

Bay Area Science and Engineering Fair Sponsored by ArcelorMittal Dofasco



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About BASEF

The Bay Area Science and Engineering Fair* (BASEF) is the regional fair for the City of Hamilton, Region of Halton, Six Nations, and the counties of Brant, Haldimand and Norfolk. BASEF is open to over 100,000 students from grades 7 to 12 attending public, separate, independent, private and home schools. BASEF is a registered charity run by a diverse group of committee volunteers from business, education, and industry.

Mission

To promote project based science and encourage youth to conduct research in areas of science, engineering, mathematics and technology, utilizing the scientific method or engineering design process.

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" and communication skills and gain self-confidence and a sense of accomplishment for a job well done.

Goals

Our goal at BASEF is to make science fair participation a rewarding and enjoyable experience. Students may not win big in their first or even second science fair competition, however they gain the tremendous opportunity to meet other students interested in science and technology, and get a chance to meet and learn from some of our successful science fair veterans.

Major Activities

BASEF volunteers organized and staged the 53rd Annual Regional Fair, March 20-23, 2013, at Hillfield Strathallan College and Mohawk College in Hamilton.

The administration and staff of both schools gave excellent support, cooperation and assistance to BASEF and provided a warm welcome to our students, volunteers, and visitors.

BASEF's **YES** (Youth Engaging in Science) Outreach Program provided guidance and mentors for 10 projects in two secondary schools.

BASEF continues to provide Activity Morning during the fair for both BASEF participants and classes of Grade 7-8 students. The Activity Morning show is completely sold out each year with many schools on a waiting list to attend.

Teacher's Activity Day workshop is now available as a full day of training by BASEF's very experienced former Chief Judge, Tom Crawford.

Science Success! Materials developed by BASEF continue to be used at the regional, national and international level.

BASEF committee members regularly volunteer their time to assist teachers through judging at school science fairs, mentoring students, and easing newcomers

through the regulations, rules, and scientific review requirements.



^{*} BASEF is a registered charity 118951565RR0001

Fair Highlights

Over **\$152,000** in cash, prizes, trips, scholarships and participation awards.

156 students received Merit

Awards



sponsored by Primary Fluid Systems. Total value \$9,020. All Merit Award winners received merit scholarships provided by Mohawk College and Sheridan College. Total value \$78,000.





153 special awards were presented totaling \$15,200 in cash, \$3,500 in scholarships and one internship valued at \$2,200.

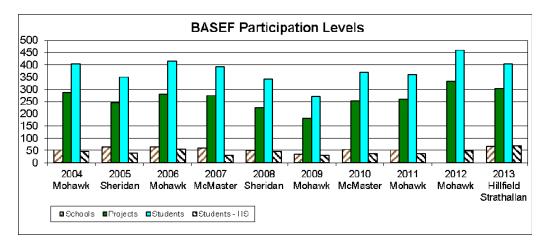
Activity Morning

sponsored by Bell Canada

BASEF Activity Morning is a major outreach event for both BASEF participants and local Grade 7-8 students, designed to create interest in BASEF. Approximately **700 students** from eleven schools and nearly 400 BASEF students attended. The keynote address was given by Care Go Technology about Innovative Ways to Ship Steel



Around the World. Presentations were given by McMaster's Venture/Leap Program, Southern Ontario Gliders Group, the Hamilton Amateur Astronomers, McMaster University Sustainability, and McMaster University Chemistry professors finished with an intensive chemistry show. Thank you, Bell Canada for your support.





Three high school students

advanced to compete in the Intel International Science & Engineering Fair in Phoenix, Arizona, May 12-17, 2013. BASEF also provided one

other high school student the opportunity to attend IISEF as an observer.

16 students advanced to compete in the Canada Wide Science Fair in Lethbridge, Alberta, May 11-18, 2013

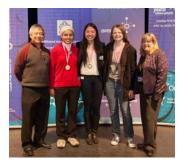


Competition Results

Twenty of the top students won trips to either the Canada Wide Science Fair (CWSF) in Lethbridge, Alberta, or to the Intel International Science and Engineering Fair (IISEF) in Phoenix, Arizona.

National Competition R Canada Wide Science Fa		an addit a same as
Catharine Bowman St. Mary Secondary School, Hamilton	Just the Right Light – An Investigation Using Bright/ Dark Illumination Principles Gold Medal winner Discovery Challenge Award	
Ishan Aditya MacLachlan College, Oakville	Skeletal Muscle Inflammatory Cy Disease Risk Silver Medal winner	tokine Expression Predicts Metabolic
Jason Fan Westdale Secondary School, Hamilton	Saving the World – One Ligand a Ligand Silver Medal winner	t a Time: Novel Streptococcus pneumoniae
Alex Tomala Cardinal Newman Secondary School, Stoney Creek	MIPE: Microprocessor with Integ Silver Medals winner	grated Programmable Execution Units
Graham Bohm St. Augustine Catholic Elementary School, Dundas	Evading Erosion: Which Plants A Erosion? Bronze Medal winner	re Effective at Controlling Shoreline
Katie Brent Notre Dame Secondary School, Burlington		l Reminder Technological Health Assistant
Blake Correia and Eduard Brenninkmeijer Oakville Christian School, Oakville	Is Your Water Pure? Bronze Medal winner	
Mycah DeJong Trinity Christian School, Burlington	Intellectual Interference Bronze Medal winner	
Caroline Mahut Rolling Meadows Public School, Burlington	Ground effect Aircraft: Is it a mon Bronze Medal winner	re energy efficient way to travel?
Theo Willows John William Boich Public School, Burlington	Atlast: A Proper Controller Bronze Medal winner	

International Competition Results-Intel International Science and Engineering Fair



Three BASEF students competed as part of "Team Canada" at the Intel International Science and Engineering Fair, held in Phoenix, Arizona.

Junyi (Sarah) Wu's project "Colorimetric Detection of Plasmodium Falciparum via Aptasensor Technology" won a Grand Award – Second Place Award in the Medicine and Health Sciences category and a First Place Award from the Sheikh Zayed Institute at Children's National Medical Centre.

Financial Highlights – Statement of Operations

For the year ended August 31, 2013 (unaudited)

	o (unuuur	cuj	Special Awards
Revenue	2013	2012	16%
General	\$ 72,226	\$ 67,792	Interest/ GST rebate
Special awards	14,125	14,185	2%
Interest/HST rebate	1,639	1,365	General
-	\$ 87,990	\$ 83,342	82%
Summary of Expenses			
Students: Awards/recognition/Activities	\$ 72,651	\$ 75,703	Champion Teacher
Champion teacher award	199	338	Award 0.2% Site and judging 2.8%
Teacher workshop	-	333	Outreach 1%
Site and judging	2,305	8,043	Administration
Outreach	545	427	9%
Administration	7,835	7,804	
-	\$ 83,535	\$ 92,648	Student Recognition
			Recognition 87%
Excess (Deficiency) of Revenue Over			
Expenses -	\$ 4,455	\$(9,306)	

Disbursements to Students			
Participation awards	2,330	3.2%	
Trophies and medals	2,452	3.4%	
Photography and audio visual	483	0.7%	
Merit awards	8,173	11.2%	
Special awards	14,510	20.0%	
Susan Joyce Memorial Award	300	0.4%	
Student activities	650	0.9%	
Intel International Science and	13,691	18.8%	
Engineering Fair			
Canada Wide Science Fair	30,062	41.4%	
	\$72 <i>,</i> 651	100.0%	

Administration Expenses

Office expenses	1,846	23.6%
Marketing and publicity	1,269	16.2%
Registration	398	5.1%
Fundraising	1,499	19.1%
Bank charges and interest	664	8.5%
Volunteers	104	1.3%
Ceremony and sponsor recognition	2,055	26.2%

\$7,835 100.0%

Sponsorship

Title Sponsor					
\sim					
ArcelorMittal DOFASCO HAMILTON					
Diamond (\$10,000+)	Platinum (\$5,000+)	Gold (\$2,500+)			
Hillfield Strathallan College Here Excellence is a Way of Life	THE HAMILTON SPECTATOR thespec.com	Bell Lifetouch TaylorLeibow Accountants Union Gas Limited			
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Sponsors donating in-kind services continued to help us provide an exceptional experience for BASEF participants. Key donations included: printing, posters, newspaper advertising, trip winners' jackets, photo ID tags, accounting, and web hosting.



BASEF 2013 Annual Report

Bay Area Science and Engineering Fair ^c/_o Mohawk College, 135 Fennell Ave West, Room F175 Hamilton, ON L8N 3T2



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