



April 3, 2004

## **For Immediate Release**

**On Saturday, April 3, 2004**, over \$145,000 in cash, prizes and scholarships was awarded to student participants in the **44<sup>th</sup> Annual 2004 Bay Area Science and Engineering Fair**.

Almost 400 students from grades 7 – OAC in Hamilton, Halton, Brant, Haldimand and Norfolk spent months preparing over 270 amazing science and engineering projects. For the first time ever, each of the 145 Gold, Silver or Bronze medallists received a \$500 entrance scholarship to be redeemed upon acceptance at either or Mohawk or Sheridan College.

Twenty four of the top winners of the Bay Area Science and Engineering Fair were awarded all expense paid Grand Trip Awards to compete at either the Canada Wide Science Fair in St. John's, Newfoundland, (May 16-23) or the Intel International Science and Engineering Fair in Portland, Oregon (May 9-15).

Dayna Walker, a grade 9 student from St. Mary's High School in Hamilton, repeated her 2003 Best in Fair achievement with a project that explored a more efficient windmill design utilizing multiple rotors. She is the first student who has had repeat wins of the BASEF Best in Fair Pinnacle Award.

There are few things that inspire more confidence in our combined future than listening to these enthusiastic young scientists discussing their research and results. With topics as diverse as the hazards of amalgam fillings, renewable energy applications, robotics and encryption of medical data, some of these projects have taken students many hours of determined persistence and perspiration; the top projects often represent well over 200 hours.

BASEF is one of the oldest and longest running science fairs in the country. The Spectator's Roy Middleton was instrumental in founding The Hamilton District Science and Engineering Fair in 1960. Since that time many thousands of young people from the city of Hamilton, Halton, Brant, Haldimand and Norfolk have benefited from their participation in this event. Some have gone on to achieve further success at the national and international levels, and many are now active in careers related to science and technology. Many continue to be involved with the fair at the judging and organizational levels.

Thanks to the support of our volunteers and sponsors, BASEF 2004 was a tremendous success.

Attached please find the results of BASEF 2004.

# **Results of the 44<sup>th</sup> Annual Bay Area Science and Engineering Fair**

Sponsored by the Ontario Trillium Foundation

April 3<sup>rd</sup>, 2004

Mohawk College, Hamilton, Ontario

## ***Best in Fair Pinnacle Award – 1<sup>st</sup> Place***

Dayna Walker (St. Mary's H.S.)

## ***Best in Fair Pinnacle Award – 2<sup>nd</sup> Place***

Anthony Chiarelli (St.Thomas More H.S.)

## ***Best in Fair Pinnacle Award – 3<sup>rd</sup> Place***

Joseph Querques (Christ the King Secondary School)

## ***Roy Middleton Award for best junior project***

Thomas Hobson (Appleby College)

## ***Pfizer Canada Award of Excellence for top project advancing to CWSF***

Joseph Querques (Christ the King Secondary School)

## ***Intel International Science and Engineering Fair Trip Awards***

Dayna Walker (St. Mary's H.S.)

Anthony Chiarelli (St.Thomas More H.S.)

Ben Gulak (Hillfield - Strathallan College)

Mark Brejnik (Hillfield - Strathallan College)

## ***BASEF Chairman's Award***

Sean Curtis (St.Thomas More H.S.)

## ***Canada-Wide Science Fair Trip Award***

Joseph Querques (Christ the King Secondary School)

Natalie Raso (St.Thomas More H.S.)

Ryan Perez (St.Thomas More H.S.)

Colin O'Flynn (Westdale H.S.)

Thomas Hobson (Appleby College)

Anne Marie Child (Dalewood)

Marianne Querques (Christ the King Secondary School)

Justin Balsor (St. Mark)

Marcel Galli (St. Mark)

Augustine Krawchenko (Holy Spirit)

Chris Marco (St. Thomas)

Andrew Darby (Sacred Heart of Jesus)

Nathan Pelech (Appleby College)

Patrick Martin (Bishop Ryan H.S.)

Natalie Fox (Eastview)

Jonathan Harris (Appleby College)

Jonathan Flegg (Appleby College)

Brian Le (Dalewood)

Julia Brucculieri (St. Agnes)

Jordan Bowman (St. Mary's H.S.)

## ***CWSF Alternates***

Sean Curtis (St.Thomas More H.S.)

Kayla Cornale (Assumption H.S.)

Spencer McTavish (Appleby College)

***BASEF Committee Trophy***

*Awarded to the elementary school accumulating the most points for Merit Awards*  
Appleby College

***Herb Gildea Memorial Trophy***

*Awarded to the secondary school accumulating the most points for Merit Awards*  
St.Thomas More H.S.

***Special Awards***

***Halton Regional Chairman's Award for Student Excellence***

1. Jonathan Harris (Appleby College)
2. Andrew Darby (Sacred Heart of Jesus)
3. Joseph Querques (Christ the King Secondary School)

***City of Hamilton Mayor's Award***

1. Natalie Raso (St.Thomas More H.S.)
2. Patrick Martin (Bishop Ryan H.S.)
3. Katie Gair, Nichole Mckay (St. Thomas)

***Acquired Brain Injury Award***

1. Kayla Cornale (Assumption H.S.)
2. Russell Fung, Alexandra Mayhew (Westview)

***Ambitious City Toastmasters - Communication Award***

Natalie Raso (St.Thomas More H.S.)

***Ambitious City Toastmasters - Leadership Award***

Dayna Walker (St. Mary's H.S.)

***Artistically Inspired Display Award***

1. Natalie Fox (Eastview)
2. Nick Petrina, Aaron Petrina (St. Agnes)

***Bell Canada Computer and Communications Award***

1. Alexis Butty (St. Bernadette)
2. Jason Magela (Aldershot H.S.)

***Canadian Finishing Systems Award***

Augustine Krawchenko (Holy Spirit)

***Canadian Institute of Mining & Metallurgy Hamilton Branch Award***

1. Joseph Querques (Christ the King Secondary School)
2. Evan Simpson-Hull (Appleby College)
3. Lauren Gurland, Leigh McFadden (Appleby College)

***Canadian Nuclear Society (Sheridan Park Branch) Junior Award***

1. Anne Marie Child (Dalewood)
2. Curran Egan (Rotherglen School)

***Canadian Nuclear Society (Sheridan Park Branch) Award Senior / Intermediate Award***

Dayna Walker (St. Mary's H.S.)  
Andrew Jackman, Andrew Bello (Parkside H.S.)

***Cancer Assistance Programme Award***

1. Natalie Raso (St.Thomas More H.S.)
2. Chelsea Paquette, Carmela Fuca (St. Agnes)

3. Lauren Mills (Immaculate Heart of Mary)

***Chemical Institute of Canada Hamilton Section Award - Chemical Technology***

Margaret Kaczanowski (St. Mark)  
Yashoda Singh (Appleby College)

***Chemical Institute of Canada Hamilton Section Award - Chemical Engineering***

Irene Rebalka (Holy Spirit)

***Chemical Institute of Canada Hamilton Section Award - Chemistry***

Ryan Perez (St. Thomas More H.S.)

***The DaVinci Award***

Colin O'Flynn (Westdale H.S.)

***Dofasco - By-Products Utilization Award***

Andrew Nyland (Burlington Christian Academy)

***Dofasco - Zyplex Material Science Award***

Andrew Jackman, Andrew Bello (Parkside H.S.)

***Dofasco - Steelmaking Award***

Diane Sivakumaran (St. Bernadette)

***Dofasco - Research and Development Award***

Thomas Hobson (Appleby College)

***Dofasco - Product Development Business Process Award***

Amanda Rispoli, Brittany Horodecki (St. Agnes)

***Dofasco - Process Automation Award***

Alex Romanowski, Daniel Van Amelsvoort (St. Augustine)

***Dofasco - Medical Department Award***

Emma Currie, Monica Vanderzanden (Dalewood)

***Dofasco - Market Development and Product Application Award***

Rianka Singh (Dundas District)

***Dofasco - Information Systems Award***

Anthony Chiarelli (St. Thomas More H.S.)

***Dofasco - Hot Mill Award***

Nicolas Querques, John Spehar (St. Joseph)

***Dofasco - Environmental Award***

Patrick Martin (Bishop Ryan H.S.)

***Dofasco - Engineering and Maintenance Technology Award***

Dayna Walker (St. Mary's H.S.)

***Dofasco - Creativity and Innovation Community of Practice Award***

Brian Le (Dalewood)

***Dofasco - Commercial Department Award***

Mason Saunders (Oakville Christian School)

***Dofasco - Chemical Testing Award***

Joseph Querques (Christ the King Secondary School)

***Dr. Colin J.L. Lock Memorial Chemistry Award***

Andrew Darby (Sacred Heart of Jesus)

***Dr. M Doyle Award***

Marianne Querques (Christ the King Secondary School)

***Eastman Kodak Company Photography Award***

Katarina Bassan, Amanda Paul (St. Matthew)

***The Electrical Construction Association of Hamilton Award***

Andrew Jackman, Andrew Bello (Parkside H.S.)

***Hamilton Amateur Astronomers Award***

Brian Le (Dalewood)

***Hamilton Utilities Corporation / Hamilton Community Energy - powerWise™ Award***

Anne Marie Child (Dalewood)

***Hamilton Wentworth Occasional Teachers Award - Presentation and Aesthetics***

Lisa Freidland, Deelan Patel (Dundas District)

***Hamilton Wentworth Occasional Teachers Award - Environment and Education***

Andrew Darby (Sacred Heart of Jesus)

***Hamilton Wentworth Occasional Teachers Award - Healthy Lifestyles***

Katie Gair, Nichole Mckay (St. Thomas)

***IEEE Hamilton Section Award***

Colin O'Flynn (Westdale H.S.)

***Intel Excellence Award - Environmental Science***

Patrick Martin (Bishop Ryan H.S.)

***Intel Excellence Award - Computer Science***

Colin O'Flynn (Westdale H.S.)

***International Science & Engineering Affiliated Fair Award***

Katie Housley (Sacred Heart of Jesus)

Joseph Querques (Christ the King Secondary School)

Anthony Chiarelli (St. Thomas More H.S.)

Alexis Butty (St. Bernadette)

Anne Marie Child (Dalewood)

Andrew Jackman, Andrew Bello (Parkside H.S.)

Joseph Querques (Christ the King Secondary School)

***Investigative Science Award***

Kayla Cornale (Assumption H.S.)

***Keep Hamilton Clean Award***

Taryn Karl, Jennifer Vaughan (St. Bernadette)

**McMaster Nuclear Reactor Award**

Andrew Avis, Duncan D'Arcy (Appleby College)

**McMaster University Department of Chemistry Award**

Ryan Perez (St.Thomas More H.S.)

**McMaster Engineering Society Award**

David Burns, Adrien Staples (St. Dominic)

**McMaster University Faculties of Science & Engineering - Tuition Award**

Anthony Chiarelli (St.Thomas More H.S.)

Natalie Raso (St.Thomas More H.S.)

Joseph Querques (Christ the King Secondary School)

Marianne Querques (Christ the King Secondary School)

Colin O'Flynn (Westdale H.S.)

**The Mechanical Contractors Association of Hamilton Award**

Dayna Walker (St. Mary's H.S.)

**Mohawk College Faculty of Engineering Technology Awards**

*Building & Construction Sciences*

Andrew Nyland (Burlington Christian Academy)

Jonathan Flegg (Appleby College)

Nicolas Querques, John Spehar (St. Joseph)

*Chemical and Environmental Engineering Awards*

Andrew Nyland (Burlington Christian Academy)

Jordan Bowman (St. Mary's H.S.)

*Mechanical & Industrial Engineering*

Benjamin Greenlay (Dalewood)

David Burns, Adrien Staples (St. Dominic)

Nicholas Ivanecky (St. Bernadette)

*Electro Technology Awards*

Alexander Leung (Oakville Christian School)

Nick Weaver (Dr. John Seaton)

*Computer Science & Information Technology*

Colin O'Flynn (Westdale H.S.)

**Mohawk College Mathematics**

Gautam Kamath, Daniel Lultschik (Dalewood)

David Cocchiarella (St.Thomas More H.S.)

**National Science & Engineering Research Council (NSERC) Award**

1. Anne Marie Child (Dalewood)

2. Jasmine Dong, Julia Kochuk (Dalewood)

**Nelson Steel Award - Chemistry**

Irene Rebalka (Holy Spirit)

**Nelson Steel Award - Environmental Award**

Jordan Bowman (St. Mary's H.S.)

**Nelson Steel Award - Steel Award**

Evan Simpson-Hull (Appleby College)

**Nicola Simmons Award in Cognition Studies**

Kayla Cornale (Assumption H.S.)

**Ontario Association of Medical Laboratories (OAML) Award**

Patrick Martin (Bishop Ryan H.S.)  
Natalie Raso (St.Thomas More H.S.)

**Primary Fluid Systems Engineering Awards**

Dayna Walker (St. Mary's H.S.)  
Joseph Querques (Christ the King Secondary School)  
Sean Curtis (St.Thomas More H.S.)  
Spencer McTavish (Oakville Christian School)  
Nick Weaver (Dr. John Seaton)  
Ben Gulak, Mark Brejnik (Hillfield - Strathallan College)

**Primary Fluid Systems Physical Sciences Awards**

Ryan Perez (St.Thomas More H.S.)  
Peter MacCauley (Holy Spirit)  
Alexander Leung (Oakville Christian School)  
Chris Marco (St. Thomas)  
Diane Sivakumaran (St. Bernadette)  
Evan Simpson-Hull (Appleby College)

**Primary Fluid Systems Earth & Environment Awards**

Anne Marie Child (Dalewood)  
Patrick Martin (Bishop Ryan H.S.)  
Madeleine Martin (Bishop Ryan H.S.)  
Augustine Krawchenko (Holy Spirit)  
Irene Rebalka (Holy Spirit)  
Jordan Bowman (St. Mary's H.S.)

**Professional Engineers of Ontario (Hamilton Local Chapter) Awards**

1. Dayna Walker (St. Mary's H.S.)  
2. Anthony Chiarelli (St.Thomas More H.S.)  
3. Chris Zyluk (Oakville Christian School)

**Professional Engineers of Ontario (Oakville Chapter) Awards**

1. Jeffrey van Leeuwen, Brent Hill (Hillfield - Strathallan College)  
2. Alexis Butty (St. Bernadette)

**Procor Award - Senior**

Colin O'Flynn (Westdale H.S.)

**Procor Award - Intermediate Award**

Ben Gulak, Mark Brejnik (Hillfield - Strathallan College)

**Procor Award - Junior**

Nick Weaver (Dr. John Seaton)

**Ramanujan Mathematics Award**

Jason Magela (Aldershot H.S.)  
Dayna Walker (St. Mary's H.S.)  
Anne Marie Child (Dalewood)

**Royal Botanical Gardens Award**

Patrick Martin (Bishop Ryan H.S.)

**Safety Management Systems Software Awards**

Colin O'Flynn (Westdale H.S.)

Anthony Chiarelli (St.Thomas More H.S.)

**Science Teachers Association of Ontario Awards**

Justin Balsor, Marcel Galli (St. Mark)

Jonathan Harris (Appleby College)

**The Tinnerman Walnut Canada Corporation Award**

Andrew Jackman, Andrew Bello (Parkside H.S.)

**Zonta Club of Hamilton Award**

Dayna Walker (St. Mary's H.S.)

Anne Marie Child (Dalewood)

Alexis Butty (St. Bernadette)

**Merit Awards****Gold**

Colin O'Flynn (Westdale H.S.)

Dayna Walker (St. Mary's H.S.)

Natalie Raso (St.Thomas More H.S.)

Anthony Chiarelli (St.Thomas More H.S.)

Ryan Perez (St.Thomas More H.S.)

Joseph Querques (Christ the King Secondary School)

**Silver**

Alexander Leung (Oakville Christian School)

Spencer McTavish (Oakville Christian School)

Thomas Hobson (Appleby College)

Jonathan Harris (Appleby College)

Jonathan Flegg (Appleby College)

David Turner (Hillfield - Strathallan College)

Jamil Ladha (Hillfield - Strathallan College)

Nathan Pelech (Appleby College)

Charles Gagnon (Appleby College)

Lana Kovacevic (Sir Wilfrid Laurier)

Olja Zubic (Sir Wilfrid Laurier)

Kieffer Moxness (Appleby College)

Jasmine Dong (Dalewood)

Julia Kochuk (Dalewood)

Anne Marie Child (Dalewood)

Sean Curtis (St.Thomas More H.S.)

Chris Marco (St. Thomas)

Justin Balsor (St. Mark)

Marcel Galli (St. Mark)

Kathleen Dickson (St. Mark)

Chiara Genovese (St. Margaret Mary)

Jenna Wild (St. Augustine)

Torianne Ipema (St. Bernadette)

Amanda Rispoli (St. Agnes)

Brittany Horodecki (St. Agnes)

Julia Brucculieri (St. Agnes)

Brian Le (Dalewood)

Nicolas Querques (St. Joseph (Halton Hills))

John Spehar (St. Joseph (Halton Hills))

Andrew Darby (Sacred Heart of Jesus)

Marianne Querques (Christ the King Secondary School)  
Kayla Cornale (Assumption H.S.)  
Irene Rebalka (Holy Spirit)  
Augustine Krawchenko (Holy Spirit)  
Katarina Bassan (St. Matthew)  
Amanda Paul (St. Matthew)  
Natalie Fox (Eastview)  
Patrick Martin (Bishop Ryan H.S.)  
Jacob Downey (Holy Name of Jesus)

### **Bronze**

Ben Gulak (Hillfield - Strathallan College)  
Mark Brejnik (Hillfield - Strathallan College)  
Grace Siwik (Burlington Christian Academy)  
Carly Ching (Westview)  
Laura Welch (Westview)  
Abha Athale (Rotherglen School)  
Angela Girgis (Oakville Christian School)  
Todd Morrow (Oakville Christian School)  
Chris Zylik (Oakville Christian School)  
David Collins (Oakville Christian School)  
Mason Saunders (Oakville Christian School)  
Alexander Molloy (Hillfield - Strathallan College)  
Kiran Reddy (Hillfield - Strathallan College)  
George Foty (Oakville Christian School)  
Sarah Chauvin (Hillfield - Strathallan College)  
Stephanie Crosty (Hillfield - Strathallan College)  
Matthew Pawelke (Burlington Christian Academy)  
Cyrus Aga (Appleby College)  
Yashoda Singh (Appleby College)  
Devon Allaby (Appleby College)  
Eric Coomes (Appleby College)  
Patrick Aubrey (Appleby College)  
Maggie Szabo (Dundas District)  
Cameron Brown (Dundas District)  
Jennifer Singh (Templemead)  
Rachel Kotska (Templemead)  
Emilia Wilk (Waterdown H.S.)  
Alec Weis (Appleby College)  
Evan Simpson-Hull (Appleby College)  
Aaron Hakim (Appleby College)  
Lisa Freidland (Dundas District)  
Deelan Patel (Dundas District)  
Bronwyn Barlow Cash (Dalewood)  
Alethea Rockwell (Dalewood)  
Merryn Maynard (Dalewood)  
Sarah Eastwood (Dalewood)  
David Cocchiarella (St. Thomas More H.S.)  
Jordan Bowman (St. Mary's H.S.)  
Brittany Gurman (St. Paul)  
Alexandra Hul (St. Paul)  
Ashley Jambrosich (St. Paul)  
Erica Brown (St. Paul)  
Angela Chiarelli (St. Teresa of Avila)  
Estefan Mejia (St. Mark)

Margaret Kaczanowski (St. Mark)  
Natalie Michalski (St. Mark)  
Margaret Martin (St. John the Baptist)  
Olivia Virag (St. John the Baptist)  
Jordan Pietroniro (St. Joachim)  
Jessica Carducci (St. Joachim)  
Michael Chesla (St. Joachim)  
Patrick Reilly (St. Joachim)  
Rachel Mason (St. Jerome)  
Savannah Baronette (St. Jerome)  
Victor Raso (St. Jerome)  
Elizabeth Burns (St. Jerome)  
David Martynowicz (St. Jerome)  
George Aushana (St. Jerome)  
Marina Mancini (St. Jerome)  
Meghan D'Angelo (St. Jerome)  
Joe Sardo (St. Agnes)  
Chelsea White (St. Augustine)  
Sarah Macaluso (St. Augustine)  
Rebecca Kearon (St. Augustine)  
Rachel Welsh (St. Augustine)  
Alysha Socha (St. Augustine)  
Cassie Sauer (St. Bernadette)  
Vanessa Bonomo (St. Bernadette)  
Wes Gerrie (St. Bernadette)  
Alexis Butty (St. Bernadette)  
Diane Sivakumaran (St. Bernadette)  
Taryn Karl (St. Bernadette)  
Jennifer Vaughan (St. Bernadette)  
Lindsay Abbott (St. Bernadette)  
Pauline Nichol (St. Agnes)  
Nick Petrina (St. Agnes)  
Aaron Petrina (St. Agnes)  
Brittany Power (St. Agnes)  
Catherine Ferroni (St. Agnes)  
Santa Rabi (Our Lady of Lourdes)  
Andrew Jackman (Parkside H.S.)  
Andrew Bello (Parkside H.S.)  
Matt Carmichael (Sacred Heart of Jesus)  
Kevin Langlois (Sacred Heart of Jesus)  
Simon Baker (Dunnville Central)  
Tommy Hoang (Holy Name of Jesus)  
Steve Toms (Holy Name of Jesus)  
Brenda Camey (Holy Name of Jesus)  
Sandi Ferreira (Holy Name of Jesus)  
Joanna Kaleniecka (St. Matthew)  
Laura Cormier (St. Matthew)  
Heather McQueen (Aldershot H.S.)  
Sara Moffatt (Holy Name of Jesus)  
Ashley Zajackowski (Holy Name of Jesus)  
Nicole Morrison (St. Bernadette)  
Michelle Tracey (St. Bernadette)  
Sacha Forstner (Sacred Heart of Jesus)  
Brandon Chaffay (Sacred Heart of Jesus)  
Andrew Derayeh (Sacred Heart of Jesus)  
Daniel Szoke (Notre Dame)