

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### EnCana Best in Fair Award

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

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**Justin Whitaker** [19] – Quinte ON  
*Bio-Binding: A Microbial Precipit-Action*

---

#### EnCana Platinum Award - Best Senior Project

Sponsor: EnCana Corporation  
Award, \$5000 cash

---

**Justin Whitaker** [19] – Quinte ON  
*Bio-Binding: A Microbial Precipit-Action*

---

#### EnCana Platinum Award - Best Intermediate Project

Sponsor: EnCana Corporation  
Award, \$5000 cash

---

**Sandro Young** [16] – Ottawa ON  
*Avatouch: A 3D Computing User Interface*

---

#### EnCana Platinum Award - Best Junior Project

Sponsor: EnCana Corporation  
Award, \$5000 cash

---

**Mikaela Preston** [13] – York ON  
*Algae into Biofuel: A study of interaction between two species*

---

#### Gold Medal - Physical & Mathematical Sciences

##### Junior

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

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**Kiri Daust** [12] – Pacific Northwest BC  
*Making a Splash: The Importance of Shape and Size*

---

#### Gold Medal - Physical & Mathematical Sciences

##### Intermediate

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

---

**Sarah Battat** [14] – Montreal QC  
*Polarization: Ray Ray Go Away*

---

#### Gold Medal - Physical & Mathematical Sciences

##### Senior

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

---

**Jordan Wentzell** [15] – Northwestern Ontario ON  
*Carbon Conquered by Sea, Salt, and Sun*

---

#### Gold Medal - Life Sciences

##### Junior

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

---

**Indranil Balki** [13] – Peel ON  
*More Than Mere Taste*

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## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### Gold Medal - Life Sciences

##### Intermediate

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

---

**Jessie MacAlpine** [14] – London District ON  
*Effect of CO2 on chronic cold tolerance and fertility in Drosophila melanogaster*

---

#### Gold Medal - Life Sciences

##### Senior

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

---

**Elise Tessier** [18] – Annapolis Valley NS  
*Can Stress Bring Out The Best?*

---

#### Gold Medal - Health Sciences

##### Junior

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

---

**Kathryn Bowers** [13] – Eastern Newfoundland NL  
*A Thumb Generation*

---

#### Gold Medal - Health Sciences

##### Intermediate

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

---

**Abicumaran Uthamacumaran** [16] – Montreal QC  
*Kicking Cancer With KAI-1*

---

#### Gold Medal - Health Sciences

##### Senior

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

---

**Alyson Bell** [16] – Peterborough ON  
*Another Tale My Grandfather Told Me*

---

#### Gold Medal - Environmental Innovation

##### Junior

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

---

**Hayley Todesco** [13] – Calgary Youth AB  
*Sunny Dye-Light: Dye-Sensitized Solar Cells*

---

#### Gold Medal - Environmental Innovation

##### Intermediate

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

---

**Rebecca Sandrelli** [15] – Renfrew County ON  
*A Floral Solution to Pollution*

---

#### Gold Medal - Environmental Innovation

##### Senior

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

---

**Kyle Schole** [16] – Edmonton AB  
*Microbial Degradation of Vehicle Tires*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### Gold Medal - Engineering

##### Junior

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

---

**Patrick Chong** [13] – Bay Area ON  
*Brain Drain*

---

#### Gold Medal - Engineering

##### Intermediate

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

---

**Chantal Surette** [15] – Conseil scolaire acadien provincial (CSAP) NS  
*L'appareil orque - une nouvelle façon de capter l'énergie dans les vagues*

---

#### Gold Medal - Engineering

##### Senior

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

---

**Mackenzie Carter** [18] – Waterloo-Wellington ON  
*STOL 'n Lift*

---

#### Gold Medal - Earth & Environmental Sciences

##### Junior

Sponsor: Suncor Energy Inc.  
Medal, \$1500 cash & certificate

---

**Danielle Hussain** [14] – Montreal QC  
*Oil After Breakfast*

---

#### Gold Medal - Earth & Environmental Sciences

##### Intermediate

Sponsor: Suncor Energy Inc.  
Medal, \$1500 cash & certificate

---

**Bekir Buyukkocabas** [14] – Toronto ON  
*A Fuel of the Future*

---

#### Gold Medal - Earth & Environmental Sciences

##### Senior

Sponsor: Suncor Energy Inc.  
Medal, \$1500 cash & certificate

---

**Justin Whitaker** [19] – Quinte ON  
*Bio-Binding: A Microbial Precipit-Action*

---

#### Gold Medal - Computing & Information Technology

##### Junior

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

---

**Melissa Chopcian** [13] – Lambton County ON  
*A computer Input Innovation for People with Parkinson's Disease*

---

#### Gold Medal - Computing & Information Technology

##### Intermediate

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

---

**Sandro Young** [16] – Ottawa ON  
*Avatouch: A 3D Computing User Interface*

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## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### Gold Medal - Computing & Information Technology

##### Senior

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

---

**Arash Marzi** [16] – Strait NS

*Achieving Copenhagen's International CO2 Targets with a Bees Inspired OA & ANNs*

---

#### Gold Medal - Biotechnology & Pharmaceutical Sciences

##### Junior

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

---

**Mikaela Preston** [13] – York ON

*Algae into Biofuel: A study of interaction between two species*

---

#### Gold Medal - Biotechnology & Pharmaceutical Sciences

##### Intermediate

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

---

**Linda Wei** [15] – Greater Vancouver BC

*The Anti-Tumor Triad*

---

#### Gold Medal - Biotechnology & Pharmaceutical Sciences

##### Senior

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

---

**Amit Persad** [17], **Xinran (Hannah) Yu** [16] – Edmonton AB

*PTEN: Halting Progression of Metastatic Melanoma*

---

#### Gold Medal - Automotive

##### Junior

Sponsor: AUTO21  
Medal, \$1500 cash & certificate

---

**Jamil Merali** [12] – North Bay ON

*Why did the Moose Cross the Road?*

---

#### Silver Medal - Physical & Mathematical Sciences

##### Junior

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

---

**Loral Christie** [12] – Bluewater ON

*The Brightest Path*

---

**Rylen de Vries** [13] – Winnipeg Schools MB

*Jump To It! Force and Stress During Take-Offs in Figure Skating*

---

#### Silver Medal - Physical & Mathematical Sciences

##### Intermediate

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

---

**Shannon Ball** [15] – Manitoba Schools Science Symposium MB

*Taking the "Pulse" of the Value People Add to Forecasting Using Lightning Dat*

---

**Robert Barrett** [15] – Cape Breton NS

*Knock Out: Momentum of a Kick Boxers Punch*

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#### Silver Medal - Physical & Mathematical Sciences

##### Senior

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

---

**Cody Shaw** [16] – Manitoba Schools Science Symposium MB  
*Phononic Crystals: Revisited*

---

**Laurel Stothers** [18] – South Fraser BC  
*From the Bottom Up: Self-Assembly by Lateral Capillary Forces II*

---

#### Silver Medal - Life Sciences

##### Junior

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

---

**Brittany Vandenberg** [12] – Ottawa ON  
*The Relative Age Effect*

---

**Danila Alferov** [12] – London District ON  
*From 3D to UBP Unidentified Brain Power*

---

#### Silver Medal - Life Sciences

##### Intermediate

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

---

**Sarah Lussier** [16] – Montérégie QC  
*Fraises et huile d'origan*

---

**Sabrina Bouchard** [16], **Geneviève Larivée** [15] – Estrie QC  
*Ayons la foi, aidons le foie!*

---

#### Silver Medal - Life Sciences

##### Senior

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

---

**Ria Van der Linden** [18] – Strait NS  
*Fledglings and Fleas*

---

**Oliver Jourmel** [15] – Vancouver Island BC  
*Evaluating the Effects of the Retention Properties of Charcoal on Plant Growth*

---

#### Silver Medal - Health Sciences

##### Junior

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

---

**Lauren Andersen** [13], **Fiona Weaver** [12] – East Parry Sound ON  
*Bugs in a Bag*

---

**Drew Swan** [14] – Central Okanagan BC  
*Reader Beware*

---

#### Silver Medal - Health Sciences

##### Intermediate

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

---

**Julia Goyal** [15], **Bryon Leung** [15] – Toronto ON  
*Rot or Not: Studies of the Dental Effects of Acid and Sugar in Soft Drinks*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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**Grace Wang** [16] – London District ON  
*Discovering ERK5's Role in Inhibiting Breast Cancer Cell Migration and Invasion*

---

#### Silver Medal - Health Sciences

##### Senior

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

---

**Natalie Fisher** [17] – Chignecto Central West NS  
*Is Its Bark Worse Than Its Bite?*

---

**Tony Kwon** [17] – London District ON  
*Allium sativum as a Potential Antimicrobial against Group A Streptococcal Infect*

---

#### Silver Medal - Environmental Innovation

##### Junior

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

---

**Lauren Reid** [14] – Durham ON  
*Stagnation Point Para Foil: An Innovation*

---

**Syed Kamran** [13] – Peel ON  
*Nuclear Steam Waste, Reused!*

---

#### Silver Medal - Environmental Innovation

##### Intermediate

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

---

**Kelcie Miller-Anderson** [15] – Calgary Youth AB  
*Phytoremediation of the Oil Sands*

---

**Arctica Cunningham** [14] – Pacific Northwest BC  
*Water Reuse = Water To Use*

---

#### Silver Medal - Environmental Innovation

##### Senior

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

---

**Kimia Sorouri** [16] – Peel ON  
*Bio-Not-Diesel: Algae Invasion*

---

**Elijah Linklater** [18] – Manitoba First Nations MB  
*Oil Spill Clean UP - The Natural Way*

---

#### Silver Medal - Engineering

##### Junior

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

---

**Noah Bayless** [14], **Sam Harrison** [13] – Greater Vancouver BC  
*A Helping Hand*

---

**Duncan Stothers** [12] – Greater Vancouver BC  
*Packing Pyramids*

---

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#### Silver Medal - Engineering

##### Intermediate

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

---

**Ramaneek Gill** [16] – Peel ON  
*The Innovative Computer Mouse*

---

**Joy Liu** [15] – Bay Area ON  
*A New Focus: Reflecting Towards Higher Power Output of Photovoltaics*

---

#### Silver Medal - Engineering

##### Senior

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

---

**Eddy Fortier** [17] – Estrie QC  
*L'Xtraction aid*

---

**Jarika Penny** [18], **Erick Vandenhurk** [18] – Southeast Saskatchewan SK  
*Don't Flip Your Lid*

---

#### Silver Medal - Earth & Environmental Sciences

##### Junior

Sponsor: Suncor Energy Inc.  
Medal, \$700 cash & certificate

---

**Sonia Stewart** [13] – South Fraser BC  
*Which laundry cleaner is greener?*

---

**Lexie Penny** [14] – Niagara ON  
*Local Environmental Impacts on the Water Quality of Forty-Mile Creek in Grimsby*

---

#### Silver Medal - Earth & Environmental Sciences

##### Intermediate

Sponsor: Suncor Energy Inc.  
Medal, \$700 cash & certificate

---

**Bernadette Weaver** [14] – East Parry Sound ON  
*Working Overtime*

---

**Kelsey Keddy** [15] – Conseil scolaire acadien provincial (CSAP) NS  
*Augmenter l'énergie potentielle du moteur à combustion*

---

#### Silver Medal - Earth & Environmental Sciences

##### Senior

Sponsor: Suncor Energy Inc.  
Medal, \$700 cash & certificate

---

**Joël Fillion** [19], **Nicholas Rompré St-Yves** [18] – Québec et Chaudière-Appalaches QC  
*Système de captation du CO2*

---

**Lainey Lazurko** [17] – Northern Saskatchewan SK  
*Follow the Flow*

---

#### Silver Medal - Computing & Information Technology

##### Junior

Sponsor: Intel of Canada  
Medal, \$700 cash & certificate

---

**Alex Ianta** [13] – Chignecto East NS  
*Semantic Genie*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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**Justine Williams** [14] – Bay Area ON  
*What's Your Password?*

---

#### Silver Medal - Computing & Information Technology

##### Intermediate

Sponsor: Intel of Canada  
Medal, \$700 cash & certificate

---

**Antoine Proulx** [14] – Montérégie QC  
*Méfiez-vous, on vous surveille*

---

**Hannah Gillis** [15] – Strait NS  
*Emergency Measure Access Plans; EMAP*

---

#### Silver Medal - Computing & Information Technology

##### Senior

Sponsor: Intel of Canada  
Medal, \$700 cash & certificate

---

**Evan Andersen** [16] – Simcoe County ON  
*Your Privacy: Now in Range A Project on Radio Frequency Identification*

---

**Tim Cooper** [17] – Annapolis Valley NS  
*swn: a multi-purpose scripting language*

---

#### Silver Medal - Biotechnology & Pharmaceutical Sciences

##### Junior

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

---

**Gazal Grewal** [13], **Chrissy Roopnarine** [14] – Peel ON  
*Fighting BAC!*

---

**Naima Raza** [13] – Lambton County ON  
*Substrate Effectiveness in Microbial Fuel Cells*

---

#### Silver Medal - Biotechnology & Pharmaceutical Sciences

##### Intermediate

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

---

**Delphine Martineau-Côté** [16], **Fanny Vermandele** [16] – Québec et Chaudière-Appalaches QC  
*Le plein: avec ou sans pulpe?*

---

**Prakriti Pratijit** [13], **Pranay Pratijit** [15] – Saskatoon SK  
*Novel Proteinaceous Compounds as Disease Determinants in *Ascochyta rabiei* - chic*

---

#### Silver Medal - Biotechnology & Pharmaceutical Sciences

##### Senior

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

---

**Adrian Peter Howie** [17] – Halifax NS  
*Arctic-Ceuticals*

---

**Alexandre Allard** [18], **Danny Luong** [19] – Québec et Chaudière-Appalaches QC  
*Armes à dégradation massive*



# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### Silver Medal - Automotive

##### Junior

Sponsor: AUTO21

Medal, \$700 cash & certificate

---

**Mollie Bianchi** [12] – Simcoe County ON  
*Automotive Wind Driven Generator*

---

**Cameron Hayley** [13] – Chinook Country AB  
*Drag Is A Real Drag*

---

#### Silver Medal - Automotive

##### Intermediate

Sponsor: AUTO21

Medal, \$700 cash & certificate

---

**Lindsay Dimler** [15] – Central Interior British Columbia BC  
*Solar Separation II: Enhanced Hydrogen Fuel Production*

---

#### Bronze Medal - Physical & Mathematical Sciences

##### Junior

Sponsor: EnCana Corporation

Medal, \$300 cash & certificate

---

**Reilly Lundrigan** [11] – Central Newfoundland NL  
*Let it Snow*

---

**Clément Ducellier** [14] – Ottawa ON  
*production propre d'hydrogène*

---

**Samantha Lawther** [13] – Prince Edward Island PE  
*Choisir la bonne balle de squash*

---

#### Bronze Medal - Physical & Mathematical Sciences

##### Intermediate

Sponsor: EnCana Corporation

Medal, \$300 cash & certificate

---

**Anna Gosine** [14] – Eastern Newfoundland NL  
*The Intelligibility of Sopranos' Vowels*

---

**Chloe Howe** [14] – Canadian Rockies AB  
*Homemade Electrophoresis*

---

**Colin Hooper** [15] – Cape Breton NS  
*Take A Bow*

---

#### Bronze Medal - Physical & Mathematical Sciences

##### Senior

Sponsor: EnCana Corporation

Medal, \$300 cash & certificate

---

**Robert Lin** [16], **Jenny Yao** [17] – Toronto ON  
*Charge It Up!*

---

**Darrick Lee** [16], **Owen Lu** [16] – Greater Vancouver BC  
*Power Generated from a Wind Turbine*

---

**Savannah Issaluk** [18] – Kivalliq NU  
*Size Does Matter: A Study of Qamutik Length*

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## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

#### Bronze Medal - Life Sciences

##### Junior

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

---

**Dominic Slivinski** [12] – Manitoba Schools Science Symposium MB  
*Super Stomata: Gas Exchange in Trees*

---

**Meagan Haugen-Koechl** [13] – Northern British Columbia BC  
*Pollen for the Pollinator*

---

**Varsha Jayasankar** [13] – Niagara ON  
*Holy Cali, Got Metal?*

---

#### Bronze Medal - Life Sciences

##### Intermediate

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

---

**Dominique Drouin-Moreland** [14] – Edmonton AB  
*Horse Hues*

---

**Travis Landry** [15] – South Shore NS  
*Blanding's: A Species at Risk*

---

**Shubham Talwar** [15] – Lethbridge AB  
*Hyper Heartbeat: Fertilizer Freakout*

---

#### Bronze Medal - Life Sciences

##### Senior

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

---

**Timour Igamberdiev** [17] – Eastern Newfoundland NL  
*Pyrophosphate - An Alternative Energy Source in Plants*

---

**Kurtis Turnbull** [18] – Chignecto East NS  
*A Radical Theory: Why Antioxidants May Not Always Be Good*

---

**Andrew Pearce** [18] – Fransaskoise SK  
*À la recherche d'ADN*

---

#### Bronze Medal - Health Sciences

##### Junior

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

---

**Hannah Martin** [12] – Chignecto East NS  
*Complaining About Training*

---

**Kevala Van Volkenburg** [13] – Northern British Columbia BC  
*Step It Up, Students*

---

**Alexander Weismann** [12] – River Valley NB  
*Le dilemme du prisonnier*

---

#### Bronze Medal - Health Sciences

##### Intermediate

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

---

**Zachary Rintoul** [15] – Central Okanagan BC  
*Does Nagging Help?*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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**Mitchell Hanna** [16] – Cape Breton NS  
*Max VO2 Versus Resting Heart Rate*

---

**Ashley Anderson** [14], **Forrest Tower** [15] – Central Interior British Columbia BC  
*Predicting Aggression Using Multiple Regression II*

---

#### Bronze Medal - Health Sciences

##### Senior

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

---

**Sofia Oke** [18], **Noorain Shethwala** [17] – Waterloo-Wellington ON  
*Chemosensitizers: The Answer to Cancer*

---

**Réda Bensaïdane** [17], **Alexandre Lemieux** [17] – Québec et Chaudière-Appalaches QC  
*Un traitement à ne pas oublier*

---

**Charles Yin** [17] – London District ON  
*Induction and detection of chemotatic protein S100A8 in RAW 264.7 cells*

---

#### Bronze Medal - Environmental Innovation

##### Junior

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

---

**Sruti Arulmani** [12] – Peel ON  
*Photoautotrophic Composite Based Nanocrystalline Solar Cells*

---

**Edward Wong** [12] – Cariboo Mainline BC  
*Get Into the Spirits*

---

**Alison Underwood** [13] – Avon Maitland-Huron Perth ON  
*A Concrete Solution*

---

#### Bronze Medal - Environmental Innovation

##### Intermediate

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

---

**Karl Zimmermann** [15] – Algoma Rotary ON  
*Can Hydrogen Peroxide Aid in the Efficiency of the Combustion of Ethanol?*

---

**Colin Roos** [15] – Sudbury ON  
*The Chlorofilter Phase 3*

---

**Youssef Hassanien** [15] – Northern Manitoba MB  
*Trienergy Vehicles- Ski-Seff*

---

#### Bronze Medal - Environmental Innovation

##### Senior

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

---

**Riviera Marshall** [18], **Alitta Sylliboy** [17] – Mi'kma'q First Nation NS  
*Invisible Plough*

---

**Amanda Gaudet** [17] – Fransaskoise SK  
*Un carburant alternatif 2e partie*

---

**Christine Leanne Dyck** [17], **Brittany Mathies** [17] – Saskatchewan Chinook SK  
*Go Green - Go Plastic*

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#### Bronze Medal - Engineering

##### Junior

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

---

**Jane Last** [14] – Parkland SK  
*The 'Moo-velous' Syringe Warmer*

---

**Kristina King** [13], **Kelsey Lapointe** [13] – Timmins ON  
*Skitasique*

---

**Calvin Rieder** [13] – Bay Area ON  
*Water, water, everywhere, Nor any drop to drink: Atmospheric Water Condensers*

---

#### Bronze Medal - Engineering

##### Intermediate

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

---

**Maxwell Poole** [14] – Tri-County NS  
*Reengineering LED Traffic Lights to Prevent Snow or Ice Buildup*

---

**Madison Ricard** [14] – Edmonton AB  
*From The Ground Up*

---

**Zeyu Liu** [14] – Calgary Youth AB  
*Working with Robots*

---

#### Bronze Medal - Engineering

##### Senior

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

---

**François-Guillaume Landry** [16] – Chaleur NB  
*Une antenne relais intelligente*

---

**Tarik Hadbi** [16], **Jeremy Moreau** [16] – Montréal CLS QC  
*Urbiboard: two wheeled future*

---

**Ilia Choly** [19], **David Irwin** [17] – Niagara ON  
*ACE (Autonomous Cooperative Exploration)*

---

#### Bronze Medal - Earth & Environmental Sciences

##### Junior

Sponsor: Suncor Energy Inc.  
Medal, \$300 cash & certificate

---

**Kelsey Kynoch** [14] – Cariboo Mainline BC  
*A Bug's Life: From Bad Oil to Good Soil*

---

**Dylan Kassian** [13] – Northern British Columbia BC  
*See O2 Effects*

---

**Olivier Cossette** [13] – Ottawa ON  
*Travaillons ensemble pour recycler sans gaspiller!*

---

#### Bronze Medal - Earth & Environmental Sciences

##### Intermediate

Sponsor: Suncor Energy Inc.  
Medal, \$300 cash & certificate

---

**Zach Elgood** [16] – Waterloo-Wellington ON  
*Methane Production and Removal in a Denitrifying Streambed*

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### Peterborough, Ontario



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**Stephanie Gaglione** [15] – York ON

*VeggiePanel: An Ultra-Light Green Roof Innovation for Urban Food Security and Wa*

---

**Adam Noble** [16] – Peterborough ON

*Euglena as an Indicator of Water Quality*

---

#### Bronze Medal - Earth & Environmental Sciences

##### Senior

Sponsor: Suncor Energy Inc.

Medal, \$300 cash & certificate

---

**Alexandre Richard** [18] – Abitibi-Témiscamingue QC

*Le canola, plante de l'avenir ?*

---

**Megan Schlorff** [17] – Bluewater ON

*Unearthing the Elements of Truth*

---

#### Bronze Medal - Computing & Information Technology

##### Junior

Sponsor: Intel of Canada

Medal, \$300 cash & certificate

---

**Rachel Watters** [13] – Beaufort-Delta NT

*Too Much Texting*

---

#### Bronze Medal - Computing & Information Technology

##### Intermediate

Sponsor: Intel of Canada

Medal, \$300 cash & certificate

---

**Kevin Lanthier** [15], **Éric Matte** [15] – Outaouais QC

*Frosted Link: Navigateur Web*

---

**Nicholas Johnston** [15] – South Fraser BC

*Testing Data Transfer over Plant Roots*

---

**Collin Fair** [15] – Central Alberta AB

*Enhancing Educational Resource Accessibility*

---

#### Bronze Medal - Biotechnology & Pharmaceutical Sciences

##### Junior

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Sarah Gullason** [13] – Northern British Columbia BC

*Stop the Drop*

---

**Julia Starko** [13] – Western Manitoba MB

*Vitamin D Gone Viral?*

---

**Joseph Gelowitz** [13] – Central Alberta AB

*Native Plant Decoctions*

---

#### Bronze Medal - Biotechnology & Pharmaceutical Sciences

##### Intermediate

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Taylor Lidster** [15] – Chatham-Kent ON

*Thérapie de choc*

---

**Allen Liu** [15] – Manitoba Schools Science Symposium MB

*Effects of the Brassica genes STM and CLV1 on Arabidopsis shoot organogenesis*

---

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Sarah Hyslop** [14] – Calgary Youth AB  
*Antibacterial Properties of Plant Oils*

---

#### **Bronze Medal - Biotechnology & Pharmaceutical Sciences**

##### **Senior**

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

---

**Michael Shao** [16], **Danielle Xu** [16] – Greater Vancouver BC  
*Cytotoxicity of Dandelion Extracts on Melanoma Cells*

---

**Neilloy Roy** [18] – Manitoba Schools Science Symposium MB  
*Production of RNA to Investigate the Mechanism of Viral Replication*

---

**Zahra Merali** [15] – North Bay ON  
*Diffusion Through Osseous Matter*

---

#### **Bronze Medal - Automotive**

##### **Junior**

Sponsor: AUTO21  
Medal, \$300 cash & certificate

---

**Nick Hayden** [13] – Yukon/Stikine YT  
*Aerodynamics of Transport Trucks II*

---

**Vito Zou** [14] – South Fraser BC  
*More Electricity for a Hybrid Car*

---

**Victor Ling** [13] – London District ON  
*Self-Driving, Accident-Free Car*

---

#### **Honourable Mention - Physical & Mathematical Sciences**

##### **Junior**

Sponsor: EnCana Corporation  
\$100 cash & Certificate

---

**Adrian Au** [12] – Rideau-St. Lawrence ON  
*Investigating Ice: A Slippery Subject*

---

**Bennett Stothers** [12] – Greater Vancouver BC  
*Emergency Preparedness hat*

---

**Peter Holland** [13] – Cape Breton NS  
*Get The Most Out Of Your Game*

---

**Meg Cumming** [12], **Breanna Gowe** [13] – Central Okanagan BC  
*Need 4 Speed*

---

**Sarah Kwajafa** [13], **Nicole Winters** [14] – Avon Maitland-Huron Perth ON  
*Get Smart About Smart Meters*

---

**Wei-Cheng Yeh** [13] – Fraser Valley BC  
*Electric Gun?*

---

#### **Honourable Mention - Physical & Mathematical Sciences**

##### **Intermediate**

Sponsor: EnCana Corporation  
\$100 cash & Certificate

---

**Jennifer Prior** [16] – Fraser Valley BC  
*Does the Ball Make a Difference?*

---

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Ally Burns [15], Chanice Hazlitt [16]** – Rideau-St. Lawrence ON  
*Light and Weight, How Do They Relate?*

---

**Chantal O'Neil [14]** – United Counties ON  
*C au max*

---

#### Honourable Mention - Life Sciences

##### Junior

Sponsor: Pfizer Canada  
\$100 cash & Certificate

---

**Maddie Trottier [13]** – North Channel ON  
*Wind Energy - Can it be Greener?*

---

**Roman Koszucki [13]** – Annapolis Valley NS  
*The Spill on Dawn*

---

**Emmanuelle Bérubé [13]** – Quinte ON  
*Comparing the Efficiency of Paper-Based and Computer-Based Approaches for*

---

#### Honourable Mention - Life Sciences

##### Senior

Sponsor: Pfizer Canada  
\$100 cash & Certificate

---

**Macall Robinson [19]** – Annapolis Valley NS  
*Carbon Counts*

---

**Ashley MacLean [17]** – Prince Edward Island PE  
*Effects Of Fertilizers On PEI Sweet Potatoes*

---

#### Honourable Mention - Health Sciences

##### Junior

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

---

**Matthew Yau [14]** – York ON  
*Building a Better Brain*

---

**Annie Marie Ross [13]** – St. James-Assiniboia MB  
*Peripheral Vision: What Can You See?*

---

**Madeline Stever [13]** – Peterborough ON  
*Sunscreen: The Good, The Bad, and The Metallic Taste in My Mouth.*

---

**Juliana Ali [13]** – Chignecto East NS  
*Let the "D" Shine In*

---

**Andrew Allen [13]** – Bay Area ON  
*The Effects of Multitasking on The Learning Process*

---

**Aisha Lillywhite [13]** – Chinook Country AB  
*Banishing the Bugs in Your Bottle*

---

#### Honourable Mention - Health Sciences

##### Intermediate

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

---

**Martine Simon [15]** – Montérégie QC  
*Une en-volley protégée*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Briony Rose Merritt** [14] – Halifax NS  
*Seeing Red: The Science Behind Colour in Marketing*

---

**Devka Andhotra** [14], **Manel Zeghal** [15] – Ottawa ON  
*Modelling Canadians' Lipid Profile Using Artificial Neural Networks*

---

#### Honourable Mention - Health Sciences

##### Senior

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

---

**Camille Salvat** [17], **Estelle Simon** [16] – Montérégie QC  
*Probiotiques sans frontières!*

---

**Emmanuel Fortier** [18], **Chloé Nadeau** [17] – Mauricie, Centre-du-Québec QC  
*HV: l'altitude à p'tit prix!*

---

**A-J Hutchings** [18] – Ottawa ON  
*The Efficacy of RA, PDGF, and BMP-4 to Instruct Adult NSPC Differentiation*

---

**Jennifer Mei Ling Campbell** [16] – Greater Vancouver BC  
*Sweet Poison: An evaluation of aspartame peptide bond stability and novel analogs*

---

**Bernadette Prettegiani** [17], **Rebecca Todesco** [15] – Calgary Youth AB  
*The Effect of Shiitake Mushroom Extract on Inflammation in the Colon*

---

#### Honourable Mention - Environmental Innovation

##### Junior

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

---

**Christine St-Pierre** [13] – Windsor ON  
*L'éoliopylône : une solution aux parcs éoliens*

---

**Raiden Cochrane** [12] – Manitoba First Nations MB  
*Squeaky Clean and Going Green*

---

#### Honourable Mention - Environmental Innovation

##### Intermediate

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

---

**Harshvardhan Pardeshi** [14] – Lambton County ON  
*Home Water Treatment Plant*

---

#### Honourable Mention - Engineering

##### Junior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Joseph Kim** [14] – Peel ON  
*Warehousing Made Safer With Automated Forklifts*

---

**Katherine Leach-Russo** [14] – Avon Maitland-Huron Perth ON  
*TextTubes*

---

**Alex Rhee** [13] – Peel ON  
*iCharge It, A Portable Electric Power Generator*



# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

#### Honourable Mention - Engineering

##### Intermediate

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Amélie Chiasson** [14] – Outaouais QC  
*L'hydrodynamique, influencé?*

---

**Yohan Lefol** [15] – Fransaskoise SK  
*Représentation robotisée du mouvement des ailes de la libellule*

---

#### Honourable Mention - Engineering

##### Senior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Nicholas Mani-Flower** [17], **Matthew McRoberts** [17] – Greater Vancouver BC  
*Man-Made Muscle*

---

#### Honourable Mention - Earth & Environmental Science

##### Junior

Sponsor: Suncor Energy Inc.  
\$100 cash & Certificate

---

**Mackenzie Finch** [13] – Cariboo Mainline BC  
*Carbon: A Solution for Water Pollution*

---

**Matthew Podolak** [13] – Simcoe County ON  
*Algae: Arctic's Ally*

---

**Alex Mann** [14] – South Shore NS  
*Up in the Air - VOC Production by Phytoplankton*

---

**Danica Avery** [12], **Meghan Bouvier** [12] – Yukon/Stikine YT  
*Regelation*

---

#### Honourable Mention - Earth & Environmental Science

##### Intermediate

Sponsor: Suncor Energy Inc.  
\$100 cash & Certificate

---

**Stéphane Aubin** [14], **Michael Najm** [14] – Ottawa ON  
*Cadmium, mium!*

---

**Josie Mielhausen** [15] – Bluewater ON  
*Grounds for Change*

---

**Keltie Murdoch** [14] – East Kootenay BC  
*Temper Trap: Using subterranean energy to temper air for quality living spaces*

---

#### Honourable Mention - Earth & Environmental Science

##### Senior

Sponsor: Suncor Energy Inc.  
\$100 cash & Certificate

---

**Michael Yuan** [17] – Northwestern Ontario ON  
*A Greener Wind: Designing A More Efficient Wind Turbine Blade*

---

**Juliana Skuza** [17] – Toronto ON  
*The Effect of Mycelium and Different Substrates on the Degradation of Oil*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### Honourable Mention - Biotechnology & Pharmaceutical Sciences

##### Junior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Quentin Golsteyn** [12] – Lethbridge AB  
*La génétique*

---

#### Honourable Mention - Biotechnology & Pharmaceutical Sciences

##### Intermediate

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Sophie Bérubé** [15], **Patricia Johnsson** [15] – Montreal QC  
*Sizing Up Your Pup*

---

**Rebecca Fisher** [15], **Mikayla Preete** [15] – Prairie Valley SK  
*Sew-Go-Ponics*

---

#### Honourable Mention - Biotechnology & Pharmaceutical Sciences

##### Senior

Sponsor: Youth Science Canada  
\$100 cash & Certificate

---

**Arooj Hayat** [17] – Greater Vancouver BC  
*Tylenol and Echinacea Don't Rhyme!*

---

**Leslie Bothwell** [17], **Jenny Tian** [18] – Waterloo-Wellington ON  
*The Relation of Total Resistant Starch Concentration in Potatoes*

---

#### 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.

---

**Jordan Wentzell** [15] – Northwestern Ontario ON  
*Carbon Conquered by Sea, Salt, and Sun*

---

**Sarah Battat** [14] – Montreal QC  
*Polarization: Ray Ray Go Away*

---

**Kiri Daust** [12] – Pacific Northwest BC  
*Making a Splash: The Importance of Shape and Size*

---

**Elise Tessier** [18] – Annapolis Valley NS  
*Can Stress Bring Out The Best?*

---

**Jessie MacAlpine** [14] – London District ON  
*Effect of CO<sub>2</sub> on chronic cold tolerance and fertility in *Drosophila melanogaster**

---

**Indranil Balki** [13] – Peel ON  
*More Than Mere Taste*

---

**Alyson Bell** [16] – Peterborough ON  
*Another Tale My Grandfather Told Me*

---

**Abicumarán Uthamacumarán** [16] – Montreal QC  
*Kicking Cancer With KAI-1*

---

**Kathryn Bowers** [13] – Eastern Newfoundland NL  
*A Thumb Generation*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Kyle Schole** [16] – Edmonton AB

*Microbial Degradation of Vehicle Tires*

---

**Rebecca Sandrelli** [15] – Renfrew County ON

*A Floral Solution to Pollution*

---

**Hayley Todesco** [13] – Calgary Youth AB

*Sunny Dye-Light: Dye-Sensitized Solar Cells*

---

**Mackenzie Carter** [18] – Waterloo-Wellington ON

*STOL 'n Lift*

---

**Chantal Surette** [15] – Conseil scolaire acadien provincial (CSAP) NS

*L'appareil orque - une nouvelle façon de capter l'énergie dans les vagues*

---

**Patrick Chong** [13] – Bay Area ON

*Brain Drain*

---

**Justin Whitaker** [19] – Quinte ON

*Bio-Binding: A Microbial Precipit-Action*

---

**Bekir Buyukkocabas** [14] – Toronto ON

*A Fuel of the Future*

---

**Danielle Hussain** [14] – Montreal QC

*Oil After Breakfast*

---

**Arash Marzi** [16] – Strait NS

*Achieving Copenhagen's International CO2 Targets with a Bees Inspired OA & ANNs*

---

**Sandro Young** [16] – Ottawa ON

*Avatouch: A 3D Computing User Interface*

---

**Melissa Chopcian** [13] – Lambton County ON

*A computer Input Innovation for People with Parkinson's Disease*

---

**Amit Persad** [17], **Xinran (Hannah) Yu** [16] – Edmonton AB

*PTEN: Halting Progression of Metastatic Melanoma*

---

**Linda Wei** [15] – Greater Vancouver BC

*The Anti-Tumor Triad*

---

**Mikaela Preston** [13] – York ON

*Algae into Biofuel: A study of interaction between two species*

---

**Jamil Merali** [12] – North Bay ON

*Why did the Moose Cross the Road?*

---

### 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.

---

**Cody Shaw** [16] – Manitoba Schools Science Symposium MB

*Phononic Crystals: Revisited*

---

**Laurel Stothers** [18] – South Fraser BC

*From the Bottom Up: Self-Assembly by Lateral Capillary Forces II*

---

**Shannon Ball** [15] – Manitoba Schools Science Symposium MB

*Taking the "Pulse" of the Value People Add to Forecasting Using Lightning Dat*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

<b>Robert Barrett</b> [15] – Cape Breton NS <i>Knock Out: Momentum of a Kick Boxers Punch</i>
<b>Loral Christie</b> [12] – Bluewater ON <i>The Brightest Path</i>
<b>Rylen de Vries</b> [13] – Winnipeg Schools MB <i>Jump To It! Force and Stress During Take-Offs in Figure Skating</i>
<b>Ria Van der Linden</b> [18] – Strait NS <i>Fledglings and Fleas</i>
<b>Oliver Jourmel</b> [15] – Vancouver Island BC <i>Evaluating the Effects of the Retention Properties of Charcoal on Plant Growth</i>
<b>Sarah Lussier</b> [16] – Montréal QC <i>Fraises et huile d'origan</i>
<b>Sabrina Bouchard</b> [16], <b>Geneviève Larivée</b> [15] – Estrie QC <i>Ayons la foi, aidons le foie!</i>
<b>Brittany Vandenberg</b> [12] – Ottawa ON <i>The Relative Age Effect</i>
<b>Danila Alferov</b> [12] – London District ON <i>From 3D to UBP Unidentified Brain Power</i>
<b>Natalie Fisher</b> [17] – Chignecto Central West NS <i>Is Its Bark Worse Than Its Bite?</i>
<b>Tony Kwon</b> [17] – London District ON <i>Allium sativum as a Potential Antimicrobial against Group A Streptococcal Infect</i>
<b>Julia Goyal</b> [15], <b>Bryon Leung</b> [15] – Toronto ON <i>Rot or Not: Studies of the Dental Effects of Acid and Sugar in Soft Drinks</i>
<b>Grace Wang</b> [16] – London District ON <i>Discovering ERK5's Role in Inhibiting Breast Cancer Cell Migration and Invasion</i>
<b>Lauren Andersen</b> [13], <b>Fiona Weaver</b> [12] – East Parry Sound ON <i>Bugs in a Bag</i>
<b>Drew Swan</b> [14] – Central Okanagan BC <i>Reader Beware</i>
<b>Kimia Sorouri</b> [16] – Peel ON <i>Bio-Not-Diesel: Algae Invasion</i>
<b>Elijah Linklater</b> [18] – Manitoba First Nations MB <i>Oil Spill Clean UP - The Natural Way</i>
<b>Kelcie Miller-Anderson</b> [15] – Calgary Youth AB <i>Phytoremediation of the Oil Sands</i>
<b>Arctica Cunningham</b> [14] – Pacific Northwest BC <i>Water Reuse = Water To Use</i>
<b>Lauren Reid</b> [14] – Durham ON <i>Stagnation Point Para Foil: An Innovation</i>
<b>Syed Kamran</b> [13] – Peel ON <i>Nuclear Steam Waste, Reused!</i>

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Eddy Fortier** [17] – Estrie QC

*L'Xtraction aid*

---

**Jarika Penny** [18], **Erick Vandenhurk** [18] – Southeast Saskatchewan SK

*Don't Flip Your Lid*

---

**Ramaneek Gill** [16] – Peel ON

*The Innovative Computer Mouse*

---

**Joy Liu** [15] – Bay Area ON

*A New Focus: Reflecting Towards Higher Power Output of Photovoltaics*

---

**Noah Bayless** [14], **Sam Harrison** [13] – Greater Vancouver BC

*A Helping Hand*

---

**Duncan Stothers** [12] – Greater Vancouver BC

*Packing Pyramids*

---

**Joël Filion** [19], **Nicholas Rompré St-Yves** [18] – Québec et Chaudière-Appalaches QC

*Système de captation du CO2*

---

**Lainey Lazaruko** [17] – Northern Saskatchewan SK

*Follow the Flow*

---

**Bernadette Weaver** [14] – East Parry Sound ON

*Working Overtime*

---

**Kelsey Keddy** [15] – Conseil scolaire acadien provincial (CSAP) NS

*Augmenter l'énergie potentielle du moteur à combustion*

---

**Sonia Stewart** [13] – South Fraser BC

*Which laundry cleaner is greener?*

---

**Lexie Penny** [14] – Niagara ON

*Local Environmental Impacts on the Water Quality of Forty-Mile Creek in Grimsby*

---

**Evan Andersen** [16] – Simcoe County ON

*Your Privacy: Now in Range A Project on Radio Frequency Identification*

---

**Tim Cooper** [17] – Annapolis Valley NS

*swn: a multi-purpose scripting language*

---

**Antoine Proulx** [14] – Montérégie QC

*Méfiez-vous, on vous surveille*

---

**Hannah Gillis** [15] – Strait NS

*Emergency Measure Access Plans; EMAP*

---

**Alex Ianta** [13] – Chignecto East NS

*Semantic Genie*

---

**Justine Williams** [14] – Bay Area ON

*What's Your Password?*

---

**Adrian Peter Howie** [17] – Halifax NS

*Arctic-Ceuticals*

---

**Alexandre Allard** [18], **Danny Luong** [19] – Québec et Chaudière-Appalaches QC

*Armes à dégradation massive*

---

**Delphine Martineau-Côté** [16], **Fanny Vermandele** [16] – Québec et Chaudière-Appalaches QC

*Le plein: avec ou sans pulpe?*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Prakriti Pratijit [13], Pranay Pratijit [15]** – Saskatoon SK  
*Novel Proteinaceous Compounds as Disease Determinants in Ascochyta rabiei - chic*

---

**Gazal Grewal [13], Chrissy Roopnarine [14]** – Peel ON  
*Fighting BAC!*

---

**Naima Raza [13]** – Lambton County ON  
*Substrate Effectiveness in Microbial Fuel Cells*

---

**Lindsay Dimler [15]** – Central Interior British Columbia BC  
*Solar Separation II: Enhanced Hydrogen Fuel Production*

---

**Mollie Bianchi [12]** – Simcoe County ON  
*Automotive Wind Driven Generator*

---

**Cameron Hayley [13]** – Chinook Country AB  
*Drag Is A Real Drag*

---

#### The University of Western Ontario Scholarship

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

Sponsor: University of Western Ontario

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---

**Robert Lin [16], Jenny Yao [17]** – Toronto ON  
*Charge It Up!*

---

**Darrick Lee [16], Owen Lu [16]** – Greater Vancouver BC  
*Power Generated from a Wind Turbine*

---

**Savannah Issaluk [18]** – Kivalliq NU  
*Size Does Matter: A Study of Qamutik Length*

---

**Anna Gosine [14]** – Eastern Newfoundland NL  
*The Intelligibility of Sopranos' Vowels*

---

**Chloe Howe [14]** – Canadian Rockies AB  
*Homemade Electrophoresis*

---

**Colin Hooper [15]** – Cape Breton NS  
*Take A Bow*

---

**Reilly Lundrigan [11]** – Central Newfoundland NL  
*Let it Snow*

---

**Clément Ducellier [14]** – Ottawa ON  
*production propre d'hydrogène*

---

**Samantha Lawther [13]** – Prince Edward Island PE  
*Choisir la bonne balle de squash*

---

**Timour Igamberdiev [17]** – Eastern Newfoundland NL  
*Pyrophosphate - An Alternative Energy Source in Plants*

---

**Kurtis Turnbull [18]** – Chignecto East NS  
*A Radical Theory: Why Antioxidants May Not Always Be Good*

---

**Andrew Pearce [18]** – Fransaskoise SK  
*À la recherche d'ADN*

---

**Dominique Drouin-Moreland [14]** – Edmonton AB  
*Horse Hues*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Travis Landry** [15] – South Shore NS

*Blanding's: A Species at Risk*

---

**Shubham Talwar** [15] – Lethbridge AB

*Hyper Heartbeat: Fertilizer Freakout*

---

**Dominic Slivinski** [12] – Manitoba Schools Science Symposium MB

*Super Stomata: Gas Exchange in Trees*

---

**Meagan Haugen-Koechl** [13] – Northern British Columbia BC

*Pollen for the Pollinator*

---

**Varsha Jayasankar** [13] – Niagara ON

*Holy Cali, Got Metal?*

---

**Sofia Oke** [18], **Noorain Shethwala** [17] – Waterloo-Wellington ON

*Chemosensitizers: The Answer to Cancer*

---

**Réda Bensaïdane** [17], **Alexandre Lemieux** [17] – Québec et Chaudière-Appalaches QC

*Un traitement à ne pas oublier*

---

**Charles Yin** [17] – London District ON

*Induction and detection of chemotactic protein S100A8 in RAW 264.7 cells*

---

**Zachary Rintoul** [15] – Central Okanagan BC

*Does Nagging Help?*

---

**Mitchell Hanna** [16] – Cape Breton NS

*Max VO<sub>2</sub> Versus Resting Heart Rate*

---

**Ashley Anderson** [14], **Forrest Tower** [15] – Central Interior British Columbia BC

*Predicting Aggression Using Multiple Regression II*

---

**Hannah Martin** [12] – Chignecto East NS

*Complaining About Training*

---

**Kevala Van Volkenburg** [13] – Northern British Columbia BC

*Step It Up, Students*

---

**Alexander Weismann** [12] – River Valley NB

*Le dilemme du prisonnier*

---

**Riviera Marshall** [18], **Alitta Sylliboy** [17] – Mi'kmaq First Nation NS

*Invisible Plough*

---

**Amanda Gaudet** [17] – Fransaskoise SK

*Un carburant alternatif 2e partie*

---

**Christine Leanne Dyck** [17], **Brittany Mathies** [17] – Saskatchewan Chinook SK

*Go Green - Go Plastic*

---

**Karl Zimmermann** [15] – Algoma Rotary ON

*Can Hydrogen Peroxide Aid in the Efficiency of the Combustion of Ethanol?*

---

**Colin Roos** [15] – Sudbury ON

*The Chlorofilter Phase 3*

---

**Youssef Hassanien** [15] – Northern Manitoba MB

*Trienergy Vehicles- Ski-Seff*

---

**Sruti Arulmani** [12] – Peel ON

*Photoautotrophic Composite Based Nanocrystalline Solar Cells*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



- 
- Edward Wong** [12] – Cariboo Mainline BC  
*Get Into the Spirits*
- 
- Alison Underwood** [13] – Avon Maitland-Huron Perth ON  
*A Concrete Solution*
- 
- François-Guillaume Landry** [16] – Chaleur NB  
*Une antenne relais intelligente*
- 
- Tarik Hadbi** [16], **Jeremy Moreau** [16] – Montréal CLS QC  
*Urbiboard: two wheeled future*
- 
- Ilia Choly** [19], **David Irwin** [17] – Niagara ON  
*ACE (Autonomous Cooperative Exploration)*
- 
- Maxwell Poole** [14] – Tri-County NS  
*Reengineering LED Traffic Lights to Prevent Snow or Ice Buildup*
- 
- Madison Ricard** [14] – Edmonton AB  
*From The Ground Up*
- 
- Zeyu Liu** [14] – Calgary Youth AB  
*Working with Robots*
- 
- Jane Last** [14] – Parkland SK  
*The 'Moo-velous' Syringe Warmer*
- 
- Kristina King** [13], **Kelsey Lapointe** [13] – Timmins ON  
*Skitasique*
- 
- Calvin Rieder** [13] – Bay Area ON  
*Water, water, everywhere, Nor any drop to drink: Atmospheric Water Condensers*
- 
- Alexandre Richard** [18] – Abitibi-Témiscamingue QC  
*Le canola, plante de l'avenir ?*
- 
- Megan Schlorff** [17] – Bluewater ON  
*Unearthing the Elements of Truth*
- 
- Zach Elgood** [16] – Waterloo-Wellington ON  
*Methane Production and Removal in a Denitrifying Streambed*
- 
- Stephanie Gaglione** [15] – York ON  
*VeggiePanel: An Ultra-Light Green Roof Innovation for Urban Food Security and Wa*
- 
- Adam Noble** [16] – Peterborough ON  
*Euglena as an Indicator of Water Quality*
- 
- Kelsey Kynoch** [14] – Cariboo Mainline BC  
*A Bug's Life: From Bad Oil to Good Soil*
- 
- Dylan Kassian** [13] – Northern British Columbia BC  
*See O2 Effects*
- 
- Olivier Cossette** [13] – Ottawa ON  
*Travaillons ensemble pour recycler sans gaspiller!*
- 
- Kevin Lanthier** [15], **Éric Matte** [15] – Outaouais QC  
*Frosted Link: Navigateur Web*
- 
- Nicholas Johnston** [15] – South Fraser BC  
*Testing Data Transfer over Plant Roots*



# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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<b>Collin Fair</b> [15] – Central Alberta AB <i>Enhancing Educational Resource Accessibility</i>
<b>Rachel Watters</b> [13] – Beaufort-Delta NT <i>Too Much Texting</i>
<b>Michael Shao</b> [16], <b>Danielle Xu</b> [16] – Greater Vancouver BC <i>Cytotoxicity of Dandelion Extracts on Melanoma Cells</i>
<b>Neilroy Roy</b> [18] – Manitoba Schools Science Symposium MB <i>Production of RNA to Investigate the Mechanism of Viral Replication</i>
<b>Zahra Merali</b> [15] – North Bay ON <i>Diffusion Through Osseous Matter</i>
<b>Taylor Lidster</b> [15] – Chatham-Kent ON <i>Thérapie de choc</i>
<b>Allen Liu</b> [15] – Manitoba Schools Science Symposium MB <i>Effects of the Brassica genes STM and CLV1 on Arabidopsis shoot organogenesis</i>
<b>Sarah Hyslop</b> [14] – Calgary Youth AB <i>Antibacterial Properties of Plant Oils</i>
<b>Sarah Gullason</b> [13] – Northern British Columbia BC <i>Stop the Drop</i>
<b>Julia Starko</b> [13] – Western Manitoba MB <i>Vitamin D Gone Viral?</i>
<b>Joseph Gelowitz</b> [13] – Central Alberta AB <i>Native Plant Decoctions</i>
<b>Nick Hayden</b> [13] – Yukon/Stikine YT <i>Aerodynamics of Transport Trucks II</i>
<b>Vito Zou</b> [14] – South Fraser BC <i>More Electricity for a Hybrid Car</i>
<b>Victor Ling</b> [13] – London District ON <i>Self-Driving, Accident-Free Car</i>

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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.

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<b>Jordan Wentzell</b> [15] – Northwestern Ontario ON <i>Carbon Conquered by Sea, Salt, and Sun</i>
<b>Elise Tessier</b> [18] – Annapolis Valley NS <i>Can Stress Bring Out The Best?</i>
<b>Alyson Bell</b> [16] – Peterborough ON <i>Another Tale My Grandfather Told Me</i>
<b>Kyle Schole</b> [16] – Edmonton AB <i>Microbial Degradation of Vehicle Tires</i>

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Mackenzie Carter** [18] – Waterloo-Wellington ON  
*STOL 'n Lift*

---

**Justin Whitaker** [19] – Quinte ON  
*Bio-Binding: A Microbial Precipit-Action*

---

**Arash Marzi** [16] – Strait NS  
*Achieving Copenhagen's International CO2 Targets with a Bees Inspired OA & ANNs*

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**Amit Persad** [17], **Xinran (Hannah) Yu** [16] – Edmonton AB  
*PTEN: Halting Progression of Metastatic Melanoma*

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#### 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.

---

**Cody Shaw** [16] – Manitoba Schools Science Symposium MB  
*Phononic Crystals: Revisited*

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**Laurel Stothers** [18] – South Fraser BC  
*From the Bottom Up: Self-Assembly by Lateral Capillary Forces II*

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**Ria Van der Linden** [18] – Strait NS  
*Fledglings and Fleas*

---

**Oliver Jourmel** [15] – Vancouver Island BC  
*Evaluating the Effects of the Retention Properties of Charcoal on Plant Growth*

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**Natalie Fisher** [17] – Chignecto Central West NS  
*Is Its Bark Worse Than Its Bite?*

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**Tony Kwon** [17] – London District ON  
*Allium sativum as a Potential Antimicrobial against Group A Streptococcal Infect*

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**Kimia Sorouri** [16] – Peel ON  
*Bio-Not-Diesel: Algae Invasion*

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**Elijah Linklater** [18] – Manitoba First Nations MB  
*Oil Spill Clean UP - The Natural Way*

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**Eddy Fortier** [17] – Estrie QC  
*L'Xtraction aid*

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**Jarika Penny** [18], **Erick Vandenhurk** [18] – Southeast Saskatchewan SK  
*Don't Flip Your Lid*

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**Joël Filion** [19], **Nicholas Rompré St-Yves** [18] – Québec et Chaudière-Appalaches QC  
*Système de captation du CO2*

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**Lainey Lazurko** [17] – Northern Saskatchewan SK  
*Follow the Flow*

---

**Evan Andersen** [16] – Simcoe County ON  
*Your Privacy: Now in Range A Project on Radio Frequency Identification*

---

**Tim Cooper** [17] – Annapolis Valley NS  
*swn: a multi-purpose scripting language*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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**Adrian Peter Howie** [17] – Halifax NS  
*Arctic-Ceuticals*

---

**Alexandre Allard** [18], **Danny Luong** [19] – Québec et Chaudière-Appalaches QC  
*Armes à dégradation massive*

---

#### University of Ottawa Entrance Scholarship

##### Senior Bronze Medallist - \$1000 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.

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**Robert Lin** [16], **Jenny Yao** [17] – Toronto ON  
*Charge It Up!*

---

**Darrick Lee** [16], **Owen Lu** [16] – Greater Vancouver BC  
*Power Generated from a Wind Turbine*

---

**Savannah Issaluk** [18] – Kivalliq NU  
*Size Does Matter: A Study of Qamutik Length*

---

**Timour Igamberdiev** [17] – Eastern Newfoundland NL  
*Pyrophosphate - An Alternative Energy Source in Plants*

---

**Kurtis Turnbull** [18] – Chignecto East NS  
*A Radical Theory: Why Antioxidants May Not Always Be Good*

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**Andrew Pearce** [18] – Fransaskoise SK  
*À la recherche d'ADN*

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**Sofia Oke** [18], **Noorain Shethwala** [17] – Waterloo-Wellington ON  
*Chemosensitizers: The Answer to Cancer*

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**Réda Bensaïdane** [17], **Alexandre Lemieux** [17] – Québec et Chaudière-Appalaches QC  
*Un traitement à ne pas oublier*

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**Charles Yin** [17] – London District ON  
*Induction and detection of chemotactic protein S100A8 in RAW 264.7 cells*

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**Riviera Marshall** [18], **Alitta Sylliboy** [17] – Mi'kma'q First Nation NS  
*Invisible Plough*

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**Amanda Gaudet** [17] – Fransaskoise SK  
*Un carburant alternatif 2e partie*

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**Christine Leanne Dyck** [17], **Brittany Mathies** [17] – Saskatchewan Chinook SK  
*Go Green - Go Plastic*

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**François-Guillaume Landry** [16] – Chaleur NB  
*Une antenne relais intelligente*

---

**Tarik Hadbi** [16], **Jeremy Moreau** [16] – Montréal CLS QC  
*Urbiboard: two wheeled future*

---

**Ilia Choly** [19], **David Irwin** [17] – Niagara ON  
*ACE (Autonomous Cooperative Exploration)*

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**Alexandre Richard** [18] – Abitibi-Témiscamingue QC  
*Le canola, plante de l'avenir ?*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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**Megan Schlorff** [17] – Bluewater ON  
*Unearthing the Elements of Truth*

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**Michael Shao** [16], **Danielle Xu** [16] – Greater Vancouver BC  
*Cytotoxicity of Dandelion Extracts on Melanoma Cells*

---

**Neilloy Roy** [18] – Manitoba Schools Science Symposium MB  
*Production of RNA to Investigate the Mechanism of Viral Replication*

---

**Zahra Merali** [15] – North Bay ON  
*Diffusion Through Osseous Matter*

---

#### 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.

---

**Jordan Wentzell** [15] – Northwestern Ontario ON  
*Carbon Conquered by Sea, Salt, and Sun*

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**Elise Tessier** [18] – Annapolis Valley NS  
*Can Stress Bring Out The Best?*

---

**Alyson Bell** [16] – Peterborough ON  
*Another Tale My Grandfather Told Me*

---

**Justin Whitaker** [19] – Quinte ON  
*Bio-Binding: A Microbial Precipit-Action*

---

**Arash Marzi** [16] – Strait NS  
*Achieving Copenhagen's International CO2 Targets with a Bees Inspired OA & ANNs*

---

**Amit Persad** [17], **Xinran (Hannah) Yu** [16] – Edmonton AB  
*PTEN: Halting Progression of Metastatic Melanoma*

---

#### 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.

---

**Cody Shaw** [16] – Manitoba Schools Science Symposium MB  
*Phononic Crystals: Revisited*

---

**Laurel Stothers** [18] – South Fraser BC  
*From the Bottom Up: Self-Assembly by Lateral Capillary Forces II*

---

**Ria Van der Linden** [18] – Strait NS  
*Fledglings and Fleas*

---

**Oliver Jourmel** [15] – Vancouver Island BC  
*Evaluating the Effects of the Retention Properties of Charcoal on Plant Growth*

---

**Natalie Fisher** [17] – Chignecto Central West NS  
*Is Its Bark Worse Than Its Bite?*

---

**Tony Kwon** [17] – London District ON  
*Allium sativum as a Potential Antimicrobial against Group A Streptococcal Infect*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Joël Filion [19], Nicholas Rompré St-Yves [18]** – Québec et Chaudière-Appalaches QC  
*Système de captation du CO2*

---

**Lainey Lazurko [17]** – Northern Saskatchewan SK  
*Follow the Flow*

---

**Evan Andersen [16]** – Simcoe County ON  
*Your Privacy: Now in Range A Project on Radio Frequency Identification*

---

**Tim Cooper [17]** – Annapolis Valley NS  
*swn: a multi-purpose scripting language*

---

**Adrian Peter Howie [17]** – Halifax NS  
*Arctic-Ceuticals*

---

**Alexandre Allard [18], Danny Luong [19]** – Québec et Chaudière-Appalaches QC  
*Armes à dégradation massive*

---

#### 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.

---

**Jordan Wentzell [15]** – Northwestern Ontario ON  
*Carbon Conquered by Sea, Salt, and Sun*

---

**Elise Tessier [18]** – Annapolis Valley NS  
*Can Stress Bring Out The Best?*

---

**Alyson Bell [16]** – Peterborough ON  
*Another Tale My Grandfather Told Me*

---

**Kyle Schole [16]** – Edmonton AB  
*Microbial Degradation of Vehicle Tires*

---

**Mackenzie Carter [18]** – Waterloo-Wellington ON  
*STOL 'n Lift*

---

**Justin Whitaker [19]** – Quinte ON  
*Bio-Binding: A Microbial Precipit-Action*

---

**Arash Marzi [16]** – Strait NS  
*Achieving Copenhagen's International CO2 Targets with a Bees Inspired OA & ANNs*

---

**Amit Persad [17], Xinran (Hannah) Yu [16]** – Edmonton AB  
*PTEN: Halting Progression of Metastatic Melanoma*

---

#### 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.

---

**Cody Shaw [16]** – Manitoba Schools Science Symposium MB  
*Phononic Crystals: Revisited*

---

**Laurel Stothers [18]** – South Fraser BC  
*From the Bottom Up: Self-Assembly by Lateral Capillary Forces II*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



---

**Ria Van der Linden** [18] – Strait NS  
*Fledglings and Fleas*

---

**Oliver Jourmel** [15] – Vancouver Island BC  
*Evaluating the Effects of the Retention Properties of Charcoal on Plant Growth*

---

**Natalie Fisher** [17] – Chignecto Central West NS  
*Is Its Bark Worse Than Its Bite?*

---

**Tony Kwon** [17] – London District ON  
*Allium sativum as a Potential Antimicrobial against Group A Streptococcal Infect*

---

**Kimia Sorouri** [16] – Peel ON  
*Bio-Not-Diesel: Algae Invasion*

---

**Elijah Linklater** [18] – Manitoba First Nations MB  
*Oil Spill Clean UP - The Natural Way*

---

**Eddy Fortier** [17] – Estrie QC  
*L'Xtraction aid*

---

**Jarika Penny** [18], **Erick Vandenhurk** [18] – Southeast Saskatchewan SK  
*Don't Flip Your Lid*

---

**Joël Filion** [19], **Nicholas Rompré St-Yves** [18] – Québec et Chaudière-Appalaches QC  
*Système de captation du CO2*

---

**Lainey Lazurko** [17] – Northern Saskatchewan SK  
*Follow the Flow*

---

**Evan Andersen** [16] – Simcoe County ON  
*Your Privacy: Now in Range A Project on Radio Frequency Identification*

---

**Tim Cooper** [17] – Annapolis Valley NS  
*swn: a multi-purpose scripting language*

---

**Adrian Peter Howie** [17] – Halifax NS  
*Arctic-Ceuticals*

---

**Alexandre Allard** [18], **Danny Luong** [19] – Québec et Chaudière-Appalaches QC  
*Armes à dégradation massive*

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#### Gold Medal - International

Sponsor: Youth Science Canada  
Medal and a certificate

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**Luz María Sosa Vargas** [18] – Mexico  
*Algebraic Loop*

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**Herman Dong** [14], **Chen-Chieh Ping** [15] – Taiwan, R.O.C.  
*Squeeze! Don't Move! -Tight Configuration of Disks and their Circum-Rectangle*

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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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**Jessica Matschek** [17] – Montreal QC  
*Decoding Depression*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### Statistical Society of Canada Award

Sponsor: Statistical Society of Canada  
\$1000 cash & certificate

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**Michael Shao** [16], **Danielle Xu** [16] – Greater Vancouver BC  
*Cytotoxicity of Dandelion Extracts on Melanoma Cells*

---

#### Renewable Energy Award

##### Senior

Sponsor: Ontario Power Generation  
\$1000 cash & certificate

---

**Alexandre Richard** [18] – Abitibi-Témiscamingue QC  
*Le canola, plante de l'avenir ?*

---

#### Renewable Energy Award

##### Intermediate

Sponsor: Ontario Power Generation  
\$750 cash & certificate

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**Stephanie Gaglione** [15] – York ON  
*VeggiePanel: An Ultra-Light Green Roof Innovation for Urban Food Security and Wa*

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#### Renewable Energy Award

##### Junior

Sponsor: Ontario Power Generation  
\$500 cash & certificate

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**Lauren Reid** [14] – Durham ON  
*Stagnation Point Para Foil: An Innovation*

---

#### 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).

---

**Elise Tessier** [18] – Annapolis Valley NS  
*Can Stress Bring Out The Best?*

---

**Michael Peters** [18] – Vancouver Island BC  
*The Actuator*

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**Alyson Bell** [16] – Peterborough ON  
*Another Tale My Grandfather Told Me*

---

**A-J Hutchings** [18] – Ottawa ON  
*The Efficacy of RA, PDGF, and BMP-4 to Instruct Adult NSPC Differentiation*

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**Kyle Schole** [16] – Edmonton AB  
*Microbial Degradation of Vehicle Tires*

---

**Eddy Fortier** [17] – Estrie QC  
*L'Xtraction aid*

---

**Jarika Penny** [18], **Erick Vandenhurk** [18] – Southeast Saskatchewan SK  
*Don't Flip Your Lid*

---

**Tim Cooper** [17] – Annapolis Valley NS  
*swn: a multi-purpose scripting language*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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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).

---

**Alyson Bell** [16] – Peterborough ON

*Another Tale My Grandfather Told Me*

---

**A-J Hutchings** [18] – Ottawa ON

*The Efficacy of RA, PDGF, and BMP-4 to Instruct Adult NSPC Differentiation*

---

**Kyle Schole** [16] – Edmonton AB

*Microbial Degradation of Vehicle Tires*

---

**Eddy Fortier** [17] – Estrie QC

*L'Xtraction aid*

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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 2010 (ISSYP 2010) from July 8-24, 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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**Mackenzie Carter** [18] – Waterloo-Wellington ON

*STOL 'n Lift*

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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, September 5–11, 2010, 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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**Alyson Bell** [16] – Peterborough ON

*Another Tale My Grandfather Told Me*

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**Humera Rehman** [18], **Sara Rehman** [18] – York ON

*Mediator-less Microbial Fuel Cells*

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**Alexandre Allard** [18], **Danny Luong** [19] – Québec et Chaudière-Appalaches QC

*Armes à dégradation massive*

---

#### 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 5–29, 2010. Total scholarship value \$8,000.

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**Charles Yin** [17] – London District ON

*Induction and detection of chemotactic protein S100A8 in RAW 264.7 cells*



# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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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 5–29, 2010. Total scholarship value \$8,000.

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**Avineet Sekhon** [17] – Eastern Newfoundland NL

*The Great Weight Debate*

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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 18-24, 2011 in Bratislava, Slovakia, and will receive a certificate. Total value \$5000.

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**Kyle Schole** [16] – Edmonton AB

*Microbial Degradation of Vehicle Tires*

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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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**Cody Shaw** [16] – Manitoba Schools Science Symposium MB

*Phononic Crystals: Revisited*

---

#### 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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**Sarah Battat** [14] – Montreal QC

*Polarization: Ray Ray Go Away*

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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

---

**Loral Christie** [12] – Bluewater ON

*The Brightest Path*

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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 2011. 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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**Abicumaran Uthamacumaran** [16] – Montreal QC

*Kicking Cancer With KAI-1*

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**Stephanie Gaglione** [15] – York ON

*VeggiePanel: An Ultra-Light Green Roof Innovation for Urban Food Security and Wa*

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**Sandro Young** [16] – Ottawa ON

*Avatouch: A 3D Computing User Interface*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### The Actuarial Foundation of Canada Award

##### Senior

Sponsor: The Actuarial Foundation of Canada  
\$1000 cash & certificate

---

**Elise Tessier** [18] – Annapolis Valley NS  
*Can Stress Bring Out The Best?*

---

**Marc-Antoine Pigeon** [17] – Québec et Chaudière-Appalaches QC  
*Valves cardiaques-coagulation?*

---

#### The Actuarial Foundation of Canada Award

##### Intermediate

Sponsor: The Actuarial Foundation of Canada  
\$750 cash & certificate

---

**Shannon Ball** [15] – Manitoba Schools Science Symposium MB  
*Taking the "Pulse" of the Value People Add to Forecasting Using Lightning Dat*

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**Sarah Battat** [14] – Montreal QC  
*Polarization: Ray Ray Go Away*

---

#### The Actuarial Foundation of Canada Award

##### Junior

Sponsor: The Actuarial Foundation of Canada  
\$500 cash & certificate

---

**Drew Swan** [14] – Central Okanagan BC  
*Reader Beware*

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**Nicole Larson** [13] – Alberta Central East AB  
*The Price of Speed*

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

##### Senior

Sponsor: S.M. Blair Family Foundation  
\$1000 cash & certificate

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**Jarika Penny** [18], **Erick Vandenhurk** [18] – Southeast Saskatchewan SK  
*Don't Flip Your Lid*

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

##### Intermediate

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

---

**Ramaneek Gill** [16] – Peel ON  
*The Innovative Computer Mouse*

---

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

##### Junior

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

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**Jane Last** [14] – Parkland SK  
*The 'Moo-velous' Syringe Warmer*

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#### Discovery Channel Math Award

Sponsor: Discovery Channel  
\$750 cash & certificate

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**Steven Zheng** [15] – Greater Vancouver BC  
*A Statistical Approach to the Applications of Fractal Geometry*

# Award Recipients

## Canada-Wide Science Fair 2010

### Peterborough, Ontario



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#### CSSE Engineering Innovation Award

##### Senior

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

---

**Eddy Fortier** [17] – Estrie QC  
*L'Xtraction aid*

---

#### CSSE Engineering Innovation Award

##### Junior

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

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**Calvin Rieder** [13] – Bay Area ON  
*Water, water, everywhere, Nor any drop to drink: Atmospheric Water Condensers*

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#### Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel  
\$500 cash & certificate

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**Kristina King** [13], **Kelsey Lapointe** [13] – Timmins ON  
*Skitasique*

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#### CAP Physics Prize

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

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**Darrick Lee** [16], **Owen Lu** [16] – Greater Vancouver BC  
*Power Generated from a Wind Turbine*

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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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**Abicumaran Uthamacumaran** [16] – Montreal QC  
*Kicking Cancer With KAI-1*