip Burakoff, Brandon Love
J 7-8 Physical Sciences & Math
Burlington Christian Academy,
Independent

D12: Chocolate: The newest food group

Kyle Martin
J 7-8 Health Sciences
Burlington Christian Academy,
Independent

D13: A Slippery Slope

Nathan Pelech
J 7-8 Earth and Environmental
Appleby College, Independent

D14: Up, Up and Away!

Cyrus Aga
J 7-8 Physical Sciences & Math
Appleby College, Independent

D15: Bottoms Up Athletes

Charles Gagnon
J 7-8 Health Sciences
Appleby College, Independent

D16: Proteins and a Vegetarian Diet

Yashoda Singh
J 7-8 Health Sciences
Appleby College, Independent

D17: Get Cracking

Devon Allaby
J 7-8 Physical Sciences & Math
Appleby College, Independent

D18: Resisting the Roll

Eric Coomes
J 7-8 Physical Sciences & Math
Appleby College, Independent

D19: Rusting And Metals

Lauren Gurland, Leigh McFadden
J 7-8 Physical Sciences & Math
Appleby College, Independent

D20: Tornadoes

Patrick Aubrey
J 7-8 Earth and Environmental
Appleby College, Independent

E01: Preventing Plant's Pain From Acid Rain

Maggie Szabo, Cameron Brown
J 7-8 Earth and Environmental
Dundas District, HWDSB

E02: Why Use Mercury?

Sam Lawrence, Rita Pikkert
J 7-8 Physical Sciences & Math
Ryerson, HWDSB

E03: Crest vs. Colgate

Amber Hillis, Lucie White
J 7-8 Physical Sciences & Math
Ryerson, HWDSB

E04: Pump the Heart Don't Fall Apart

Vojislav Mitrovic, Sarmad Shaikh
J 7-8 Health Sciences
Sir Wilfrid Laurier, HWDSB

E05: Motion and Inertia

Lauren Sutherland, Linda Sutherland
J 7-8 Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

E06: The Whitening Challenge

Myriah Turner
J 7-8 Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

E07: Germs, I'll Knock You Out!

Jelena Ilic, Angela Kanlic
J 7-8 Life Sciences
Sir Wilfrid Laurier, HWDSB

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info@seldongriffin.com

EXHIBITOR LISTING continued...

E08: Deadly Disinfectants
Lana Kovacevic, Olja Zubic
J 7-8 Life Sciences
Sir Wilfrid Laurier, HWDSB

E09: Water and its Components
Marleigh White, Diana Kanlic
J 7-8 Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

E10: Music Affecting Plant growth
Kimberly Lee
J 7-8 Life Sciences
Sir Wilfrid Laurier, HWDSB

E11: Toothpaste vs. Teeth Stains
Anja Zelenovic, Sujood Razaq
J 7-8 Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

**E12: How Different Surroundings
Affect the Growth of Ivy Plants**
Jennifer Singh, Rachel Kotska
J 7-8 Life Sciences
Templemead, HWDSB

E13: Flush Away Those Symptoms
Emilia Wilk
I 9-10 Health Sciences
Waterdown H.S., HWDSB

**E14: The Effect of Subconscious
Manipulation**
Simran Ohson, Emmett Fraser
I 9-10 Health Sciences
Westdale H.S., HWDSB

E15: Fat Chance
Sonja Maurin
J 7-8 Health Sciences
Westview, HWDSB

E16: Audio vs. Visual Memorization
Russell Fung, Alexandra Mayhew
J 7-8 Health Sciences
Westview, HWDSB

E17: Colour vs Taste
Alec Weis
J 7-8 Health Sciences
Appleby College, Independent

E18: Tempering Steel
Evan Simpson-Hull
J 7-8 Physical Sciences & Math
Appleby College, Independent

**E19: Make haste with taste, lest time
you waste**
Kieffer Moxness
J 7-8 Health Sciences
Appleby College, Independent

E20: The Raw Egg Mystery
Aaron Hakim
J 7-8 Health Sciences
Appleby College, Independent

F01: Purifying Water With Shells
Rianka Singh
J 7-8 Earth and Environmental
Dundas District, HWDSB

F02: Salt's Fault
Lisa Freidland, Deelan Patel
J 7-8 Earth and Environmental
Dundas District, HWDSB

F03: Wind Power
Nick Weaver
J 7-8 Engineering and Computing
Dr. John Seaton, HWDSB

F04: What Makes Mould Mould?
Diana Jia
J 7-8 Life Sciences
Dalewood, HWDSB

F05: Suck It Out!
Emily Arndt, Keisha Quinn
J 7-8 Biotechnology
Dalewood, HWDSB

**Hillfield Strathallan College is
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*"Congratulations to the participants in the 2004 Bay Area Science
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Hillfield  
Strathallan

EXHIBITOR LISTING continued...

F06: Mummifying a Chicken
 Jasmine Dong, Julia Kochuk
 J 7-8 Life Sciences
 Dalewood, HWDSB

F07: Save Energy, Save the Earth
 Anne Marie Child
 J 7-8 Earth and Environmental
 Dalewood, HWDSB

F08: How fast can I get some Pi?
 Gautam Kamath, Daniel Lultschik
 J 7-8 Physical Sciences & Math
 Dalewood, HWDSB

F09: Sock Search
 Bronwyn Barlow Cash, Alethea
 Rockwell
 J 7-8 Physical Sciences & Math
 Dalewood, HWDSB

F10: Crystal Shapes
 Greenlay Benjamin
 J 7-8 Physical Sciences & Math
 Dalewood, HWDSB

F11: Forget Me Not
 Ishani Dayananda
 J 7-8 Health Sciences
 Dalewood, HWDSB

F12: Corrosion-Free Driving
 Lingfei Liu
 J 7-8 Engineering and Computing
 Dalewood, HWDSB

F13: Zap It!
 Chenwei Ji, Michael Kovacevic
 J 7-8 Physical Sciences & Math
 Dalewood, HWDSB

F14: The Davis Effect
 Eleanor Knowles, Ryan Barwin
 J 7-8 Health Sciences
 Dalewood, HWDSB

F15: White or Safe
 Merryn Maynard, Sarah Eastwood
 J 7-8 Physical Sciences & Math
 Dalewood, HWDSB

F16: Combined Cleaning: Which Works Best?
 Sharin Huda, Nabila Choudhury
 J 7-8 Physical Sciences & Math
 Bennetto, HWDSB

F17: Dishes Done Better
 Mateen Masoomy
 J 7-8 Physical Sciences & Math
 Bennetto, HWDSB

**F18: Pass Completion or
 Interception II - Pump It Up!**
 David Cocchiarella
 I 9-10 Health Sciences
 St.Thomas More H.S., HWCDSB

F19: The Toils of Coils
 Sean Curtis
 I 9-10 Engineering and Computing
 St.Thomas More H.S., HWCDSB

F20: Got Milk?
 Chris Marco
 J 7-8 Physical Sciences & Math
 St. Thomas, HWCDSB

G01: Watts up with Torque!
 Dayna Walker
 I 9-10 Engineering and Computing
 St. Mary's H.S., HWCDSB

**G02: Particulate "matters", or does it?:
 The effects of population increase on air quality**
 Jordan Bowman
 I 9-10 Earth and Environmental
 St. Mary's H.S., HWCDSB



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EXHIBITOR LISTING *continued...*

G03: The Effects of Size Differentials in Visual Stimuli on Short and Long Term Memory - Expanded

Kaitlynn-Rae Landry
I 9-10 Health Sciences
St. Mary's H.S., HWCDSB

G04: Can You Remember This?

Brittany Gurman, Alexandra Hul
J 7-8 Health Sciences
St. Paul, HWCDSB

G05: Let the sun shine in!

Martin Chmielecki, Gregory De Tina
J 7-8 Physical Sciences & Math
St. Paul, HWCDSB

G06: Remember That...?

Ashley Jambrosich, Erica Brown
J 7-8 Health Sciences
St. Paul, HWCDSB

G07: Why Warmups?

Jennifer Iacobucci, Olivia Jackson
J 7-8 Health Sciences
St. Paul, HWCDSB

G08: Hand Eye Coordination Boys

Vs. Girls

Anna Chrisanthopoulos, Tayler Doyle
J 7-8 Health Sciences
St. Paul, HWCDSB

G09: Soft as a marshmallow?

Melissa Bauce
J 7-8 Health Sciences
St. Teresa of Avila, HWCDSB

G10: Energizer vs. Duracell, Which one Really Keeps On Going

Ryan King
J 7-8 Physical Sciences & Math
St. Teresa of Avila, HWCDSB

G11: Ozone Helpful Or Harmful?

Angela Chiarelli
J 7-8 Earth and Environmental
St. Teresa of Avila, HWCDSB

G12: How Fat Is It?

Rachel Finucane, Lauren Arruda
J 7-8 Physical Sciences & Math
St. Teresa of Avila, HWCDSB

G13: Free As The Wind

Alexandra Banevicius

J 7-8 Earth and Environmental
St. Teresa of Avila, HWCDSB

G14: Meltdown

Melissa Goddard
J 7-8 Physical Sciences & Math
St. Teresa of Avila, HWCDSB

G15: I've Got my Eye on You

Helena Foulds
J 7-8 Health Sciences
St. Teresa of Avila, HWCDSB

G16: Nothing To Sneeze At

Greg Marco, Evan Albert
J 7-8 Life Sciences
St. Thomas, HWCDSB

G17: Eat The Wrap


Katie Gair, Nichole Mckay
J 7-8 Earth and Environmental
St. Thomas, HWCDSB

G18: For Better or For Thirst

Rebecca Flynn
J 7-8 Physical Sciences & Math
St. Thomas, HWCDSB

G19: Fruit Energy

Justine Chiasson



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Best wishes and good luck to all BASEF 2004 participants!

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inspiring minds • saving lives

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EXHIBITOR LISTING continued...

J 7-8 Physical Sciences & Math
St. Thomas, HWCDSB

G20: Coke vs. Milk on Teeth
Brock Novak, Ben Alexander
J 7-8 Life Sciences
St. Thomas, HWCDSB

H01: The Power Of Salt
Estefan Mejia
J 7-8 Physical Sciences & Math
St. Mark, HWCDSB

H02: To sleep or not to Sleep?
Justin Balsor, Marcel Galli
J 7-8 Health Sciences
St. Mark, HWCDSB

H03: Fascinating Forensics
Courtney Dionne
J 7-8 Physical Sciences & Math
St. Mark, HWCDSB

H04: Is Your Money Going Down the Drain?
Margaret Kaczanowski
J 7-8 Physical Sciences & Math
St. Mark, HWCDSB
H05: If the Earth was Square...
Natalie Michalski

J 7-8 Earth and Environmental
St. Mark, HWCDSB

H06: What Paint Holds Up
Erik Bilobrk
J 7-8 Physical Sciences & Math
St. Mark, HWCDSB

H07: Deicers! Melt Ice or Corrode Metal
Brant Bilobrk
J 7-8 Physical Sciences & Math
St. Mark, HWCDSB

H08: Mysteries of the Mind
Kathleen Dickson
J 7-8 Health Sciences
St. Mark, HWCDSB

H09: Enzymes In Action
Chiara Genovese
J 7-8 Life Sciences
St. Margaret Mary, HWCDSB

H10: MEMORIZING GRAPHICS
David Potter
J 7-8 Health Sciences
St. John the Baptist, HWCDSB

H11: Mathematical Inclination and Recreation

Margaret Martin
J 7-8 Health Sciences
St. John the Baptist, HWCDSB

H12: Coke Mmm... Bad
Taylor Oliver, Roula Giore
J 7-8 Health Sciences
St. John the Baptist, HWCDSB

H13: Organic vs. Synthetic
Lindsay Mills-Lundrigan, Jane-Frances MacDonald
J 7-8 Earth and Environmental
St. John the Baptist, HWCDSB

H14: No Stain, That's A Gain
Eric Cornell, Patrick Keating
J 7-8 Physical Sciences & Math
St. John the Baptist, HWCDSB

H15: Just A Breath Away
Olivia Virag
J 7-8 Health Sciences
St. John the Baptist, HWCDSB

H16: What Are Your Energy Pigs?
Julia Kay
J 7-8 Earth and Environmental
St. John the Baptist, HWCDSB
H17: Substance Freeze
Andrew Folino, James Ballarano

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

J 7-8 Physical Sciences & Math
St. John the Baptist, HWCDSB

H19: How Slow Can You Go?
Adam Hart, Ryan Sguigna
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

H20: Shake N' Quake
Jordan Pietroniro, Jessica Carducci
J 7-8 Engineering and Computing
St. Joachim, HWCDSB

I01: Melting Ice
Ashleigh-Anne Gureckas
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

I02: I've Got Gas!
Justin Rich
J 7-8 Earth and Environmental
St. Joachim, HWCDSB

I03: Electrolytes Or Non-Electrolytes?
Michael Chesla, Patrick Reilly
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

I04: Harmful or Helpful
Lindsay Sobiera

J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

I05: Which Whitens Best?
Carly O'Neill, Tamara Kajah
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

I06: Buoyancy Will it float or Will it sink?
Samantha Cavallin
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

I07: Look What's Popping!
Dunne Jacklyn
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

I08: Do You C What I C ?
Rachel Mason
J 7-8 Physical Sciences & Math
St. Jerome, HWCDSB

I09: Sand and Soil
Matthew Davis
J 7-8 Life Sciences
St. Jerome, HWCDSB

I10: Banishing Bacteria
Savannah Baronette

J 7-8 Life Sciences
St. Jerome, HWCDSB

I11: The Hot Hand
Victor Raso
J 7-8 Health Sciences
St. Jerome, HWCDSB

I12: Don't Stick with Non-Stick
Robert Perez
J 7-8 Physical Sciences & Math
St. Jerome, HWCDSB

I13: Trusses
Bradley Dunn
J 7-8 Engineering and Computing
St. Jerome, HWCDSB

I14: If you can't run you've, got to hide
Andrea Urquhart, Lidia Palfi
J 7-8 Health Sciences
St. Jerome, HWCDSB

I15: Can Food Affect Athletic Ability?
Tamara Learning, Zoe Anderson
J 7-8 Health Sciences
St. Jerome, HWCDSB

I16: Freezing Points Of Water
Elizabeth Burns

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**Best wishes to all BASEF
2004 participants**

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**Congratulations
and best wishes
for continued success to all
BASEF 2004 participants.**

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EXHIBITOR LISTING continued...

J 7-8 Earth and Environmental
St. Jerome, HWCDSB

I17: Like Dissolves Like

David Martynowicz, George Aushana
J 7-8 Physical Sciences & Math
St. Jerome, HWCDSB

I18: Apple Deterioration

Marina Mancini, Meghan D'Angelo
J 7-8 Life Sciences
St. Jerome, HWCDSB

I19: The pH Factor

Diana Hanna
J 7-8 Physical Sciences & Math
St. Jerome, HWCDSB

I20: What's the Point?

David Martinac, Stefan Pogoda
J 7-8 Health Sciences
St. James the Apostle, HWCDSB

J01: Smoke Chambers

Chelsea Paquette, Carmela Fuca
J 7-8 Life Sciences
St. Agnes, HWCDSB

J02: You Light Up My Life!

Joe Sardo
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

J03: Zap!

Daniel Vastano
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

J04: Brilliant Sparkle

Jenna Wild
J 7-8 Physical Sciences & Math
St. Augustine, HWCDSB

J05: Zany Xylems!

Chelsea White
J 7-8 Life Sciences
St. Augustine, HWCDSB

J06: To Preserve and Serve

Sarah Macaluso, Rebecca Kearon
J 7-8 Life Sciences
St. Augustine, HWCDSB

J07: Tremendous Trebuchets

Patrick Langille, Justin Bontje
J 7-8 Engineering and Computing
St. Augustine, HWCDSB

J08: Super Beans

Marina Han
J 7-8 Life Sciences
St. Augustine, HWCDSB

J09: Aww...Don't Cry!

Rachel Welsh, Alysha Socha
J 7-8 Physical Sciences & Math
St. Augustine, HWCDSB

J10: The Beat Goes On

Cassie Sauer, Vanessa Bonomo
J 7-8 Health Sciences
St. Bernadette, HWCDSB

J11: Fly! Airplane Fly!

Wes Gerrie
J 7-8 Physical Sciences & Math
St. Bernadette, HWCDSB

J12: Sound laser mania

Alexis Butty
J 7-8 Engineering and Computing
St. Bernadette, HWCDSB

J13: Science or Science Fiction?

Torianne Ipema
J 7-8 Health Sciences
St. Bernadette, HWCDSB

***Congratulations and good luck
to all participants
in the 2004
Bay Area Science and Engineering Fair!***



**Stoney Creek
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EXHIBITOR LISTING continued...

J14: Balancing Beams
Diane Sivakumaran
J 7-8 Physical Sciences & Math
St. Bernadette, HWCDSB

J15: Expense vs. Environment
Taryn Karl, Jennifer Vaughan
J 7-8 Health Sciences
St. Bernadette, HWCDSB

J16: Right On, or Left Out?
Lindsay Abbott
J 7-8 Health Sciences
St. Bernadette, HWCDSB

J17: Water Clarification
Cierra Butty, Amanda Kramer
J 7-8 Earth and Environmental
St. Bernadette, HWCDSB

J18: Memory in all its Glory
Cathy Gainham
J 7-8 Health Sciences
St. Cecilia, HWCDSB

J19: Breath of Death
Alexandria Marriott, Chantalle Gallant
J 7-8 Health Sciences
St. James the Apostle, HWCDSB

J20: Environmentally Friendly Products
Nella Paris, Cindy Baldin
J 7-8 Earth and Environmental
St. James the Apostle, HWCDSB

K01: Energy Conservation & You
Amanda Rispoli, Brittany Horodecki
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

K02: Water Pollution What's the Solution?
Nicholas Vastano, Shawn Krzykala
J 7-8 Earth and Environmental
St. Agnes, HWCDSB

K03: I have gas
Ryan Duguay
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

K04: Corrosion Explosion
Mack Stewart, Stephen Di Luca
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

K05: Ker-Plunk
Ken Weston
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

K06: To "C" Or Not To "C"
Pauline Nichol
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

K07: Betcha Can't Eat Just One!
Julia Brucculieri
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB

K08: H2O How Clear Are We On How Clean It Is ?
Nick Petrina, Aaron Petrina
J 7-8 Earth and Environmental
St. Agnes, HWCDSB

K09: Don't be alarmed
Brittany Power, Catherine Ferroni
J 7-8 Physical Sciences & Math
St. Agnes, HWCDSB


K10: The effects of second hand smoke
Caroline Ssemanda, Julie D'Ortenzio
J 7-8 Health Sciences
Our Lady of Lourdes, HWCDSB

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BASEF 2004
participants!***



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EXHIBITOR LISTING continued...

K11: V&S Stain Busters- Our Homemade Laundry Detergent
Stephanie Di Bartolo, Vanessa Giglia
J 7-8 Earth and Environmental
Our Lady of Lourdes, HWCDSB

K12: Hydro-Electricity
Jo-laura Mackin, Amberlea Dewar
J 7-8 Engineering and Computing
Our Lady of Lourdes, HWCDSB

K13: Density
Rachael Viveiros
J 7-8 Physical Sciences & Math
Our Lady of Lourdes, HWCDSB

K14: The Electrical Stimulation Of Plant Growth
Katherine Hale, Ashley Muller
J 7-8 Life Sciences
Our Lady of Lourdes, HWCDSB

K15: Foods Genetically Modified
Ashley Kucik, Claudia Chan
J 7-8 Health Sciences
Our Lady of Lourdes, HWCDSB

K16: Coloured Sugar Crystals
Shilir Gorgees
J 7-8 Physical Sciences & Math
Our Lady of Lourdes, HWCDSB

K17: Eiffel Tower
Daniel Kuziora
J 7-8 Engineering and Computing
Our Lady of Lourdes, HWCDSB

K18: Light bulb and eye vision
Santa Rabi
J 7-8 Health Sciences
Our Lady of Lourdes, HWCDSB

K19: Friction
Elizabeth Giangregorio
J 7-8 Physical Sciences & Math
Our Lady of Lourdes, HWCDSB

L01: Differences in Reflexes
Elisa Sorbara, Kathleen Dewar
J 7-8 Health Sciences
Templemead, HWDSB

L02: Battle of the Sexes!
Alex Consoli, Preston Thompson
J 7-8 Health Sciences
Ryerson, HWDSB

L03: Automated Solar Greenhouse for Southern Ontario
Andrew Jackman, Andrew Bello
I 9-10 Engineering and Computing
Parkside H.S., HWDSB

L04: The Effects of Different Types of Light on Bean Plants
Lucy Vorobej, Sarah Barton
J 7-8 Life Sciences
Dundas District, HWDSB

L05: Solar cell science
Lucas Chaston, Craig Treen
J 7-8 Physical Sciences & Math
Dundas District, HWDSB

L06: Astrophysics for All
Brian Le
J 7-8 Earth and Environmental
Dalewood, HWDSB

L07: Don't get caught Dirty Handed
Emma Currie, Monica Vanderzanden
J 7-8 Health Sciences
Dalewood, HWDSB

L08: The Truth, the Whole Truth and Nothing But the Truth
Cody Aitken, Emily Lamond
J 7-8 Health Sciences
Dalewood, HWDSB



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Communicate in an open, honest and intelligent manner.
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Innovation... We will:

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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.
Honour our commitments.

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EXHIBITOR LISTING continued...

L09: Gut Reactions: A Histological Investigation of the Effect of Helicobacter Pylori in the Development of Gastric Cancer

Natalie Raso
I 9-10 Health Sciences
St.Thomas More H.S., HWCDSB

L10: Invisible Cryptography - A Medical Application

Anthony Chiarelli
I 9-10 Engineering and Computing
St.Thomas More H.S., HWCDSB

L11: Filling Ill? Phase II: The toxicity of Dental Amalgam Fillings

Ryan Perez
I 9-10 Physical Sciences & Math
St.Thomas More H.S., HWCDSB

L12: Energy in the Air

Jordan Witt
J 7-8 Physical Sciences & Math
St. Thomas, HWCDSB

L13: GERMS R' US!

Michelle Browne
J 7-8 Health Sciences
St. Teresa of Avila, HWCDSB

L14: Growing Salt Crystals

Colin Sill
J 7-8 Physical Sciences & Math
St. Joachim, HWCDSB

L15: Skin Cells

Ellen Switenky, Lisa D'Ippolito
J 7-8 Health Sciences
St. Jerome, HWCDSB

L16: Rubber Band Heat Engine

Hillary Giles, Lisa Costantini
J 7-8 Engineering and Computing
St. Cecilia, HWCDSB

L17: Fighting Fertilizers Chemical vs. Organic

Terry Fader
J 7-8 Earth and Environmental
Notre Dame, BHNCDSE

L17: Gliding Around

Nicholas Ivanecky
J 7-8 Engineering and Computing
St. Bernadette, HWCDSB

L18: Sailing

Aaron Pede
J 7-8 Physical Sciences & Math
St. Augustine, HWCDSB

L19: Now You See it, Now you Don't

Aaron Giles
J 7-8 Health Sciences
St. Augustine, HWCDSB

L20: Computer Power

Alex Romanowski, Daniel Van Amelsvoort
J 7-8 Engineering and Computing
St. Augustine, HWCDSB

M01: SARS

Veronica Nguyen
J 7-8 Health Sciences
St. Ann (Hamilton), HWCDSB

M02: Cookin' it up!

Victoria Leng-Marini, Alanna Spinelli
J 7-8 Physical Sciences & Math
Immaculate Heart of Mary, HWCDSB

M03: Environmentally Safe Hydrocarbon Transporter

Colin Reinholt
J 7-8 Engineering and Computing
Eastview, HDSB

M04: Ozone fights mold

Devin Mcdonald
J 7-8 Life Sciences
Eastview, HDSB

M05: Electrostatic loudspeaker vs conventional

Jason Magela
S 11-12 Physical Sciences & Math
Aldershot Elementary, HDSB

M06: Why Smell When You Can Hide It!!!!

Kristina Kuffel, Maria Okroukh
J 7-8 Health Sciences
St. Joseph (Halton Hills), HCDSB

M07: Seeing is Believing: An Application of a Geographical Information System

Nicolas Querques, John Spehar
J 7-8 Engineering and Computing
St. Joseph (Halton Hills), HCDSB

M08: Hot or Not !

Paul Falkowski
J 7-8 Health Sciences
St. Andrew, HCDSB

M09: Math-U-Lator v2.0

Matt Carmichael, Kevin Langlois
J 7-8 Engineering and Computing
Sacred Heart of Jesus, HCDSB

M10: Gas from Garbage Part 2

Andrew Darby
J 7-8 Biotechnology
Sacred Heart of Jesus, HCDSB

M11: The Effects of Human Medication on Lepidium Sativum and Raphanus Sativus

Marianne Querques
S 11-12 Health Sciences
Christ the King Secondary School, HCDSB

M12: Corrosion Control: Spanning the Test of Time

Joseph Querques
I 9-10 Engineering and Computing
Christ the King, HCDSB

N01: Shed Some Light

Deven Duncombe
I 9-10 Engineering and Computing
Assumption H.S., HCDSB

N02: Windows to their World

Kayla Cornale
I 9-10 Health Sciences
Assumption H.S., HCDSB

N03: HydroFlow

Simon Baker
J 7-8 Earth and Environmental
Dunnville Central, GEDSB

N04: Innocent Victims

Lauren Mills
J 7-8 Health Sciences
Immaculate Heart of Mary, HWCDSB

N05: N.D.T. Magnets At Work

Devin Yakowyschuk
J 7-8 Physical Sciences & Math
Immaculate Heart of Mary, HWCDSB

EXHIBITOR LISTING continued...

N06: What's Shakin'?

Laura Casimirri, Denise Ionico
J 7-8 Earth and Environmental
Immaculate Heart of Mary, HWCDSB

N07: Beam There, Done That!

Peter MacCauley
J 7-8 Physical Sciences & Math
Holy Spirit, HWCDSB

N08: Titration of Dissolved Oxygen

Irene Rebalka
J 7-8 Earth and Environmental
Holy Spirit, HWCDSB

N09: Evaporation Consequences

Augustine Krawchenko
J 7-8 Earth and Environmental
Holy Spirit, HWCDSB

N10: That Cracks Me Up

Tommy Hoang, Steve Toms
J 7-8 Engineering and Computing
Holy Name of Jesus, HWCDSB

N11: Ice Be Gone

Anthony Zoccoli
J 7-8 Physical Sciences & Math
Holy Name of Jesus, HWCDSB

N12: Somehow... Make Me Grow

Brenda Camey, Sandi Ferreira
J 7-8 Life Sciences
Holy Name of Jesus, HWCDSB

N13: Toss Up

Kevin Walton
J 7-8 Physical Sciences & Math
Holy Name of Jesus, HWCDSB

N14: Toothpick Power

Chiove Monaco, Whitney Zielonka
J 7-8 Physical Sciences & Math
Holy Name of Jesus, HWCDSB

N15: The Battle of the Stains

Sabrina Paulino, Andrea Mejia
J 7-8 Physical Sciences & Math
Holy Name of Jesus, HWCDSB

N16: Colour Confusion

Ricky Domingues
J 7-8 Health Sciences
Holy Name of Jesus, HWCDSB



P05: how medications affect the human body

Ciara Logar
J 7-8 Health Sciences
St. Bernadette, HCDSB

P06: Sparky the Hydraulic Arm

Emily Gatza, Rachel Sousa
J 7-8 Engineering and Computing
St. Dominic, HCDSB

P07: Hydraulic Arm

David Burns, Adrien Staples
J 7-8 Engineering and Computing
St. Dominic, HCDSB

P08: Food Colour and Taste; Food Colour and Health

Genevieve Ryan, Amanda Nelles
J 7-8 Health Sciences
St. Joseph (Halton Hills), HCDSB

P09: The Longevity of Milk Varieties

Emma Borkowski, Samantha Fowler
J 7-8 Life Sciences
St. Joseph (Halton Hills), HCDSB

P10: Mould Killers

Michael Brown, Megan Rudisi
J 7-8 Life Sciences
St. Joseph (Halton Hills), HCDSB

P11: Eye See What's Not There

Joanna Kaleniecka, Laura Cormier
J 7-8 Health Sciences
St. Matthew, HCDSB

P12: The Tooth Behind It All

Katarina Bassan, Amanda Paul
J 7-8 Health Sciences
St. Matthew, HCDSB

P13: More Than a Jolt From a Bolt

Heather McQueen
I 9-10 Earth and Environmental
Aldershot H.S., HDSB

P14: Problems with the Blueprints of Our Body

Natalie Fox
J 7-8 Health Sciences
Eastview, HDSB

EXHIBITOR LISTING continued...

P15: The effects and remediation of a copper polluted ecosystem

Patrick Martin
I 9-10 Earth and Environmental
Bishop Ryan H.S., HCDSB

P16: Waste Washers : An Investigation of the Removal of E. coli K12 from Water within a Constructed Wetland Model

Madeleine Martin
I 9-10 Earth and Environmental
Bishop Ryan H.S., HCDSB

P17: Burning Rubber

Andrew Black, Carson Tarbutt
J 7-8 Engineering and Computing
Holy Name of Jesus, HCDSB

P18: Suck it up

Sara Moffatt, Ashley Zajackowski
J 7-8 Life Sciences
Holy Name of Jesus, HCDSB

P19: Plant Refreshments

Jacob Downey
J 7-8 Life Sciences
Holy Name of Jesus, HCDSB

P20: Worth Its Weight

Chris Echlin
J 7-8 Earth and Environmental
Holy Name of Jesus, HCDSB

Q05: Colour Confusion

Jess Bigda, Marisa Meleca
J 7-8 Health Sciences
St. Bernadette, HCDSB

Q06: Found At Your Fingertips

Melany Gaetani, Shannon Griffin
J 7-8 Health Sciences
St. Bernadette, HCDSB

Q07: Does the nose know?

Steph Bujna, Lauren Tracey
J 7-8 Health Sciences
St. Bernadette, HCDSB

Q08: Quick Caffeine!

Stef Cuberovic, Danie Lewis
J 7-8 Health Sciences
St. Bernadette, HCDSB

Q09: Gel, Paste, Strips or Baking**Soda: What makes your teeth whiter?**

Monica Maher
J 7-8 Physical Sciences & Math
St. Bernadette, HCDSB

Q10: Most waterproof sun block...

Paulina Maher
J 7-8 Physical Sciences & Math
St. Bernadette, HCDSB

Q11: Bubble Gum Smarts

Nicole Morrison, Michelle Tracey
J 7-8 Health Sciences
St. Bernadette, HCDSB

Q12: Sugar Bombs

Meghan Palozzi
J 7-8 Health Sciences
St. Andrew, HCDSB

Q13: Beautiful Bountiful Bananas

Andrew Quinn
J 7-8 Biotechnology
Sacred Heart of Jesus, HCDSB

Q14: A Grade Seven Girl's Attitude Towards Body Image

Katie Housley
J 7-8 Health Sciences
Sacred Heart of Jesus, HCDSB

Q15: Time for Thyme

Sacha Forstner
J 7-8 Life Sciences
Sacred Heart of Jesus, HCDSB

Q16: The Catapult Duel- Force Vs. Distance

Brandon Chaffay, Andrew Derayah
J 7-8 Physical Sciences & Math
Sacred Heart of Jesus, HCDSB

Q17: The Rust of Iron

Taylor Pastusiak
J 7-8 Physical Sciences & Math
Sacred Heart of Jesus, HCDSB

Q18: The Genius of the Sinister Hand

Kevin Correia, Leanne Bekeris
S 11-12 Health Sciences
Bishop P.F. Reding H.S., HCDSB

Q19: Pulse Pumping Action

Matthew Maich
J 7-8 Health Sciences
Notre Dame, BHNCD SB

Q20: Environmentally Friendly Ice Removal

Daniel Szoke
J 7-8 Physical Sciences & Math
Notre Dame, BHNCD SB



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Prize: 1st: \$500, 2nd: \$300, 3rd: \$200

Criteria: Deserving projects by Hamilton students in the Biotechnology category.

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: \$25 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 creative display.

Bell Canada Computer and Communications Awards

Prize: 1st: \$1,000; 2nd: \$500.

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

Canadian Finishing Systems Award

Prize: \$250

Criteria: Best project in the Earth & Environmental Sciences category, any level.



**Union Gas congratulates all entrants
in the 2004
Bay Area Science and
Engineering Fair**



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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 regardless of level.

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 Programme 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.

Dr. Colin J.L. Lock Memorial Chemistry Award

Prize: \$75

Criteria: Project demonstrating the best application of chemistry.

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.

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 Environmental Award

Prize: \$100

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

Dofasco Hot Mill Award

Prize: \$100

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

Dofasco 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.

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 Market Development and Product Application Award

Prize: \$100

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

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.

SPECIAL AWARDS continued...

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 Technology Awards

Prize: \$100

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

Prize: \$100

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

Prize: \$100

Criteria: Deserving project that uses Information Systems and design 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. M. Doyle Award

Prize: A trophy for the winner's school; a plaque and \$150 to the winner.

Criteria: Best biology project.

Eastman Kodak Company Photography Award

for regional science fairs affiliated with the Intel International Science & Engineering Fair

Prize: A Kodak Digital 35mm One Time Use camera for each of the winner and the sponsoring teacher.

Criteria: Project best demonstrating the best use of photographic or digital image processing to gather data, solve a problem, or clearly explain the essence of a science project.

The Electrical Construction Association of Hamilton Award

Prize: \$150

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

Congratulations on your accomplishments!

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Montréal, Québec
H4P 2S4**

**Tel: 514-735-5651 ext 2297
Fax: 514-737-7988**

SPECIAL AWARDS continued...

Hamilton Amateur Astronomers Award

Prize: Book plus a one year membership in the Hamilton Amateur Astronomers
Criteria: Project that best demonstrates an understanding of a topic related to astronomy.

Hamilton Utilities Corporation / Hamilton Community Energy - powerWise™ Award

Prize: One award of \$300
Criteria: The project that best demonstrates the production of electrical energy from 'green sources' OR the project that demonstrates a new, viable approach to using electrical energy more efficiently.

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.

IEEE Hamilton Section Award

Prize: \$10: 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 Computer Science project and the top Environmental Science project; intermediate and senior projects only

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

ASM International Foundation: outstanding exhibit in materials science.

American Meteorological Association: Best meteorological exhibit.

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

International Society for Optical Engineering: Best project in the area of optical science and engineering.

MU Alpha Theta : Best project demonstrating the most challenging, thorough and creative investigation of a problem involving modern mathematics. The project does not have to be entered in the Mathematics category.

NACE International: Best exhibit in Environmental Science or Engineering, demonstrating awareness of the importance of controlling and preventing corrosion.

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

Investigative Science Award

Prize: \$100

Criteria: The project that best demonstrates problem solving, any category, any level

McMaster University Department of Chemistry Award

Prize: \$100 plus certificate

Criteria: An outstanding senior or intermediate project in the area of chemistry

McMaster Engineering Society Award

Prize: \$250

Criteria: Best junior engineering project.

SPECIAL AWARDS continued...

McMaster Nuclear Reactor Award

Prize: \$250

Criteria: For a deserving project relating to radiation sciences.

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.

Electro Technology Awards

Prize: \$50 for each of 2 projects

Criteria: Deserving junior projects in engineering studies.

Computer Science & Information Technology - Computer Excellence Award

Prize: \$50

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

"Best Wishes and Congratulations to all the BASEF Students"

from

Triple Crown Enterprises Ltd.

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**Best wishes and good luck
to all the students
participating in the 2004
Bay Area Science &
Engineering Fair.**

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SPECIAL AWARDS continued...

Mechanical & Industrial Engineering Technology Awards

Prize: \$50

Criteria: One deserving project related to any branch of industrial engineering or manufacturing; can include Quality Systems and Instrumentation, any level.

Prize: \$50

Criteria: One deserving project related to hydraulics or pneumatics; can include Quality Systems and Instrumentation, any level.

Prize: \$50

Criteria: One deserving project related to metal casting; can include Quality Systems and Instrumentation, any level.

Mohawk College 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.

Nicola Simmons Award in Cognition Studies

Prize: \$75

Criteria: An exemplary project in cognition.

Ontario Association of Medical Laboratories

Prize: \$170

Criteria: Best medical laboratory science project.

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**Congratulations
and good luck
to all participants
of
BASEF 2004**



JOHN DEERE

SPECIAL AWARDS continued...

Primary Fluids Systems Awards

Primary Fluids Systems Engineering Awards

Prize: \$250, \$150, \$100

Criteria: Deserving projects in junior engineering.

Prize: \$250, \$150, \$100

Criteria: Deserving projects in intermediate engineering.

Primary Fluids Systems Physical Sciences Awards

Prize: \$125, \$75, \$50

Criteria: Deserving projects in junior physical sciences.

Prize: \$125, \$75, \$50

Criteria: Deserving projects in intermediate physical sciences.

Primary Fluids Systems Earth & Environmental Awards

Prize: \$125, \$75, \$50

Criteria: Deserving projects in junior earth & environment.

Prize: \$125, \$75, \$50

Criteria: Deserving projects in intermediate earth & environment.

Professional Engineers of Ontario (Hamilton Local Chapter) Awards

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

Criteria: For top projects using the application of engineering skills, any level.

Professional Engineers of Ontario (Oakville Chapter)

Prize: \$50 to each of two projects

Criteria: Deserving engineering projects.

Procor Awards

Prize: Junior \$50; Intermediate \$100; Senior \$150

Criteria: Excellent engineering projects.

Ramanujan Mathematics Awards

Prize: \$100 each for up to three projects.

Criteria: Projects demonstrating a strong mathematical base.

Royal Botanical Gardens Award

Prize: \$100 gift certificate for the RBG shop and a one year family membership to the RBG.

Criteria: Best project in botanical or environmental sciences.

Safety Management Systems Software Award

Prize: \$100 and a plaque

Criteria: A project that incorporates the innovative integration of programming code to analyze data or to operate a piece of equipment.

Scientific American Subscription Awards

Prize: Five 12-month subscriptions.

Criteria: Deserving projects.

Science Teachers Association of Ontario Awards

Prize: \$75 to each of two projects.

Criteria: Projects demonstrating the best use of the scientific method; junior level.

The Tinnerman Palnut Canada Corporation Award

Prize: \$250

Criteria: For the best engineering 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.

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

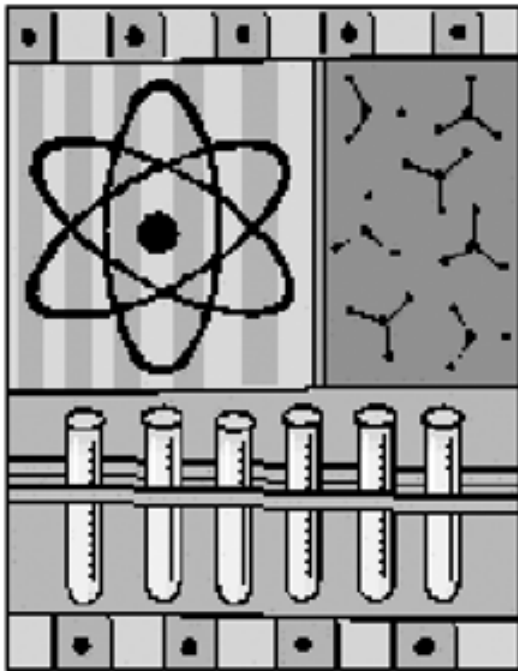
For Junior, Intermediate, Senior levels in:

- 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 2004 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.

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 AWARDS

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

BEST-IN-FAIR 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.

2004 PFIZER CANADA MINISTER'S AWARD OF EXCELLENCE

The top project from BASEF 2004 that is advancing to CWSF, will earn the 2004 Pfizer Canada Minister's Award of Excellence. The winning project will receive a cash award, a Gold Medal and a Certificate from Ontario's Minister of Enterprise, Opportunity and Opportunity. 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 2004 Intel International Science & Engineering Fair, to be held in Portland, Oregon, USA from May 9-15, 2004. 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.



Sponsors are

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- Sheridan Institute of Technology

CANADA WIDE SCIENCE FAIR TRIP AWARDS

All expense-paid trips to the 2004 Canada Wide Science Fair, to be held St. John's Newfoundland from May 15-23, 2004. Up to 20 trips (dependant on funding levels) will be awarded for excellent projects. All projects entered in BASEF 2004 are eligible.

Sponsors are

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- Stoney Creek Optimists
- Triple Crown Enterprises
- Union Gas



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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 emblazoned with an embroidered 2004 Team Sci-Tech Ontario logo.





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