

# 21st ANNUAL ROTARY SCIENCE FAIR AWARDS - 2008

## TOP AWARDS ("BEST OF FAIR")

**1. Rotary SSM Award of Excellence: First Entry to Canada-Wide Science Fair  
First Place - Best of Fair:**

"Electrical to Kinetic Energy Efficiency" by Angelo Posteraro (Korah Collegiate)

**2. Sci-Tech Ontario Stepping Stone Award: Second Entry to Canada-Wide Science Fair  
Second Place - Best of Fair:**

"Winging It - A Study of How Air Temperature Affects the Efficiency of Flight" by Mackenzie Cook (Korah Collegiate)

**3. Benjamin Cohen Family Memorial Trophy: \$100 Cash Award  
Third Place - Best of Fair:**

"Optical Illusions: Can You Grow Out of Them?" by Chloe Halpenny (St Mary's French Immersion)

First-place and second-place winners in Best of Fair travel to the Canada-wide national competition being held May 12-16 this year in Ottawa, Ontario. Third-place winner is usually the alternate, but because all three top projects are single-participant projects, all three students will be able to attend.

### **Honourable mentions of other projects considered for Best of Fair:**

"Mental vs. Physical" by Wil Bell & Sean McGonigal (Rosedale)

"Genetic Algorithms" by Eric Noland & Patrick Noland (Sir James Dunn)

## **Alfred Askin Shields (best school for participation and excellence in each division)**

1. Senior school (grades 11-12): Korah Collegiate
2. Intermediate school (grades 9-10): Sir James Dunn
3. Junior school (grades 7-8): Rosedale Public School

# DIVISIONAL AND SPECIAL AWARDS

## Don Wallace Memorial Awards

1. Best in Creativity and Innovation (\$50 cash):

"Electrical to Kinetic Energy Efficiency" by Angelo Posteraro (Korah Collegiate)

2. Best in Life Sciences (\$75 cash): *(Two Projects Tied)*

"Optical Illusions: Can You Grow Out of Them?" by Chloe Halpenny (St Mary's French Immersion)

"Mental vs. Physical" by Wil Bell & Sean McGonigal (Rosedale)

3. Best in Physical Sciences & Mathematics (\$75 cash):

"Electrical to Kinetic Energy Efficiency" by Angelo Posteraro (Korah Collegiate)

## Attilio Berdusco Memorial Award: Best in Health Sciences (\$75 cash):

"How Sweet Are You? The Effects of Food and Exercise on Blood Sugar" by Emily Aleksa (Grand View)

## CFS - Great Lakes Forestry Centre Award: Deserving of Recognition (\$75 cash):

"The Link Between Colours and Temperature" by George Simpson (Parkland)

## Gary Rahn Memorial Awards: Two Best Natural History Exhibits (\$50 cash each):

1. "Do Different Water Types Affect Plant Growth?" by Karl Zimmermann (Rosedale)

2. "Behavioural Response of an Invertebrate" by Sam Elliott & Ryan Pietrzakowski (Korah Collegiate)

## Ontario Association of Medical Laboratories Awards: Top Lab Sciences Projects:

1. Top Laboratory Sciences Project - Junior (\$100 cash):

"Crest Pro-Health vs. Listerine" by Rebecca Palmer & Danielle Brandow (Rosedale)

2. Top Laboratory Sciences Project - Senior (\$100 cash):

"Chewing Gum vs. Human Digestion" by Tierney Deluzio (Korah Collegiate)

## Hydro One Networks - Energy Ambassador Award (\$100 cash):

"Squeeze the Power Out of Tin" by Alexei Berg (St Mary's French Immersion)

## Ontario Power Generation Award: Best in Earth and Environmental Sciences (\$75 cash):

"Behavioural Response of an Invertebrate to an External Stimulus" by Aron Coccimiglio (Korah Collegiate)

**Algoma Steel Award: Best in Engineering and Computing Sciences (\$75 cash): (Two Projects Tied)**

"Winging It - A Study of How Air Temperature Affects the Efficiency of Flight" by Mackenzie Cook (Korah Collegiate)

"Genetic Algorithms" by Eric Noland & Patrick Noland (Sir James Dunn)

**University of Ontario Institute of Technology Awards:**

1. Most Innovative Development, Adaptation, or Use of Technology in Any Subject Area - Junior (\$100 cash):

"Perpetual Electric Motor" by Dalton Swire (Bawating Intermediate)

2. Most Innovative Development, Adaptation, or Use of Technology in Any Subject Area - Senior (\$100 cash):

"Genetic Algorithms" by Eric Noland & Patrick Noland (Sir James Dunn)

**Algoma Chapter of Professional Engineers Ontario Awards (New for 2008):**

1. Best Engineering Science Project (\$100 cash):

"Winging It - A Study of How Air Temperature Affects the Efficiency of Flight" by Mackenzie Cook (Korah Collegiate)

2. Best Project Improving Everyday Life or Potential for Improving Humanity (\$50 cash):

"Water Desalination by Solar Distillation" by Calvin Cull (Parkland)

3. Best Mathematical or Computer Science Project Related to Problem-Solving (\$50 cash):

"64-bit Computing vs. 32-bit Parallel Computing for Home Use, A Theoretical Look" by Bill Huang (Korah Collegiate)

**MDS Laboratory Services Award: Best Project in Category of Human Health (\$71 cash):**

"The Effect of Protein Supplements on Muscle Growth" by James Killoran (Korah Collegiate)

*(Odd prize value of SEVENTY-ONE dollars is correct)*

**Professional Institute of Public Servants Award: Best in Biotechnology (\$75 cash):**

"Vegetables, We Solute You" by Ryan LaRue & Connor Flood & Kyle Genoe (Anna McCrea)

**Ontario Ministry of the Environment Award (\$100 cash):**

"Squeeze the Power Out of Tin" by Alexei Berg (St Mary's French Immersion)

**University of Ottawa Scholarship: Best Senior Project (\$1000 Scholarship):**

"Electrical to Kinetic Energy Efficiency" by Angelo Posteraro (Korah Collegiate)

# AWARDS WITHIN CATEGORIES...

## BIOTECHNOLOGY

Best of Category - Overall

"Vegetables, We Solute You" by Ryan LaRue & Connor Flood & Kyle Genoe (Anna McCrea)

Biotechnology - Senior

(There were no senior entries this year)

Biotechnology - Junior

1st - "Vegetables, We Solute You" by Ryan LaRue & Connor Flood & Kyle Genoe (Anna McCrea)

2nd - "Food 4 Fuel" by Katelyn McPhee & Taylor Jaehrling (Parkland)

3rd - "Bacteria Wars" by Cameron Aitken (Parkland)

## HEALTH SCIENCES

Best of Category - Overall

"How Sweet Are You? The Effects of Food and Exercise on Blood Sugar" by Emily Aleksa (Grand View)

Health Sciences - Senior

1st - "The Effect of Protein Supplements on Muscle Growth" by James Killoran (Korah Collegiate)

2nd - "The Effects of Sleep Deprivation and Caffeinated Beverages on Cognitive Functioning" by Alexa Smith & Greg McAllister (Korah Collegiate)

3rd - "Hand Sanitizers - Effective or Not?" by Gillian Nearing (Korah Collegiate)

Health Sciences - Intermediate

1st - "How Fears Change With Age" by Reyanna Sangestino & Holly Predinchuk (Sir James Dunn)

Health Sciences - Junior

1st - "How Sweet Are You? The Effects of Food and Exercise on Blood Sugar" by Emily Aleksa (Grand View)

2nd - "Crest Pro-Health vs. Listerine" by Rebecca Palmer & Danielle Brandow (Rosedale)

3rd - "Caffeinated Typing" by Ross Aitken & Andrew Aitken (Parkland)

## **EARTH AND ENVIRONMENTAL SCIENCES**

Best of Category - Overall

"Behavioural Response of an Invertebrate to an External Stimulus" by Aron Coccimiglio (Korah Collegiate)

Earth and Environmental Sciences - Senior

1st - "Behavioural Response of an Invertebrate to an External Stimulus" by Aron Coccimiglio (Korah Collegiate)

2nd - "The Invisible Killer - Carbon Monoxide and Automobiles" by Tori Prouse & Lindsay Millar (Korah Collegiate)

3rd - "Water Efficiency of Showerheads" by Katie Callaghan & Scott Hopkin (Korah Collegiate)

Earth and Environmental Sciences - Junior

1st - "Do Different Water Types Affect Plant Growth?" by Karl Zimmermann (Rosedale)

2nd - "Squeeze the Power Out of Tin" by Alexei Berg (St Mary's French Immersion)

3rd - "What Are You Breathing?" by Max Carter & Brad Carter (Rosedale)

## **ENGINEERING AND COMPUTING SCIENCES**

Best of Category - Overall (*two projects tied*)

"Winging It - A Study of How Air Temperature Affects the Efficiency of Flight" by Mackenzie Cook (Korah Collegiate)

*and*

"Genetic Algorithms" by Eric Noland & Patrick Noland (Sir James Dunn)

Engineering & Computing Sciences - Senior (*two projects tied for first place*)

1st - "Winging It - A Study of How Air Temperature Affects the Efficiency of Flight" by Mackenzie Cook (Korah Collegiate)

1st - "Genetic Algorithms" by Eric Noland & Patrick Noland (Sir James Dunn)

3rd - "64-bit Computing vs. 32-bit Parallel Computing for Home Use, A Theoretical Look" by Bill Huang (Korah Collegiate)

Engineering & Computing Sciences - Junior

1st - "Perpetual Electric Motor" by Dalton Swire (Bawating Intermediate)

2nd - "Hydro-Electric Generator " by Bradley Nickle (Parkland)

3rd - "Robotics" by Neil Hall (Grand View)

## **LIFE SCIENCES**

Best of Category - Overall (*two projects tied*)

"Optical Illusions: Can You Grow Out of Them?" by Chloe Halpenny (St Mary's French Immersion)  
*and*

"Mental vs. Physical" by Wil Bell & Sean McGonigal (Rosedale)

Life Sciences - Senior

1st - "Chewing Gum vs. Human Digestion" by Tierney Deluzio (Korah Collegiate)

2nd - "Behavioural Response of an Invertebrate" by Sam Elliott & Ryan Pietrzakowski (Korah Collegiate)

3rd - "The Sensory Perception of Planaria" by Kristen Cupido & Stephanie Graham (Korah Collegiate)

Life Sciences - Junior (two projects tied for first place)

1st - "Optical Illusions: Can You Grow Out of Them?" by Chloe Halpenny (St Mary's French Immersion)

1st - "Mental vs. Physical" by Wil Bell & Sean McGonigal (Rosedale)

3rd - "Does Practice Really Make Perfect?" by Marissa Lobert & Amelia Marrato (Rosedale)

## **PHYSICAL AND MATHEMATICAL SCIENCES**

Best of Category - Overall

"Electrical to Kinetic Energy Efficiency" by Angelo Posteraro (Korah Collegiate)

Physical & Mathematical Sciences - Senior

1st - "Electrical to Kinetic Energy Efficiency" by Angelo Posteraro (Korah Collegiate)

2nd - "Sweet Concrete" by Dan Elliott & Xaver Kargl (Korah Collegiate)

3rd - "The Effectiveness of Antifreeze in Preventing Corrosion" by Brad Fewchuk & Sean Dawson (Korah Collegiate)

Physical & Mathematical Sciences - Junior

1st - "Will It Break Or Knot?" by Mark Hibbard & Katie Elliott (Parkland)

2nd - "Does the Temperature of a Tennis Ball Affect Its Speed?" by Tim Berkenbosch & Brandon Shames (Rosedale)

3rd - "Are We Being Taken To The Cleaners?" by Michael Dal Cin (Anna McCrea)

## 2008 Rotary Science Fair Statistics

121 Projects Total: 96 Junior (Grades 7-8), 1 Intermediate (Grades 9-10), 24 Senior (Grades 11-12)  
181 Students  
32 Judges (local scientists and technical professionals)

### **Quirky Little Factoid:**

This science fair had a project entered by a pair of twins and two projects entered by a set of triplets -- and all three projects were winners!

Hilda Odom,  
SSM Rotary Chairperson