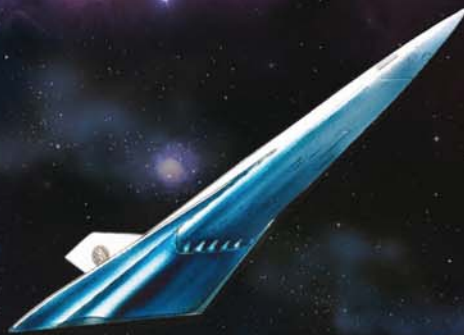


BASEF 2011 Annual Report

BASEF

Big ideas ...
Infinite possibilities



The 51st Annual Bay Area Science and Engineering Fair
Open to all grade 7 to 12 students in Hamilton,
Halton, Brant, Haldimand, and Norfolk



www.basef.ca

Bay Area Science and Engineering Fair

Sponsored by:



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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 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 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 51st Annual Regional Fair at Mohawk College in Hamilton.

Mohawk’s administration and staff offered excellent support, cooperation and assistance to BASEF and provided a warm welcome to all of our students, volunteers, and visitors.



BASEF’s **YES** (Youth Engaged in Science) Outreach Program involved 2 new schools with 10 projects.

This year BASEF initiated a new program, the **Champion Teacher Recognition Awards**, to recognize outstanding teacher support. Nominations are provided by the students with a BASEF committee making the final selection. Awards are presented at the awards ceremony.

BASEF-developed **Science Success!** materials continue to be utilized on 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 myriad of required regulations, rules, and scientific review requirements.



Fair Highlights

Over **\$140,000** in cash, prizes, trips, scholarships and participation awards.

134 students received Merit Awards, \$9,795 in cash, and \$67,000 in merit scholarships.

156 special awards were received, totalling \$15,235 cash plus \$4,500 in scholarships and one internship valued at \$2,200.



All-expense paid trips to compete in the Intel International Science & Engineering Fair in Los Angeles, California for 4 high school students.

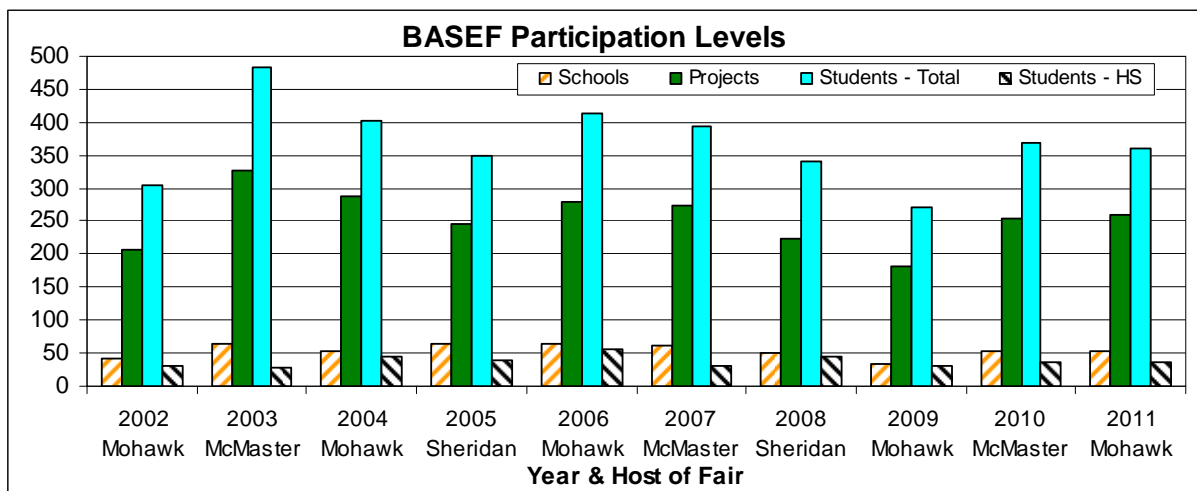
16 students won all-expense paid trips to compete in the Canada Wide Science Fair in Toronto, Ontario



Activity Morning

sponsored by Bell Canada

BASEF Activity Morning is an outreach event for both BASEF students and grade 7 and 8 students designed to create interest in BASEF for future fairs. Morning activities consisted of a series of speakers, presentations, and demonstrations attended by nearly a thousand people even with inclement weather preventing nearly 400 students from attending. Without the sponsorship of Bell Canada, an event of this magnitude would not be possible. Thank you Bell Canada for your support.



Competition Results

Our Top 20 students won trips to either the Canada Wide Science Fair (CWSF) in Toronto, Ontario, or to the Intel International Science and Engineering Fair (IISEF) held in Los Angeles, California (both in May 2011).

National Competition Results - Canada Wide Science Fair



Calvin Rieder

(Grade 8,
Oakville Christian
School, Oakville)

Gold Medal \$5,500 in
cash and scholarships

Design of atmospheric
water condensers to
provide clean drinking
water in areas where water
may not be readily
available.

Patrick Chong

(Grade 8,
Canadian
Martyrs School,
Dundas)

Silver Medal \$2,700 in
cash and scholarships

Investigated using Fresnel
lenses to improve the
output of solar cells

Gaven Mann

(Grade 8, W. H. Morden
Public School, Oakville)

Bronze Medal \$1,300 in cash and scholarships

Investigate the relationship of student sleeping habits to academic performance.

**Adam Chen &
Nick Dobrovolskis**

(Grade 8, Hillfield
Strathallan, Hamilton)

Bronze Medal \$1,300 in cash and scholarships

An investigation into the levels of mercury found in sea salt.

International Competition Results-Intel International Science and Engineering Fair



Sarah Flaherty

(Grade 9, Westdale
Secondary School,
Hamilton)

Google Secret Change Agent
Special Award \$10,000

Improving solar disinfection of water, by
reducing turbidity, to help provide clean
water in developing regions.

**Janelle van
Leeuwen**

(Grade 9, Hillfield
Strathallan College,
Hamilton)

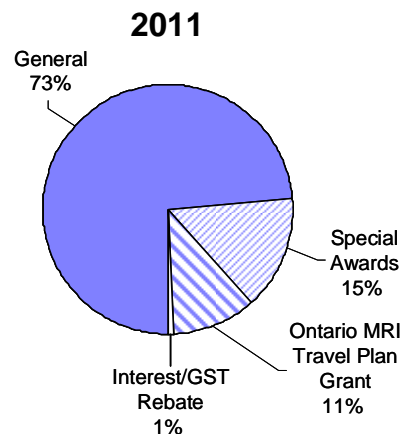
US Patent and Trademark Office
Society Special Award \$200

Effects of landscape light electro-
magnetic fields on the growth of garden
plants.

Financial Highlights – Statement of Operations

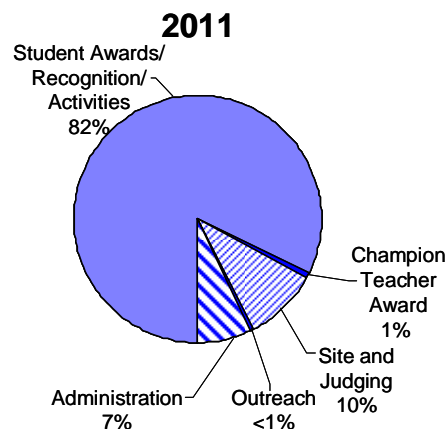
For the year ended August 31, 2011 (unaudited)

Revenue	2011	2010
General	\$71,073	\$75,450
Special awards	14,060	12,950
Ontario MRI Travel Plan Grant	10,400	10,400
Interest/GST rebate	856	358
Susan Joyce Memorial Fund	-	450
	<u>\$96,389</u>	<u>\$99,608</u>



Summary of Expenses

Student Awards/Recognition/Activities*	\$66,169	\$63,224
Champion teacher award	572	-
Site and judging†	7,882	22,947
Outreach	364	144
Administration	5,601	6,260
	<u>\$80,588</u>	<u>\$92,575</u>
Excess of Revenues Over Expenses	<u>\$15,801</u>	<u>\$7,033</u>



Disbursements to Students‡

	2011	%
Canada Wide Science Fair	\$26,775	40.5%
Special awards	14,410	21.8%
Intel International Science and Engineering Fair	13,232	20.0%
Merit awards	9,243	14.0%
Trophies and medals	1,100	1.7%
Photography & audio visual	1,076	1.6%
Participation awards	333	0.5%
	<u>\$66,169</u>	

Administration Expenses

	2011	%
Office expenses	\$1,204	21.5%
Volunteers	522	9.3%
Ceremony & sponsor recognition	1,677	29.9%
Registration	303	5.4%
Fundraising	1,423	25.4%
Bank charges	387	6.9%
Marketing & publicity	85	1.5%
	<u>\$5,601</u>	

* Student awards, recognition and activities were 82% of the total expenses of \$80,588. In addition to these disbursements to students, each participant received a goody bag, and all medal winners (134 students) received \$500 entrance scholarships to Mohawk College.

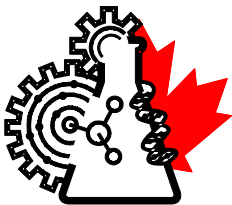
† Site expenses are lower than in 2010 due to hosting at Mohawk College.

‡ BASEF awarded over \$140,000 in prizes; one of the largest prize purses of regional fairs in Canada.

Sponsorship

Title Sponsor		
 ArcelorMittal <small>DOFASCO HAMILTON</small>		
Diamond (\$10,000+)	Platinum (\$5,000+)	Gold (\$2,500+)
Mohawk College Primary Fluid Systems Youth Science Canada	Bell Canada Hamilton Spectator McMaster University McMaster-Mohawk Bachelor of Technology Partnership Ontario Power Generation- Nanticoke Generating Station	Lifetouch TaylorLeibow Accountants Union Gas Limited
Silver (\$1,000+)	Bronze (\$500+)	
ASECO Integrated Systems Boehringer Ingelheim Canadian Linen & Uniform Service City of Hamilton Economic Development Dept. DENM Engineering Edward Oldham, Patent & Trademark Agent Halton Catholic District School Board Halton District School Board Hamilton Halton Construction Association Hamilton-Wentworth Catholic District School Board Hamilton-Wentworth District School Board Hillfield-Strathallan College Youth Science Ontario	Ballagh & Edward LLP BattleGoat Studios Deloitte & Touche LLP Dillon Consulting Halton Region Economic Development Hamilton Community Awareness and Emergency Response John Deere Foundation Pioneer Hi-Bred	
....and our many Benefactors, and Sponsors at the Friends level		

Sponsors donating in-kind services continued to help us provide an exceptional experience for BASEF participants. Key donations included: printing, posters, newspaper advertising, winners' jackets, photo ID tags, accounting, and web hosting.



Bay Area Science and Engineering Fair
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