

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### EnCana Best in Fair Award

Sponsor: EnCana Corporation  
Award, \$10,000 cash

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**Gary Kurek** [17] – Edmonton AB  
*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

#### EnCana Platinum Award - Best Senior Project

Sponsor: EnCana Corporation  
Award, \$5000 cash

---

**Gary Kurek** [17] – Edmonton AB  
*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

#### EnCana Platinum Award - Best Intermediate Project

Sponsor: EnCana Corporation  
Award, \$5000 cash

---

**Camille Salvat** [16], **Estelle Simon** [15] – Montérégie QC  
*L'uni«ver» est au cheval !*

---

#### EnCana Platinum Award - Best Junior Project

Sponsor: EnCana Corporation  
Award, \$5000 cash

---

**Melissa Chopcian** [12] – Lambton County ON  
*CPR Training Simulator - Improved for Kids*

---

#### Gold Medal - Physical & Mathematical Sciences

##### Junior

Sponsor: EnCana Corporation  
Medal, \$1500 cash & certificate

---

**Jenna Schlorff** [13] – Bluewater ON  
*Crushed!*

---

#### Gold Medal - Physical & Mathematical Sciences

##### Intermediate

Sponsor: EnCana Corporation  
Medal, \$1500 cash & certificate

---

**Chadi Saad-Roy** [14] – Vancouver Island BC  
*Le Néodyme: utile dans le transport?*

---

#### Gold Medal - Physical & Mathematical Sciences

##### Senior

Sponsor: EnCana Corporation  
Medal, \$1500 cash & certificate

---

**Tegan Wiebe** [17] – North Channel ON  
*It's Time to Make a "Radon" the Basements*

---

#### Gold Medal - Life Sciences

##### Junior

Sponsor: Pfizer Canada  
Medal, \$1500 cash & certificate

---

**Emmanuelle Bérubé** [12] – Quinte ON  
*Do You Eat the Red Ones Last ?*

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#### Gold Medal - Life Sciences

##### Intermediate

Sponsor: Pfizer Canada  
Medal, \$1500 cash & certificate

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**Rebecca Sandrelli** [14] – Renfrew County ON  
*Bugs on Drugs Phase II*

---

#### Gold Medal - Life Sciences

##### Senior

Sponsor: Pfizer Canada  
Medal, \$1500 cash & certificate

---

**Mike Bao** [18], **Allan Kang** [16] – Edmonton AB  
*MMM: Manoeuvring Metastatic Melanoma*

---

#### Gold Medal - Health Sciences

##### Junior

Sponsor: Canadian Institutes of Health Research  
Medal, \$1500 cash & certificate

---

**Chris Schoepp** [14] – Fraser Valley BC  
*You Can't Hear That?!*

---

#### Gold Medal - Health Sciences

##### Intermediate

Sponsor: Canadian Institutes of Health Research  
Medal, \$1500 cash & certificate

---

**Perri Tutelman** [15] – Greater Vancouver BC  
*Cancer-Killing Combinations*

---

#### Gold Medal - Health Sciences

##### Senior

Sponsor: Canadian Institutes of Health Research  
Medal, \$1500 cash & certificate

---

**Tony Kwon** [16] – London District ON  
*Garlic-Induced Gene Expression Changes in Streptococcus pyogenes Predict a*

---

#### Gold Medal - Environmental Innovation

##### Junior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$1500 cash, \$10,000 scholarship & certificate

---

**Dheevesh Arulmani** [13] – Peel ON  
*Bio-Inspired Photonic Fuel Cell*

---

#### Gold Medal - Environmental Innovation

##### Intermediate

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$1500 cash, \$10,000 scholarship & certificate

---

**Megan Schlorff** [16] – Bluewater ON  
*Down the Drain, Only to Resurface Again*

---

#### Gold Medal - Environmental Innovation

##### Senior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$1500 cash, \$10,000 scholarship & certificate

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**Victor Kloeze** [18] – Avon Maitland-Huron Perth ON  
*Goderich Sustainable Home*

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#### Gold Medal - Engineering

##### Junior

Sponsor: Youth Science Canada  
Medal, \$1500 cash & certificate

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**Melissa Chopcian** [12] – Lambton County ON  
*CPR Training Simulator - Improved for Kids*

---

#### Gold Medal - Engineering

##### Intermediate

Sponsor: Youth Science Canada  
Medal, \$1500 cash & certificate

---

**Brian Larson** [14] – Alberta Central East AB  
*SafeD Pet Solutions*

---

#### Gold Medal - Engineering

##### Senior

Sponsor: Youth Science Canada  
Medal, \$1500 cash & certificate

---

**Gary Kurek** [17] – Edmonton AB  
*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

#### Gold Medal - Earth & Environmental Sciences

##### Junior

Sponsor: Petro-Canada  
Medal, \$1500 cash & certificate

---

**Matthew Podolak** [12] – Simcoe County ON  
*Algae Goes Green*

---

#### Gold Medal - Earth & Environmental Sciences

##### Intermediate

Sponsor: Petro-Canada  
Medal, \$1500 cash & certificate

---

**Megan Schlorff** [16] – Bluewater ON  
*Down the Drain, Only to Resurface Again*

---

#### Gold Medal - Earth & Environmental Sciences

##### Senior

Sponsor: Petro-Canada  
Medal, \$1500 cash & certificate

---

**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

---

#### Gold Medal - Computing & Information Technology

##### Junior

Sponsor: Intel of Canada  
Medal, \$1500 cash & certificate

---

**Katherine Leach-Russo** [13] – Avon Maitland-Huron Perth ON  
*ProjectWiseWord*

---

#### Gold Medal - Computing & Information Technology

##### Intermediate

Sponsor: Intel of Canada  
Medal, \$1500 cash & certificate

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**Arash Marzi** [15] – Strait NS  
*A Bee Inspired Multi-Objective Optimization Algorithm For A Greener Tomorrow*

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## Canada-Wide Science Fair 2009

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#### Gold Medal - Computing & Information Technology

##### Senior

Sponsor: Intel of Canada  
Medal, \$1500 cash & certificate

---

**Bryan Hatton [16], Eddie Kim [16]** – Waterloo-Wellington ON  
*Watching Evolution*

---

#### Gold Medal - Biotechnology & Pharmaceutical Sciences

##### Junior

Sponsor: Youth Science Canada  
Medal, \$1500 cash & certificate

---

**Megan Howse [13]** – Eastern Newfoundland NL  
*SpongeBob's Nemesis Plankton: Evil Genius or Omega-3 Super-producer?*

---

#### Gold Medal - Biotechnology & Pharmaceutical Sciences

##### Intermediate

Sponsor: Youth Science Canada  
Medal, \$1500 cash & certificate

---

**Camille Salvat [16], Estelle Simon [15]** – Montérégie QC  
*L'uni«ver» est au cheval !*

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#### Gold Medal - Biotechnology & Pharmaceutical Sciences

##### Senior

Sponsor: Youth Science Canada  
Medal, \$1500 cash & certificate

---

**Steven Zhu [17]** – Greater Vancouver BC  
*Fabulous Fiddleheads*

---

#### Gold Medal - Automotive

##### Junior

Sponsor: AUTO21  
Medal, \$1500 cash & certificate

---

**David Lister [14]** – Yukon/Stikine YT  
*Electricity From The Waste Heat of An Engine*

---

#### Gold Medal - Automotive

##### Intermediate

Sponsor: AUTO21  
Medal, \$1500 cash & certificate

---

**Aaliya Waja [14], Shelby Wallace [15]** – North Bay ON  
*Hands on the Wheel*

---

#### Gold Medal - Automotive

##### Senior

Sponsor: AUTO21  
Medal, \$1500 cash & certificate

---

**Sébastien Chénier [17]** – Outaouais QC  
*Le moteur de Dame Nature*

---

#### Silver Medal - Physical & Mathematical Sciences

##### Junior

Sponsor: EnCana Corporation  
Medal, \$700 cash & certificate

---

**Lauren Reid [13]** – Durham ON  
*Innovative, Trailing Edge Winglet: Bent. Broken. Better!*

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**Connor Sanders [13], Spencer Young [12]** – Sudbury ON  
*Material Matters*

---

#### Silver Medal - Physical & Mathematical Sciences

##### Intermediate

Sponsor: EnCana Corporation  
Medal, \$700 cash & certificate

---

**Oliver Jourmel [14]** – Vancouver Island BC  
*Soil Amending Properties of Charcoal*

---

**Ragnar Robinson [16]** – Northern Saskatchewan SK  
*Properties of Wood Phase Two*

---

#### Silver Medal - Physical & Mathematical Sciences

##### Senior

Sponsor: EnCana Corporation  
Medal, \$700 cash & certificate

---

**Erin Baker [17]** – Eastern Newfoundland NL  
*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*

---

**Alyssa Moss [17]** – Cape Breton NS  
*Winds of Change*

---

#### Silver Medal - Life Sciences

##### Junior

Sponsor: Pfizer Canada  
Medal, \$700 cash & certificate

---

**Jonathan Dawson [12], Alan Stanek [13]** – Toronto ON  
*Sound Analysis and Comparison of Sound made by Mammals, Birds, Amphibians and*

---

**Shubham Talwar [14]** – Lethbridge AB  
*Hyper Heartbeat: The Effect of pH levels on Micro-organisms*

---

#### Silver Medal - Life Sciences

##### Intermediate

Sponsor: Pfizer Canada  
Medal, \$700 cash & certificate

---

**Alexandre Lemieux [16]** – Québec et Chaudière-Appalaches QC  
*Le fromage, un écosystème !*

---

**Ashley Anderson [13], Forrest Tower [14]** – Central Interior British Columbia BC  
*Predicting Aggression Using Multiple Regression*

---

#### Silver Medal - Life Sciences

##### Senior

Sponsor: Pfizer Canada  
Medal, \$700 cash & certificate

---

**Roland Troke-Barriault [16]** – Conseil scolaire acadien provincial (CSAP) NS  
*Le bonheur du bruit: Quelles fréquences pour la croissance*

---

**Sarah Langer [17]** – Peterborough ON  
*A Model for Human Decomposition in Fresh Water and Salt Water*

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### Winnipeg, Manitoba



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#### Silver Medal - Health Sciences

##### Junior

Sponsor: Canadian Institutes of Health Research  
Medal, \$700 cash & certificate

---

**Adelina Corina Cozma** [13] – York ON  
*Growing Up Emotionally Smart*

---

**Danielle Shwed** [13] – Simcoe County ON  
*Eye Spy Too: Exploring Peripheral Vision*

---

#### Silver Medal - Health Sciences

##### Intermediate

Sponsor: Canadian Institutes of Health Research  
Medal, \$700 cash & certificate

---

**Emily Ross** [15] – Prince Edward Island PE  
*Remember to Think....Think to Remember: Preventing Alzheimers*

---

**Jieqing Xu** [13] – Greater Vancouver BC  
*Roots and Caterpillars vs Liver Cancer*

---

#### Silver Medal - Health Sciences

##### Senior

Sponsor: Canadian Institutes of Health Research  
Medal, \$700 cash & certificate

---

**Sapna Shah** [17] – York ON  
*Potential Use of Microencapsulated Live Yeast Cells in Treating Kidney Failure*

---

**Caitlin Martin Newnham** [18] – London District ON  
*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

---

#### Silver Medal - Environmental Innovation

##### Junior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$700 cash & certificate

---

**Alison Underwood** [12] – Avon Maitland-Huron Perth ON  
*Watch Your Step*

---

**Kimberley Beech** [14] – Peel ON  
*The Water Hornwort*

---

#### Silver Medal - Environmental Innovation

##### Intermediate

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$700 cash & certificate

---

**Laurissa Christie** [15] – Bluewater ON  
*What's the Buzz Now?*

---

**Sarah Dalziel** [15] – West Kootenay & Boundary BC  
*The Woad to a sustainable blue. Phase 3*

---

#### Silver Medal - Environmental Innovation

##### Senior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$700 cash & certificate

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**Eden Full** [17] – Calgary Youth AB  
*Dynamic Photovoltaics - The Sustainable SolArray*

# Award Recipients

## Canada-Wide Science Fair 2009

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**Jean-Olivier Lambert** [18] – Timmins ON  
*MagnaVert*

---

#### Silver Medal - Engineering

##### Junior

Sponsor: Youth Science Canada  
Medal, \$700 cash & certificate

---

**Arik Milner** [13] – Greater Vancouver BC  
*eMission Impossible: Detecting Pollution with Laser Light*

---

**David Lister** [14] – Yukon/Stikine YT  
*Electricity From The Waste Heat of An Engine*

---

#### Silver Medal - Engineering

##### Intermediate

Sponsor: Youth Science Canada  
Medal, \$700 cash & certificate

---

**Timothy Carlielle-Shaw** [14] – Central Alberta AB  
*Annular Wings vs Straight Wings*

---

**Justin Li** [14], **Sandro Young** [15] – Ottawa ON  
*Wireless Power II: Characterizing Magnetically Coupled Fields*

---

#### Silver Medal - Engineering

##### Senior

Sponsor: Youth Science Canada  
Medal, \$700 cash & certificate

---

**Ryan Peng** [17] – Saskatoon SK  
*High Speed Flash Exposure with Compact Digital Cameras*

---

**Jordan Brears** [18], **David Skibinsky** [18] – Regina SK  
*Stirling Engine: Thinking Outside the Gas Pump*

---

#### Silver Medal - Earth & Environmental Sciences

##### Junior

Sponsor: Petro-Canada  
Medal, \$700 cash & certificate

---

**Jordan Ho** [12] – Toronto ON  
*More Solar Power*

---

**Charlie Sobcov** [13] – Ottawa ON  
*Saving the Birds, One Window at a Time*

---

#### Silver Medal - Earth & Environmental Sciences

##### Intermediate

Sponsor: Petro-Canada  
Medal, \$700 cash & certificate

---

**Stephanie Gaglione** [14] – Toronto ON  
*Disappearing Oil: Enhanced Bioremediation of Oil-Contaminated Soil in Bioreactors*

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**Victoria-Marie Cusson** [15] – Ottawa ON  
*La transformation écologique des déchets ménagers organiques en bioéthanol*

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**Mary Zhao** [17] – Greater Vancouver BC  
*Grasping Water*

---

**Jean-Olivier Lambert** [18] – Timmins ON  
*MagnaVert*

---

#### Silver Medal - Computing & Information Technology

##### Junior

Sponsor: Intel of Canada

Medal, \$700 cash & certificate

---

**Patrick Kotelko** [13] – St. James-Assiniboia MB  
*Logic Gates and the K'nex Computer*

---

#### Silver Medal - Computing & Information Technology

##### Intermediate

Sponsor: Intel of Canada

Medal, \$700 cash & certificate

---

**Abigail McLagan** [13] – Rideau-St. Lawrence ON  
*Artificial WHAT?!*

---

**Collin Fair** [14] – Central Alberta AB  
*WireSim*

---

#### Silver Medal - Computing & Information Technology

##### Senior

Sponsor: Intel of Canada

Medal, \$700 cash & certificate

---

**Rami Sayar** [18] – Montreal QC  
*Touchless Computing*

---

**Jason Lin** [17], **Manuel Ung** [17] – Greater Vancouver BC  
*A Different Look at Perceptrons*

---

#### Silver Medal - Biotechnology & Pharmaceutical Sciences

##### Junior

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

---

**Charice Chan** [13], **Douglas Lam** [13] – Edmonton AB  
*One Two Freeze Thaw*

---

**Ryan Séguin** [13] – Timmins ON  
*Éco-Conserve*

---

#### Silver Medal - Biotechnology & Pharmaceutical Sciences

##### Intermediate

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

---

**Réda Bensaidane** [16] – Québec et Chaudière-Appalaches QC  
*Irrésistibles, les phages ?*

---

**Sarah Dalziel** [15] – West Kootenay & Boundary BC  
*The Woad to a sustainable blue. Phase 3*



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#### Silver Medal - Biotechnology & Pharmaceutical Sciences

##### Senior

Sponsor: Youth Science Canada

Medal, \$700 cash & certificate

---

**Alexandre Allard** [17], **Danny Luong** [18] – Québec et Chaudière-Appalaches QC  
*Le caoutchouc au bon goût*

---

**Forson Chan** [18] – Greater Vancouver BC  
*Suramin, Congo Red, and Antibiotic Resistance*

---

#### Silver Medal - Automotive

##### Junior

Sponsor: AUTO21

Medal, \$700 cash & certificate

---

**Jenna Schlorff** [13] – Bluewater ON  
*Crushed!*

---

**Claire Longcroft** [13] – Greater Vancouver BC  
*Driven to Distraction - The Effect of Talking and Texting on*

---

#### Silver Medal - Automotive

##### Intermediate

Sponsor: AUTO21

Medal, \$700 cash & certificate

---

**Brian Larson** [14] – Alberta Central East AB  
*SafeD Pet Solutions*

---

**Stephanie Chan** [15] – Waterloo-Wellington ON  
*Power Your Car - From Your Dinner Table*

---

#### Silver Medal - Automotive

##### Senior

Sponsor: AUTO21

Medal, \$700 cash & certificate

---

**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

---

**Adam Bennett** [16] – Rideau-St. Lawrence ON  
*Using Genetic Algorithms to Solve the Traveling Salesman Problem*

---

#### Bronze Medal - Physical & Mathematical Sciences

##### Junior

Sponsor: EnCana Corporation

Medal, \$300 cash & certificate

---

**Meagan Fabel** [13] – Windsor ON  
*Catch the Solar Wave to Save*

---

**Brandon Wisniewski** [13] – Simcoe County ON  
*Microburst Spoiler*

---

**Emily Agar** [13], **Sylvie Bronsard** [13] – Bay Area ON  
*Which Way is North?*

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## Canada-Wide Science Fair 2009

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#### Bronze Medal - Physical & Mathematical Sciences

##### Intermediate

Sponsor: EnCana Corporation  
Medal, \$300 cash & certificate

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**Madison Dobrovolskis [14], Hannah Morris-Patterson [14]** – Bay Area ON  
*Even Cleaner Even Greener*

---

**Vaibhavi Solanki [14]** – Bluewater ON  
*Magic Math*

---

**Daniel O'Neil [16]** – United Counties ON  
*Mission Adhésion*

---

#### Bronze Medal - Physical & Mathematical Sciences

##### Senior

Sponsor: EnCana Corporation  
Medal, \$300 cash & certificate

---

**David Bagwell [16]** – Northern Saskatchewan SK  
*Fight Fire With Sound?*

---

**Peter O'Rielly [18], Hilary Walsh [17]** – Central Newfoundland NL  
*Shhhhhhhh - 3 (Into the Blue)*

---

#### Bronze Medal - Life Sciences

##### Junior

Sponsor: Pfizer Canada  
Medal, \$300 cash & certificate

---

**Arathi Unnikrishnan [13]** – Edmonton AB  
*The Effects of Gender Identity on Short-Term Memory*

---

**Blake Grootenboer [14]** – Northwestern Ontario ON  
*What Makes Calves Grow*

---

**Victoria Jacklyn Evans [14], Brittany Patricia Reeves [13]** – Victoria County ON  
*The Effects of Red Bull on a Daphnia's Heart Rate*

---

#### Bronze Medal - Life Sciences

##### Intermediate

Sponsor: Pfizer Canada  
Medal, \$300 cash & certificate

---

**Wil Francolini [15]** – London District ON  
*Scratch-Off Cards: Are You Being Manipulated to Lose?*

---

**Taylor Lidster [14]** – Chatham-Kent ON  
*Thérapie de Choc*

---

**Yohan Lefol [14]** – Fransaskoise SK  
*La marche des Arthropodes*

---

#### Bronze Medal - Life Sciences

##### Senior

Sponsor: Pfizer Canada  
Medal, \$300 cash & certificate

---

**Nicholas Randall [16]** – Central Okanagan BC  
*Yogurt Trek: The Search for Probiotics*

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**Lauren Arena [16], Melissa Cammuso [16]** – Montreal QC  
*Insulin of the Future*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Jennifer Smith** [17] – Central Alberta AB  
*Chimera: Genetic Anomaly*

---

#### Bronze Medal - Health Sciences

##### Junior

Sponsor: Canadian Institutes of Health Research  
Medal, \$300 cash & certificate

---

**Claire Longcroft** [13] – Greater Vancouver BC  
*Driven to Distraction - The Effect of Talking and Texting on*

---

**Josie Mielhausen** [14] – Bluewater ON  
*You are What You Eat*

---

**Jory Smalenberg** [14] – Fraser Valley BC  
*Do You Know What You're Touching?*

---

#### Bronze Medal - Health Sciences

##### Intermediate

Sponsor: Canadian Institutes of Health Research  
Medal, \$300 cash & certificate

---

**Aaliya Waja** [14], **Shelby Wallace** [15] – North Bay ON  
*Hands on the Wheel*

---

**Brian Krug** [16] – Waterloo-Wellington ON  
*Herbal Products May Alter Drug Metabolism*

---

**Gabriel Smith** [14] – Halifax NS  
*What Kind of Mind do You Have?*

---

#### Bronze Medal - Health Sciences

##### Senior

Sponsor: Canadian Institutes of Health Research  
Medal, \$300 cash & certificate

---

**Juliet Daet** [17] – Manitoba Schools Science Symposium MB  
*Inhibition of Cell Growth by Polyamine Analogues in Breast Cancer*

---

**Jeffrey Ma** [18], **Eric Szeto** [17] – Greater Vancouver BC  
*Evaluation of Mangosteen Fruits and Extracts by HPLC and in Prostate Cancer Cell*

---

**Linda Liu** [18] – Greater Vancouver BC  
*Rhubarb to the Rescue!*

---

#### Bronze Medal - Environmental Innovation

##### Junior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$300 cash & certificate

---

**Robin White** [14] – Vancouver Island BC  
*Warm and Fuzzy; no More Scuzzy: Effective Small Scale Motor Oil Spill Cleanup*

---

**Jordan Ho** [12] – Toronto ON  
*More Solar Power*

---

**Shakti Ramkumar** [12] – South Fraser BC  
*Ecological Footprint - The Most Important Accounting Tool For The Planet?*

---

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#### Bronze Medal - Environmental Innovation

##### Intermediate

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Medal, \$300 cash & certificate

---

**Rebecca Sandrelli** [14] – Renfrew County ON  
*Bugs on Drugs Phase II*

---

**Kelcie Miller-Anderson** [14], **Maria Shtil** [14] – Calgary Youth AB  
*The Sweeter, The Cleaner - Stevia*

---

**Brent Murphy** [14] – Manitoba Schools Science Symposium MB  
*What is the effect of garlic when used as a biological seed treatment?*

---

#### Bronze Medal - Environmental Innovation

##### Senior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
Medal, \$300 cash & certificate

---

**Hillary Dawkins** [16], **Susie Pan** [16] – Waterloo-Wellington ON  
*Extending the Operational Lifespan of Dye Sensitized Solar Cells*

---

**Elise Tessier** [17] – Conseil scolaire acadien provincial (CSAP) NS  
*Ne vous stressez pas*

---

**Olivia Geen** [17] – Quinte ON  
*Comparing Silica Gel & Newspaper to Vermiculite as Environmental Soil Additives*

---

#### Bronze Medal - Engineering

##### Junior

Sponsor: Youth Science Canada  
Medal, \$300 cash & certificate

---

**Nick Hayden** [12] – Yukon/Stikine YT  
*Aerodynamics of Transport Trucks*

---

**Adrienne Kay Morgan** [14] – Frontenac, Lennox & Addington ON  
*Just Add Water*

---

**Justin Halldorson** [14] – Parkland SK  
*Extenda-Spray*

---

#### Bronze Medal - Engineering

##### Intermediate

Sponsor: Youth Science Canada  
Medal, \$300 cash & certificate

---

**Sophia Coulter English** [16], **Gillian Walczak** [15] – Bay Area ON  
*We're Still Not Plastic Bags: Perfecting the Perfect Plastic*

---

**François-Guillaume Landry** [15] – Chaleur NB  
*Une antenne relais qui rassure!*

---

**Nicholas Lynch** [14] – Chignecto Central West NS  
*Pool Protection System*

---

#### Bronze Medal - Engineering

##### Senior

Sponsor: Youth Science Canada  
Medal, \$300 cash & certificate

---

**Sébastien Chénier** [17] – Outaouais QC  
*Le moteur de Dame Nature*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Eden Full** [17] – Calgary Youth AB  
*Dynamic Photovoltaics - The Sustainable SolArray*

---

**Jiun Yiing Hu** [15], **Rosie Zhang** [16] – Toronto ON  
*Digital Traffic Signal Recognition System: Saving Lives*

---

#### Bronze Medal - Earth & Environmental Sciences

##### Junior

Sponsor: Petro-Canada  
Medal, \$300 cash & certificate

---

**Arctica Cunningham** [13] – Pacific Northwest BC  
*Scraps for Laps*

---

**Shakti Ramkumar** [12] – South Fraser BC  
*Ecological Footprint - The Most Important Accounting Tool For The Planet?*

---

**Dylan Kassian** [12] – Northern British Columbia BC  
*Weather or Not.....Site C-O2*

---

#### Bronze Medal - Earth & Environmental Sciences

##### Intermediate

Sponsor: Petro-Canada  
Medal, \$300 cash & certificate

---

**Shannon Ball** [14] – Manitoba Schools Science Symposium MB  
*It's "In" Lightning*

---

**Laurissa Christie** [15] – Bluewater ON  
*What's the Buzz Now?*

---

**Llew Falla** [16] – Lambton County ON  
*Phase Inversion of Aqueous Ethylene Copolymers For Water Remediation*

---

#### Bronze Medal - Earth & Environmental Sciences

##### Senior

Sponsor: Petro-Canada  
Medal, \$300 cash & certificate

---

**Amanda Annett** [17] – Edmonton AB  
*A River Runs Through It - Phase IV*

---

**Olivia Geen** [17] – Quinte ON  
*Comparing Silica Gel & Newspaper to Vermiculite as Environmental Soil Additives*

---

**Kimberly Gulevich** [16] – Northern British Columbia BC  
*Got Gas?*

---

#### Bronze Medal - Computing & Information Technology

##### Junior

Sponsor: Intel of Canada  
Medal, \$300 cash & certificate

---

**Alex Ianta** [12] – Chignecto East NS  
*AIML Robots*

---

#### Bronze Medal - Computing & Information Technology

##### Intermediate

Sponsor: Intel of Canada  
Medal, \$300 cash & certificate

---

**Olivier Brochu-Dufour** [16], **Arielle Grondin** [16] – Montérégie QC  
*Table tactile*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

#### Bronze Medal - Computing & Information Technology

##### Senior

Sponsor: Intel of Canada

Medal, \$300 cash & certificate

---

**Émile Daneault** [19] – Montréal CLS QC

*Pratique musicale et infrarouge*

---

**Mathieu Aucoin** [18] – Chaleur NB

*Un ordinateur gelé mais rapide*

---

**Greg Koestler** [17], **Clay Schroeder** [17] – Windsor ON

*Mario from Scratch*

---

#### Bronze Medal - Biotechnology & Pharmaceutical Sciences

##### Junior

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Howard Feng** [13] – Peel ON

*I Scream for Ice Cream But...*

---

**Sarah Hyslop** [13] – Calgary Youth AB

*Horseshoe Crabs- Beneficial Blue Bloods*

---

**Julia Starko** [12] – Western Manitoba MB

*Let The Sun Shine*

---

#### Bronze Medal - Biotechnology & Pharmaceutical Sciences

##### Intermediate

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Madalyn Light** [14], **Emma Walker** [14] – Central Okanagan BC

*UV Radiation-Free, Naturally*

---

**Stephanie Chan** [15] – Waterloo-Wellington ON

*Power Your Car - From Your Dinner Table*

---

**Alyson Bell** [15] – Peterborough ON

*A Tale My Grandfather Told Me*

---

#### Bronze Medal - Biotechnology & Pharmaceutical Sciences

##### Senior

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Imanne El Maâchi** [17] – Montréal CLS QC

*L'attaque juteuse*

---

**Binudith Warna** [16] – Manitoba Schools Science Symposium MB

*Analysis of PL reductase and level of secoisolariciresinol diglucoside in flax*

---

**Leah Natalie Rosetti** [17] – Niagara ON

*Designing a Novel SAM Mimic as an Inhibitor of AHL Synthase*

---

#### Bronze Medal - Automotive

##### Junior

Sponsor: AUTO21

Medal, \$300 cash & certificate

---

**Danielle Shwed** [13] – Simcoe County ON

*Eye Spy Too: Exploring Peripheral Vision*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Nick Hayden** [12] – Yukon/Stikine YT  
*Aerodynamics of Transport Trucks*

---

**Cameron Hayley** [12] – Chinook Country AB  
*Max Downforce*

---

#### Bronze Medal - Automotive

##### Intermediate

Sponsor: AUTO21  
Medal, \$300 cash & certificate

---

**Timothy Carlielle-Shaw** [14] – Central Alberta AB  
*Annular Wings vs Straight Wings*

---

**Christopher Allen** [15], **Samuel André Lemieux** [15] – Timmins ON  
*Moteur électrique éolien*

---

**Kirstan Cruse** [14], **Lindsay Dimler** [14] – Central Interior British Columbia BC  
*Solar Separation: The Production of Eco-Friendly Fuel*

---

#### Bronze Medal - Automotive

##### Senior

Sponsor: AUTO21  
Medal, \$300 cash & certificate

---

**Gary Kurek** [17] – Edmonton AB  
*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

**Shannon Hughes** [18] – Timmins ON  
*The Bottom of the Barrel: The Stiffer Paradigm*

---

#### Honourable Mention - Physical & Mathematical Sciences

##### Junior

Sponsor: EnCana Corporation  
\$100 cash & Certificate

---

**Rachel McLay** [14] – Bluewater ON  
*Is it Safe to Make The Switch?*

---

**Émile Jodoin** [14], **Pierre Watine** [13] – Montréal CLS QC  
*L'électroaimant vous attire ?*

---

**Nicole Larson** [12] – Alberta Central East AB  
*Fast and Furious*

---

**Johanne Jensen-LeBlanc** [13] – Central Interior British Columbia BC  
*CBMeteor Radio II*

---

#### Honourable Mention - Physical & Mathematical Sciences

##### Intermediate

Sponsor: EnCana Corporation  
\$100 cash & Certificate

---

**Jessie Beaulieu** [15] – Côte-Nord QC  
*CO2nservons la Terre*

---

**Marshall Quinn** [16] – Simcoe County ON  
*The Hole Solution*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

#### Honourable Mention - Life Sciences

##### Junior

Sponsor: Pfizer Canada  
\$100 cash & Certificate

---

**Melissa Watson** [13] – United Counties ON  
*Les plantes dans un monde de couleurs*

---

**Ryan Ramos** [14] – Bay Area ON  
*Beware! Of Potatoes: Enzymatic Effects on Food Preservation and the Environment*

---

#### Honourable Mention - Life Sciences

##### Intermediate

Sponsor: Pfizer Canada  
\$100 cash & Certificate

---

**Joanne Vachon** [15] – Fransaskoise SK  
*Les oeufs oméga-3*

---

**Natalie Fisher** [16] – Chignecto Central West NS  
*The Secret Life of Spice*

---

#### Honourable Mention - Life Sciences

##### Senior

Sponsor: Pfizer Canada  
\$100 cash & Certificate

---

**Mengqi Wang** [18], **Julie Xu** [17] – Calgary Youth AB  
*Co-culture of Pseudomonas and Prevotella in Agar Beads*

---

**Uliana Kovaltchouk** [16] – Winnipeg Schools MB  
*Molecular Insights on DNA Uptake & Transit Pathways in Saccharomyces cerevisiae*

---

#### Honourable Mention - Health Sciences

##### Junior

Sponsor: Canadian Institutes of Health Research  
\$100 cash & Certificate

---

**Bernadette Weaver** [13] – North Bay ON  
*Fact or Foamy*

---

**Ryan Warnock** [14], **Manel Zeghal** [14] – Ottawa ON  
*Artificial Intelligence for a Healthier Canada*

---

**Sheldon Seepersad** [13] – Toronto ON  
*Quality Sounds ... or not?*

---

**Kayleigh Ng** [13] – Rideau-St. Lawrence ON  
*Bristle Busters*

---

**Lihani du Plessis** [13] – Canadian Rockies AB  
*Pure H2O*

---

#### Honourable Mention - Health Sciences

##### Intermediate

Sponsor: Canadian Institutes of Health Research  
\$100 cash & Certificate

---

**Kelcie Miller-Anderson** [14], **Maria Shtil** [14] – Calgary Youth AB  
*The Sweeter, The Cleaner - Stevia*

---

**Adam Parsons** [15] – Eastern Newfoundland NL  
*Optimization of Bicycle Training: A Multi-Variable Experiment*



# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Margaret Ellis-Young [15], Elizabeth Hill [16]** – Saskatoon SK  
*Risky Sips: BPA in Your Bottle*

---

**Morgan Hoot [15]** – Cariboo Mainline BC  
*Handwashing and Gloves: Making the Right Choice, Part II*

---

**Jacque Gulevich [15]** – Northern British Columbia BC  
*Will Women's Wicking Wear Work?*

---

**Riley Troke-Barriault [14]** – Conseil scolaire acadien provincial (CSAP) NS  
*La capsaicine, mal sans point ou remède?*

---

#### Honourable Mention - Health Sciences

##### Senior

Sponsor: Canadian Institutes of Health Research  
\$100 cash & Certificate

---

**Pierre Yves Laroche [17]** – Québec et Chaudière-Appalaches QC  
*Pour neurones seulement ?*

---

**Leto Miminis [17]** – Eastern Newfoundland NL  
*Fast vs. Slow Perceivers: Ambiguous Stimuli Perception on Eyewitness Recall*

---

**Alen Antoun [17]** – Ottawa ON  
*Développement d'un modèle animal de l'amblyopie anisométrique*

---

#### Honourable Mention - Environmental Innovation

##### Junior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
\$100 cash & Certificate

---

**Jordan Tardi [12]** – South Fraser BC  
*Magno-Car: The Ride of the Future*

---

**Colin Roos [14]** – Sudbury ON  
*The Chlorofilter*

---

**Arik Milner [13]** – Greater Vancouver BC  
*eMission Impossible: Detecting Pollution with Laser Light*

---

**David Oh [13]** – Fraser Valley BC  
*Glim and Glow*

---

**Adrienne Kay Morgan [14]** – Frontenac, Lennox & Addington ON  
*Just Add Water*

---

**Michael Brogee [14]** – Quinte ON  
*Powerwalk*

---

**Isabella Pedersen [13], Riley Jordan Scott [12]** – Canadian Rockies AB  
*ComPawst Bins: A Bear Necessity*

---

**Charlie Sobcov [13]** – Ottawa ON  
*Saving the Birds, One Window at a Time*

---

**Ryan Séguin [13]** – Timmins ON  
*Éco-Conserve*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

#### Honourable Mention - Environmental Innovation

##### Intermediate

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
\$100 cash & Certificate

---

**Sophia Coulter English** [16], **Gillian Walczak** [15] – Bay Area ON  
*We're Still Not Plastic Bags: Perfecting the Perfect Plastic*

---

**Adrian Howie** [16] – Halifax NS  
*From CO2 Sink to Biofuel Inc.*

---

**Victoria-Marie Cusson** [15] – Ottawa ON  
*La transformation écologique des déchets ménagers organiques en bioéthanol*

---

**Arash Marzi** [15] – Strait NS  
*A Bee Inspired Multi-Objective Optimization Algorithm For A Greener Tomorrow*

---

**Camille Salvat** [16], **Estelle Simon** [15] – Montérégie QC  
*L'uni«ver» est au cheval !*

---

#### Honourable Mention - Environmental Innovation

##### Senior

Sponsor: EnviroExpo, Presented by VIA Rail Canada  
\$100 cash & Certificate

---

**Supriya Nilam** [16] – Niagara ON  
*Anti-Oxidants and Plant Dynamics Part II: From Lab to Land*

---

**Bindu Kovvuru** [17] – Niagara ON  
*Phytoremediation: using Geraniums as hyperaccumulators in phytoextracting lead*

---

**Tony Kwon** [16] – London District ON  
*Garlic-Induced Gene Expression Changes in Streptococcus pyogenes Predict a*

---

**Alex Nah** [16] – South Fraser BC  
*Don't Write on Your Hands*

---

**Mary Zhao** [17] – Greater Vancouver BC  
*Grasping Water*

---

**Steven Zhu** [17] – Greater Vancouver BC  
*Fabulous Fiddleheads*

---

#### Honourable Mention - Engineering

##### Junior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Jordan Tardi** [12] – South Fraser BC  
*Magno-Car: The Ride of the Future*

---

**Matt Kay** [13], **Quentin Kun-Ting Wong** [13] – Toronto ON  
*Aquarium Filtering*

---

**Jordan Adamich** [14] – Simcoe County ON  
*Concrete Microsphere Mix*

---

**Alex Yang** [14] – Greater Vancouver BC  
*X-CoP 102 - "eXternal COntrolled Prosthesis"*

---

**Alison Underwood** [12] – Avon Maitland-Huron Perth ON  
*Watch Your Step*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

#### Honourable Mention - Engineering

##### Intermediate

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Léa Bélanger [15], Laurie Tremblay [16]** – Saguenay-Lac Saint-Jean QC  
*La «Chaud-Frette»*

---

**Greg Farrell [15]** – Halifax NS  
*Energy From Mobility: Creating and Testing Kinetic Electrical Generators*

---

**Isaac Longard [15]** – South Shore NS  
*Pedal Pumper*

---

#### Honourable Mention - Engineering

##### Senior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Hillary Dawkins [16], Susie Pan [16]** – Waterloo-Wellington ON  
*Extending the Operational Lifespan of Dye Sensitized Solar Cells*

---

**Laurel Stothers [17]** – South Fraser BC  
*From the Bottom Up: Self-Assembly by Lateral Capillary Forces*

---

**Todd Mercer [17]** – Cape Breton NS  
*The "Mow Pod"*

---

#### Honourable Mention - Earth & Environmental Science

##### Junior

Sponsor: Petro-Canada  
\$100 cash & Certificate

---

**Kimberley Beech [14]** – Peel ON  
*The Water Hornwort*

---

**Hayley Todesco [12]** – Calgary Youth AB  
*Hazy Days: Measuring Atmospheric Haze Levels*

---

**Jessie MacAlpine [13]** – London District ON  
*Carbon Dioxide-Friend or Foe?*

---

**Kathleen Beekmann [14]** – Greater Vancouver BC  
*Horsy Matters*

---

**Joseph Fellers [13]** – Northern British Columbia BC  
*Going Waste Free*

---

#### Honourable Mention - Earth & Environmental Science

##### Intermediate

Sponsor: Petro-Canada  
\$100 cash & Certificate

---

**Revi Bonder [16], Shirley Nakhshon [15]** – York ON  
*Is there an alternative to oil-based plastics?*

---

**Adrian Howie [16]** – Halifax NS  
*From CO2 Sink to Biofuel Inc.*

---

**Akruti Patel [15]** – Lambton County ON  
*Algae: A Green Future*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

#### Honourable Mention - Earth & Environmental Science

##### Senior

Sponsor: Petro-Canada  
\$100 cash & Certificate

---

**Jennine Boyce [17], Jessica Kuipers [17]** – Peterborough ON  
*BioChar*

---

**Elise Tessier [17]** – Conseil scolaire acadien provincial (CSAP) NS  
*Ne vous stressez pas*

---

**Ghufran Siddiqui [16]** – Lambton County ON  
*BioHydrogen*

---

#### Honourable Mention - Computing & Information Technology

##### Intermediate

Sponsor: Intel of Canada  
\$100 cash & Certificate

---

**Tim Cooper [16]** – Annapolis Valley NS  
*Creating an Online Computer Game*

---

#### Honourable Mention - Computing & Information Technology

##### Senior

Sponsor: Intel of Canada  
\$100 cash & Certificate

---

**Adam Bennett [16]** – Rideau-St. Lawrence ON  
*Using Genetic Algorithms to Solve the Traveling Salesman Problem*

---

#### Honourable Mention - Biotechnology & Pharmaceutical Sciences

##### Junior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Farouk Selouani [13]** – Chaleur NB  
*Après les OGM, les AGM: danger pour la biodiversité?*

---

#### Honourable Mention - Biotechnology & Pharmaceutical Sciences

##### Intermediate

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Brent Murphy [14]** – Manitoba Schools Science Symposium MB  
*What is the effect of garlic when used as a biological seed treatment?*

---

**Zahra Alisha Merali [14]** – North Bay ON  
*Rx Neuropathy*

---

#### Honourable Mention - Biotechnology & Pharmaceutical Sciences

##### Senior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Gayani Gunathilake [16], Agatha Kang [16]** – Prince Edward Island PE  
*Characterization of Immunoglobulins in Canine Autoimmune Hemolytic Anemia(AIHA)*

---

**Sofia Oke [16], Noorain Shethwala [16]** – Waterloo-Wellington ON  
*Chemotherapy Drugs: Less is More*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

#### Honourable Mention - Automotive

##### Junior

Sponsor: AUTO21

\$100 cash & Certificate

---

**Jagvir Gill** [14], **Vikhyat Mundlapudi** [13] – Peel ON

*And Then You Take a Left...*

---

**Matthew Podolak** [12] – Simcoe County ON

*Algae Goes Green*

---

#### Honourable Mention - Automotive

##### Intermediate

Sponsor: AUTO21

\$100 cash & Certificate

---

**Chadi Saad-Roy** [14] – Vancouver Island BC

*Le Néodyme: utile dans le transport?*

---

**Philippe Assaad** [14] – Calgary Youth AB

*La Télérobotique... Notre Futur*

---

#### The University of Western Ontario Scholarship

##### Gold Medallist - \$2000 Entrance Scholarship

Sponsor: University of Western Ontario

An Entrance Scholarship of \$2000 is offered to each winner of a Gold Medal. An Entrance Scholarship of \$1500 is offered to each winner of a Silver Medal. An Entrance Scholarship of \$1000 is offered to each winner of a Bronze Medal.

---

**Tegan Wiebe** [17] – North Channel ON

*It's Time to Make a "Radon" the Basements*

---

**Chadi Saad-Roy** [14] – Vancouver Island BC

*Le Néodyme: utile dans le transport?*

---

**Dheevesh Arulmani** [13] – Peel ON

*Bio-Inspired Photonic Fuel Cell*

---

**Jenna Schlorff** [13] – Bluewater ON

*Crushed!*

---

**Mike Bao** [18], **Allan Kang** [16] – Edmonton AB

*MMM: Manoeuvring Metastatic Melanoma*

---

**Rebecca Sandrelli** [14] – Renfrew County ON

*Bugs on Drugs Phase II*

---

**Emmanuelle Bérubé** [12] – Quinte ON

*Do You Eat the Red Ones Last ?*

---

**Tony Kwon** [16] – London District ON

*Garlic-Induced Gene Expression Changes in Streptococcus pyogenes Predict a*

---

**Aaliya Waja** [14], **Shelby Wallace** [15] – North Bay ON

*Hands on the Wheel*

---

**Perri Tutelman** [15] – Greater Vancouver BC

*Cancer-Killing Combinations*

---

**Chris Schoepp** [14] – Fraser Valley BC

*You Can't Hear That?!*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Sébastien Chénier** [17] – Outaouais QC  
*Le moteur de Dame Nature*

---

**Victor Kloeze** [18] – Avon Maitland-Huron Perth ON  
*Goderich Sustainable Home*

---

**Gary Kurek** [17] – Edmonton AB  
*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

**Brian Larson** [14] – Alberta Central East AB  
*SafeD Pet Solutions*

---

**Melissa Chopcian** [12] – Lambton County ON  
*CPR Training Simulator - Improved for Kids*

---

**David Lister** [14] – Yukon/Stikine YT  
*Electricity From The Waste Heat of An Engine*

---

**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

---

**Megan Schlorff** [16] – Bluewater ON  
*Down the Drain, Only to Resurface Again*

---

**Matthew Podolak** [12] – Simcoe County ON  
*Algae Goes Green*

---

**Bryan Hatton** [16], **Eddie Kim** [16] – Waterloo-Wellington ON  
*Watching Evolution*

---

**Arash Marzi** [15] – Strait NS  
*A Bee Inspired Multi-Objective Optimization Algorithm For A Greener Tomorrow*

---

**Katherine Leach-Russo** [13] – Avon Maitland-Huron Perth ON  
*ProjectWiseWord*

---

**Steven Zhu** [17] – Greater Vancouver BC  
*Fabulous Fiddleheads*

---

**Camille Salvat** [16], **Estelle Simon** [15] – Montérégie QC  
*L'uni«ver» est au cheval !*

---

**Megan Howse** [13] – Eastern Newfoundland NL  
*SpongeBob's Nemesis Plankton: Evil Genius or Omega-3 Super-producer?*

---

#### The University of Western Ontario Scholarship

##### Silver Medallist - \$1500 Entrance Scholarship

Sponsor: University of Western Ontario

An Entrance Scholarship of \$2000 is offered to each winner of a Gold Medal. An Entrance Scholarship of \$1500 is offered to each winner of a Silver Medal. An Entrance Scholarship of \$1000 is offered to each winner of a Bronze Medal.

---

**Erin Baker** [17] – Eastern Newfoundland NL  
*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*

---

**Alyssa Moss** [17] – Cape Breton NS  
*Winds of Change*

---

**Oliver Jourmel** [14] – Vancouver Island BC  
*Soil Amending Properties of Charcoal*

---

**Ragnar Robinson** [16] – Northern Saskatchewan SK  
*Properties of Wood Phase Two*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Lauren Reid** [13] – Durham ON

*Innovative, Trailing Edge Winglet: Bent. Broken. Better!*

---

**Connor Sanders** [13], **Spencer Young** [12] – Sudbury ON

*Material Matters*

---

**Jenna Schlorff** [13] – Bluewater ON

*Crushed!*

---

**Roland Troke-Barriault** [16] – Conseil scolaire acadien provincial (CSAP) NS

*Le bonheur du bruit: Quelles fréquences pour la croissance*

---

**Sarah Langer** [17] – Peterborough ON

*A Model for Human Decomposition in Fresh Water and Salt Water*

---

**Alexandre Lemieux** [16] – Québec et Chaudière-Appalaches QC

*Le fromage, un écosystème !*

---

**Ashley Anderson** [13], **Forrest Tower** [14] – Central Interior British Columbia BC

*Predicting Aggression Using Multiple Regression*

---

**Jonathan Dawson** [12], **Alan Stanek** [13] – Toronto ON

*Sound Analysis and Comparison of Sound made by Mammals, Birds, Amphibians and*

---

**Shubham Talwar** [14] – Lethbridge AB

*Hyper Heartbeat: The Effect of pH levels on Micro-organisms*

---

**Sapna Shah** [17] – York ON

*Potential Use of Microencapsulated Live Yeast Cells in Treating Kidney Failure*

---

**Caitlin Martin Newnham** [18] – London District ON

*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

---

**Emily Ross** [15] – Prince Edward Island PE

*Remember to Think....Think to Remember: Preventing Alzheimers*

---

**Jieqing Xu** [13] – Greater Vancouver BC

*Roots and Caterpillars vs Liver Cancer*

---

**Claire Longcroft** [13] – Greater Vancouver BC

*Driven to Distraction - The Effect of Talking and Texting on*

---

**Adelina Corina Cozma** [13] – York ON

*Growing Up Emotionally Smart*

---

**Danielle Shwed** [13] – Simcoe County ON

*Eye Spy Too: Exploring Peripheral Vision*

---

**Ryan Peng** [17] – Saskatoon SK

*High Speed Flash Exposure with Compact Digital Cameras*

---

**Eden Full** [17] – Calgary Youth AB

*Dynamic Photovoltaics - The Sustainable SolArray*

---

**Jordan Brears** [18], **David Skibinsky** [18] – Regina SK

*Stirling Engine: Thinking Outside the Gas Pump*

---

**Brian Larson** [14] – Alberta Central East AB

*SafeD Pet Solutions*

---

**Timothy Carlielle-Shaw** [14] – Central Alberta AB

*Annular Wings vs Straight Wings*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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|                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Justin Li</b> [14], <b>Sandro Young</b> [15] – Ottawa ON<br><i>Wireless Power II: Characterizing Magnetically Coupled Fields</i>     |
| <b>Arik Milner</b> [13] – Greater Vancouver BC<br><i>eMission Impossible: Detecting Pollution with Laser Light</i>                      |
| <b>Alison Underwood</b> [12] – Avon Maitland-Huron Perth ON<br><i>Watch Your Step</i>                                                   |
| <b>David Lister</b> [14] – Yukon/Stikine YT<br><i>Electricity From The Waste Heat of An Engine</i>                                      |
| <b>Roopa Suppiah</b> [17] – Renfrew County ON<br><i>Closing-in on Fuel Cells</i>                                                        |
| <b>Mary Zhao</b> [17] – Greater Vancouver BC<br><i>Grasping Water</i>                                                                   |
| <b>Jean-Olivier Lambert</b> [18] – Timmins ON<br><i>MagnaVert</i>                                                                       |
| <b>Laurissa Christie</b> [15] – Bluewater ON<br><i>What's the Buzz Now?</i>                                                             |
| <b>Stephanie Gaglione</b> [14] – Toronto ON<br><i>Disappearing Oil: Enhanced Bioremediation of Oil-Contaminated Soil in Bioreactors</i> |
| <b>Victoria-Marie Cusson</b> [15] – Ottawa ON<br><i>La transformation écologique des déchets ménagers organiques en bioéthanol</i>      |
| <b>Kimberley Beech</b> [14] – Peel ON<br><i>The Water Hornwort</i>                                                                      |
| <b>Jordan Ho</b> [12] – Toronto ON<br><i>More Solar Power</i>                                                                           |
| <b>Charlie Sobcov</b> [13] – Ottawa ON<br><i>Saving the Birds, One Window at a Time</i>                                                 |
| <b>Adam Bennett</b> [16] – Rideau-St. Lawrence ON<br><i>Using Genetic Algorithms to Solve the Traveling Salesman Problem</i>            |
| <b>Rami Sayar</b> [18] – Montreal QC<br><i>Touchless Computing</i>                                                                      |
| <b>Jason Lin</b> [17], <b>Manuel Ung</b> [17] – Greater Vancouver BC<br><i>A Different Look at Perceptrons</i>                          |
| <b>Abigail McLagan</b> [13] – Rideau-St. Lawrence ON<br><i>Artificial WHAT?!</i>                                                        |
| <b>Collin Fair</b> [14] – Central Alberta AB<br><i>WireSim</i>                                                                          |
| <b>Patrick Kotelko</b> [13] – St. James-Assiniboia MB<br><i>Logic Gates and the K'nex Computer</i>                                      |
| <b>Alexandre Allard</b> [17], <b>Danny Luong</b> [18] – Québec et Chaudière-Appalaches QC<br><i>Le caoutchouc au bon goût</i>           |
| <b>Forson Chan</b> [18] – Greater Vancouver BC<br><i>Suramin, Congo Red, and Antibiotic Resisance</i>                                   |



# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Réda Bensaïdane** [16] – Québec et Chaudière-Appalaches QC  
*Irrésistibles, les phages ?*

---

**Stephanie Chan** [15] – Waterloo-Wellington ON  
*Power Your Car - From Your Dinner Table*

---

**Sarah Dalziel** [15] – West Kootenay & Boundary BC  
*The Woad to a sustainable blue. Phase 3*

---

**Charice Chan** [13], **Douglas Lam** [13] – Edmonton AB  
*One Two Freeze Thaw*

---

**Ryan Séguin** [13] – Timmins ON  
*Éco-Conserve*

---

#### The University of Western Ontario Scholarship

##### Bronze Medallist - \$1000 Entrance Scholarship

Sponsor: University of Western Ontario

An Entrance Scholarship of \$2000 is offered to each winner of a Gold Medal. An Entrance Scholarship of \$1500 is offered to each winner of a Silver Medal. An Entrance Scholarship of \$1000 is offered to each winner of a Bronze Medal.

---

**David Bagwell** [16] – Northern Saskatchewan SK  
*Fight Fire With Sound?*

---

**Peter O'Rielly** [18], **Hilary Walsh** [17] – Central Newfoundland NL  
*Shhhhhhhhh - 3 (Into the Blue)*

---

**Madison Dobrovolskis** [14], **Hannah Morris-Patterson** [14] – Bay Area ON  
*Even Cleaner Even Greener*

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**Vaibhavi Solanki** [14] – Bluewater ON  
*Magic Math*

---

**Daniel O'Neil** [16] – United Counties ON  
*Mission Adhésion*

---

**Meagan Fabel** [13] – Windsor ON  
*Catch the Solar Wave to \$ave*

---

**Brandon Wisniewski** [13] – Simcoe County ON  
*Microburst Spoiler*

---

**Emily Agar** [13], **Sylvie Bronsard** [13] – Bay Area ON  
*Which Way is North?*

---

**Nicholas Randall** [16] – Central Okanagan BC  
*Yogurt Trek: The Search for Probiotics*

---

**Lauren Arena** [16], **Melissa Cammuso** [16] – Montreal QC  
*Insulin of the Future*

---

**Jennifer Smith** [17] – Central Alberta AB  
*Chimera: Genetic Anomaly*

---

**Wil Francolini** [15] – London District ON  
*Scratch-Off Cards: Are You Being Manipulated to Lose?*

---

**Taylor Lidster** [14] – Chatham-Kent ON  
*Thérapie de Choc*

---

**Yohan Lefol** [14] – Fransaskoise SK  
*La marche des Arthropodes*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Rebecca Sandrelli** [14] – Renfrew County ON

*Bugs on Drugs Phase II*

---

**Arathi Unnikrishnan** [13] – Edmonton AB

*The Effects of Gender Identity on Short-Term Memory*

---

**Blake Grootenboer** [14] – Northwestern Ontario ON

*What Makes Calves Grow*

---

**Victoria Jacklyn Evans** [14], **Brittany Patricia Reeves** [13] – Victoria County ON

*The Effects of Red Bull on a Daphnia's Heart Rate*

---

**Juliet Daet** [17] – Manitoba Schools Science Symposium MB

*Inhibition of Cell Growth by Polyamine Analogues in Breast Cancer*

---

**Jeffrey Ma** [18], **Eric Szeto** [17] – Greater Vancouver BC

*Evaluation of Mangosteen Fruits and Extracts by HPLC and in Prostate Cancer Cell*

---

**Linda Liu** [18] – Greater Vancouver BC

*Rhubarb to the Rescue!*

---

**Aaliya Waja** [14], **Shelby Wallace** [15] – North Bay ON

*Hands on the Wheel*

---

**Kelcie Miller-Anderson** [14], **Maria Shtil** [14] – Calgary Youth AB

*The Sweeter, The Cleaner - Stevia*

---

**Brian Krug** [16] – Waterloo-Wellington ON

*Herbal Products May Alter Drug Metabolism*

---

**Gabriel Smith** [14] – Halifax NS

*What Kind of Mind do You Have?*

---

**Claire Longcroft** [13] – Greater Vancouver BC

*Driven to Distraction - The Effect of Talking and Texting on*

---

**Josie Mielhausen** [14] – Bluewater ON

*You are What You Eat*

---

**Jory Smallenberg** [14] – Fraser Valley BC

*Do You Know What You're Touching?*

---

**Danielle Shwed** [13] – Simcoe County ON

*Eye Spy Too: Exploring Peripheral Vision*

---

**Sébastien Chénier** [17] – Outaouais QC

*Le moteur de Dame Nature*

---

**Hillary Dawkins** [16], **Susie Pan** [16] – Waterloo-Wellington ON

*Extending the Operational Lifespan of Dye Sensitized Solar Cells*

---

**Eden Full** [17] – Calgary Youth AB

*Dynamic Photovoltaics - The Sustainable SolArray*

---

**Jiun Yiing Hu** [15], **Rosie Zhang** [16] – Toronto ON

*Digital Traffic Signal Recognition System: Saving Lives*

---

**Gary Kurek** [17] – Edmonton AB

*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

**Sophia Coulter English** [16], **Gillian Walczak** [15] – Bay Area ON

*We're Still Not Plastic Bags: Perfecting the Perfect Plastic*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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|                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Timothy Carlielle-Shaw</b> [14] – Central Alberta AB<br><i>Annular Wings vs Straight Wings</i>                                                            |
| <b>François-Guillaume Landry</b> [15] – Chaleur NB<br><i>Une antenne relais qui rassure!</i>                                                                 |
| <b>Nicholas Lynch</b> [14] – Chignecto Central West NS<br><i>Pool Protection System</i>                                                                      |
| <b>Christopher Allen</b> [15], <b>Samuel André Lemieux</b> [15] – Timmins ON<br><i>Moteur électrique éolien</i>                                              |
| <b>Kirstan Cruse</b> [14], <b>Lindsay Dimler</b> [14] – Central Interior British Columbia BC<br><i>Solar Separation: The Production of Eco-Friendly Fuel</i> |
| <b>Robin White</b> [14] – Vancouver Island BC<br><i>Warm and Fuzzy; no More Scuzzy: Effective Small Scale Motor Oil Spill Cleanup</i>                        |
| <b>Nick Hayden</b> [12] – Yukon/Stikine YT<br><i>Aerodynamics of Transport Trucks</i>                                                                        |
| <b>Adrienne Kay Morgan</b> [14] – Frontenac, Lennox & Addington ON<br><i>Just Add Water</i>                                                                  |
| <b>Justin Halldorson</b> [14] – Parkland SK<br><i>Extenda-Spray</i>                                                                                          |
| <b>Cameron Hayley</b> [12] – Chinook Country AB<br><i>Max Downforce</i>                                                                                      |
| <b>Amanda Annett</b> [17] – Edmonton AB<br><i>A River Runs Through It - Phase IV</i>                                                                         |
| <b>Elise Tessier</b> [17] – Conseil scolaire acadien provincial (CSAP) NS<br><i>Ne vous stressez pas</i>                                                     |
| <b>Olivia Geen</b> [17] – Quinte ON<br><i>Comparing Silica Gel &amp; Newspaper to Vermiculite as Environmental Soil Additives</i>                            |
| <b>Shannon Hughes</b> [18] – Timmins ON<br><i>The Bottom of the Barrel: The Stiffer Paradigm</i>                                                             |
| <b>Kimberly Gulevich</b> [16] – Northern British Columbia BC<br><i>Got Gas?</i>                                                                              |
| <b>Shannon Ball</b> [14] – Manitoba Schools Science Symposium MB<br><i>It's "In" Lightning</i>                                                               |
| <b>Laurissa Christie</b> [15] – Bluewater ON<br><i>What's the Buzz Now?</i>                                                                                  |
| <b>Llew Falla</b> [16] – Lambton County ON<br><i>Phase Inversion of Aqueous Ethylene Copolymers For Water Remediation</i>                                    |
| <b>Arctica Cunningham</b> [13] – Pacific Northwest BC<br><i>Scraps for Laps</i>                                                                              |
| <b>Jordan Ho</b> [12] – Toronto ON<br><i>More Solar Power</i>                                                                                                |
| <b>Shakti Ramkumar</b> [12] – South Fraser BC<br><i>Ecological Footprint - The Most Important Accounting Tool For The Planet?</i>                            |

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Dylan Kassian** [12] – Northern British Columbia BC  
*Weather or Not.....Site C-O2*

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**Émile Daneault** [19] – Montréal CLS QC  
*Pratique musicale et infrarouge*

---

**Mathieu Aucoin** [18] – Chaleur NB  
*Un ordinateur gelé mais rapide*

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**Greg Koestler** [17], **Clay Schroeder** [17] – Windsor ON  
*Mario from Scratch*

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**Olivier Brochu-Dufour** [16], **Arielle Grondin** [16] – Montérégie QC  
*Table tactile*

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**Alex Ianta** [12] – Chignecto East NS  
*AIML Robots*

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**Imanne El Maâchi** [17] – Montréal CLS QC  
*L'attaque juteuse*

---

**Binudith Warna** [16] – Manitoba Schools Science Symposium MB  
*Analysis of PL reductase and level of secoisolariciresinol diglucoside in flax*

---

**Leah Natalie Rosetti** [17] – Niagara ON  
*Designing a Novel SAM Mimic as an Inhibitor of AHL Synthase*

---

**Brent Murphy** [14] – Manitoba Schools Science Symposium MB  
*What is the effect of garlic when used as a biological seed treatment?*

---

**Madalyn Light** [14], **Emma Walker** [14] – Central Okanagan BC  
*UV Radiation-Free, Naturally*

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**Stephanie Chan** [15] – Waterloo-Wellington ON  
*Power Your Car - From Your Dinner Table*

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**Alyson Bell** [15] – Peterborough ON  
*A Tale My Grandfather Told Me*

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**Howard Feng** [13] – Peel ON  
*I Scream for Ice Cream But...*

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**Sarah Hyslop** [13] – Calgary Youth AB  
*Horseshoe Crabs- Beneficial Blue Bloods*

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**Julia Starko** [12] – Western Manitoba MB  
*Let The Sun Shine*

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#### University of Ottawa Entrance Scholarship

##### Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year for 4 years)

Sponsor: University of Ottawa

A University of Ottawa scholarship of \$20,000 (\$5,000 each year for 4 years) is offered to each gold medal winning senior finalist. A University of Ottawa scholarship of \$3,000 (non-renewable) is offered to each silver medal winning senior finalist. A University of Ottawa scholarship of \$1,000 (non-renewable) is offered to each bronze medal winning senior finalist.

---

**Tegan Wiebe** [17] – North Channel ON  
*It's Time to Make a "Radon" the Basements*

---

**Mike Bao** [18], **Allan Kang** [16] – Edmonton AB  
*MMM: Manoeuvring Metastatic Melanoma*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Tony Kwon** [16] – London District ON  
*Garlic-Induced Gene Expression Changes in Streptococcus pyogenes Predict a*

---

**Sébastien Chénier** [17] – Outaouais QC  
*Le moteur de Dame Nature*

---

**Victor Kloeze** [18] – Avon Maitland-Huron Perth ON  
*Goderich Sustainable Home*

---

**Gary Kurek** [17] – Edmonton AB  
*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

---

**Bryan Hatton** [16], **Eddie Kim** [16] – Waterloo-Wellington ON  
*Watching Evolution*

---

**Steven Zhu** [17] – Greater Vancouver BC  
*Fabulous Fiddleheads*

---

#### University of Ottawa Entrance Scholarship

##### Senior Silver Medallist - \$3000 Entrance Scholarship

Sponsor: University of Ottawa

A University of Ottawa scholarship of \$20,000 (\$5,000 each year for 4 years) is offered to each gold medal winning senior finalist. A University of Ottawa scholarship of \$3,000 (non-renewable) is offered to each silver medal winning senior finalist. A University of Ottawa scholarship of \$1,000 (non-renewable) is offered to each bronze medal winning senior finalist.

---

**Erin Baker** [17] – Eastern Newfoundland NL  
*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*

---

**Alyssa Moss** [17] – Cape Breton NS  
*Winds of Change*

---

**Roland Troke-Barriault** [16] – Conseil scolaire acadien provincial (CSAP) NS  
*Le bonheur du bruit: Quelles fréquences pour la croissance*

---

**Sarah Langer** [17] – Peterborough ON  
*A Model for Human Decomposition in Fresh Water and Salt Water*

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**Sapna Shah** [17] – York ON  
*Potential Use of Microencapsulated Live Yeast Cells in Treating Kidney Failure*

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**Caitlin Martin Newnham** [18] – London District ON  
*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

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**Ryan Peng** [17] – Saskatoon SK  
*High Speed Flash Exposure with Compact Digital Cameras*

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**Eden Full** [17] – Calgary Youth AB  
*Dynamic Photovoltaics - The Sustainable SolArray*

---

**Jordan Brears** [18], **David Skibinsky** [18] – Regina SK  
*Stirling Engine: Thinking Outside the Gas Pump*

---

**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

---

**Mary Zhao** [17] – Greater Vancouver BC  
*Grasping Water*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Jean-Olivier Lambert** [18] – Timmins ON  
*MagnaVert*

---

**Adam Bennett** [16] – Rideau-St. Lawrence ON  
*Using Genetic Algorithms to Solve the Traveling Salesman Problem*

---

**Rami Sayar** [18] – Montreal QC  
*Touchless Computing*

---

**Jason Lin** [17], **Manuel Ung** [17] – Greater Vancouver BC  
*A Different Look at Perceptrons*

---

**Alexandre Allard** [17], **Danny Luong** [18] – Québec et Chaudière-Appalaches QC  
*Le caoutchouc au bon goût*

---

**Forson Chan** [18] – Greater Vancouver BC  
*Suramin, Congo Red, and Antibiotic Resistance*

---

#### University of Ottawa Entrance Scholarship

##### Senior Bronze Medallist - \$1000 Entrance Scholarship

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A University of Ottawa scholarship of \$20,000 (\$5,000 each year for 4 years) is offered to each gold medal winning senior finalist. A University of Ottawa scholarship of \$3,000 (non-renewable) is offered to each silver medal winning senior finalist. A University of Ottawa scholarship of \$1,000 (non-renewable) is offered to each bronze medal winning senior finalist.

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**David Bagwell** [16] – Northern Saskatchewan SK  
*Fight Fire With Sound?*

---

**Peter O'Rielly** [18], **Hilary Walsh** [17] – Central Newfoundland NL  
*Shhhhhhhhh - 3 (Into the Blue)*

---

**Nicholas Randall** [16] – Central Okanagan BC  
*Yogurt Trek: The Search for Probiotics*

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**Lauren Arena** [16], **Melissa Cammuso** [16] – Montreal QC  
*Insulin of the Future*

---

**Jennifer Smith** [17] – Central Alberta AB  
*Chimera: Genetic Anomaly*

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**Juliet Daet** [17] – Manitoba Schools Science Symposium MB  
*Inhibition of Cell Growth by Polyamine Analogues in Breast Cancer*

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**Jeffrey Ma** [18], **Eric Szeto** [17] – Greater Vancouver BC  
*Evaluation of Mangosteen Fruits and Extracts by HPLC and in Prostate Cancer Cell*

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**Linda Liu** [18] – Greater Vancouver BC  
*Rhubarb to the Rescue!*

---

**Sébastien Chénier** [17] – Outaouais QC  
*Le moteur de Dame Nature*

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**Hillary Dawkins** [16], **Susie Pan** [16] – Waterloo-Wellington ON  
*Extending the Operational Lifespan of Dye Sensitized Solar Cells*

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**Eden Full** [17] – Calgary Youth AB  
*Dynamic Photovoltaics - The Sustainable SolArray*

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**Jiun Yiing Hu** [15], **Rosie Zhang** [16] – Toronto ON  
*Digital Traffic Signal Recognition System: Saving Lives*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Gary Kurek** [17] – Edmonton AB

*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

---

**Amanda Annett** [17] – Edmonton AB

*A River Runs Through It - Phase IV*

---

**Elise Tessier** [17] – Conseil scolaire acadien provincial (CSAP) NS

*Ne vous stressez pas*

---

**Olivia Geen** [17] – Quinte ON

*Comparing Silica Gel & Newspaper to Vermiculite as Environmental Soil Additives*

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**Shannon Hughes** [18] – Timmins ON

*The Bottom of the Barrel: The Stiffer Paradigm*

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**Kimberly Gulevich** [16] – Northern British Columbia BC

*Got Gas?*

---

**Émile Daneault** [19] – Montréal CLS QC

*Pratique musicale et infrarouge*

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**Mathieu Aucoin** [18] – Chaleur NB

*Un ordinateur gelé mais rapide*

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**Greg Koestler** [17], **Clay Schroeder** [17] – Windsor ON

*Mario from Scratch*

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**Imanne El Maâchi** [17] – Montréal CLS QC

*L'attaque juteuse*

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*Analysis of PL reductase and level of secoisolariciresinol diglucoside in flax*

---

**Leah Natalie Rosetti** [17] – Niagara ON

*Designing a Novel SAM Mimic as an Inhibitor of AHL Synthase*

---

### UBC Science (Vancouver) Entrance Award

#### Senior Gold Medallist - \$4000 Entrance Scholarship

Sponsor: The University of British Columbia (Vancouver)

A UBC entrance scholarship of \$4,000 is offered to each gold medal winning senior finalist in the following seven divisions: Biotechnology, Computing & Information Technology, Earth & Environmental Sciences, Environmental Innovation, Health Sciences, Life Sciences, and Physical & Mathematical Sciences. A \$2,000 UBC entrance scholarship is offered to each silver medal winning senior finalist in the same seven divisions.

---

**Tegan Wiebe** [17] – North Channel ON

*It's Time to Make a "Radon" the Basements*

---

**Mike Bao** [18], **Allan Kang** [16] – Edmonton AB

*MMM: Manoeuvring Metastatic Melanoma*

---

**Tony Kwon** [16] – London District ON

*Garlic-Induced Gene Expression Changes in Streptococcus pyogenes Predict a*

---

**Roopa Suppiah** [17] – Renfrew County ON

*Closing-in on Fuel Cells*

---

**Bryan Hatton** [16], **Eddie Kim** [16] – Waterloo-Wellington ON

*Watching Evolution*

---

**Steven Zhu** [17] – Greater Vancouver BC

*Fabulous Fiddleheads*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### UBC Science (Vancouver) Entrance Award

##### Senior Silver Medallist - \$2000 Entrance Scholarship

Sponsor: The University of British Columbia (Vancouver)

A UBC entrance scholarship of \$4,000 is offered to each gold medal winning senior finalist in the following seven divisions: Biotechnology, Computing & Information Technology, Earth & Environmental Sciences, Environmental Innovation, Health Sciences, Life Sciences, and Physical & Mathematical Sciences. A \$2,000 UBC entrance scholarship is offered to each silver medal winning senior finalist in the same seven divisions.

---

**Erin Baker** [17] – Eastern Newfoundland NL

*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*

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**Alyssa Moss** [17] – Cape Breton NS

*Winds of Change*

---

**Roland Troke-Barriault** [16] – Conseil scolaire acadien provincial (CSAP) NS

*Le bonheur du bruit: Quelles fréquences pour la croissance*

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**Sarah Langer** [17] – Peterborough ON

*A Model for Human Decomposition in Fresh Water and Salt Water*

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**Sapna Shah** [17] – York ON

*Potential Use of Microencapsulated Live Yeast Cells in Treating Kidney Failure*

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*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

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*Grasping Water*

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**Jean-Olivier Lambert** [18] – Timmins ON

*MagnaVert*

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**Rami Sayar** [18] – Montreal QC

*Touchless Computing*

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**Jason Lin** [17], **Manuel Ung** [17] – Greater Vancouver BC

*A Different Look at Perceptrons*

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**Alexandre Allard** [17], **Danny Luong** [18] – Québec et Chaudière-Appalaches QC

*Le caoutchouc au bon goût*

---

**Forson Chan** [18] – Greater Vancouver BC

*Suramin, Congo Red, and Antibiotic Resisance*

---

#### Dalhousie University Faculty of Science Entrance Scholarship

##### Senior Gold Medallist - \$4000 Entrance Scholarship

Sponsor: Dalhousie University

A Dalhousie University Faculty of Science entrance scholarship of \$4,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,000 is offered to each silver medal winning senior finalist.

---

**Tegan Wiebe** [17] – North Channel ON

*It's Time to Make a "Radon" the Basements*

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*MMM: Manoeuvring Metastatic Melanoma*

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*Garlic-Induced Gene Expression Changes in *Streptococcus pyogenes* Predict a*

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**Sébastien Chénier** [17] – Outaouais QC

*Le moteur de Dame Nature*



# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



---

**Victor Kloeze** [18] – Avon Maitland-Huron Perth ON  
*Goderich Sustainable Home*

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*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

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**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

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**Bryan Hatton** [16], **Eddie Kim** [16] – Waterloo-Wellington ON  
*Watching Evolution*

---

**Steven Zhu** [17] – Greater Vancouver BC  
*Fabulous Fiddleheads*

---

#### Dalhousie University Faculty of Science Entrance Scholarship

##### Senior Silver Medallist - \$2000 Entrance Scholarship

Sponsor: Dalhousie University

A Dalhousie University Faculty of Science entrance scholarship of \$4,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,000 is offered to each silver medal winning senior finalist.

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*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*

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**Alyssa Moss** [17] – Cape Breton NS  
*Winds of Change*

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**Roland Troke-Barriault** [16] – Conseil scolaire acadien provincial (CSAP) NS  
*Le bonheur du bruit: Quelles fréquences pour la croissance*

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**Sapna Shah** [17] – York ON  
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**Caitlin Martin Newnham** [18] – London District ON  
*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

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**Ryan Peng** [17] – Saskatoon SK  
*High Speed Flash Exposure with Compact Digital Cameras*

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*Dynamic Photovoltaics - The Sustainable SolArray*

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**Jordan Brears** [18], **David Skibinsky** [18] – Regina SK  
*Stirling Engine: Thinking Outside the Gas Pump*

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**Roopa Suppiah** [17] – Renfrew County ON  
*Closing-in on Fuel Cells*

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*MagnaVert*

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**Adam Bennett** [16] – Rideau-St. Lawrence ON  
*Using Genetic Algorithms to Solve the Traveling Salesman Problem*

---

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*Touchless Computing*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Jason Lin [17], Manuel Ung [17]** – Greater Vancouver BC  
*A Different Look at Perceptrons*

---

**Alexandre Allard [17], Danny Luong [18]** – Québec et Chaudière-Appalaches QC  
*Le caoutchouc au bon goût*

---

**Forson Chan [18]** – Greater Vancouver BC  
*Suramin, Congo Red, and Antibiotic Resisance*

---

#### Gold Medal - International

Sponsor: Youth Science Canada  
Medal and a certificate

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**Ya-Chen Lin [18], Shanice Wu [18]** – Taiwan, R.O.C.  
*Synthesis, Reactivity and Recycling of the Organic-inorganic catalyst*

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#### Petro-Canada Peer Innovation Award - Senior

##### Atlantic

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

---

**Erin Baker [17]** – Eastern Newfoundland NL  
*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*

---

#### Petro-Canada Peer Innovation Award - Senior

##### Québec

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

---

**Rami Sayar [18]** – Montreal QC  
*Touchless Computing*

---

#### Petro-Canada Peer Innovation Award - Senior

##### Ontario North & East

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Jean-Olivier Lambert [18]** – Timmins ON  
*MagnaVert*

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#### Petro-Canada Peer Innovation Award - Senior

##### Ontario South

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Sofia Oke [16], Noorain Shethwala [16]** – Waterloo-Wellington ON  
*Chemotherapy Drugs: Less is More*

---

#### Petro-Canada Peer Innovation Award - Senior

##### Central Canada

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Lauren Gamble [18]** – Regina SK  
*H2O Running Your Home*

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#### Petro-Canada Peer Innovation Award - Senior

##### Western Canada

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Forson Chan [18]** – Greater Vancouver BC  
*Suramin, Congo Red, and Antibiotic Resisance*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### Petro-Canada Peer Innovation Award - Intermediate

##### Atlantic

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Brandon Verboom** [16] – Chignecto Central West NS

*Cow Power*

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#### Petro-Canada Peer Innovation Award - Intermediate

##### Québec

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

---

**Marc-Antoine Pigeon** [15] – Québec et Chaudière-Appalaches QC

*La circulation extracorporelle*

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#### Petro-Canada Peer Innovation Award - Intermediate

##### Ontario North & East

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Justin Li** [14], **Sandro Young** [15] – Ottawa ON

*Wireless Power II: Characterizing Magnetically Coupled Fields*

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#### Petro-Canada Peer Innovation Award - Intermediate

##### Ontario South

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Stephanie Gaglione** [14] – Toronto ON

*Disappearing Oil: Enhanced Bioremediation of Oil-Contaminated Soil in Bioreactors*

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#### Petro-Canada Peer Innovation Award - Intermediate

##### Central Canada

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Ragnar Robinson** [16] – Northern Saskatchewan SK

*Properties of Wood Phase Two*

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#### Petro-Canada Peer Innovation Award - Intermediate

##### Western Canada

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Jessica Zhang** [14] – Greater Vancouver BC

*A Fruity Attack on the Vicious Lung Carcinomas*

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#### Petro-Canada Peer Innovation Award - Junior

##### Atlantic

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Hannah Wallace** [10] – Fundy NB

*Comfortable Toes for the Ballerina / Les Orteils Confortable pour la Danseuse*

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#### Petro-Canada Peer Innovation Award - Junior

##### Québec

Sponsor: Petro-Canada  
\$200 cash & certificate per geographic zone

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**Émile Jodoin** [14], **Pierre Watine** [13] – Montréal CLS QC

*L'électroaimant vous attire ?*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### Petro-Canada Peer Innovation Award - Junior

##### Ontario North & East

Sponsor: Petro-Canada

\$200 cash & certificate per geographic zone

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**Kayleigh Ng** [13] – Rideau-St. Lawrence ON

*Bristle Busters*

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#### Petro-Canada Peer Innovation Award - Junior

##### Ontario South

Sponsor: Petro-Canada

\$200 cash & certificate per geographic zone

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**Adelina Corina Cozma** [13] – York ON

*Growing Up Emotionally Smart*

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#### Petro-Canada Peer Innovation Award - Junior

##### Central Canada

Sponsor: Petro-Canada

\$200 cash & certificate per geographic zone

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**Julia Starko** [12] – Western Manitoba MB

*Let The Sun Shine*

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#### Petro-Canada Peer Innovation Award - Junior

##### Western Canada

Sponsor: Petro-Canada

\$200 cash & certificate per geographic zone

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**Emily Tomaszewski** [12] – Central Okanagan BC

*Bake Mistake*

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#### University of Ottawa Undergraduate Research Scholarship Award

Sponsor: University of Ottawa, Faculty of Science

The recipient will work with scientists and take part in important scientific discoveries during two consecutive summers. In the summer preceding the first year of studies in an undergraduate program at the Faculty of Science, University of Ottawa, the recipient will earn \$3,750 as a research assistant to one of the world-class professors. If the recipient is successful in his/her first year of studies, the research experience will be extended to a second summer during which he/she will earn \$6,250.

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**Alexandre Allard** [17], **Danny Luong** [18] – Québec et Chaudière-Appalaches QC

*Le caoutchouc au bon goût*

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#### Statistical Society of Canada Award

Sponsor: Statistical Society of Canada

\$1000 cash & certificate

---

**Steven Zhu** [17] – Greater Vancouver BC

*Fabulous Fiddleheads*

---

#### Renewable Energy Award

##### Senior

Sponsor: Ontario Power Generation

\$1000 cash & certificate

---

**Ghufran Siddiqui** [16] – Lambton County ON

*BioHydrogen*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### Renewable Energy Award

##### Intermediate

Sponsor: Ontario Power Generation  
\$750 cash & certificate

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**Victoria-Marie Cusson** [15] – Ottawa ON

*La transformation écologique des déchets ménagers organiques en bioéthanol*

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#### Renewable Energy Award

##### Junior

Sponsor: Ontario Power Generation  
\$500 cash & certificate

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**Lauren Reid** [13] – Durham ON

*Innovative, Trailing Edge Winglet: Bent. Broken. Better!*

---

#### The Manning Innovation Achievement Award

Sponsor: Ernest C. Manning Awards Foundation

Eight projects will each receive a \$500 cash award. Four of these Manning Innovation Achievement Award winners will also be announced as winners of \$4000 Manning Young Canadian Innovation Awards (to be presented at a later date).

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**Mengqi Wang** [18], **Julie Xu** [17] – Calgary Youth AB

*Co-culture of Pseudomonas and Prevotella in Agar Beads*

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**Supritha Nilam** [16] – Niagara ON

*Anti-Oxidants and Plant Dynamics Part II: From Lab to Land*

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**Mike Bao** [18], **Allan Kang** [16] – Edmonton AB

*MMM: Manoeuvring Metastatic Melanoma*

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**Caitlin Martin Newnham** [18] – London District ON

*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

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**Linda Liu** [18] – Greater Vancouver BC

*Rhubarb to the Rescue!*

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**Ryan Peng** [17] – Saskatoon SK

*High Speed Flash Exposure with Compact Digital Cameras*

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**Hillary Dawkins** [16], **Susie Pan** [16] – Waterloo-Wellington ON

*Extending the Operational Lifespan of Dye Sensitized Solar Cells*

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**Mary Zhao** [17] – Greater Vancouver BC

*Grasping Water*

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#### The Manning Innovation Achievement Award and \$4000 Manning Young Canadian Innovation Award

Sponsor: Ernest C. Manning Awards Foundation

Eight projects will each receive a \$500 cash award. Four of these Manning Innovation Achievement Award winners will also be announced as winners of \$4000 Manning Young Canadian Innovation Awards (to be presented at a later date).

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**Mengqi Wang** [18], **Julie Xu** [17] – Calgary Youth AB

*Co-culture of Pseudomonas and Prevotella in Agar Beads*

---

**Supritha Nilam** [16] – Niagara ON

*Anti-Oxidants and Plant Dynamics Part II: From Lab to Land*

---

**Caitlin Martin Newnham** [18] – London District ON

*Capsaicin Admixture Found to Ease Initial Pain Using a Novel Invertebrate Model*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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**Ryan Peng** [17] – Saskatoon SK  
*High Speed Flash Exposure with Compact Digital Cameras*

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#### International Summer School for Young Physicists Award

Sponsor: Perimeter Institute for Theoretical Physics  
The award consists of a full scholarship to participate in the International Summer School for Young Physicists 2009 (ISSYP 2009), an intensive two week enrichment program that will introduce students to the fascinating picture of our universe as seen through the eyes of contemporary physicists: from the bizarre quantum world of atoms and subatomic particles to black holes, warped spacetime and the expanding universe. Students will also interact with professional physicists at Perimeter Institute in small group mentoring sessions, participate in field trips to interesting science related destinations in the region and forge new friendships with like minded young people from around the world. The scholarship includes room and board and travel expenses to and from the Institute. Total value \$2500.

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**Laurel Stothers** [17] – South Fraser BC  
*From the Bottom Up: Self-Assembly by Lateral Capillary Forces*

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#### Engineers Without Borders - Canada Award

Sponsor: Engineers Without Borders - Canada  
One all-expense-paid trip (including travel, accommodation, meals, and incidental costs) to participate in the annual Engineers Without Borders - Canada National Conference, usually in January. Total value \$1500.

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**Kimberly Gulevich** [16] – Northern British Columbia BC  
*Got Gas?*

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#### Dr. Michael Smith Innovation Award

**Intermediate**  
Sponsor: Youth Science Canada  
\$750 cash & certificate

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**Caroline Foody** [14] – Ottawa ON  
*The Medium Rare Hamburger: An E. coli Sandwich?*

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#### Dr. Michael Smith Innovation Award

**Junior**  
Sponsor: Youth Science Canada  
\$500 cash & certificate

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**Charlie Sobcov** [13] – Ottawa ON  
*Saving the Birds, One Window at a Time*

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#### Canadian Stockholm Junior Water Prize

Sponsor: Canadian Water Environment Associations (ACWWA, BCWWA, WEAO, Réseau Environnement, WCWEA)  
One all expense paid trip to Stockholm, Sweden, August 16–22, 2009, for one student to represent Canada at the International Stockholm Junior Water Prize Competition. Up to three projects selected at the CWSF will be invited to submit an essay summary of their projects. One winner will then be chosen to represent Canada at the Stockholm Junior Water Prize Competition. The two-runners-up will each receive a \$300 cash prize.

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**Bindu Kovvuru** [17] – Niagara ON  
*Phytoremediation: using Geraniums as hyperaccumulators in phytoextracting lead*

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**Tevy Chan** [16], **Abitamy Yogeswaran** [17] – Montréal CLS QC  
*Les bactéries magnétotactiques*

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**Mary Zhao** [17] – Greater Vancouver BC  
*Grasping Water*

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# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### The Canadian Society for the Weizmann Institute of Science Scholarships

##### Joseph W. and Joel Anthony Leon Kerbel Scholarship

Sponsor: The Canadian Society for the Weizmann Institute of Science (Weizmann Science Canada)

Each scholarship provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare (Toronto – Israel – Toronto). The dates of the Weizmann summer science program are July 5–August 2, 2009. Total scholarship value \$8,000.

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**Jean-Olivier Lambert** [18] – Timmins ON

*MagnaVert*

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#### The Canadian Society for the Weizmann Institute of Science Scholarships

##### The Maurice Pollack Foundation Scholarship

Sponsor: The Canadian Society for the Weizmann Institute of Science (Weizmann Science Canada)

Each scholarship provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare (Toronto – Israel – Toronto). The dates of the Weizmann summer science program are July 5–August 2, 2009. Total scholarship value \$8,000.

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**Leah Natalie Rosetti** [17] – Niagara ON

*Designing a Novel SAM Mimic as an Inhibitor of AHL Synthase*

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#### Canadian Commission for UNESCO - Science for Peace and Development (MILSET ESI) Award

Sponsor: Canadian Commission for UNESCO

The winner will participate in Expo-Sciences Internationale (ESI), a non-competitive international science fair organized by the International Movement for Leisure Activities in Science and Technology (MILSET - French acronym), to be held July 23-28, 2009 in Tunis, Tunisia, and will receive a certificate. Total value \$5000.

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**Corey Harrison** [17] – St. James-Assiniboia MB

*Utilizing Wind and Solar Energy*

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#### Canadian Acoustical Association Award

Sponsor: Canadian Acoustical Association

\$1000 cash & certificate plus subscription to the Canadian Acoustical Association's quarterly journal

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**Roland Troke-Barriault** [16] – Conseil scolaire acadien provincial (CSAP) NS

*Le bonheur du bruit: Quelles fréquences pour la croissance*

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#### Award for Excellence in Astronomy

##### Intermediate

Sponsor: Royal Astronomical Society of Canada

\$750 cash & certificate plus a one year membership to RASC

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**Timothy Carlielle-Shaw** [14] – Central Alberta AB

*Annular Wings vs Straight Wings*

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#### Award for Excellence in Astronomy

##### Junior

Sponsor: Royal Astronomical Society of Canada

\$500 cash & certificate plus a one year membership to RASC

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**Johanne Jensen-LeBlanc** [13] – Central Interior British Columbia BC

*CBMeteor Radio II*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### Australian National Youth Science Forum Award

Sponsor: National Youth Science Forum Australia

The Australian delegation to the CWSF selects one or two grade 10/secondary IV Canadian finalists to invite to the 12-day National Youth Science Forum (NYSF) at the Australian National University in Canberra in January 2010. All expenses within Australia are covered by the NYSF, but as part of the program, participants are expected to raise the funds to cover their travel. The NYSF focuses on encouraging the achievement of excellence and the development of communication and interpersonal skills for careers in science, engineering and technology. It also fosters discussion of and interest in major national and global issues and emphasizes the importance of maintaining continuing active interests in sport, arts and music.

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**Kyle Schole** [15] – Edmonton AB

*More to Light Than Meets the Eye Phase III*

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**Alexandra Fournier Gonthier** [16] – Est du Québec QC

*Souris sans carie !*

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**Sathya Baskaran** [15] – Ottawa ON

*Overcoming Spinal Cord Injuries*

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#### The Actuarial Foundation of Canada Award

##### Senior

Sponsor: The Actuarial Foundation of Canada

\$1000 cash & certificate

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**Jean-Olivier Lambert** [18] – Timmins ON

*MagnaVert*

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**Bryan Hatton** [16], **Eddie Kim** [16] – Waterloo-Wellington ON

*Watching Evolution*

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#### The Actuarial Foundation of Canada Award

##### Intermediate

Sponsor: The Actuarial Foundation of Canada

\$750 cash & certificate

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**François-Guillaume Landry** [15] – Chaleur NB

*Une antenne relais qui rassure!*

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**Shannon Ball** [14] – Manitoba Schools Science Symposium MB

*It's "In" Lightning*

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#### The Actuarial Foundation of Canada Award

##### Junior

Sponsor: The Actuarial Foundation of Canada

\$500 cash & certificate

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**Claire Longcroft** [13] – Greater Vancouver BC

*Driven to Distraction - The Effect of Talking and Texting on*

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**Jordan Ho** [12] – Toronto ON

*More Solar Power*

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#### S.M. Blair Family Foundation Award

##### Senior

Sponsor: S.M. Blair Family Foundation

\$1000 cash & certificate

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**Gary Kurek** [17] – Edmonton AB

*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*



# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### S.M. Blair Family Foundation Award

##### Intermediate

Sponsor: S.M. Blair Family Foundation  
\$750 cash & certificate

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**Brian Larson** [14] – Alberta Central East AB

*SafeD Pet Solutions*

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#### S.M. Blair Family Foundation Award

##### Junior

Sponsor: S.M. Blair Family Foundation  
\$500 cash & certificate

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**Justin Halldorson** [14] – Parkland SK

*Extenda-Spray*

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#### Discovery Channel Math Award

Sponsor: Discovery Channel  
\$750 cash & certificate

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**Mark Bezdek** [15] – Calgary Youth AB

*Floodlight Illumination*

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#### CSSE Engineering Innovation Award

##### Senior

Sponsor: Canadian Society for Senior Engineers  
\$1000 cash & certificate

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**Gary Kurek** [17] – Edmonton AB

*Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency*

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#### CSSE Engineering Innovation Award

##### Junior

Sponsor: Canadian Society for Senior Engineers  
\$500 cash & certificate

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**Adrienne Kay Morgan** [14] – Frontenac, Lennox & Addington ON

*Just Add Water*

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#### Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel  
\$500 cash & certificate

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**David Lister** [14] – Yukon/Stikine YT

*Electricity From The Waste Heat of An Engine*

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#### CAP Physics Prize

Sponsor: Canadian Association of Physicists  
\$1000 cash & certificate.

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**Tegan Wiebe** [17] – North Channel ON

*It's Time to Make a "Radon" the Basements*

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#### Canadian Society for Medical Laboratory Science Award

Sponsor: Canadian Society for Medical Laboratory Science  
\$750 cash & certificate

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**Perri Tutelman** [15] – Greater Vancouver BC

*Cancer-Killing Combinations*

# Award Recipients

## Canada-Wide Science Fair 2009

### Winnipeg, Manitoba



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#### Canadian Mathematical Society Award

Sponsor: Canadian Mathematical Society  
\$1000 cash & certificate

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**Erin Baker** [17] – Eastern Newfoundland NL

*Get Bent: How Black Holes Bend Spacetime and the Minds of Modern Physicists*