

OFFICIAL PROGRAM

BASEF 2009

49th Annual
Bay Area Science & Engineering Fair

Mohawk College of
Applied Arts and Technology
March 25 to March 28, 2009

Sponsored by:



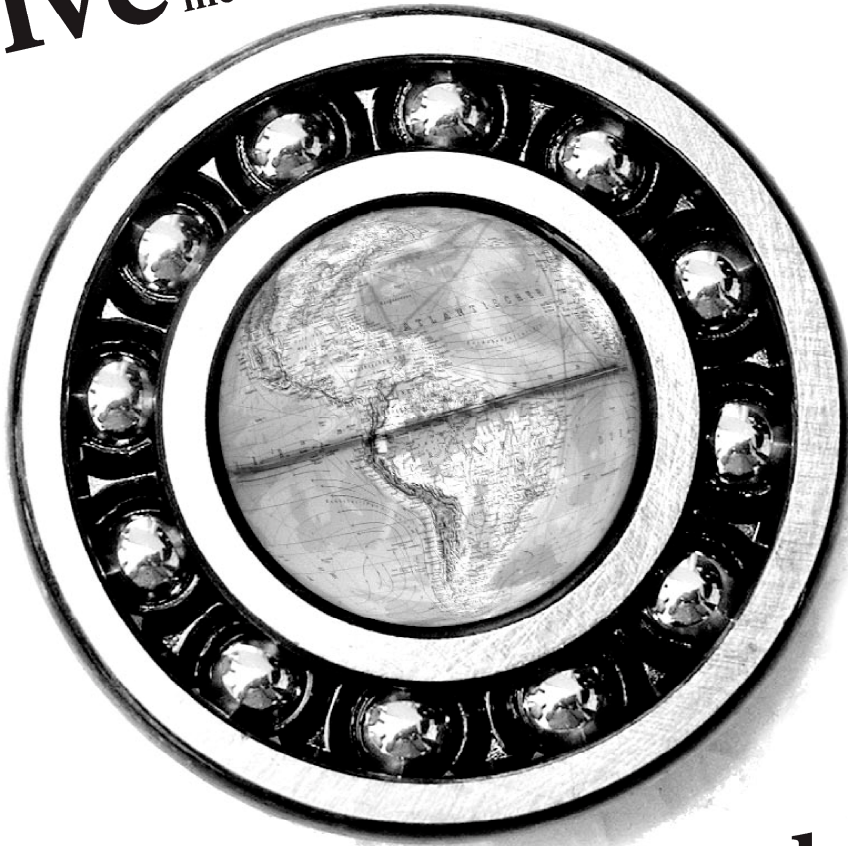
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**Big ideas.
Infinite possibilities.**

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



...and I shall **move the world.**”

-Archimedes

Congratulations to all BASEF participants.

Be innovative. Be creative. Make things move.

You are the future and we salute you.

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

mail: basef@basef.ca
web site: www.basef.ca

Registered Charity: BN 11895 1565 RR0001

BASEF 2010
McMaster University
March 24 to March 27, 2010



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49th

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

Best Wishes to all participants!

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09



A MESSAGE FROM THE BASEF CHAIR

Ray Kranyak

This is the 49th consecutive year of operation for the Bay Area Science and Engineering Fair (BASEF). The organizing committee members have changed through the years, but the mission remains the same: 'to encourage young people in science and engineering'.

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

A very sincere thank-you to our Honourary Co-Chairs, Joyce Savoline, Member of Provincial Parliament, Burlington, and Education Critic, and Hamilton Mayor Fred Eisenberger who continue the tradition of community support to our cause and promote our students whenever they get the opportunity to do so.

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

We are extremely proud to say that ArcelorMittal Dofasco has taken up the challenge in these economic times to continue being the fair's title sponsor for this their third year. I would also like to thank the 5 new sponsors and over 25 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 over the total value of merit awards, special awards, scholarships and trip awards is expected to top \$165,000.

Every year the host site for BASEF plays a critical role in our success. I must extend a very special thank you to the staff at Mohawk. It has taken the better part of a year to plan and stage BASEF 2009. Mohawk has been with the organizing committee making every step of the journey easier and for this we are truly grateful.

Last but certainly not least, I thank the day-to-day volunteers, nearly 60 in total, who help us with duties such as project registration, safety checks and chaperoning Activity Morning that occur over the four days of the Fair.

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

Raymond T. Kranyak, Chairman, BASEF 2009

FREE PARKING!

Thanks to Mohawk College, BASEF will have free parking in Lots P10 and P13 (Fennell Campus) for the duration of the fair (March 25-28, 2009).



**A MESSAGE FROM HONOURARY CO-CHAIR
Burlington MPP Joyce Savoline**

Congratulations to the participants in the Bay Area Science & Engineering Fair. You have dedicated your time and effort to this event and I look forward to seeing the fruits of your labour. I would also like to take this opportunity to thank all of the people who make this event possible each year; the BASEF committee members, the volunteers, the teachers, and the parents of the participants who together contribute to success of this event.

Now more than ever, science and technological advancements are key to Ontario's future success in a competitive global marketplace. The BASEF provides a wonderful opportunity for students to test their ideas and push the limits of the chosen field with ideas and projects that may one day change the world.

The BASEF event provides an excellent showcase for the talents of Ontario students and offers them a unique opportunity to realize success on a national and international level. I applaud the efforts of each entrant and I wish you every success today and in your future endeavors.

Kind regards,

Joyce Savoline

MPP -Burlington
Co-Chair BASEF

Constituency Office:
44 -760 Brant Street Room 440,
Burlington ON L7R 4B7
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A MESSAGE FROM HONOURARY CO-CHAIR Hamilton Mayor Fred Eisenberger

It is with great pleasure that I extend my warmest greetings on behalf of the City of Hamilton and to welcome you to the 49th Annual Bay Area Science and Engineering Fair (BASEF).

It is a privilege for me to continue as Honourary Co-Chair for this exciting and creative educational event.

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

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

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

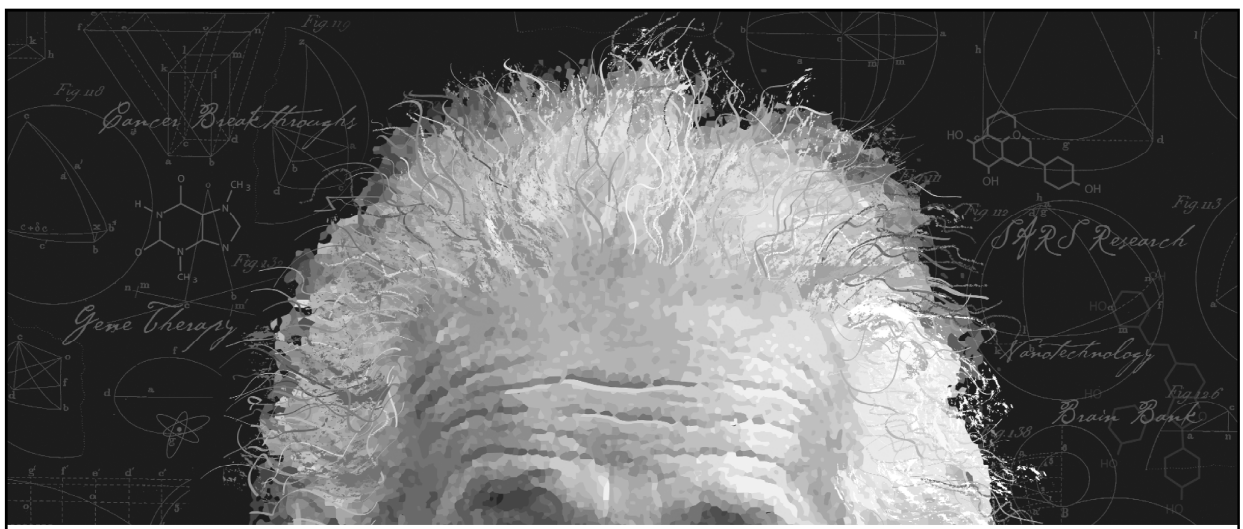
Sincerely,

Fred Eisenberger
Mayor

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OFFICE OF THE MAYOR



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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

BASEF 2009 SCHEDULE OF EVENTS

Wednesday, March 25 - Project Setup

4:00-8:00 p.m. Registration, set-up and safety checks Gymnasium

Thursday, March 26 - Student Activities

8:30-9:00 a.m. Students Arrive for Activity Morning McIntyre Theatre
Drop off students at I-Wing

9:00 a.m.-noon Activity Morning McIntyre Theatre

Noon – 12:45 p.m. Students will eat lunch in the Mohawk Cafeteria. We encourage students to bring a lunch from home. Students will NOT be permitted to go elsewhere for lunch. Mohawk Cafeteria

12:45–1:00 p.m. Students leave Cafeteria and go to their projects in the Gym for afternoon judging.

1:00-4:00 p.m. Students to be at their projects for judging Gymnasium

4:00-4:30 p.m. Goodie Bags distributed and departure Gymnasium
Student pick-up at I-Wing

Friday, March 27 – Closed to the Public

Saturday, March 28 - Public Viewing & Awards Ceremony

9:00 a.m.-noon Public viewing. Gymnasium

11:30 a.m.-1:00 p.m. VIP Luncheon (by invitation only) Faculty and Staff Dining Room

noon Gym closes.
(Projects must remain set up in gym until after the awards ceremony)

1:00 p.m. McIntyre Theatre opens for Awards Ceremony McIntyre Theatre

1:30-3:30 p.m. Awards Ceremony McIntyre Theatre

3:30 p.m. Project take-down begins. Gymnasium

3:30-5:00 p.m. Trip winners and their parents/guardians meet with chaperones immediately after ceremony. Gymnasium

Fair Office during the event will be MCACES Conference Room F116
Fair Phone Number to be posted during days of the fair



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at the heart of all we do.

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EMERGENCY EVACUATION

AT THE SOUND OF THE ALARM: Go quickly and calmly to the nearest exit.

EVACUATION PROCEDURES:

- At the sound of the alarm, go immediately to the nearest exit.
- Leave the building by the most direct route.
- Follow the instructions by Security, staff and/or Fire Wardens.
- Do not use the Elevator as a power failure will interrupt service.
- Take a position away from the buildings so as not to interfere with emergency personnel.
- Ensure that any person with a disability is assisted to a place of safety, as close as safely possible to an exit door, elevator and or intercom, or if possible, to a secure location outside the building.

EXTENDED EVACUATION

- You will be directed by College Security, staff and/or Fire Wardens to a sheltered location.
- If instructed, please move quickly and calmly to the designated assembly point.

RETURNING TO FACILITIES

- Remain outside or in the sheltered area until an ALL CLEAR has been given by Emergency Officials, College Security, staff and/or Fire Wardens.



EMERGENCY LOCKDOWN

If threat is viewed or perceived: CALL SECURITY AT 55 OR CALL 911

INTERNAL LOCKDOWN: A full lockdown where everyone moves to a safe location.

SOUND: Recorded announcement of a lockdown. (A lockdown drill will ALWAYS be preceded by an announcement 5 minutes in advance of the drill. If no announcement precedes a lockdown drill – it is real.)

ACTION:

- If you are in a classroom or office, remain there.
- If you are in a hallway, move to a room or other place of safety immediately.
- Provide assistance, where required, to individuals with a disability or language barriers.
- Secure doors if possible, turn out lights, cover windows or pull shades if possible.
- Remain quiet and out of sight. Stay away from all windows and doors.
- Turn off all cell phones, to protect emergency communications.
- Staff members or volunteers should record names of persons present.
- Stay quiet and await instructions. Lockdowns can last a considerable time.
- Do not open the door under any circumstances.
- Do not evacuate if a fire alarm sounds, unless identifiable emergency officials knock on your door and advise evacuation or unless you are certain that there is a need to evacuate.

For open area such as Cafeteria, Library or Gymnasium

- Generally follow the same steps as those listed above.
- If there are no doors that can be locked or barricaded, take shelter under desks, tables, chairs or behind bookcases or other furniture or equipment.

EXTERNAL LOCKDOWN: A partial lockdown where everyone remains inside the building.

SOUND: recorded announcement of an external lockdown.

END OF LOCKDOWNS: A recorded announcement of an 'all clear' signal will be given to indicate the end of lockdown. Emergency Officials or College Security will conduct a door-to-door confirmation at this announcement.

THANKS TO BASEF 2009 VOLUNTEERS

Victoria Caron
Sally Chopp
Safa Elgamal
Trixie Ellithorne
Beth Heska

Linda Kennedy
Rafal Lawski
Shari Mercer
Megan Morningstar
Tom Nguyen

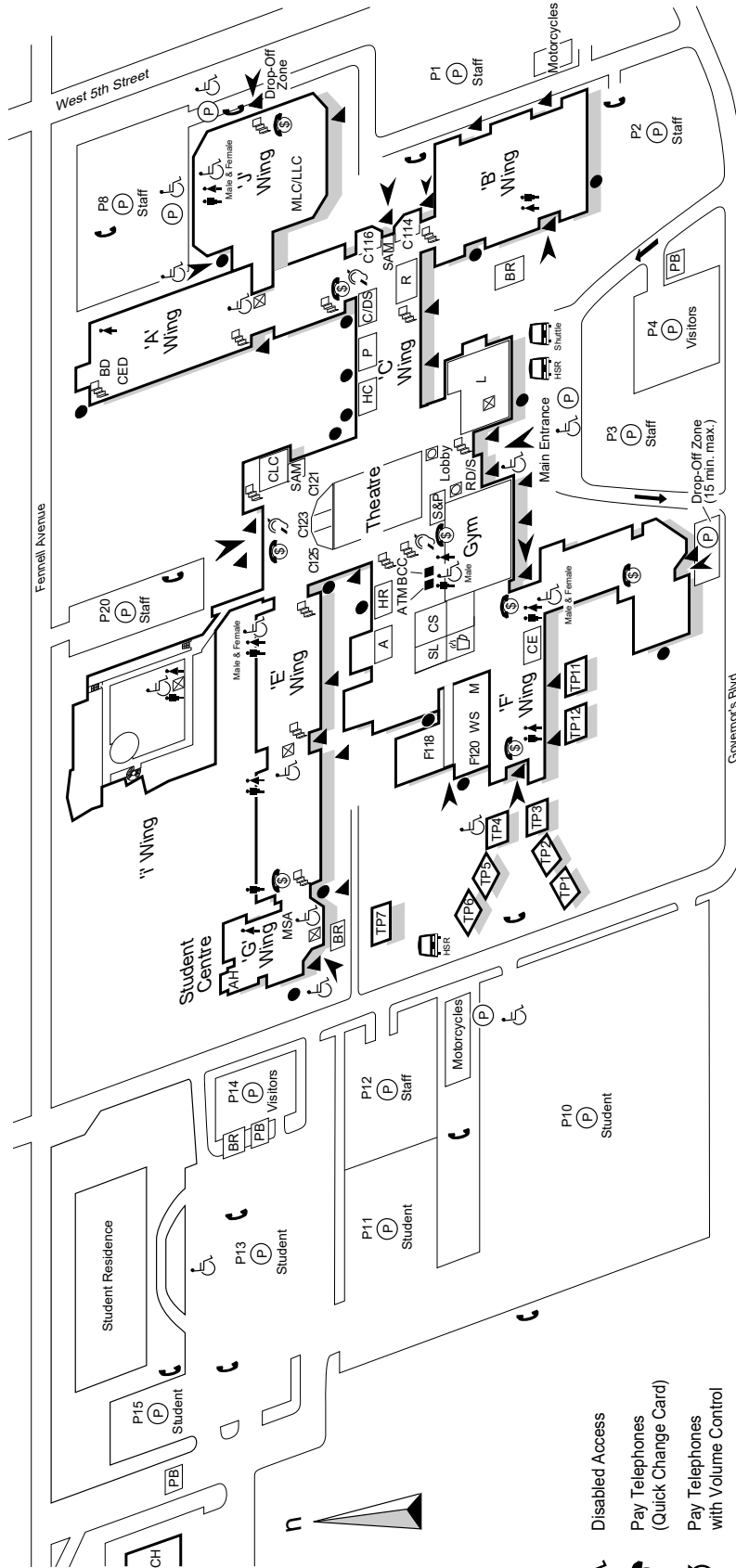
Pam Penny
Brittanie Pinder
Carolyn Rollins
Vanessa Scanga
Brenda Sloane

Tobias Williams
Marilyn Young
Norman Young
Steve Zerebny



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- Emergency Phones
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- Non-Smoking Area

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Trip Award Winners

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Images courtesy of Lifetouch Canada

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

ACTIVITY MORNING - Sponsored by Bell Canada

Activity Morning 2009 will be held at Mohawk College on the morning of Thursday, March 26, 2009 in the McIntyre Theatre.

Special Notes:

1. Student drop off will be at Fennell entrance I-Wing.
2. There will be no food or drink in the auditorium.
3. Mohawk College does not have the capacity in the cafeteria to handle additional students from classes attending Activity Morning. Classes must exit the college after the Activity Morning presentations.
4. Classes will not be allowed into the gym to see the BASEF projects. (Public viewing of projects will be Saturday Morning 9 a.m. to Noon. All are welcome to come.)
5. BASEF registered students are expected to bring their own lunch.

Activity Morning Schedule

Build a Windmill Session (room TBA)

9:00 – Noon: A special breakaway session where ten groups of pre-registered students will compete to build a working model windmill from provided “kits” of materials.

Main Auditorium

- 9:00 – 10:00 am McMaster Engineering Fireball Show
- 10:00 – 10:30 am McMaster Fireball 101 – Question and Answer Period
- 10:30 – 11:00 am Niagara Windpower – Local Alternative Energy Applications
- 11:00 – 11:45 am COOI- CHe-m CaBaReT – McMaster Chemistry
- 11:45 am – Noon Science Fair SuperStar - Ben Gulak

Presentations by:

McMaster Fireball Show

The Fireball Show is an educational and entertaining travelling show utilizing both science demonstrations and multimedia to increase students' awareness of and interest in engineering programs, careers, and related futures. The one-hour show highlights the wonder and relevance of engineering and applied science, as well as outlining how a future in the applied sciences is of benefit to society as a whole. The second major theme throughout the show is related to skills, strengths, and abilities that future scientists and engineers will need to possess.

<http://www.eng.mcmaster.ca/fireball/>

Niagara Windpower

http://www.niagarawindpower.com/about_us.htm

McMaster Chemistry - COOI- CHe-m CaBaReT

The world of atoms and molecules moves very fast. We experience this motion as chemical reactions or physical processes. This show highlights the dance of the atoms with explosions - we make water from a hovering balloon; colors - we see metal atoms in flames; and electricity - we drive a chemical reaction backwards with an electric current. Even if we slow the dance to -200 degrees Celsius, interesting things can happen.

Professor Randy Dumont has taught first year chemistry for many years. Though his research is in the area of theory of molecular dynamics, and involves only numerical experiments in the cpu of a computer, he enjoys being reminded that chemistry deals with the real world of stuff around us when he does wet chemistry demonstrations for students of all ages.

<http://www.chemistry.mcmaster.ca/>



MERIT AWARD JUDGES

Jacobs, Shelley	Themeles, Tom Brock University	Swanson, Daren EnviroDiamond Technologies	HDSB, Georgetown District HS
Kretz, Colin	Shinkoda, Pamela CertainTeed Gypsum	Stevens, Jo-Anne G. Essential Wellness Centre	Howarth, Jillian MacDougall, Stephen Michalopoulos, Olga
ArcelorMittal Dofasco Crane, Maureen Harschnitz, Lesley Prowse, Dan Sheppard, Guy Wood, Jane Casey, Jim (retired)	Lawlor, Daniel City Of Hamilton	Sheehy, Mike Gunn Metal Stamping	Ouwehand, Anna HDSB
Manmohan, Neil ASECO Integrated Systems	Santarelli, Greg Concurrent Education Student	Hamilton Health Sciences Billeci, Mena Carrier, Tracy Kafka, Jennine E. Nardini, Mary Young, Bruce	Shepherd, Clive HWDSB
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Gulak, Benjamin BPG inc.	Michell, Brad Emco Wheaton		Twyford, Darren JNE Automation Ltd.
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Congratulations to all BASEF 2009 participants!
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MERIT AWARD JUDGES Continued...

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Buggeln, Adam
Effinger, Daniel
McAnanama, James
Paquette, Michel

Szabo, Eva
McMaster Stem Cell
and Cancer
Research Inst.

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Conroy, Leigh
Crawford, Travis
Davis, Linda
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Nastos, Stash
Paschos, Athanasios
Prieur, Adam
Procwat, Ray
Raditsis, Annie
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Summers, Peter
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Yuyitung, Gay

Ellithorn, Trixie
Medical Technologist
(retired)

French, Craig
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Vanderzwet, Lory

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Retired, HS teacher

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 Bert Holiday
 Blair MacCuish
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 Carl Weidhaas
 Cathy Collins
 Cathy Hamilton
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Chris Blackwood
 John Kezys
 David Salari
 David Thurlow
 Derek Bishop
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 Pippa Lock
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 Robert Brown
 Ron Speranzini
 Roslynn Crawford
 Sandy Walker
 Shannon Clark
 Spencer Smith
 Susan Olynyk
 Tom Crawford
 Tom Sutton
 Victor Srarecky
 Wuchow Than

Congratulations to all Science Fair participants!

- Lifetouch has dedicated over 65 years to preserving memories with high quality photography in the school portrait business.
- Lifetouch is committed to education and our Partners-in-Education program offers a wide array of recognition materials specially designed for students and staff.

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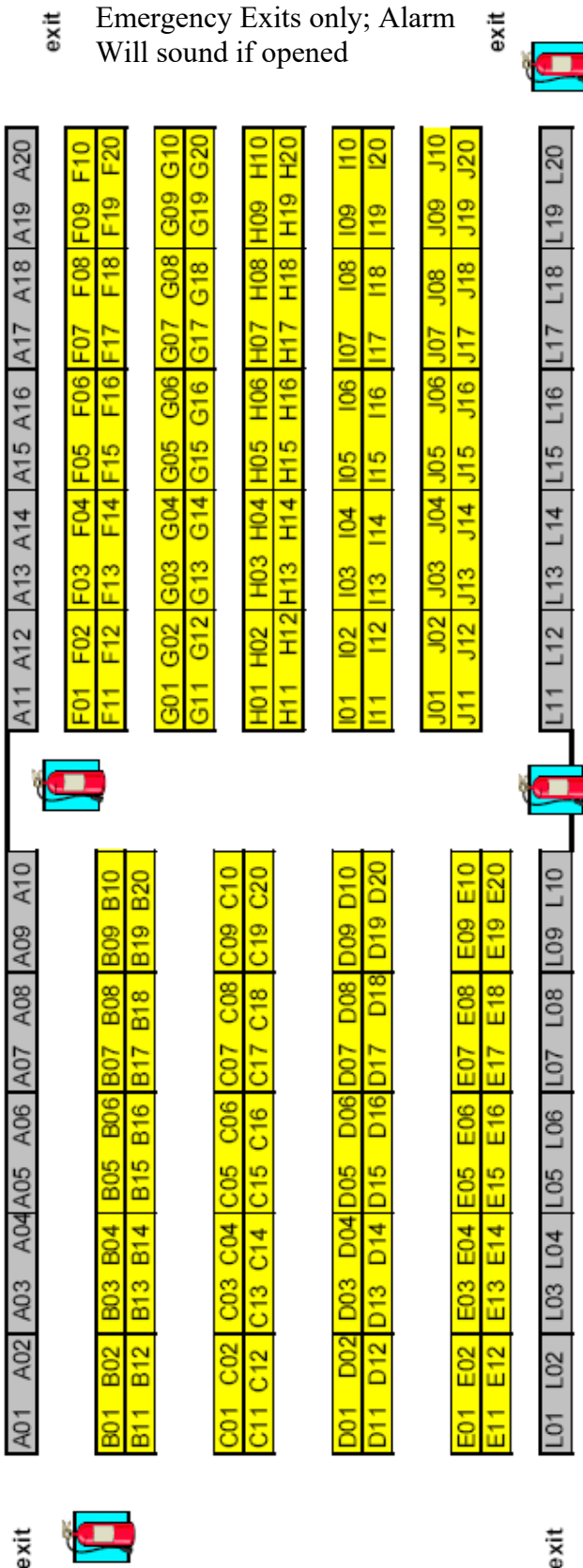
Best Wishes to all BASEF 2009 Participants



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BASEF 2009 Project Floorplan



Big Ideas ... Infinite Possibilities

EXHIBITOR LISTING

A01, Does the same type of mold grow on all types of bread?
 Iman Munier,
 J 7-8, Life Sciences
 Al-Falah Islamic School, Independent

A02, Observing Polarized Light through a Crystal Solution
 Sofia Qasim,
 J 7-8, Physical Sciences & Math
 Al-Falah Islamic School, Independent

A03, Every Bit Counts: Harnessing Hidden Energies
 Stephen Hogg,
 J 7-8, Engineering and Computing
 Ancaster Senior, HWDSB

A04, Better Than Gold?
 Inga Muser,
 J 7-8, Health Sciences
 Appleby College, Independent

A05, Whats in your tank -eco-friendly fuels?
 David Sampson,
 J 7-8, Earth and Environmental
 Appleby College, Independent

A06, An Alternative Lighting Solution
 Andrew Rossignol, Alexandru Stan
 S 11-12, Engineering and Computing
 Cardinal Newman, HWCDSB

A07, Tap Into Power
 Andy Wang,
 J 7-8, Engineering and Computing
 Dalewood, HWDSB

A08, Magnetic-Fueled Wheelchair
 Nishaant Bhambra, Edward Holden
 J 7-8, Engineering and Computing
 Eastview Public School, HDSB

A09, Robots Don't Sunburn
 Jacob Weaver,
 I 9-10, Physical Sciences & Math
 Highland, HWDSB

A10, Wii r XBOX surgeons....P/S u can b 2
 Rachael Smith,
 J 7-8, Health Sciences
 Hillfield Strathallan College, Independent

A11, Real time radiation dose deviations not configured by a brachytherapy treatment planning system used in cancer treatment
 Romita Sur,
 S 11-12, Health Sciences
 Hillfield Strathallan College,
 Independent

A12, The Wheel of Sun and Fun
 Haley Bowie, Isabella Calandrino
 J 7-8, Physical Sciences & Math
 St. Ann (Ancaster), HWCDSB

A13, Windmills In The City
 Benjamin Dyer,
 J 7-8, Earth and Environmental
 Home Schooling, Independent



A14, We're Still Not Plastic Bags: Perfecting the Perfect Plastic
 Gillian Walczak, Sophia Coulter
 English
 I 9-10, Earth and Environmental
 Notre Dame, HCDSB



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***Congratulations and good luck
 to all participants in the
 2009 Bay Area Science and
 Engineering Fair!***

EXHIBITOR LISTING Continued ...

A15, Wind Assisted Electric Car: Is It Better?

Liam Armstrong,
J 7-8, Engineering and Computing
Oakville Christian School,
Independent

A16, Building a Plug-In Hybrid Car

Sarah Pang, Emma Hosien
J 7-8, Engineering and Computing
Oakville Christian School,
Independent

A17, The Power of The Sun

Caroline Gobran,
J 7-8, Earth and Environmental
Oakville Christian School,
Independent

A18, 1-bit binary adder by a 2-bit scientist

Yiquan Lok,
J 7-8, Engineering and Computing
Rotherglen School (Oakville),
Independent

A19, Cutaneous Voltage of Forearm Muscle Contraction

Yixiong Lok,
J 7-8, Health Sciences
Rotherglen School (Oakville),
Independent

B01, Holograms

Ahmad Kamal,
J 7-8, Physical Sciences & Math
Al-Falah Islamic School, Independent

B02, Which Disinfectant is Best in Protecting Against Bacteria

Aisha Malik,
J 7-8, Health Sciences
Al-Falah Islamic School, Independent

B03, What melts ice faster?

Mina Rashid,
J 7-8, Physical Sciences & Math
Al-Falah Islamic School, Independent

B04, Multitasking: Brain Drain or Boost in Efficiency?

Nesa Huda,
J 7-8, Health Sciences
Al-Falah Islamic School, Independent

B05, Environment Friendly or not?

Shereen Abbas,
J 7-8, Earth and Environmental
Al-Falah Islamic School, Independent

B06, What do you drink to energize yourself ?

El-Sadig Ahmed,
J 7-8, Health Sciences
Al-Falah Islamic School,
Independent

B07, How does Cholesterol affect your body?

Komal Javed,
J 7-8, Health Sciences
Al-Falah Islamic School,
Independent

B08, Do Acids and Bases Affect Plants

Imaad Ali-Mohammed,
J 7-8, Earth and Environmental
Al-Falah Islamic School,
Independent

B09, Which set of water will split faster into 2 chemical gases?

Maryam Sajeed,
J 7-8, Physical Sciences & Math
Al-Falah Islamic School,
Independent



Congratulations to all of this year's participants!

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EXHIBITOR LISTING Continued...

B10, Homeopathy
Sina Mohammadi,
J 7-8, Health Sciences
Al-Falah Islamic School,
Independent

B11, GO GREEN- BUY BULK, TRUTH OR MYTH?
Erik Bercik,
J 7-8, Earth and Environmental
Ancaster Senior, HWDSB

B12, Beware! Of Potatoes
Ryan Ramos,
J 7-8, Life Sciences
Appleby College, Independent

B13, Paving The Way
Simon Harris,
J 7-8, Engineering and Computing
Appleby College, Independent

B14, Speed vs. Magnet What will rein supreme?
Kate MacArthur,
J 7-8, Physical Sciences & Math
Appleby College, Independent

B15, Memory Games
David Di Natale,
J 7-8, Health Sciences
Appleby College, Independent

B16, Bio-Indicators. Bush Bean Versus Philodendron.
Stephanie Mumford,
J 7-8, Earth and Environmental
Appleby College, Independent

B17, Slip Sliding Away: The Comparative Efficacy of Anti-Slip Products
Sarah Rich,
J 7-8, Physical Sciences & Math
Appleby College, Independent

B18, Measuring Membranes
Michal Panna,
J 7-8, Physical Sciences & Math
Bennetto, HWDSB

B19, Detecting BDNF in CSF using Western Blotting
Natalie Michalski,
S 11-12, Health Sciences
Bishop Ryan, HWCDSB

B20, SMILE!
Asimah Mahmood,
J 7-8, Physical Sciences & Math
Cardinal Heights, HWDSB

C01, The Consumption Assumption
Lisa-Marie Assenza,
I 9-10, Health Sciences
Cardinal Newman, HWCDSB

C02, Multi-Tasking -" Brain Drain or Boost"??
Chelsea Reid,
J 7-8, Health Sciences
Corpus Christi, HWCDSB

C03, Are You "Dying" For A Tan
Katie Kastelic,
J 7-8, Physical Sciences & Math
Corpus Christi, HWCDSB

C04, A Truly Rotten Idea
Alex Smith,
J 7-8, Earth and Environmental
Dalewood, HWDSB

C05, How Competitive Can You Get?
Mohtaseem Rahman,
J 7-8, Life Sciences
Dalewood, HWDSB

C06, Saving our lakes one boat at a time
Michelle Sulewski,
J 7-8, Earth and Environmental
Dalewood, HWDSB

C07, A Battery In You
Emily Thomson,
J 7-8, Health Sciences
Dalewood, HWDSB



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Respect
Innovation
Accountability

Respect... We will:

Respond to stakeholder needs in a caring and considerate manner.
Ensure a safe, welcoming environment that nurtures achievement.
Communicate in an open, honest and intelligent manner.
Acknowledge the diversity and worth of all individuals and respect their roles, competencies and contributions.

Innovation... We will:

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.
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Use our resources wisely, efficiently and effectively.
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EXHIBITOR LISTING Continued...

C08, Oxymoronic Killer - A Exploration for Beneficial Virus
Jason Fan,
J 7-8, Health Sciences
Dalewood, HWDSB

C09, Stay Away From Our Food Melamine?!
Tian Duo Wang,
J 7-8, Health Sciences
Dalewood, HWDSB

C10, Which Way Is North?
Sylvie Bronsard, Emily Agar
J 7-8, Physical Sciences & Math
Dalewood, HWDSB

C11, Sunscreen Effects On Potatoes
Emma Bayliss, Laura Choi
J 7-8, Life Sciences
Eastview Public School, HDSB

C12, magnet powered vehical
Jack Schoner,
J 7-8, Engineering and Computing
Eastview Public School, HDSB

C13, Energy Efficient Home Design
Emily Hunt, Madison Leeson
J 7-8, Earth and Environmental
Eastview Public School, HDSB

C14, Plant Organic Growth Formula
Komal Aryal, Radha Paleja
J 7-8, Earth and Environmental
Eastview Public School, HDSB

C15, Solar Powered boat
Robert Paccione,
J 7-8, Earth and Environmental
Eastview Public School, HDSB

C16, Gender Determines Health Behaviour in Adolescents
Mariam Mobasher,
S 11-12, Health Sciences
Highland, HWDSB

C17, Don't Panic, It's Organic
Lauren Sehdev,
J 7-8, Life Sciences
Hillfield Strathallan College,
Independent

C18, WHAT'S IN YOUR SALAD BOWL?
Beth Castle, Rachel Demers
I 9-10, Earth and Environmental
Hillfield Strathallan College,
Independent

C19, Even Cleaner Even Greener
Hannah Morris-Patterson, Madison Dobrovolskis
I 9-10, Physical Sciences & Math
Hillfield Strathallan College,
Independent

C20, Factors Affecting Enzyme Reaction Rates
Ramya Kancherla,
I 9-10, Physical Sciences & Math
Hillfield Strathallan College,
Independent

D01, A Sweet Poison
Christina Joynt,
I 9-10, Health Sciences
Hillfield Strathallan College,
Independent

D02, DIABETICS "C" THE POINT!
Meaghan Tremblay,
I 9-10, Health Sciences
Hillfield Strathallan College,
Independent

Edward Oldham

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E-mail: Oldham@oldhamwhynot.com

EXHIBITOR LISTING Continued ...

D03, How Idle Are You ?

Jacob Wain-Lowe,
J 7-8, Earth and Environmental
Hillfield Strathallan College,
Independent

D04, IM the Best

Kai Jones,
J 7-8, Health Sciences
Hillfield Strathallan College,
Independent

D05, Judge Me

Adele Heagle,
I 9-10, Health Sciences
Hillfield Strathallan College,
Independent

**D06, Clarifying Cancer Patient
Outcomes and Predictors of
Those Outcomes**

Sharaya Jones,
S 11-12, Health Sciences
Hillfield Strathallan College,
Independent

D07, Just Say No

Kathleen Lloyd,
J 7-8, Health Sciences
Hillfield Strathallan College,
Independent

D08, Need for Speed

Matthew Vivolo,
J 7-8, Physical Sciences & Math
Hillfield Strathallan College,
Independent

**D09, The effects of music on the
blood pressure and heart rate of
grade 7 students**

Julia Roglich,
J 7-8, Health Sciences
Holy Spirit, HWCD SB

D10, ENERGY TO BURN

Adelia Spytzkowsky,
J 7-8, Physical Sciences & Math
Holy Spirit, HWCD SB

**D11, DOES GREEN REALLY
CLEAN?**

Myra Hucal,
J 7-8, Earth and Environmental
Holy Spirit, HWCD SB

D12, FOOD ALLERGIES

Paula Bochnak,
J 7-8, Health Sciences
Holy Spirit, HWCD SB

D14, The Alka-Rocket

Kana Gazaz,
J 7-8, Physical Sciences & Math
Lisgar, HWDSB

**D15, Splitting Water with
Electrolysis**

Roberto Temelkovski,
J 7-8, Physical Sciences & Math
Lisgar, HWDSB

D16, Tasty Volts

Matthew Simmons, Joshua
Boychuck
J 7-8, Physical Sciences & Math
Lisgar, HWDSB

D17, Waterproof Matches

William Redgate,
J 7-8, Physical Sciences & Math
Lisgar, HWDSB

**D18, Human Response Times to
Stimuli**

Christian Grou,
J 7-8, Health Sciences
Lisgar, HWDSB

D19, Wind Turbines

Eric Blain,
J 7-8, Engineering and Computing
Lisgar, HWDSB

E01, Power of The Bill

Nadwa Elbadri, Brontie Hladysh
S 11-12, Earth and Environmental
North Park Collegiate and Vocational
School, GEDSB

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

EXHIBITOR LISTING Continued...

E02, It Will or Walnut Grow
Hilary Mann, Shivon Azwim
I 9-10, Earth and Environmental
North Park Collegiate and Vocational
School, GEDSB

**E03, The Genome Sizes of Land
Plants**
Mitchell Keene,
S 11-12, Life Sciences
North Park Collegiate and Vocational
School, GEDSB

**E04, Different Environments.
Different Populations**
Sara Abu Obaid, Ream Elbadri
I 9-10, Earth and Environmental
North Park Collegiate and Vocational
School, GEDSB

**E05, Salting the Food Web: A
Decision to Flea or Fight**
Meaghen Rollins, Leah O'Shea
S 11-12, Earth and Environmental
North Park Collegiate and Vocational
School, GEDSB

**E06, What Gives You The Power
to Perform?**
Dean Correia, Chris Luongo
J 7-8, Health Sciences
Oakville Christian School,
Independent

**E07, Mirror, Mirror... Who's the
Most Renewable of Them All?**
Brittany Smrke,
J 7-8, Earth and Environmental
Oakville Christian School,
Independent

**E08, Fuel Efficiency - The Road to
a Greener World**
Steven Cloudt, Mitchell Osborne
J 7-8, Earth and Environmental
Oakville Christian School,
Independent

**E09, To Build With or Not to Build
With**
Jacqueline Taylor, Maddie Fyfe
J 7-8, Engineering and Computing
Oakville Christian School,
Independent

**E10, Vaccines and Autism: Is
There a Link?**
Jordy Verasamy,
J 7-8, Health Sciences
Oakville Christian School,
Independent

**E11, I drank your smoothie! Jokes
on you that was water**
Nathan Greene,
J 7-8, Earth and Environmental
Oakville Christian School,
Independent

E12, A GAS-LESS CAR
John Ivanco,
J 7-8, Earth and Environmental
Oakville Christian School,
Independent

E13, Make No BONES About It!
Sarah Medeiros,
J 7-8, Health Sciences
Oakville Christian School,
Independent

E14, Cheluong
Chelsea Dayrit, Tuong Kuwabong
J 7-8, Engineering and Computing
Regina Mundi, HWCDSB

E15, Break Those Bricks
Alessia Di Carlo, Linda-Marie Palo
J 7-8, Engineering and Computing
Rotherglen School (Oakville),
Independent

E16, Foundation Determination
Noah Djurfeldt, Mark Martone
J 7-8, Engineering and Computing
Rotherglen School (Oakville),
Independent

E17, Insulation for the Nation
Joseph Laferriere, Keenan Lutzko
J 7-8, Engineering and Computing
Rotherglen School (Oakville),
Independent

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EXHIBITOR LISTING Continued ...

E18, Bac Off !

Kristina Milisavljevic, Zunaira Tarique
J 7-8, Life Sciences
Sir Wilfrid Laurier, HWDSB

E19, The Little Bug With The Big Heart

Jovana Zelenovic, Katarina Tatomir
J 7-8, Life Sciences
Sir Wilfrid Laurier, HWDSB

E20, PEPSID ... Just One And Heartburn's Done!

Andjela Japalak, Aqsa Arshad
J 7-8, Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

F01, NOTHING BUT NET

Moez Shahzad, Ali Paul
J 7-8, Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

F02, The Quicker Picker-Upper

Erin Kyle, Monica Phonthaphanh
J 7-8, Life Sciences
Sir Wilfrid Laurier, HWDSB

F03, Read All About It ... Again

Edina Mustedanagic, Eden Minhas
J 7-8, Earth and Environmental
Sir Wilfrid Laurier, HWDSB

F04, Scentsational!

Rebecca Greenhalgh, Andjela Janosevic
J 7-8, Physical Sciences & Math
Sir Wilfrid Laurier, HWDSB

F05, Batteries: The Best, The Worst and Which One To Buy

Meghan Peirce, Alexandra Bangs
J 7-8, Earth and Environmental
Sir William Osler, HWDSB

F06, One Crappy Project

Teaghan Lerner, Kayla Steadman
J 7-8, Earth and Environmental
Sir William Osler, HWDSB

F07, What's Black, White and Red All Over?

Ian McArthur, Jamie Ennis
J 7-8, Earth and Environmental
Sir William Osler, HWDSB

F08, X Radiation

Lindsay Boyle,
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

F09, Electromagnets

Samantha Cumerlato,
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

F10, Disinfect to Protect

Fiorella Villanueva,
J 7-8, Life Sciences
St. Agnes, HWCDSB

F11, Don't Look Twice

Geena Gentilotti,
J 7-8, Health Sciences
St. Agnes, HWCDSB


F12, Fantastic Plastic

Sabine Andrisevich,
I 9-10, Biotechnology
St. Agnes, HWCDSB

F13, Back Breaking Backpacks

Natalie Di Giandomenico, Katie Kobernyk
J 7-8, Health Sciences
St. Agnes, HWCDSB

**Congratulations and good luck
to all participants of
the 2009 Bay Area
Science and Engineering Fair!**



JOHN DEERE

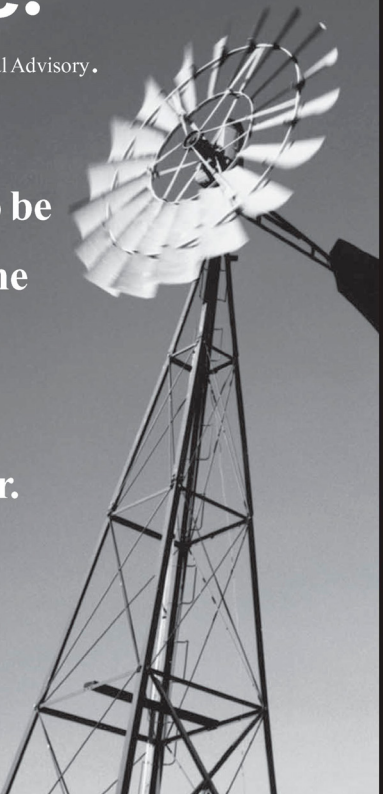
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EXHIBITOR LISTING Continued ...

F14, Laundry Detergent

Alexandra Da Silva, Katelyn Boss
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

F15, Static Voltage

Daniel Fascione, Munashe Muneka
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

F16, Dominant Edges

Nicholas Dozzi,
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

F17, Rough Ride

Joseph Nguyen,
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSB

F18, snowllution

Andrea Petrina,
J 7-8, Earth and Environmental
St. Agnes, HWCDSB

F19, The Nose Knows

Arden Baboth-Toth, Katie Nelson
J 7-8, Health Sciences
St. Ann (Ancaster), HWCDSB

F20, Hydraulics How can small cranes lift so much

Dorian Sciamanna,
J 7-8, Engineering and Computing
St. Ann (Ancaster), HWCDSB

G01, The Hydrophobic Effect

Dawson Lucier, Matthew Palango
J 7-8, Physical Sciences & Math
St. Ann (Ancaster), HWCDSB

G02, Mind over Matter

Madeline Balardo, Diana Bago
J 7-8, Health Sciences
St. Ann (Ancaster), HWCDSB

G03, Food Frenzy

Caroline Ferrie, Julia Boccadoro
J 7-8, Health Sciences
St. Ann (Ancaster), HWCDSB

G04, Does Playing Violent Video Games Desensitize You To Violence?

Tyler Sartor, Matt Mongeon
J 7-8, Health Sciences
St. Ann (Ancaster), HWCDSB

G05, Solid Fact?

Kyran McGillion,
J 7-8, Health Sciences
St. Ann (Ancaster), HWCDSB

G06, Noise Induced Hearing Loss

Ashley Attard, Myra Kohler
J 7-8, Health Sciences
St. Anthony of Padua, HCDSB

G07, Music on the Mind

Hubert Maliszewski,
J 7-8, Health Sciences
St. Anthony of Padua, HCDSB

G08, Will They Remember?

Sandra Lecki,
J 7-8, Health Sciences
St. Anthony of Padua, HCDSB

G09, Hovercraft and Transportation

Danjuma Mba, Ilia Chtcherbakov
J 7-8, Engineering and Computing
St. Anthony of Padua, HCDSB

G10, Exploring Plants

Rachel Whichelo, Avery Jans
J 7-8, Earth and Environmental
St. Anthony of Padua, HCDSB

G11, Acidity Increase!

Tracey Elasmr,
J 7-8, Health Sciences
St. Anthony of Padua, HCDSB

G12, Vitamin J

Aidan Hamelin, John Muirhead
J 7-8, Engineering and Computing
St. Anthony of Padua, HCDSB

G13, THE POWER OF CONCENTRATION

Hayden Truman,
J 7-8, Engineering and Computing
St. Augustine, HWCDSB

G14, Pump It Louder

Heather Wild,
J 7-8, Health Sciences
St. Augustine, HWCDSB

G15, iSpy: A Biometric Solution to iPod Theft

Maggie Hunter,
J 7-8, Engineering and Computing
St. Augustine, HWCDSB

G16, The Dominator

Deanna Khes- Grabiec, Meg Sharpley
J 7-8, Health Sciences
St. Augustine, HWCDSB

G17, How Coloured Light Effects Plant Growth

Ryan Arsenault,
J 7-8, Life Sciences
St. Augustine, HWCDSB



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EXHIBITOR LISTING Continued ...

G18, Paper-R-U's

Laura Orlando, Monica Caterini
J 7-8, Earth and Environmental
St. Augustine, HWCDSB

G19, What makes a better alfalfa sprout?

Matthew Furlong, Issac Bohm
J 7-8, Biotechnology
St. Augustine, HWCDSB

G20, Pollution-Rising to New Heights

David Bowman,
J 7-8, Earth and Environmental
St. Augustine, HWCDSB

H01, Do You "ExCell" on a Cell?

Gabriela Caterini,
J 7-8, Health Sciences
St. Augustine, HWCDSB

H02, Hardest Hold

Julia Agostino,
J 7-8, Physical Sciences & Math
St. Augustine, HWCDSB

H03, The Sweet Smell of Success

Paige Kellner,
J 7-8, Physical Sciences & Math
St. Augustine, HWCDSB

H04, Under Pressure

Rebecca Conti,
J 7-8, Health Sciences
St. David, HWCDSB

H06, Go Green Stay Clean!

Crystal Sulaiman, Amanda Bruzzese
J 7-8, Earth and Environmental
St. David, HWCDSB

H07, McGoodness or McDeadly

Jessica Maltese,
J 7-8, Life Sciences
St. David, HWCDSB

H08, The Pulse On Music

Danielle Burnison, Julia Cuicani
J 7-8, Health Sciences
St. David, HWCDSB

H09, Got Enough Sleep?

Reno Fernandes, Christopher Marfisi
J 7-8, Health Sciences
St. David, HWCDSB

H10, A Burning Question

Niko Fernandes, Andrew Breckenridge
J 7-8, Physical Sciences & Math
St. David, HWCDSB

H11, Now That's Repelling

Sarah Tompa,
J 7-8, Physical Sciences & Math
St. David, HWCDSB

H12, Think Fast

Jasmine Ellis,
J 7-8, Health Sciences
St. David, HWCDSB

H13, Pump Up The Wi-Fi

Anthony Tam,
J 7-8, Physical Sciences & Math
St. David, HWCDSB

H14, Flushed Away

Claire Kemp,
J 7-8, Physical Sciences & Math
St. David, HWCDSB

H15, High Gear, Low Gear

Mitchell Bossert,
J 7-8, Engineering and Computing
St. Elizabeth Seton, HCDSB

H16, It's Gotta Be Hot To Freeze First: The Mpemba Effect

Elton Schiott,
J 7-8, Physical Sciences & Math
St. Elizabeth Seton, HCDSB

H17, Catch the Light

Mitchell Langley,
J 7-8, Engineering and Computing
St. Elizabeth Seton, HCDSB

H18, The Future Generator

Michael Scolaro,
J 7-8, Engineering and Computing
St. Elizabeth Seton, HCDSB

H19, Logos: Identifiers or Mind Control Devices?

Zachary Kowalsky, Jacob Rynn
J 7-8, Health Sciences
St. Elizabeth Seton, HCDSB

H20, To Ski or not to Ski

Chris Cachia,
J 7-8, Health Sciences
St. Elizabeth Seton, HCDSB

I01, What's the buzz about?

Nicholas Bennett,
J 7-8, Engineering and Computing
St. Jerome, HWCDSB

I02, Transforming Waste Into Energy

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

I03, Filthy Rich

Devon Savelli,
J 7-8, Life Sciences
St. Paul, HWCDSB

I04, Geez, Don't Freeze

Bianca Cisternino, Alaina Filice
J 7-8, Physical Sciences & Math
St. Therese of Lisieux, HWCDSB

I05, Can you read it ?

Alexandra Pugliesi, Melissa Tinebra
J 7-8, Health Sciences
St. Therese of Lisieux, HWCDSB

I06, Mind of Music

Alaina Tedeschi,
J 7-8, Health Sciences
St. Therese of Lisieux, HWCDSB

I07, Solar Power

Joshua Gabriele, Nicco Torres
J 7-8, Physical Sciences & Math
St. Therese of Lisieux, HWCDSB

I08, Meniere's Disease

Desiree Restivo,
J 7-8, Health Sciences
St. Therese of Lisieux, HWCDSB

I09, Can you concentrate ?

Britney Barnard, Ashley Leger
J 7-8, Health Sciences
St. Therese of Lisieux, HWCDSB

I10, Pump it up !!

Eric Chovance, James Medeiros
J 7-8, Health Sciences
St. Therese of Lisieux, HWCDSB

I11, Multitasking: Marvel or Menace

Julie Hesson,
J 7-8, Health Sciences
St. Therese of Lisieux, HWCDSB

I12, Melt Away - Ice, Ice, Baby

Victoria Petruccelli,
J 7-8, Physical Sciences & Math
St. Therese of Lisieux, HWCDSB

I13, Comparing the effectiveness of Store Brand Soaps to Our homemade soaps.

Jody Lee, Stephanie Patterson
J 7-8, Physical Sciences & Math
Sunningdale Public School, HDSB

I14, Triboluminescence in Sugar Crystals

Miles Little, Brenton Heyburgh
J 7-8, Physical Sciences & Math
Sunningdale Public School, HDSB

EXHIBITOR LISTING Continued ...

I15, Do you trust the water you drink?

Marcus Tutert, Justin Crawford
J 7-8, Physical Sciences & Math
Sunningdale Public School, HDSB

I16, The Unknown Culprit

Steph Walsh,
J 7-8, Earth and Environmental
Trinity Christian School,
Independent

I17, Astounding Artemia

Ryan Dorsman,
J 7-8, Life Sciences
Trinity Christian School,
Independent

I18, The CO2 Culprit

Brittany Barnes,
J 7-8, Earth and Environmental
Trinity Christian School,
Independent

I19, Stealthy Stuff

Samuel Kim,
J 7-8, Physical Sciences & Math
Trinity Christian School,
Independent

I20, Fire and Fumes

Amber Schenk,
J 7-8, Earth and Environmental
Trinity Christian School,
Independent

J01, Lasers and critical angle

Joshua Verduyn,
J 7-8, Physical Sciences & Math
Trinity Christian School,
Independent

J02, The Mozart Effect?

Shannon VanderWoerd,
J 7-8, Health Sciences
Trinity Christian School,
Independent

J03, Wastewater Electricity Generator

Eric Stretton,
J 7-8, Engineering and Computing
Trinity Christian School,
Independent

J04, A Chemilumic Curiosity

Anika Bosua,
J 7-8, Physical Sciences & Math
Trinity Christian School,
Independent

J05, A Question of Strength

Emma Hansen,
J 7-8, Earth and Environmental
Trinity Christian School,
Independent

J06, Why is there no life in Morrison Creek: A Look at Potential Contaminants

Daniel Allen, Tristan Walker
J 7-8, Earth and Environmental
W. H. Morden Public School, HDSB

J07, Back Off Bacteria

Declan McMullan, Connor Lawless
J 7-8, Life Sciences
W. H. Morden Public School, HDSB

J08, Take the IgE out of Allergies

Eisha Ahmed,
J 7-8, Health Sciences
W. H. Morden Public School, HDSB

J09, If It's Not Disinfecting It's Not Protecting

Carmen Kruk, Courtney Udall
J 7-8, Life Sciences
W. H. Morden Public School, HDSB

J10, Spill Something?

Kira Foreman-Tran, Emily Droppo
J 7-8, Earth and Environmental
W. H. Morden Public School, HDSB

J11, Forces and BALListics

Dennis Xu, Manjot Sangha
J 7-8, Physical Sciences & Math
W. H. Morden Public School, HDSB

J12, Just Think About It

Jhameila Austin, Ember Pepper-Dawes
J 7-8, Health Sciences
W. H. Morden Public School, HDSB

J13, A Growing Attraction

Vicky Mendonca, Connor Challis
J 7-8, Life Sciences
W. H. Morden Public School, HDSB

J14, The BikeBrella

Tyler Collins,
J 7-8, Engineering and Computing
W. H. Morden Public School, HDSB

J15, Gravity Car

Tina Antic,
J 7-8, Earth and Environmental
W. H. Morden Public School, HDSB

J16, Quit Buggin' II

Wardah Nasir,
I 9-10, Earth and Environmental
Westmount, HWDSB

J17, Planet or Plastic? 2

Joy Liu,
I 9-10, Engineering and Computing
Westmount, HWDSB

L01, From Compost to Cuisine

Andrew Dziuba, Randy Nguyen
J 7-8, Biotechnology
Sir Wilfrid Laurier, HWDSB

L02, Making Waves

Justine Williams,
J 7-8, Physical Sciences & Math
Sir William Osler, HWDSB

L03, The Earthship

Julia Stender, Nurefsan Davulcu
J 7-8, Earth and Environmental
Sir William Osler, HWDSB

L04, Spins, Twirls What Makes Us Dizzy

Nicole King, Gabriela Dominguez
J 7-8, Health Sciences
Sir William Osler, HWDSB

L05, Altering pH Levels

Filip Susic,
J 7-8, Physical Sciences & Math
St. Agnes, HWCDSEB

L06, Go With The Flow

Patrick Wilusz, Daniel Mascia
J 7-8, Engineering and Computing
St. David, HWCDSEB

L07, Star Power, the Great Guitar Gadget

Quentin Simms,
J 7-8, Engineering and Computing
St. Elizabeth Seton, HCDSB

L09, Eco Glo - The Green Light

Matthew Tudball, Christopher Walker
I 9-10, Engineering and Computing
T. A. Blakelock, HDSB

L10, The Battle of the Bulbs

Simon Lammers,
J 7-8, Physical Sciences & Math
Trinity Christian School, Independent

L11, Sweat It Out

Sierra Stewart,
J 7-8, Health Sciences
Trinity Christian School, Independent

L12, Money Down The Drain - A Comparison Of Drain Water Heat Exchangers

Andrew Allen,
J 7-8, Earth and Environmental
W. H. Morden Public School, HDSB

L13, Mans Best Friend

Ana Stosic, Julie Smithers
J 7-8, Life Sciences
W. H. Morden Public School, HDSB

SPECIAL AWARDS

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

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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.

American Society for Quality (ASQ) – Hamilton Section Award

Prize: One cash prize of \$100

Criteria: Best project demonstrating the use of quality tools and principles.

ArcelorMittal Dofasco Chemical Testing Award

Prize: \$50

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

ArcelorMittal Dofasco Commercial Award

Prize: \$50

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

ArcelorMittal Dofasco Engineering & Maintenance Technology Award

Prize: \$50

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

ArcelorMittal Dofasco Environment Award

Prize: \$50

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 ...

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

ArcelorMittal Dofasco Human Resources Training and Development Award

Prize: \$50

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

ArcelorMittal Dofasco Information Systems Award

Prize: \$50

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

ArcelorMittal Dofasco Product Research & Automotive Applications Award

Prize: \$50

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

ArcelorMittal Dofasco Medical Department Award

Prize: \$50

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

ArcelorMittal Dofasco Product Development Business Process Award

Prize: \$50

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

ArcelorMittal Dofasco Quality Systems Award

Prize: \$50

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

ArcelorMittal Dofasco Research and Development Award

Prize: \$50

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

ArcelorMittal Dofasco Steelmaking Award

Prize: \$50

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

Artistically Inspired Display Award

Prize: Two awards of \$50 each

Criteria: To the most artistically inspired display

Bell Computer and Communications Awards

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

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

Canadian Institute of Mining & Metallurgy Hamilton Branch Awards

Prize: Two cash prizes of \$100 each.

Criteria: For projects relating to mining, petroleum 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: Cash & certificate awards for outstanding projects related to Mining, Metallurgy, and petroleum, any level

Cancer Assistance Program Awards

Prize: Three awards

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

Chemical Institute of Canada, Hamilton Section Award

Prize: Three cash prizes of \$100 each.

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

SPECIAL AWARDS Continued ...

Conservation Halton Environmental Sciences Award

Prize: \$100 each to two projects

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

D.E.N.M. Mining & Mineral Processing Awards

Prize: Three cash awards of 1st prize \$125, 2nd prize \$75, and 3rd prize \$50

Criteria: Outstanding engineering, physical sciences or environmental sciences projects (any level) with a preference to projects relating to Mining and Mineral processing

Edward H. Oldham Patent Award

Prize: One (1) gift-in-kind US Provisional Patent Application, there will be two runner ups to this award

Criteria: Assistance in preparation of a US Provisional Patent. The winner will be the "best" patentable entry at BASEF.

Dr. Colin J.L. Lock Memorial Chemistry Award

Prize: \$100

Criteria: Project demonstrating the best application of chemistry.

Dr. Nicola Simmons Award in Cognition Studies

Prize: \$100

Criteria: An exemplary project in cognition studies.

Dr. Leonard Harris Award in Health Sciences or Environment

Prize: \$100 to each of two projects

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

Dr. Odette Tunks Awards

Prize: Two awards of \$100 each

Criteria: Two awards for the most creative or innovative project, any level.

Electrical Construction Association of Hamilton Award

Prize: \$250

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

EnviroExpo Special Award sponsored by Via Rail Canada

Prize: One award of \$100

Criteria: An outstanding project that applies the combined skill and science to address a pressing environmental issue. In addition to traditional science content, the project must incorporate an artistic discipline and fall into one of the seven areas of environmental focus: Renewable Energy, Sustainable Development, Resource Management, Environmental Influences on Health, Culture Society and the Environment, the Greening of Products and Services or Biodiversity. The EnviroExpo Special Award is open to all students, grades 7-12

Gowlings Innovation Award

Prize: \$250

Criteria: The award will be given in any category for a project that exploits multiple areas of intellectual property protection, namely trademarks, patents, industrial design and copyright. The prize includes a complimentary consultation with a patent or trademark agent at the Gowlings Hamilton office.

Hamilton Association daVinci Award

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

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

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

Hamilton Clean & Green Award

Prize: One cash award of \$500

Criteria: The entry that best addresses the effect on the environment of littering, dumping, and defacing property and/or processes and systems to effectively remediate, contain and prevent litter and graffiti.

Hamilton Wentworth Occasional Teacher Local - Environment and Education Award

Prize: \$50 and certificate

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

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.

SPECIAL AWARDS Continued ...

Hamilton Wentworth Occasional Teacher Local - Presentation and Aesthetics Award

Prize: \$50 and certificate

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

Helen Crawford Memorial Award

Prize: \$100

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

Hillfield Strathallan College Awards of Excellence

Design and Engineering

Prize: One cash award of \$100

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

Environmental Sciences

Prize: One cash award of \$100

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

Health Sciences

Prize: One cash award of \$100

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

Horizon Utilities Corporation Award

Prize: Three awards of \$300 each

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

Hydro One Energy Ambassador Award

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

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

IEEE Hamilton Section Awards

Prize: Two prizes of \$100 each

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

Investigative Science Awards

Prize: Two cash prizes; 1st prize \$200, 2nd prize \$100

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

The James A. Winger Award sponsored by Hamilton Amateur Astronomers

Prize: \$100 award plus an Astronomy book

Criteria: Best project in demonstrating and understanding of a topic related to astronomy or physics

John. W. Howard Materials Research Award

Prize: \$100

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

Laurentian Chapter of SETAC Award

Prize: One cash prize of \$200

Criteria: Best project and presentation on a topic related to Environmental toxicology, chemistry, pollution, contamination, remediation or environmental protection.

McMaster University Department of Chemistry Award

Prize: \$100 plus certificate

Criteria: An outstanding senior or intermediate project connected to chemistry

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.

McMaster University, The Venture Science and Engineering Innovation Award

Prize: Free registration to Venture Engineering Science Camp on June 29-July 3rd, 2009 or August 4th-August 7th, 2009 and a plaque to the winning project

Criteria: Is presented to one junior project that demonstrates creativity and originality.

SPECIAL AWARDS Continued ...

Mechanical Contractors Association of Hamilton Award

Prize: \$250

Criteria: Best intermediate or senior engineering project.

Mohawk College School of Engineering Technology Awards

Building & Construction Sciences Awards

Prize: \$50

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

Prize: \$50

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

Prize: \$50

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

Chemical and Environmental Engineering Technology Awards

Prize: \$100

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

Prize: \$50

Criteria: One deserving junior project in environmental studies.

Computer Science & Information Technology - Computer Excellence Award

Prize: \$50

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

Electrotechnology Engineering Award

Prize: Two cash awards of \$50 each

Criteria: One award for \$50 to a deserving junior project in engineering studies. Second award for \$50 to 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.



SPECIAL AWARDS Continued ...

National Science & Engineering Research Council (NSERC) Awards

Prize: \$250 to each of two projects.
Criteria: Deserving projects demonstrating innovative and creative research by the student.

Nelson Steel Awards

Prize: Two prizes of \$50 in each of the following fields - steel or environmental or chemistry
Criteria: \$50 cash award for an outstanding projects related to one of the following fields, steel, environmental and chemistry. Preference given to junior levels

Nipissing University Regional Science Fair Award

Prize: One scholarship award of \$1000
Criteria: To a senior project, any category to be paid out upon registration at Nipissing University

Ontario Association of Medical Laboratories

Prize: One award of \$100, to be sent after the fair
Criteria: Outstanding project 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

Junior or Intermediate Engineering Awards
Two prizes each of : \$250, \$150, \$100
Criteria: Deserving projects in junior or intermediate engineering.
Junior or Intermediate Physical Sciences Awards
Two prizes each of : \$125, \$75, \$50
Criteria: Deserving projects in junior or intermediate physical sciences.
Junior or Intermediate Earth & Environmental Awards
Two prizes each of: \$125, \$75, \$50
Criteria: Deserving projects in junior or intermediate earth & environment.

Professional Engineers Ontario (Hamilton-Burlington Chapter) Awards

Prize: 1st: \$250, 2nd: \$150, 3rd: \$100
Criteria: To the top three outstanding Engineering Project Exhibitors at any level.

**The Hamilton Clean City
Liaison Committee**

congratulates all participants

in the

**Bay Area Science &
Engineering Fair**



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***Congratulations to
all BASEF participants!***

SPECIAL AWARDS Continued ...

Professional Engineers Ontario (Oakville Chapter) Engineering Awards

Prize: Two awards of \$100 each
Criteria: To two deserving engineering projects.

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.

SPIE Optics and Photonics Science Fair Award

Prize: Three cash awards (in US Funds) 1st: \$250, 2nd: \$150, 3rd: \$100, any level
Criteria: For the best project in optics or photonics where student(s) apply optics or photonics technology, techniques or principles to his and her project.

Weirdest Project Award

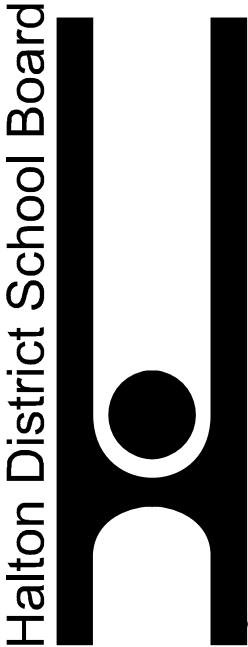
Prize: UFO Detector Device & Nikula Tesla Library
Criteria: The unusual, strangest, or subject matter that goes beyond the reality of scientific explanation.

University of Ontario Institute of Technology Innovation Award

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

University of Ottawa Admission Scholarship

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



*The Halton District School Board
would like to congratulate
all participating students in the 2009
Bay Area Science and Engineering Fair.
Best wishes for continued success!*

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SPECIAL AWARDS Continued ...

Ontario Ministry of the Environment Award

Prize: One cash prize of \$100, to be sent after the fair and one award must go to a junior project.

Criteria: To an outstanding project in any category which demonstrates a creative approach to an environmental problem that could lead to cleaner air, land or water

Royal Botanical Gardens Award

Prize: \$100 gift certificate from RBG shop plus 1 year RBG Family Membership

Criteria: Best project in botanical or environmental sciences

Zonta Club of Hamilton Awards

Prize: \$300 will be shared by a limited number of projects.

Criteria: Outstanding projects by females, any category, any level.



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MERIT AWARDS



Sponsored by Primary Fluid Systems

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

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

Scoring:

over 90% and ranking in top 7.5% of category:
 over 80% and next 10% of category:
 over 75% and next 12.5% of category:
 over 75% and not in the top 30% of category:

earns **Gold medal & cash award**
 earns **Silver medal & cash award**
 earns **Bronze medal & cash award**
 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 2009 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.



BASEF 2010

Next year BASEF is turning 50!

Join us for our 50th Anniversary Fair!
At McMaster University March 24-27, 2010

SUPPORT YOUR FAIR! Be a Participant! Be a Volunteer!

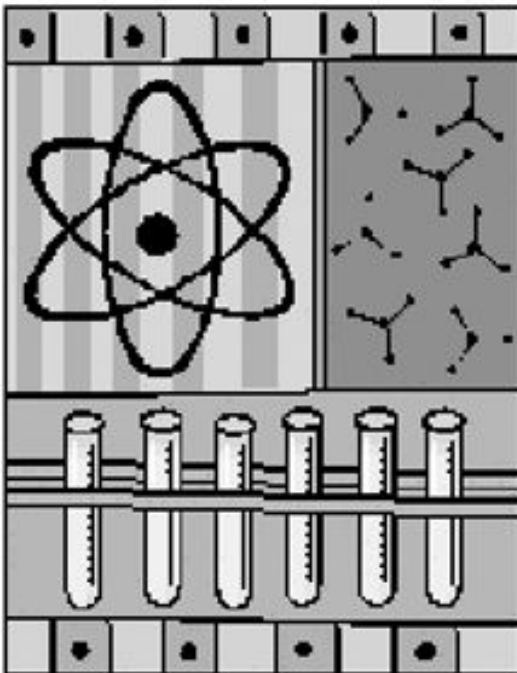
We are Canada's biggest and most successful Regional Fair!
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Bay Area Science and Engineering Fair 2010 Committee

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*"Opportunity is missed
by most people
because it is dressed
in overalls and
looks like work"*

Thomas A. Edison



Primary Fluid Systems Inc.

Burlington, Ontario
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GRAND PRIZE AWARDS

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

ARCELORMITTAL 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.

SUSAN JOYCE MEMORIAL AWARDS

For the top project in each of the six categories at the Junior level, a keeper trophy for each student.

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.



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GRAND PRIZE TRIP AWARDS

INTEL INTERNATIONAL SCIENCE & ENGINEERING FAIR TRIP AWARDS

All expense-paid trips to the 2009 Intel International Science & Engineering Fair, to be held in Reno, Nevada, USA from May 10 to 16, 2009. 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. **NOTE:** Winners must be able to travel into the USA with a valid Canadian Passport (valid for more than 6 months at the time of travel) and/or have Canadian citizenship or landed immigrant status at the time of travel with all paperwork provided.

Sponsors are

- McMaster University
- Mohawk College of Applied Arts and Technology
- Sheridan Institute of Technology and Advanced Learning



CANADA WIDE SCIENCE FAIR TRIP AWARDS

All expense-paid trips to the 2009 Canada Wide Science Fair, to be held in Winnipeg, Manitoba, Canada from May 9 to May 17, 2009. Up to 16 trips (dependant on funding levels) will be awarded for excellent projects. All projects entered in BASEF 2009 are eligible.

Sponsors are

- Boehringer Ingelheim
- City of Hamilton, Economic Development Department
- Edward Oldham, P.Eng, Patent and Trademark Agent
- Halton Catholic District School Board
- Halton District School Board
- Halton Region, Business Development Department
- Hamilton Halton Construction Association
- Hamilton Wentworth Catholic District School Board
- Hamilton Wentworth District School Board
- Sci-Tech Ontario
- Union Gas

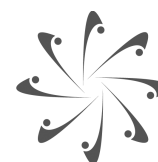


YOUTH SCIENCE FOUNDATION CANADA

FONDATION SCIENCES JEUNESSE CANADA

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



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Bell is proud to sponsor the 2009 Bay Area Science and Engineering Fair.
Good luck to all the participants!





Because we believe
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Addendum to the Official Program

Bay Area Science and Engineering Fair 2009



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Mary Procyszyn

Christine Rowthorn

Wuchow Than

Jo-Anne Teoh

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CSWF: Roslynn Price, Tom Crawford

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Daniel Lawlor

Justin Lewis

Steve Lonz

Neil Manmohan

Leslie McAnanama

Brad Michell

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Darren Twyford

Steven Walsh

Paul Wehrle

Elizabeth Weretilnyk

Bruce Young

THANK YOU DAN BOWMAN, TOM CRAWFORD AND CHRYSLER CANADA!

Last year (2008), one of our committee members, Dan Bowman, arranged for Chrysler Canada, National Fleet division, to loan us a large van (free of charge) for a week in May 2008. BASEF's Judge-in-chief and chaperone, Tom Crawford, drove the van with the winning BASEF 2008 projects to the Canada Wide Science Fair in Ottawa, Ontario. This was a tremendous help to the students, parents and the chaperones.

Thank you. We couldn't have done it without you!

MERIT AWARD JUDGES

Arcelormittal Dofasco

Scardamaglia, Joe

Pump, Sonya

Spearin, Don

Stewart, Ron

Seuradge, Marc

Barber, Ian

Consultant (retired)

Groen, Karin

General Electric

Mejia, Diego

Hamilton Police Service

Jeremic, Aleksandra

Hatch

HWCDSD

Coderre, Mary

Feltham, Diana -

Templemead School

Bedi, Amrinder Kaur

Occasional Teacher

McNair, Eric

Retired teacher

Peters, Annemaree

Sherwood SS

Hiam, John R.

LTV Steel (retired)

McMaster University

Jeremic, Aleksandar

Ryan, Ellen B.

(Emeritus)

Smith, Spencer

Faculty of Eng'g.

Lou, Tenn

Pharmaceutical companies

Hines, Allan

Predictive Service – Canada

Closson, Gary

Sheridan College (retired)

Surovtsev, Elena

Source Technical Group Inc.

Pacey, Laura

University of Toronto

Morin, Shane

Xerox

Kritikos, Soula

Ahluwalia, Steve

Smith, Lindsay Alexandra

Yau, Jonathan

SPECIAL AWARD JUDGES

Braun, Tom
Chin, Stephen
Dalrymple, Ron
De Meo, Leo
De Tina, Renato

Donnelly, Sean
Eastman, Doug
Ersser, Al
Fuller, Keith
Goetz, Fred

Hackett, John
Huynh, Van-Thiet
Johnston, Leslie
Lee, Deborah
Meyer, Larry

Mitchell, Cameron
O'Reilly, Ian
Price, Mike
Stirling, Jim
Underwood, Mike

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SPECIAL AWARDS

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

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

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

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

Prize: certificates

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

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

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

ASM Materials: outstanding exhibit in materials science.

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

Herbert Hoover Young Engineer Award: Outstanding Engineering Project.

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

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

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

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

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

Procor Engineering Awards

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

Criteria: Excellent Engineering projects

