



Bay Area Science and Engineering Fair

BASEF

SPONSORED BY THE ONTARIO TRILLIUM FOUNDATION

2004

Results of BASEF 2004 Intel ISEF 2004 CWSF 2004

Over \$ 165,000 Awarded at BASEF 2004

BASEF 2004 was a huge success with over 400 participants from 52 schools, registering 288 amazing projects.

BASEF is not only one of the largest regional science fairs in Canada, but has the distinction of offering the largest prize purse. In addition to over \$73,000 in cash and awards, each of the 145 Gold, Silver and Bronze medallists, won a \$500 entrance scholarship to be redeemed on acceptance at either Mohawk or Sheridan College.

Microsoft Canada generously donated 100 software packages (retail value of more than \$20,000) that were distributed to fair participants through a random draw. As always, each participant at the fair received a "goody" bag that included the official BASEF 2004 tee shirt and other donated items.

We apologize for the length of the Awards Ceremony, but it does take time to award 154 special awards, 145 medals, 24 Grand Trip Awards, not to mention the "Best Project" awards. Our hard working students deserve their moment in the spotlight! These awards were shared by approximately 50% of our participants.

Participation Statistics

Although the majority of our participants were in the Junior category (grades 7-8), BASEF

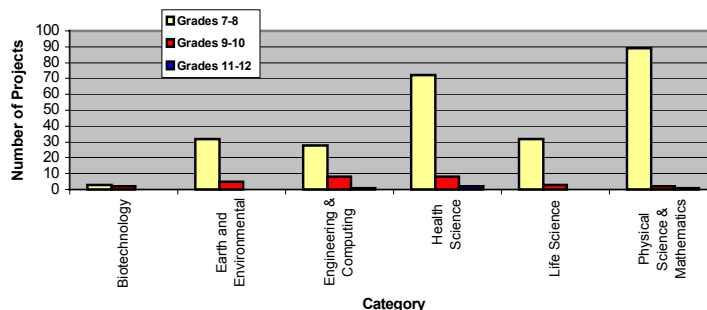
look forward to seeing them over the next few years.

Overall participation fell by approximately 12% in 2004, primarily due to the display space restrictions at Mohawk College and the necessity of limiting the number of projects each school was allowed to enter. There were 231 female and 173 male students registered.

Advice from our Science Fair Veterans

Our most successful BASEF competitors offer the same advice to students new to science fairs. The ideal time to start your science fair project is during summer vacation. Don't wait until the project is assigned by your teacher in December. Good projects can be completed in a month, but great projects take more time and effort and are eligible for the Grand Trip Awards.

Projects by Category and Division



2004 welcomed one of the largest ever contingents of high school students (32 in total). Most of these students participated in the Intermediate Division (grades 9-10) and we

BASEF 2005
Sheridan College
March 30th – April 2nd, 2005.

BASEF 2004 Review

After an exhaustive judging process, that saw each project independently judged by a minimum of four judges, the scores were compiled, averaged and the Merit, Grand and Trip recipients determined.

Dayna Walker, a grade 9 student at St. Mary's in Hamilton, had an unprecedented second win of the BASEF 1st Place Best in Fair Pinnacle Award. Anthony Chiarelli, in Grade 9 at St. Thomas More in Hamilton, received BASEF 2nd Best in Fair and Joseph Querques, a grade 9 student at Christ the King in Halton, won 3rd Best in Fair.

All three students are veterans of BASEF and the Canada Wide Science Fair. In total, Dayna and Joseph each won eleven awards and Anthony won eight. **To avoid boredom during the awards ceremony, these students offer the following advice:**

1. Select a topic that interests you.
2. Spend hundreds of hours working on your project.
3. Practice your presentation until your parents know it by heart, even if they don't understand it.
4. Be prepared to revise your display board, notebook and

possibly, most of your project before you head off to National or International competition.

5. Accept that you will miss out on some social activities because you have made science fair participation one of your priorities.

6. Enjoy the accolades on Awards Day, your trip award, the opportunity to miss your family for a week, and finally, start thinking about next year's project!

Twenty of the 404 student participants at BASEF 2004 won trips to compete in the Canada Wide Science Fair in St. John's, Newfoundland. Four additional high school students earned one of eighteen spots on the prestigious Team Canada and competed at the Intel International Science and Engineering Fair in Portland, Oregon. These trips are entirely funded by BASEF and only made possible through the financial support of our generous sponsors.

Eight BASEF alumni went on to compete at their second, third or fourth, National or International Science fair in 2004, proving that practice does make perfect. These students have recognized the opportunities (not to mention financial rewards) provided by

science fair participation, rolled up their sleeves and got to work.

We extend our best wishes to Colin O'Flynn, who has been a regular and unbelievably successful participant since BASEF 2000, as he enters university. Colin's science fair participation earned him a total \$ 45,000 in cash, trip awards and scholarships. Good luck in your future endeavours and we look forward to seeing you return to BASEF as a judge or mentor.

Grand Prize Winners from BASEF 2004

1st Place Best in Fair Pinnacle
Dayna Walker
St. Mary's, Hamilton

2nd Place Best in Fair Pinnacle
Anthony Chiarelli
St. Thomas More, Hamilton

3rd Place Best in Fair Pinnacle
Joseph Querques
Christ the King, Halton

Roy Middleton Award
Thomas Hobson
Appleby College
Pfizer Canada Award
Joseph Querques
Christ the King, Halton
BASEF Chairman's Award
Sean Curtis



BASEF members of Team Canada in Portland, Oregon included Mark Brejnik, Anthony Chiarelli, Ben Gulak and Dayna Walker.

Congratulations to Anthony Chiarelli, whose project *Invisible Cryptography - A Medical Application* won the following awards at ISEF in Portland:

Intel ISEF Best of Category Award - Third Award (\$1,000)

IEEE Regional Award of Merit (\$50)

DuPont Honourable Mention Award (\$500)

Honorable Mention Award for International students

**Intel ISEF Trip Award
Winners**
** alumni of CWSF*

Dayna Walker **
St. Mary's, Hamilton
Anthony Chiarelli **
St. Thomas More, Hamilton
Ben Gulak & Mark Brejnik
Hillfield-Strathallan



**Intel ISEF
Team BASEF 2004**
*Dayna, Anthony, Ben and
Mark on their way to
Portland, Oregon and the
Intel International Science
and Engineering Fair.*

May 8 –15, 2004

CWSF Trip Award Winners
** CWSF/ISEF alumni*

Joseph Querques *
Christ the King, Halton
Natalie Raso
St. Thomas More, Hamilton
Ryan Perez *
St. Thomas More, Hamilton
Colin O'Flynn ***
Westdale, Hamilton
Thomas Hobson
Appleby College
Anne Marie Child
Dalewood, Hamilton
Marianne Querques *
Christ the King, Halton
Justin Balsor
St. Mark, Hamilton
Marcel Galli
St. Mark, Hamilton
Augustine Krawchenko
Holy Spirit, Hamilton

Chris Marco
St. Thomas, Hamilton
Andrew Darby
Sacred Heart of Jesus,
Halton
Nathan Pelech
Appleby College
Patrick Martin **
Bishop Ryan, Hamilton
Natalie Fox
Eastview, Halton
Jonathan Harris
Appleby College
Jonathan Flegg *
Appleby College
Brian Le
Dalewood, Hamilton
Julia Brucculieri
St. Agnes, Hamilton
Jordan Bowman *
St. Marv's. Hamilton



**CWSF
Team BASEF 2004**
St. John's, Newfoundland
May 15-23, 2004

CWSF Alternates

Sean Curtis **
St. Thomas More, Hamilton
Kayla Cornale
Assumption, Halton
Spencer McTavish
Appleby College



*"We are east of you; no
one is east of us. We
are the Eastest."*

Ken Moyle

Members of Team
BASEF, including intrepid
chaperone Ken, enjoying
the balmy,
spring- like weather in
Newfoundland.

BASEF students win over \$ 46,000 in cash, awards and scholarships at the 2004 Canada Wide Science Fair in St. John's, Newfoundland!!

Colin O'Flynn, Westdale, (Hamilton)

Gold Medal (\$1500 cash award, and \$ 2000 scholarship to the University of Western Ontario)
University of Saskatchewan \$ 10,000 scholarship
Memorial University \$ 15,000 scholarship

Natalie Raso, St. Thomas More, (Hamilton)

Gold Medal (\$1500 cash award, and \$ 2000 scholarship to the University of Western Ontario)
All expense paid trip to participate in the 3rd APEC Youth Science Festival in Beijing, China
C.S.M.L.S. award of \$ 500

Jordan Bowman, St. Mary's (Hamilton)

Silver Medal (\$700 cash award, and \$ 1000 scholarship to the University of Western Ontario)

Andrew Darby, Sacred Heart of Jesus (Halton)

Silver Medal (\$700 cash award, and \$ 1000 scholarship to the University of Western Ontario)

Patrick Martin, Bishop Ryan (Hamilton)

Silver Medal (\$700 cash award, and \$ 1000 scholarship to the University of Western Ontario)

Anne Marie Child, Dalewood (Hamilton)

Bronze Medal (\$300 cash award, and \$ 1000 scholarship to the University of Western Ontario)
Natural Resources of Canada award of \$ 500

Ryan Perez, St. Thomas More (Hamilton)

Bronze Medal (\$300 cash award, and \$ 1000 scholarship to the University of Western Ontario)

Marianne Querques, Christ the King (Halton)

Bronze Medal (\$300 cash award, and \$ 1000 scholarship to the University of Western Ontario)

Thomas Hobson, Appleby College

Honourable Mention (\$100 cash award)

Natalie Fox, Eastview (Halton)

Genome Canada award of \$ 250

Marcel Galli & Justin Balsor, St. Mark (Hamilton)

Canadian Psychological Association award of \$ 150

Brian Le, Dalewood (Hamilton)

Royal Astronomical Society of Canada award of \$ 200

**To view the complete set of BASEF 2004 results, visit:
http://basef.mcmaster.ca/2004/results/?page=full_results**

**This "Gallery" of all winning projects, includes a photo of the display, abstract and list of awards.
The photos are detailed enough to get some great ideas on winning project designs.**