

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### Best Project Award

Sponsor: BlackBerry  
Award, \$10,000 cash

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**Daniel McInnis** [16] – Ottawa ON

*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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#### Platinum Award - Best Senior Project

Sponsor: BlackBerry  
Award, \$5,000 cash

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**Daniel McInnis** [16] – Ottawa ON

*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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#### Platinum Award - Best Intermediate Project

Sponsor: BlackBerry  
Award, \$5,000 cash

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**Maya Burhanpurkar** [15] – Simcoe County ON

*The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics*

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#### Platinum Award - Best Junior Project

Sponsor: BlackBerry  
Award, \$5,000 cash

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**Thomas Imbeault-Nepton** [13] – Saguenay-Lac Saint-Jean QC

*Au rythme de l'haptique*

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#### University of Windsor Entrance Scholarship

##### Grand Award Recipient - \$5000 Entrance Scholarship

Sponsor: University of Windsor

An Entrance Scholarship of \$5,000 is offered to each recipient of a Grand Award and \$2,000 to each senior recipient of a Challenge Award.

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**Maya Burhanpurkar** [15] – Simcoe County ON

*The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics*

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**Thomas Imbeault-Nepton** [13] – Saguenay-Lac Saint-Jean QC

*Au rythme de l'haptique*

---

**Daniel McInnis** [16] – Ottawa ON

*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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#### University of Windsor Entrance Scholarship

##### Senior Challenge Award Recipient - \$2000 Entrance Scholarship

Sponsor: University of Windsor

An Entrance Scholarship of \$5,000 is offered to each recipient of a Grand Award and \$2,000 to each senior recipient of a Challenge Award.

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**Victor Ling** [17] – Thames Valley ON

*Unlocking the Geology of Mars*

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**Che-Min Lee** [16], **Edwina Liu** [16] – Edmonton AB

*Metabolism: The Achilles Heel of Prostate Cancer?*

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**Daniel McInnis** [16] – Ottawa ON

*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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**Mikaela Preston** [17] – York ON

*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

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**Carl Shen** [16], **Gary Shen** [16] – Thames Valley ON

*Producing Value-Added Biomaterials from Lignocellulosic Waste*

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## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON  
*The Calculated Crisis*

---

**Alex Tomala** [16] – Bay Area ON  
*An Innovative Approach to Multi-core Processor Interconnection Networks*

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#### Western University Scholarship

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

Sponsor: Western University

An Entrance Scholarship of \$4000 is offered to each winner of a Gold Medal; \$2000 to each winner of a Silver Medal; and \$1000 to each winner of a Bronze Medal.

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**Aidan Aird** [14] – York ON  
*The Turbo-Eco Cookstove Plus: Improving Living Conditions in Developing Nations*

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**Elias Andersen** [14] – Simcoe County ON  
*Cold Cuts: A Cooled Cutting Board Using Peltier Technology*

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**Shruthi Bandi** [13] – Prince Edward Island PE  
*How are Microorganisms Useful to Humans? Part 2*

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**Candace Brooks-Da Silva** [14] – Windsor ON  
*Greening the Blue Skies: Reducing Induced Drag From Trailing Vortices*

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**Maya Burhanpurkar** [15] – Simcoe County ON  
*The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics*

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**Abhishek Chakraborty** [15] – Montreal QC  
*Effects of Folic Acid on Cells*

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**Alex Chan** [13], **Nathan Pilkey** [12] – Frontenac, Lennox & Addington ON  
*Peltier Power: Scavenging Heat From Solar Panels to Generate Electricity*

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**Emily Cross** [14] – Northwestern Ontario ON  
*Effects of Acid/Base Solutions on *Knightsia* Fossils and Taphonomy of Descendants*

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**William Harvey** [14] – Saguenay-Lac Saint-Jean QC  
*Un arbre de Noël dans les yeux*

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**Meagan Haugen-Koechl** [17] – Northern British Columbia BC  
*Feeding the Bumblebees: Analysis of Fatty Acids from Peace River Pollen*

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**Thomas Imbeault-Nepton** [13] – Saguenay-Lac Saint-Jean QC  
*Au rythme de l'haptique*

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**Sunand Kannappan** [15] – Calgary Youth AB  
*Investigating the Correlation Between CDK5RAP2 and NSCLC*

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**Nathan Kuehne** [16] – Vancouver Island BC  
*Early Cancer Detection: A Fluorescence-Based Approach*

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**Cameron Lennox** [17] – Montréal CLS QC  
*Au-delà de Pasteur*

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**Brielle Lillywhite** [13] – Chinook Country AB  
*Fight the Bite - Will they Choose Dark or Light?*

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**Benjamin Liu** [15] – Manitoba Schools Science Symposium MB  
*FAE1 gene markers for identification of high erucic acid *Brassica napus* plants*

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**Che-Min Lee** [16], **Edwina Liu** [16] – Edmonton AB  
*Metabolism: The Achilles Heel of Prostate Cancer?*

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**Robert MacDonald** [17] – Halifax NS  
*Severe Tornado Outbreaks: Finding Mechanical and Thermodynamic Relationships*

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**Grant Mansiere** [14] – Central Okanagan BC  
*Does Light Cause Crime?*

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**Daniel McInnis** [16] – Ottawa ON  
*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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**Arjun Nair** [17] – Calgary Youth AB  
*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

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**Isabella O'Brien** [12] – Bay Area ON  
*Trouble in Paradise: Can shell recycling help buffer ocean acidification?*

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**Emily O'Reilly** [16] – Central Interior British Columbia BC  
*Ancient Knowledge - Modern Approach*

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**Mikaela Preston** [17] – York ON  
*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

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**Ankita Saxena** [17] – Calgary Youth AB  
*Investigating Protein Aggregation States in AD and TBI using CSM*

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**Devanshi Shukla** [16] – Waterloo-Wellington ON  
*Quorum sensing: A novel approach for identifying anti-microbial herbal plants*

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**Katherine Sirois** [16] – Montérégie QC  
*Coup de cœur : garde le rythme*

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**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON  
*The Calculated Crisis*

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**Holly Tetzlaff** [13] – Quinte ON  
*Environmental Impact of Shifting Consumer Hygiene Trends*

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**Kelly Yang** [14] – Northwestern Ontario ON  
*Anti-Aging and UV Protection: Dandelion is the Answer*

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#### Western University Scholarship

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

Sponsor: Western University

An Entrance Scholarship of \$4000 is offered to each winner of a Gold Medal; \$2000 to each winner of a Silver Medal; and \$1000 to each winner of a Bronze Medal.

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**Owen Bai** [15] – Northwestern Ontario ON  
*From Lignin to Bioplastics!*

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**Nart Barileva** [17], **Aagnik Pant** [17] – Bay Area ON  
*Solvent-Based Cellulose Crystallinity Minimization to Improve Biofuel Production*

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**Catherine Beaudin** [13] – Ottawa ON  
*Mass transfer: A treatment for heart disease?*

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**Olivier Bélec** [12] – Montérégie QC  
*Quel âge ont vos oreilles?*

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**Noah Bergmann** [16] – Cariboo Mainline BC  
*The Musician's Toolbox*

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**Harshil Bhesania** [15] – Wood Buffalo AB  
*Veggie Plastics*

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- 
- Sascha Bodak** [15] – Thames Valley ON  
*The Science of Music: Studying the Relationship between Musical Enjoyment and...*
- 
- Rachel Brouwer** [12] – Halifax NS  
*Can we Improve the Quality of H2O in 3rd World Countries*
- 
- Thian Carman** [15] – Tri-County NS  
*Musical Eggs*
- 
- Donovan Cassidy-Nolan** [17] – Annapolis Valley NS  
*Pitch Please!*
- 
- Chloe Chen** [14] – Greater Vancouver BC  
*A Better Wind Turbine - The C Airfoil*
- 
- Abhi Gupta** [14] – Windsor ON  
*iWriter: A Novel Method of Communication for ALS Patients*
- 
- Mark Hewitt** [17] – Eastern Newfoundland NL  
*Can Popular Acne Treatments Stimulate or Exacerbate Cancer Growth?*
- 
- Andrew Ilyas** [14] – Waterloo-Wellington ON  
*Microfilters: Harnessing Twitter For Disaster Management*
- 
- SeonHo Jang** [16] – Thames Valley ON  
*Progression of Intervertebral Disc Degeneration in Mice Lacking Expression of CCN*
- 
- Tahmid Khan** [13] – Calgary Youth AB  
*Exploring Piezoelectricity*
- 
- Roman Kozak** [15] – Niagara ON  
*VAVI: Virtual Aid for the Visually Impaired*
- 
- Dylan Layton-Matthews** [13] – Frontenac, Lennox & Addington ON  
*A Thaw-ful Situation: A Freezing Apparatus for Experimental Permafrost Failure*
- 
- James Lees** [16] – Chignecto East NS  
*F.E.R.E.C: A Fuel for the Future*
- 
- Bennett Leong** [18] – Calgary Youth AB  
*De-icing Light Aircraft*
- 
- Lior Levy** [15], **Roi Levy** [14] – Toronto ON  
*One Little Cell, A World of Possibilities*
- 
- Edward Li** [16], **Andi Shahaj** [16] – York ON  
*Agricultural Antiperspirants: Controlling Stomata using Hygroscopic Compounds*
- 
- Victor Ling** [17] – Thames Valley ON  
*Unlocking the Geology of Mars*
- 
- Meaghan MacKenzie** [14] – South Fraser BC  
*Uncovering The Truth About Coal Dust in South Delta*
- 
- Thomas Dupré** [16], **Philippe Massicotte** [17] – Mauricie, Centre-du-Québec QC  
*Tiens-toi droit!*
- 
- Alex Millar** [16], **Marika Moskalyk** [15] – Sudbury ON  
*Green Gold: Phytoremediation of the Long Lake Gold Mine*
- 
- Kathryn Moeck** [16] – Peterborough ON  
*Evaluating Therapeutic Potential of Lactobacillus and Aspartame on Cancer Cells*

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**Jack Mogus** [13] – Bay Area ON

*Jocks, Girdles and Guards - A Dilatant Anomaly!*

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**Aditya Mohan** [17] – Ottawa ON

*Development Of A Novel Thymic Stromal Lymphopoietin Based Treatment For HIV*

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**Isabella Morgan** [18] – Eastern Newfoundland NL

*mRNA Injection for Cleft Palate*

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**Jayson Mtanos** [16] – Rive-Nord QC

*Le moteur SymBioZ*

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**Herman Müller** [13] – Prairie Valley SK

*Does the Ocean Have a Beat?*

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**Kathleen Myatt** [14] – Bluewater ON

*iScan*

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**Tasnia Nabil** [13] – Windsor ON

*NANO: Enhancing The Performance of A Solar Collector With Nanofluids*

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**Ajantha Nadesalingam** [15] – Toronto ON

*Small Particles, a Big Effect: Nanoparticles and Blood Cells*

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**Amit Nayak** [13] – Ottawa ON

*Do You Know About Cancer-Killing Natural Solutions?*

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**Daniel O'Reilly** [14] – Central Interior British Columbia BC

*The Ants Go Marching None By None*

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**Arjun Pandey** [14] – Waterloo-Wellington ON

*The Effects of Body Mass Index and Weight Loss on Pulmonary Blood Pressure*

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**Avinash Pandey** [16] – Waterloo-Wellington ON

*Addressing Forgetfulness as a Contributor to Inactivity: A Text Message Solution*

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**Victoria Platzer** [14] – Northern British Columbia BC

*Hay Aliens*

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**Jared Poole** [13] – Ottawa ON

*Lending a Helping Arm*

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**William Preston** [17] – Niagara ON

*Torsion Core "Plywood"*

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**Karishini Ramamoorthi** [18], **Smruthi Ramesh** [17] – Peel ON

*Go With The Flow: Benzoquinone-Fulvic Acid-NaCl Flow Battery*

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**Abby Calarco** [13], **Emily Anne Rutledge** [12] – East Parry Sound ON

*APParel APPEal*

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**Waleed Sawan** [12] – Thames Valley ON

*Intelligent Intersection*

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**Katie Schlosser** [14] – Bluewater ON

*Spot On! How to Create an Appaloosa Llama*

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**Emma Nicholas** [14], **Josie Short** [15] – Prairie Valley SK

*Pump It!*

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**Kristin Smith** [14] – Manitoba Schools Science Symposium MB

*Iron Ladies*

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**Ted Stuart** [15] – Simcoe County ON  
*Phosphate Filtration of Potato Wash Water*

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**Jordan Takkiruq** [13] – Kitikmeot NU  
*Which Liquid Causes Tooth Decay The Fastest?*

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**Katherine Teeter** [15] – Bluewater ON  
*Storm Force Winds: The Optimization of Building Design*

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**Kayley Ting** [13] – York ON  
*Frustration Revealed: Biofeedback*

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**Hayley Marie Todesco** [17] – Calgary Youth AB  
*Waste to Water: Biodegrading Naphthenic Acids with Novel Sand Filter Bioreactors*

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**Alex Tomala** [16] – Bay Area ON  
*An Innovative Approach to Multi-core Processor Interconnection Networks*

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**George Utsin** [16] – Waterloo-Wellington ON  
*AlgEYE: Automation of Algal Hydrogen Production*

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**Morgan Lafontaine** [17], **Emma Vanderlee** [17] – North Bay ON  
*Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...*

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**Austin Wang** [16] – Greater Vancouver BC  
*Analyzing Changes in Bacterial Communities in Microbial Fuel Cells*

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**Jami Campbell** [17], **Ashlee Wheaton** [18] – Chignecto West NS  
*Cruising Without Bruising*

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**Michael Xu** [18] – Manitoba Schools Science Symposium MB  
*Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients*

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**Kelvin Zhang** [14] – Greater Vancouver BC  
*Detecting cyber-bullying through data mining*

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#### Western University Scholarship

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

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**Angelica Alberto** [16], **Vineth Castelino** [15] – Peace Country AB  
*Socks that Block!*

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**William Bailey** [17] – Greater Vancouver BC  
*The Physics Of Curling*

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**Skylar Barkhouse** [13] – South Shore NS  
*What's The Buzz? Your Future Hearing Loss*

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**Rebecca Baron** [14] – Greater Vancouver BC  
*Household Plants, the New Air Purifiers*

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**Mitchell Beckedorf** [13] – Southeast Alberta AB  
*Enlightening Plant Growth*

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**Nitish Bhatt** [15] – Eastern Newfoundland NL  
*Forcing for Climate Change? Computational Modelling of Earth's Climate Systems*

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**Aleksa Bjelogrić** [15] – Thames Valley ON  
*Autonomous Landmine Detection System*

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### Windsor, Ontario



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<b>Jessica Bohm</b> [12] – Bay Area ON <i>How Crude is Your Oil? Comparing the Toxicity of Light and Heavy Crude Oil</i>
<b>Catherine Boisvert</b> [15], <b>Tiffany Mach</b> [15] – Montreal QC <i>Nicotine Overkill?</i>
<b>Brianna Bouius</b> [14] – Bluewater ON <i>A Fractal World</i>
<b>Kathryn Bowers</b> [17], <b>Joycelyn Moulton</b> [18] – Eastern Newfoundland NL <i>The Heinous Carcinus maenas</i>
<b>Eduard Brenninkmeijer</b> [13] – Bay Area ON <i>Flood Water Purification at Home</i>
<b>Katie Brent</b> [15] – Bay Area ON <i>Telemetric Vest: Wearable Computing for Patient Welfare</i>
<b>Noa Bridson</b> [17] – Simcoe County ON <i>The Ugly Truth</i>
<b>Caroline Burchat</b> [15], <b>Anna Supryka</b> [15] – Quinte ON <i>Shade is Cool</i>
<b>Federico Cao</b> [16], <b>Adree Khondker</b> [16] – Bay Area ON <i>Augmenting Solar Energy: Application of Thermoelectric Effect on Photovoltaics</i>
<b>Keaton Chadwick</b> [16] – Peel ON <i>Throttling a Two Stroke Engine Through Crankcase Compression</i>
<b>Marc-André Champigny</b> [17], <b>Nicolas Gagnon</b> [16] – Estrie QC <i>Un dentifrice ingénieux</i>
<b>Andrea Chan</b> [16], <b>Matt Treble</b> [17] – Vancouver Island BC <i>Using the Literacy Cube to Model Student Fluency, Comprehension and Numeracy</i>
<b>Brynn Charron</b> [18] – Windsor ON <i>Environmental Influences on the Mutational Landscape of the Mouse Genome</i>
<b>Stéphane Chenard</b> [17] – Peace Country AB <i>Fertilizer Fiasco: Is Denitrification the Answer?</i>
<b>Raphaël Claveau</b> [17] – Québec et Chaudière-Appalaches QC <i>Coronavirus tue les neurones</i>
<b>Kiri Daust</b> [16] – Pacific Northwest BC <i>Finding the Sweet Spot: the Violin-Player-Listener System</i>
<b>Theresa DeCola</b> [17] – Quinte ON <i>Implications of Dreissenid Mussel Death and Degradation on Water Quality</i>
<b>Bronwyn Delacruz</b> [15] – Peace Country AB <i>Is Radioactively Contaminated Seafood Being Sold in Canadian Grocery Stores?</i>
<b>Cassey Deveau</b> [18] – Strait NS <i>The Friendly Fire-Retardant</i>
<b>Chloe Devoy</b> [14] – Lethbridge AB <i>Detection of Antibiotic Resistant E. coli in Retail Meat</i>
<b>Zoe Dingeman</b> [17] – Calgary Youth AB <i>Algorithm for Improved Cooking Time and Temperature Estimation</i>

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### Windsor, Ontario



- 
- Stephanie Dunham** [14] – Chinook Country AB  
*Here Comes The Sun*
- 
- Kelsie Emisch** [16] – Northern Saskatchewan SK  
*Aqua Pura 2 - Water Purification With Household Materials*
- 
- Bailey Fenton** [14] – South Shore NS  
*Thrival or Survival*
- 
- Ian George** [15] – Chignecto West NS  
*That's Shocking*
- 
- Nicole Green** [14] – Central Alberta AB  
*Follow In My Footsteps: Discovering the Personality Profile of a Conformist*
- 
- Charlène Grégoire** [14] – Outaouais QC  
*Connais-tu tes tables?*
- 
- Shyla Gupta** [12] – Peel ON  
*"FISH"ing for Fatty Acids*
- 
- Clayton Harder** [13] – Northern Vancouver Island BC  
*Veggie-Ponics: Growing Above the Call of Duty*
- 
- Saharsh Hariharan** [14] – Peel ON  
*Increasing The Bioavailability Of Curcumin: A Novel Treatment for Cancer*
- 
- Brenna Howatt** [14] – Prince Edward Island PE  
*Your Attention, Please!*
- 
- Aaron Howe** [14] – Canadian Rockies AB  
*MonitorMe - The Internet of Living Things*
- 
- Parker Hoyes** [14] – Waterloo-Wellington ON  
*Trendsetter*
- 
- Denny Choi** [16], **Cindy Huang** [17] – South Fraser BC  
*Photodynamic Antimicrobial Chemotherapy (PACT) for Eradicating Mould Pathogens*
- 
- Mohamad Kadri** [16] – Thames Valley ON  
*Effect of Green Tea and Fish Oils as Novel Treatments for Cardiac Hypertrophy*
- 
- Jeannie Kakayuk** [17] – Aboriginal Québec Autochtone QC  
*Une idée brillante*
- 
- Jonathan Eenkhoorn** [17], **Daniel Kanis** [16] – Fraser Valley BC  
*Hypertos Operating System*
- 
- Vicki Kleu** [17], **Austin Sawyer** [17] – Vancouver Island BC  
*Oil RiDD'rs: Fully Biodegradable Booms for Oil Spill Recovery and Containment*
- 
- Miranda Koetsch** [15] – Fraser Valley BC  
*The Green Sticker*
- 
- Yu Chen Hou** [18], **Steven Kong** [18] – Montreal QC  
*Geographical Data I/O*
- 
- Deeksha Kundapur** [16] – Saskatoon SK  
*Determining the Potency of Various Biological Products Against *F. graminearum**
- 
- Frédérique Lacroix** [16] – Montréal CLS QC  
*Prisonniers de la toile*



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### Windsor, Ontario



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**Evan Langille** [18] – Annapolis Valley NS  
*Inhibiting Fructose Transport*

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**Robert Larsen** [15] – Prince Edward Island PE  
*Which rabbit food results in the best weight gain for young rabbits?*

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**Marina Leblanc** [13] – Sudbury ON  
*Cold Feet?*

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**Hanna LeDrew** [13] – Sunset Country ON  
*Catch of the Day*

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**Marissa Lee** [16] – Greater Vancouver BC  
*Prevalence and Consequences of GNA13 Mutations in PMBCL*

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**Jeremy Levett** [14] – Montreal QC  
*Skin Cells to Bone Marrow*

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**Emily Lind** [17] – Peterborough ON  
*The Piano Tuner's Dilemma*

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**Pearl Ayem** [15], **Ray Liu** [15] – Greater Vancouver BC  
*Concentrated Photovoltaic Thermoelectric Hybrid Systems (C.P.T.H.)*

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**Patrick Lutz** [13] – Bay Area ON  
*Eco Melt*

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**Madeleine MacDonald** [14] – Annapolis Valley NS  
*Alpaca Power: Environmentally Friendly*

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**Caroline Mahut** [15] – Bay Area ON  
*Feeding, Fueling and Forging the Future*

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**Alex Marmura** [13] – Strait NS  
*Computers Can Learn Too*

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**Matthew Martin** [12] – Toronto ON  
*Flu Vaccine - The Benefits Outweigh the Risks*

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**Shannon Jankari** [16], **Denise Mayo** [16] – Halifax NS  
*Microbes In Makeup*

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**Jennifer McTaggart** [15], **Autumn Wild** [15] – Ottawa ON  
*Clean and Green Polystyrene*

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**Maleeha Meghjee** [13] – York ON  
*The Sugar Rollercoaster*

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**Wynonna Mendoza** [13], **Alexandra Skwarchuk** [14] – Winnipeg Schools MB  
*Can We Use Plants to Control the Amount of Phosphorus in Lake Winnipeg?*

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**Else Mikkelsen** [17] – Greater Vancouver BC  
*Island Invaders*

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**Ethan Milne** [15] – Avon Maitland-Huron Perth ON  
*Ped-E-Board*

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**Maitry Mistry** [14] – Manitoba Schools Science Symposium MB  
*Fermentation of thin stillage for biofuel production by Clostridium thermocellum*

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**Callum Mitchell** [16] – Northwestern Ontario ON  
*The PipeLime: a Novel Solution to CO2 Emissions from Cars*

# Award Recipients

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<b>Shahbaz Momi</b> [13] – Niagara ON <i>T3Board - Anti-tendinitis keyless keyboard</i>
<b>Carla Bang</b> [12], <b>Julia Nguyen</b> [12] – Peel ON <i>To Kill a Mockingbug</i>
<b>Manasi Parikh</b> [18] – Peel ON <i>Prevalence of Neuropsychiatric Disorders in Patients with Ehlers-Danlos Syndrome</i>
<b>Abby Parsons</b> [13] – Avon Maitland-Huron Perth ON <i>Boys Are Gross</i>
<b>Kyle Parsons</b> [14] – North Bay ON <i>Calf's First Drink</i>
<b>Priyank Patel</b> [15] – Lambton County ON <i>You're Hot and You're Cold: Using the Seebeck Effect to Produce Usable Energy</i>
<b>Zeel Patel</b> [14] – Wood Buffalo AB <i>Herbful Herbs: Analyzing The Effectivity Of Herbs To Neutralize Pathogens</i>
<b>Nicholas Paun</b> [16] – West Kootenay & Boundary BC <i>Chemlogic: A Logic Programming Computer Chemistry System</i>
<b>Ryan Peters</b> [14] – Chinook Country AB <i>Knot Again</i>
<b>Jesse Plamondon</b> [14] – Northern British Columbia BC <i>Controlling HDR5: The H2S Detecting Rover 5</i>
<b>Kyle Plamondon</b> [17] – Northern British Columbia BC <i>Simulating the Evolution of the Hyades Star Cluster</i>
<b>Anya Pogharian</b> [17] – Montréal CLS QC <i>Hémodialyse sans gain</i>
<b>Harishitaa Prithiviraj</b> [15] – Chignecto West NS <i>Is Bigger the Better?</i>
<b>Aaron Prosper</b> [18] – Mi'kmaq First Nation NS <i>Diabetes in the Mi'kmaq Population, Why Such High Rates?</i>
<b>Tamara Radovic</b> [16] – Edmonton AB <i>Operating Chamber as Prevention to Surgical Site Infection</i>
<b>Nolan Rockwell</b> [14] – Calgary Youth AB <i>Pharmaceutical Pollution and Plants</i>
<b>Tiara Ciesielski</b> [18], <b>Sadriar Sawumma</b> [17] – North Bay ON <i>Project SP</i>
<b>Ellena Schuffert</b> [15] – Pacific Northwest BC <i>Who knew being 'dense' could be better! The Mystery of what the brain 'hears'</i>
<b>Marin Schultz</b> [13] – Lethbridge AB <i>Open-Source, Breath-Controlled Robotics for Prosthetic Applications</i>
<b>Elizabeth Schulz</b> [14] – Central Interior British Columbia BC <i>Reducing Populations of <i>Lymnae stagnalis</i> Part II</i>
<b>Dayna Schumacher</b> [17], <b>Kaley Wainwright</b> [16] – St. James-Assiniboia MB <i>Winnipeg Road Treatments</i>

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Hadia Selouani** [14] – Districts francophones du Nouveau-Brunswick (DFNB) NB  
*Un nouveau test d'analyse du syndrome d'Asperger*

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**Prachi Shah** [18] – Wood Buffalo AB  
*MOAP-1 as a Regulator of Inflammation in the Colon*

---

**Carl Shen** [16], **Gary Shen** [16] – Thames Valley ON  
*Producing Value-Added Biomaterials from Lignocellulosic Waste*

---

**Duncan Silversides** [15] – Vancouver Island BC  
*Deciding the Point: A New Curling Measuring Stick Revealed*

---

**Surat Singh** [14] – Greater Vancouver BC  
*Interactions Between Plant Hormones and Nutrients in Relation to Plant Growth*

---

**Charley Smith** [14] – Central Okanagan BC  
*Wood Fuels My Car*

---

**Melody Song** [13] – Saskatoon SK  
*Nutrients In, RFOs Out*

---

**Beth Springer** [14] – Parkland SK  
*Does Your Wood Have Gas?*

---

**Sonia Stewart** [17] – South Fraser BC  
*Monitoring Medication Adherence: Part 1*

---

**Magda Storkova** [14], **Leah Zaitlin** [14] – Calgary Youth AB  
*Water Source of Springs in Glenbow Ranch Provincial Park*

---

**Michael Tolentino** [17] – Niagara ON  
*The Vitamin A Metabolite: The Embryonic Development of *L. stagnalis**

---

**Jessica Tonn** [14] – Northern Saskatchewan SK  
*Up in Flames*

---

**Dana Torbina** [13] – Bay Area ON  
*Ultrasonic Vision*

---

**Twesh Upadhyaya** [17] – Simcoe County ON  
*Exploring Cellular Automata Music*

---

**MacKenzie Van Loon** [16] – United Counties ON  
*The Effects of Oil Spills on Marine Wildlife*

---

**Devika Vishwanath** [15] – South Fraser BC  
*Free-Space Laser Communication*

---

**Edward Wang** [17] – Peel ON  
*Identification of FtsW Lipid II Flippase Inhibitors using Computational Virtual*

---

**Kendra Fu** [15], **Joy Wang** [15] – Greater Vancouver BC  
*Targeting Glycolysis in Prostate Cancer Using ASO against MCT4*

---

**Raymond Wang** [16] – Greater Vancouver BC  
*Sustainable Smart Sanitizer*

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**Ryan Wang** [18] – Manitoba Schools Science Symposium MB  
*Identification and Functional Properties of Phosphorylation Sites on Scleraxis*

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**Tessa Warhurst** [13] – Cariboo Mainline BC  
*Who Can Find a Four Leaf Clover?*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Willow Weiler** [13] – East Parry Sound ON  
*A Sticky Situation*

---

**Caleb Winder** [14] – Lambton County ON  
*Star in a Jar*

---

**Robby Xu** [16] – York ON  
*Fertilizer from Flue: Carbon Capture and Storage using Activated Charcoal*

---

**Madeleine Yeomans** [15] – Calgary Youth AB  
*Fishing for Microplastics*

---

**Anastasia Young** [12] – Ottawa ON  
*Turn It Up (Our Perception of Loudness)*

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**Max Yuan** [17] – Northwestern Ontario ON  
*Investigating the Leidenfrost Effect on the Hydrodynamic Efficiency of a Ship*

---

**Kaden Zmeko** [13] – Lethbridge AB  
*Efficient Lighting Options vs. The Banned Incandescent*

---

**William Zou** [17] – York ON  
*New Algorithms for Approximating Logarithms With k-th Order*

---

#### University of Ottawa Entrance Scholarship

##### Senior Gold Medallist - \$4,000 Entrance Scholarship

Sponsor: University of Ottawa

The University of Ottawa offers entrance scholarships of \$4,000 to each gold medal winning senior finalist; \$2,000 to each silver medal winning senior finalist; and \$1,000 to each bronze medal winning senior finalist.

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**Meagan Haugen-Koechl** [17] – Northern British Columbia BC  
*Feeding the Bumblebees: Analysis of Fatty Acids from Peace River Pollen*

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**Cameron Lennox** [17] – Montréal CLS QC  
*Au-delà de Pasteur*

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**Che-Min Lee** [16], **Edwina Liu** [16] – Edmonton AB  
*Metabolism: The Achilles Heel of Prostate Cancer?*

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**Robert MacDonald** [17] – Halifax NS  
*Severe Tornado Outbreaks: Finding Mechanical and Thermodynamic Relationships*

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**Daniel McInnis** [16] – Ottawa ON  
*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

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**Emily O'Reilly** [16] – Central Interior British Columbia BC  
*Ancient Knowledge - Modern Approach*

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**Mikaela Preston** [17] – York ON  
*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

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**Ankita Saxena** [17] – Calgary Youth AB  
*Investigating Protein Aggregation States in AD and TBI using CSM*

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**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON  
*The Calculated Crisis*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Nart Barileva [17], Aagnik Pant [17]** – Bay Area ON

*Solvent-Based Cellulose Crystallinity Minimization to Improve Biofuel Production*

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**Noah Bergmann [16]** – Cariboo Mainline BC

*The Musician's Toolbox*

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**Mark Hewitt [17]** – Eastern Newfoundland NL

*Can Popular Acne Treatments Stimulate or Exacerbate Cancer Growth?*

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**SeonHo Jang [16]** – Thames Valley ON

*Progression of Intervertebral Disc Degeneration in Mice Lacking Expression of CCN*

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**Bennett Leong [18]** – Calgary Youth AB

*De-icing Light Aircraft*

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**Victor Ling [17]** – Thames Valley ON

*Unlocking the Geology of Mars*

---

**Thomas Dupré [16], Philippe Massicotte [17]** – Mauricie, Centre-du-Québec QC

*Tiens-toi droit!*

---

**Alex Millar [16], Marika Moskalyk [15]** – Sudbury ON

*Green Gold: Phytoremediation of the Long Lake Gold Mine*

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**Kathryn Moeck [16]** – Peterborough ON

*Evaluating Therapeutic Potential of Lactobacillus and Aspartame on Cancer Cells*

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*mRNA Injection for Cleft Palate*

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*Torsion Core "Plywood"*

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*AlgEYE: Automation of Algal Hydrogen Production*

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*Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...*

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**Jami Campbell [17], Ashlee Wheaton [18]** – Chignecto West NS

*Cruising Without Bruising*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Michael Xu** [18] – Manitoba Schools Science Symposium MB  
*Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients*

---

#### University of Ottawa Entrance Scholarship

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

Sponsor: University of Ottawa

The University of Ottawa offers entrance scholarships of \$4,000 to each gold medal winning senior finalist; \$2,000 to each silver medal winning senior finalist; and \$1,000 to each bronze medal winning senior finalist.

---

**William Bailey** [17] – Greater Vancouver BC  
*The Physics Of Curling*

---

**Kathryn Bowers** [17], **Joycelyn Moulton** [18] – Eastern Newfoundland NL  
*The Heinous Carcinus maenas*

---

**Noa Bridson** [17] – Simcoe County ON  
*The Ugly Truth*

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**Federico Cao** [16], **Adree Khondker** [16] – Bay Area ON  
*Augmenting Solar Energy: Application of Thermoelectric Effect on Photovoltaics*

---

**Marc-André Champigny** [17], **Nicolas Gagnon** [16] – Estrie QC  
*Un dentifrice ingénieux*

---

**Andrea Chan** [16], **Matt Treble** [17] – Vancouver Island BC  
*Using the Literacy Cube to Model Student Fluency, Comprehension and Numeracy*

---

**Brynn Charron** [18] – Windsor ON  
*Environmental Influences on the Mutational Landscape of the Mouse Genome*

---

**Stéphane Chenard** [17] – Peace Country AB  
*Fertilizer Fiasco: Is Denitrification the Answer?*

---

**Raphaël Claveau** [17] – Québec et Chaudière-Appalaches QC  
*Coronavirus tue les neurones*

---

**Kiri Daust** [16] – Pacific Northwest BC  
*Finding the Sweet Spot: the Violin-Player-Listener System*

---

**Theresa DeCola** [17] – Quinte ON  
*Implications of Dreissenid Mussel Death and Degradation on Water Quality*

---

**Cassey Deveau** [18] – Strait NS  
*The Friendly Fire-Retardant*

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**Zoe Dingeman** [17] – Calgary Youth AB  
*Algorithm for Improved Cooking Time and Temperature Estimation*

---

**Kelsie Emisch** [16] – Northern Saskatchewan SK  
*Aqua Pura 2 - Water Purification With Household Materials*

---

**Denny Choi** [16], **Cindy Huang** [17] – South Fraser BC  
*Photodynamic Antimicrobial Chemotherapy (PACT) for Eradicating Mould Pathogens*

---

**Jeannie Kakayuk** [17] – Aboriginal Québec Autochtone QC  
*Une idée brillante*

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**Jonathan Eenkhoorn** [17], **Daniel Kanis** [16] – Fraser Valley BC  
*Hypertos Operating System*

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**Vicki Kleu** [17], **Austin Sawyer** [17] – Vancouver Island BC  
*Oil RiDD'rs: Fully Biodegradable Booms for Oil Spill Recovery and Containment*

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# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



- 
- Yu Chen Hou [18], Steven Kong [18]** – Montreal QC  
*Geographical Data I/O*
- 
- Deeksha Kundapur [16]** – Saskatoon SK  
*Determining the Potency of Various Biological Products Against *F. graminearum**
- 
- Evan Langille [18]** – Annapolis Valley NS  
*Inhibiting Fructose Transport*
- 
- Marissa Lee [16]** – Greater Vancouver BC  
*Prevalence and Consequences of GNA13 Mutations in PMBCL*
- 
- Emily Lind [17]** – Peterborough ON  
*The Piano Tuner's Dilemma*
- 
- Else Mikkelsen [17]** – Greater Vancouver BC  
*Island Invaders*
- 
- Callum Mitchell [16]** – Northwestern Ontario ON  
*The PipeLime: a Novel Solution to CO2 Emissions from Cars*
- 
- Manasi Parikh [18]** – Peel ON  
*Prevalence of Neuropsychiatric Disorders in Patients with Ehlers-Danlos Syndrome*
- 
- Kyle Plamondon [17]** – Northern British Columbia BC  
*Simulating the Evolution of the Hyades Star Cluster*
- 
- Anya Pogharian [17]** – Montréal CLS QC  
*Hémodialyse sans gain*
- 
- Aaron Prosper [18]** – Mi'kmaq First Nation NS  
*Diabetes in the Mi'kmaq Population, Why Such High Rates?*
- 
- Tiara Ciesielski [18], Sadriar Sawumma [17]** – North Bay ON  
*Project SP*
- 
- Dayna Schumacher [17], Kaley Wainwright [16]** – St. James-Assiniboia MB  
*Winnipeg Road Treatments*
- 
- Prachi Shah [18]** – Wood Buffalo AB  
*MOAP-1 as a Regulator of Inflammation in the Colon*
- 
- Carl Shen [16], Gary Shen [16]** – Thames Valley ON  
*Producing Value-Added Biomaterials from Lignocellulosic Waste*
- 
- Sonia Stewart [17]** – South Fraser BC  
*Monitoring Medication Adherence: Part 1*
- 
- Michael Tolentino [17]** – Niagara ON  
*The Vitamin A Metabolite: The Embryonic Development of *L. stagnalis**
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- Twesh Upadhyaya [17]** – Simcoe County ON  
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- 
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*Identification and Functional Properties of Phosphorylation Sites on Scleraxis*
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- Max Yuan [17]** – Northwestern Ontario ON  
*Investigating the Leidenfrost Effect on the Hydrodynamic Efficiency of a Ship*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**William Zou** [17] – York ON

*New Algorithms for Approximating Logarithms With k-th Order*

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#### University of Manitoba Entrance Scholarship

##### Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: University of Manitoba

The Office of the Vice-President (Research & International) at the University of Manitoba offers a renewable entrance scholarship for students who have been awarded a Gold Medal for a senior project at the Youth Science Canada's - Canada-Wide Science Fair.

The award is renewable, at the same value, in the second year of study provided that the recipient:

1. continues to be enrolled full-time (minimum 24 credit hours) in any faculty or school, excepting the Faculty of Graduate Studies;

---

**Meagan Haugen-Koechl** [17] – Northern British Columbia BC

*Feeding the Bumblebees: Analysis of Fatty Acids from Peace River Pollen*

---

**Cameron Lennox** [17] – Montréal CLS QC

*Au-delà de Pasteur*

---

**Che-Min Lee** [16], **Edwina Liu** [16] – Edmonton AB

*Metabolism: The Achilles Heel of Prostate Cancer?*

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*Severe Tornado Outbreaks: Finding Mechanical and Thermodynamic Relationships*

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**Ankita Saxena** [17] – Calgary Youth AB

*Investigating Protein Aggregation States in AD and TBI using CSM*

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**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON

*The Calculated Crisis*

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#### UBC Science (Vancouver) Entrance Award

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

Sponsor: The University of British Columbia (Vancouver)

A UBC Vancouver Science entrance scholarship is offered, \$4,000 to each senior gold medalist and \$2,000 to each senior silver medalist. To be eligible for the scholarships, finalists must be admitted to the UBC Faculty of Science (Vancouver campus) and register directly from secondary school. Winners who are in grade eleven may defer the award for one year.

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# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Che-Min Lee** [16], **Edwina Liu** [16] – Edmonton AB  
*Metabolism: The Achilles Heel of Prostate Cancer?*

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**Robert MacDonald** [17] – Halifax NS  
*Severe Tornado Outbreaks: Finding Mechanical and Thermodynamic Relationships*

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**Daniel McInnis** [16] – Ottawa ON  
*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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**Arjun Nair** [17] – Calgary Youth AB  
*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

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**Emily O'Reilly** [16] – Central Interior British Columbia BC  
*Ancient Knowledge - Modern Approach*

---

**Mikaela Preston** [17] – York ON  
*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

---

**Ankita Saxena** [17] – Calgary Youth AB  
*Investigating Protein Aggregation States in AD and TBI using CSM*

---

**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON  
*The Calculated Crisis*

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#### UBC Science (Vancouver) Entrance Award

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

Sponsor: The University of British Columbia (Vancouver)

A UBC Vancouver Science entrance scholarship is offered, \$4,000 to each senior gold medalist and \$2,000 to each senior silver medalist. To be eligible for the scholarships, finalists must be admitted to the UBC Faculty of Science (Vancouver campus) and register directly from secondary school. Winners who are in grade eleven may defer the award for one year.

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**Nart Barileva** [17], **Aagnik Pant** [17] – Bay Area ON  
*Solvent-Based Cellulose Crystallinity Minimization to Improve Biofuel Production*

---

**Noah Bergmann** [16] – Cariboo Mainline BC  
*The Musician's Toolbox*

---

**Mark Hewitt** [17] – Eastern Newfoundland NL  
*Can Popular Acne Treatments Stimulate or Exacerbate Cancer Growth?*

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**SeonHo Jang** [16] – Thames Valley ON  
*Progression of Intervertebral Disc Degeneration in Mice Lacking Expression of CCN*

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**Bennett Leong** [18] – Calgary Youth AB  
*De-icing Light Aircraft*

---

**Victor Ling** [17] – Thames Valley ON  
*Unlocking the Geology of Mars*

---

**Thomas Dupré** [16], **Philippe Massicotte** [17] – Mauricie, Centre-du-Québec QC  
*Tiens-toi droit!*

---

**Alex Millar** [16], **Marika Moskalyk** [15] – Sudbury ON  
*Green Gold: Phytoremediation of the Long Lake Gold Mine*

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**Kathryn Moeck** [16] – Peterborough ON  
*Evaluating Therapeutic Potential of Lactobacillus and Aspartame on Cancer Cells*

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**Aditya Mohan** [17] – Ottawa ON  
*Development Of A Novel Thymic Stromal Lymphopoietin Based Treatment For HIV*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



---

**Isabella Morgan** [18] – Eastern Newfoundland NL  
*mRNA Injection for Cleft Palate*

---

**Avinash Pandey** [16] – Waterloo-Wellington ON  
*Addressing Forgetfulness as a Contributor to Inactivity: A Text Message Solution*

---

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*Torsion Core "Plywood"*

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**Karishini Ramamoorthi** [18], **Smruthi Ramesh** [17] – Peel ON  
*Go With The Flow: Benzoquinone-Fulvic Acid-NaCl Flow Battery*

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*Waste to Water: Biodegrading Naphthenic Acids with Novel Sand Filter Bioreactors*

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**Alex Tomala** [16] – Bay Area ON  
*An Innovative Approach to Multi-core Processor Interconnection Networks*

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*AlgEYE: Automation of Algal Hydrogen Production*

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**Morgan Lafontaine** [17], **Emma Vanderlee** [17] – North Bay ON  
*Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...*

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**Jami Campbell** [17], **Ashlee Wheaton** [18] – Chignecto West NS  
*Cruising Without Bruising*

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**Michael Xu** [18] – Manitoba Schools Science Symposium MB  
*Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients*

---

#### Dalhousie University Faculty of Science Entrance Scholarship

##### Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: Dalhousie University, Faculty of Science

A Dalhousie University Faculty of Science entrance scholarship of \$5,000 is offered to each gold medal winning senior finalist. A Dalhousie University Faculty of Science entrance scholarship of \$2,500 is offered to each silver medal winning senior finalist.

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**Meagan Haugen-Koechl** [17] – Northern British Columbia BC  
*Feeding the Bumblebees: Analysis of Fatty Acids from Peace River Pollen*

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**Ankita Saxena** [17] – Calgary Youth AB  
*Investigating Protein Aggregation States in AD and TBI using CSM*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Kevin Dong [18], Kevin Strauss [16]** – Waterloo-Wellington ON  
*The Calculated Crisis*

---

#### Dalhousie University Faculty of Science Entrance Scholarship

##### Senior Silver Medallist - \$2500 Entrance Scholarship

Sponsor: Dalhousie University, Faculty of Science

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*Unlocking the Geology of Mars*

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**Morgan Lafontaine [17], Emma Vanderlee [17]** – North Bay ON  
*Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...*

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# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Jami Campbell [17], Ashlee Wheaton [18]** – Chignecto West NS  
*Cruising Without Bruising*

---

**Michael Xu [18]** – Manitoba Schools Science Symposium MB  
*Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients*

---

#### Excellence Award - Senior

##### Gold Medal

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

---

**Meagan Haugen-Koechl [17]** – Northern British Columbia BC  
*Feeding the Bumblebees: Analysis of Fatty Acids from Peace River Pollen*

---

**Cameron Lennox [17]** – Montréal CLS QC  
*Au-delà de Pasteur*

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*Metabolism: The Achilles Heel of Prostate Cancer?*

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*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

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*Ancient Knowledge - Modern Approach*

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*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

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**Ankita Saxena [17]** – Calgary Youth AB  
*Investigating Protein Aggregation States in AD and TBI using CSM*

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**Kevin Dong [18], Kevin Strauss [16]** – Waterloo-Wellington ON  
*The Calculated Crisis*

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#### Excellence Award - Intermediate

##### Gold Medal

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

---

**Aidan Aird [14]** – York ON  
*The Turbo-Eco Cookstove Plus: Improving Living Conditions in Developing Nations*

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**Candace Brooks-Da Silva [14]** – Windsor ON  
*Greening the Blue Skies: Reducing Induced Drag From Trailing Vortices*

---

**Maya Burhanpurkar [15]** – Simcoe County ON  
*The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics*

---

**Abhishek Chakraborty [15]** – Montreal QC  
*Effects of Folic Acid on Cells*

---

**Sunand Kannappan [15]** – Calgary Youth AB  
*Investigating the Correlation Between CDK5RAP2 and NSCLC*

---

**Nathan Kuehne [16]** – Vancouver Island BC  
*Early Cancer Detection: A Fluorescence-Based Approach*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Benjamin Liu** [15] – Manitoba Schools Science Symposium MB  
*FAE1 gene markers for identification of high erucic acid Brassica napus plants*

---

**Devanshi Shukla** [16] – Waterloo-Wellington ON  
*Quorum sensing: A novel approach for identifying anti-microbial herbal plants*

---

**Katherine Sirois** [16] – Montérégie QC  
*Coup de cœur : garde le rythme*

---

**Kelly Yang** [14] – Northwestern Ontario ON  
*Anti-Aging and UV Protection: Dandelion is the Answer*

---

#### Excellence Award - Junior

##### Gold Medal

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

---

**Elias Andersen** [14] – Simcoe County ON  
*Cold Cuts: A Cooled Cutting Board Using Peltier Technology*

---

**Shruthi Bandi** [13] – Prince Edward Island PE  
*How are Microorganisms Useful to Humans? Part 2*

---

**Alex Chan** [13], **Nathan Pilkey** [12] – Frontenac, Lennox & Addington ON  
*Peltier Power: Scavenging Heat From Solar Panels to Generate Electricity*

---

**Emily Cross** [14] – Northwestern Ontario ON  
*Effects of Acid/Base Solutions on Knightia Fossils and Taphonomy of Descendants*

---

**William Harvey** [14] – Saguenay-Lac Saint-Jean QC  
*Un arbre de Noël dans les yeux*

---

**Thomas Imbeault-Nepton** [13] – Saguenay-Lac Saint-Jean QC  
*Au rythme de l'haptique*

---

**Brielle Lillywhite** [13] – Chinook Country AB  
*Fight the Bite - Will they Choose Dark or Light?*

---

**Grant Mansiere** [14] – Central Okanagan BC  
*Does Light Cause Crime?*

---

**Isabella O'Brien** [12] – Bay Area ON  
*Trouble in Paradise: Can shell recycling help buffer ocean acidification?*

---

**Holly Tetzlaff** [13] – Quinte ON  
*Environmental Impact of Shifting Consumer Hygiene Trends*

---

#### Excellence Award - Senior

##### Silver Medal

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

---

**Nart Barileva** [17], **Aagnik Pant** [17] – Bay Area ON  
*Solvent-Based Cellulose Crystallinity Minimization to Improve Biofuel Production*

---

**Noah Bergmann** [16] – Cariboo Mainline BC  
*The Musician's Toolbox*

---

**Mark Hewitt** [17] – Eastern Newfoundland NL  
*Can Popular Acne Treatments Stimulate or Exacerbate Cancer Growth?*

---

**SeonHo Jang** [16] – Thames Valley ON  
*Progression of Intervertebral Disc Degeneration in Mice Lacking Expression of CCN*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



---

**Bennett Leong** [18] – Calgary Youth AB  
*De-icing Light Aircraft*

---

**Victor Ling** [17] – Thames Valley ON  
*Unlocking the Geology of Mars*

---

**Thomas Dupré** [16], **Philippe Massicotte** [17] – Mauricie, Centre-du-Québec QC  
*Tiens-toi droit!*

---

**Alex Millar** [16], **Marika Moskalyk** [15] – Sudbury ON  
*Green Gold: Phytoremediation of the Long Lake Gold Mine*

---

**Kathryn Moeck** [16] – Peterborough ON  
*Evaluating Therapeutic Potential of Lactobacillus and Aspartame on Cancer Cells*

---

**Aditya Mohan** [17] – Ottawa ON  
*Development Of A Novel Thymic Stromal Lymphopoietin Based Treatment For HIV*

---

**Isabella Morgan** [18] – Eastern Newfoundland NL  
*mRNA Injection for Cleft Palate*

---

**Avinash Pandey** [16] – Waterloo-Wellington ON  
*Addressing Forgetfulness as a Contributor to Inactivity: A Text Message Solution*

---

**William Preston** [17] – Niagara ON  
*Torsion Core "Plywood"*

---

**Karishini Ramamoorthi** [18], **Smruthi Ramesh** [17] – Peel ON  
*Go With The Flow: Benzoquinone-Fulvic Acid-NaCl Flow Battery*

---

**Hayley Marie Todesco** [17] – Calgary Youth AB  
*Waste to Water: Biodegrading Naphthenic Acids with Novel Sand Filter Bioreactors*

---

**Alex Tomala** [16] – Bay Area ON  
*An Innovative Approach to Multi-core Processor Interconnection Networks*

---

**George Utsin** [16] – Waterloo-Wellington ON  
*AlgEYE: Automation of Algal Hydrogen Production*

---

**Morgan Lafontaine** [17], **Emma Vanderlee** [17] – North Bay ON  
*Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...*

---

**Jami Campbell** [17], **Ashlee Wheaton** [18] – Chignecto West NS  
*Cruising Without Bruising*

---

**Michael Xu** [18] – Manitoba Schools Science Symposium MB  
*Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients*

---

#### Excellence Award - Intermediate

##### Silver Medal

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Owen Bai** [15] – Northwestern Ontario ON  
*From Lignin to Bioplastics!*

---

**Harshil Bhesania** [15] – Wood Buffalo AB  
*Veggie Plastics*

---

**Sascha Bodak** [15] – Thames Valley ON  
*The Science of Music: Studying the Relationship between Musical Enjoyment and...*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



---

**Thian Carman** [15] – Tri-County NS

*Musical Eggs*

---

**Donovan Cassidy-Nolan** [17] – Annapolis Valley NS

*Pitch Please!*

---

**Abhi Gupta** [14] – Windsor ON

*iWriter: A Novel Method of Communication for ALS Patients*

---

**Andrew Ilyas** [14] – Waterloo-Wellington ON

*Microfilters: Harnessing Twitter For Disaster Management*

---

**Roman Kozak** [15] – Niagara ON

*VAVI: Virtual Aid for the Visually Impaired*

---

**James Lees** [16] – Chignecto East NS

*F.E.R.E.C: A Fuel for the Future*

---

**Lior Levy** [15], **Roi Levy** [14] – Toronto ON

*One Little Cell, A World of Possibilities*

---

**Edward Li** [16], **Andi Shahaj** [16] – York ON

*Agricultural Antiperspirants: Controlling Stomata using Hygroscopic Compounds*

---

**Meaghan MacKenzie** [14] – South Fraser BC

*Uncovering The Truth About Coal Dust in South Delta*

---

**Jayson Mtanos** [16] – Rive-Nord QC

*Le moteur SymBioZ*

---

**Ajantha Nadesalingam** [15] – Toronto ON

*Small Particles, a Big Effect: Nanoparticles and Blood Cells*

---

**Daniel O'Reilly** [14] – Central Interior British Columbia BC

*The Ants Go Marching None By None*

---

**Arjun Pandey** [14] – Waterloo-Wellington ON

*The Effects of Body Mass Index and Weight Loss on Pulmonary Blood Pressure*

---

**Emma Nicholas** [14], **Josie Short** [15] – Prairie Valley SK

*Pump It!*

---

**Ted Stuart** [15] – Simcoe County ON

*Phosphate Filtration of Potato Wash Water*

---

**Katherine Teeter** [15] – Bluewater ON

*Storm Force Winds: The Optimization of Building Design*

---

**Austin Wang** [16] – Greater Vancouver BC

*Analyzing Changes in Bacterial Communities in Microbial Fuel Cells*

---

#### Excellence Award - Junior

##### Silver Medal

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

---

**Catherine Beaudin** [13] – Ottawa ON

*Mass transfer: A treatment for heart disease?*

---

**Olivier Bélec** [12] – Montérégie QC

*Quel âge ont vos oreilles?*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



---

**Rachel Brouwer** [12] – Halifax NS

*Can we Improve the Quality of H2O in 3rd World Countries*

---

**Chloe Chen** [14] – Greater Vancouver BC

*A Better Wind Turbine - The C Airfoil*

---

**Tahmid Khan** [13] – Calgary Youth AB

*Exploring Piezoelectricity*

---

**Dylan Layton-Matthews** [13] – Frontenac, Lennox & Addington ON

*A Thaw-ful Situation: A Freezing Apparatus for Experimental Permafrost Failure*

---

**Jack Mogus** [13] – Bay Area ON

*Jocks, Girdles and Guards - A Dilatant Anomaly!*

---

**Herman Müller** [13] – Prairie Valley SK

*Does the Ocean Have a Beat?*

---

**Kathleen Myatt** [14] – Bluewater ON

*iScan*

---

**Tasnia Nabil** [13] – Windsor ON

*NANO: Enhancing The Performance of A Solar Collector With Nanofluids*

---

**Amit Nayak** [13] – Ottawa ON

*Do You Know About Cancer-Killing Natural Solutions?*

---

**Victoria Platzer** [14] – Northern British Columbia BC

*Hay Aliens*

---

**Jared Poole** [13] – Ottawa ON

*Lending a Helping Arm*

---

**Abby Calarco** [13], **Emily Anne Rutledge** [12] – East Parry Sound ON

*APParel APPEal*

---

**Waleed Sawan** [12] – Thames Valley ON

*Intelligent Intersection*

---

**Katie Schlosser** [14] – Bluewater ON

*Spot On! How to Create an Appaloosa Llama*

---

**Kristin Smith** [14] – Manitoba Schools Science Symposium MB

*Iron Ladies*

---

**Jordan Takkiruuq** [13] – Kitikmeot NU

*Which Liquid Causes Tooth Decay The Fastest?*

---

**Kayley Ting** [13] – York ON

*Frustration Revealed: Biofeedback*

---

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

*Detecting cyber-bullying through data mining*

---

#### Excellence Award - Senior

##### Bronze Medal

Sponsor: Nuclear Waste Management Organization  
Medal, \$100 cash & certificate

---

**William Bailey** [17] – Greater Vancouver BC

*The Physics Of Curling*



# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



---

**Kathryn Bowers [17], Joycelyn Moulton [18]** – Eastern Newfoundland NL  
*The Heinous Carcinus maenas*

---

**Noa Bridson [17]** – Simcoe County ON  
*The Ugly Truth*

---

**Federico Cao [16], Adree Khondker [16]** – Bay Area ON  
*Augmenting Solar Energy: Application of Thermoelectric Effect on Photovoltaics*

---

**Marc-André Champigny [17], Nicolas Gagnon [16]** – Estrie QC  
*Un dentifrice ingénieux*

---

**Andrea Chan [16], Matt Treble [17]** – Vancouver Island BC  
*Using the Literacy Cube to Model Student Fluency, Comprehension and Numeracy*

---

**Brynn Charron [18]** – Windsor ON  
*Environmental Influences on the Mutational Landscape of the Mouse Genome*

---

**Stéphane Chenard [17]** – Peace Country AB  
*Fertilizer Fiasco: Is Denitrification the Answer?*

---

**Raphaël Claveau [17]** – Québec et Chaudière-Appalaches QC  
*Coronavirus tue les neurones*

---

**Kiri Daust [16]** – Pacific Northwest BC  
*Finding the Sweet Spot: the Violin-Player-Listener System*

---

**Theresa DeCola [17]** – Quinte ON  
*Implications of Dreissenid Mussel Death and Degradation on Water Quality*

---

**Cassey Deveau [18]** – Strait NS  
*The Friendly Fire-Retardant*

---

**Zoe Dingeman [17]** – Calgary Youth AB  
*Algorithm for Improved Cooking Time and Temperature Estimation*

---

**Kelsie Emisch [16]** – Northern Saskatchewan SK  
*Aqua Pura 2 - Water Purification With Household Materials*

---

**Denny Choi [16], Cindy Huang [17]** – South Fraser BC  
*Photodynamic Antimicrobial Chemotherapy (PACT) for Eradicating Mould Pathogens*

---

**Jeannie Kakayuk [17]** – Aboriginal Québec Autochtone QC  
*Une idée brillante*

---

**Jonathan Eenkhoorn [17], Daniel Kanis [16]** – Fraser Valley BC  
*Hypertos Operating System*

---

**Vicki Kleu [17], Austin Sawyer [17]** – Vancouver Island BC  
*Oil RiDD'rs: Fully Biodegradable Booms for Oil Spill Recovery and Containment*

---

**Yu Chen Hou [18], Steven Kong [18]** – Montreal QC  
*Geographical Data I/O*

---

**Deeksha Kundapur [16]** – Saskatoon SK  
*Determining the Potency of Various Biological Products Against *F. graminearum**

---

**Evan Langille [18]** – Annapolis Valley NS  
*Inhibiting Fructose Transport*

---

**Marissa Lee [16]** – Greater Vancouver BC  
*Prevalence and Consequences of GNA13 Mutations in PMBCL*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Emily Lind** [17] – Peterborough ON  
*The Piano Tuner's Dilemma*

---

**Else Mikkelsen** [17] – Greater Vancouver BC  
*Island Invaders*

---

**Callum Mitchell** [16] – Northwestern Ontario ON  
*The PipeLime: a Novel Solution to CO2 Emissions from Cars*

---

**Manasi Parikh** [18] – Peel ON  
*Prevalence of Neuropsychiatric Disorders in Patients with Ehlers-Danlos Syndrome*

---

**Kyle Plamondon** [17] – Northern British Columbia BC  
*Simulating the Evolution of the Hyades Star Cluster*

---

**Anya Pogharian** [17] – Montréal CLS QC  
*Hémodialyse sans gain*

---

**Aaron Prosper** [18] – Mi'kmaq First Nation NS  
*Diabetes in the Mi'kmaq Population, Why Such High Rates?*

---

**Tiara Ciesielski** [18], **Sadriar Sawumma** [17] – North Bay ON  
*Project SP*

---

**Dayna Schumacher** [17], **Kaley Wainwright** [16] – St. James-Assiniboia MB  
*Winnipeg Road Treatments*

---

**Prachi Shah** [18] – Wood Buffalo AB  
*MOAP-1 as a Regulator of Inflammation in the Colon*

---

**Carl Shen** [16], **Gary Shen** [16] – Thames Valley ON  
*Producing Value-Added Biomaterials from Lignocellulosic Waste*

---

**Sonia Stewart** [17] – South Fraser BC  
*Monitoring Medication Adherence: Part 1*

---

**Michael Tolentino** [17] – Niagara ON  
*The Vitamin A Metabolite: The Embryonic Development of *L. stagnalis**

---

**Twesh Upadhyaya** [17] – Simcoe County ON  
*Exploring Cellular Automata Music*

---

**Edward Wang** [17] – Peel ON  
*Identification of FtsW Lipid II Flippase Inhibitors using Computational Virtual*

---

**Ryan Wang** [18] – Manitoba Schools Science Symposium MB  
*Identification and Functional Properties of Phosphorylation Sites on Scleraxis*

---

**Max Yuan** [17] – Northwestern Ontario ON  
*Investigating the Leidenfrost Effect on the Hydrodynamic Efficiency of a Ship*

---

**William Zou** [17] – York ON  
*New Algorithms for Approximating Logarithms With *k*-th Order*

---

#### Excellence Award - Intermediate

##### Bronze Medal

Sponsor: Nuclear Waste Management Organization  
Medal, \$100 cash & certificate

---

**Angelica Alberto** [16], **Vineth Castelino** [15] – Peace Country AB  
*Socks that Block!*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Nitish Bhatt** [15] – Eastern Newfoundland NL  
*Forcing for Climate Change? Computational Modelling of Earth's Climate Systems*

---

**Aleksa Bjelogrić** [15] – Thames Valley ON  
*Autonomous Landmine Detection System*

---

**Catherine Boisvert** [15], **Tiffany Mach** [15] – Montreal QC  
*Nicotine Overkill?*

---

**Katie Brent** [15] – Bay Area ON  
*Telemetric Vest: Wearable Computing for Patient Welfare*

---

**Caroline Burchat** [15], **Anna Supryka** [15] – Quinte ON  
*Shade is Cool*

---

**Keaton Chadwick** [16] – Peel ON  
*Throttling a Two Stroke Engine Through Crankcase Compression*

---

**Bronwyn Delacruz** [15] – Peace Country AB  
*Is Radioactively Contaminated Seafood Being Sold in Canadian Grocery Stores?*

---

**Chloe Devoy** [14] – Lethbridge AB  
*Detection of Antibiotic Resistant E. coli in Retail Meat*

---

**Bailey Fenton** [14] – South Shore NS  
*Thrival or Survival*

---

**Ian George** [15] – Chignecto West NS  
*That's Shocking*

---

**Charlène Grégoire** [14] – Outaouais QC  
*Connais-tu tes tables?*

---

**Aaron Howe** [14] – Canadian Rockies AB  
*MonitorMe - The Internet of Living Things*

---

**Mohamad Kadri** [16] – Thames Valley ON  
*Effect of Green Tea and Fish Oils as Novel Treatments for Cardiac Hypertrophy*

---

**Miranda Koetsch** [15] – Fraser Valley BC  
*The Green Sticker*

---

**Frédérique Lacroix** [16] – Montréal CLS QC  
*Prisonniers de la toile*

---

**Robert Larsen** [15] – Prince Edward Island PE  
*Which rabbit food results in the best weight gain for young rabbits?*

---

**Jeremy Levett** [14] – Montreal QC  
*Skin Cells to Bone Marrow*

---

**Pearl Ayem** [15], **Ray Liu** [15] – Greater Vancouver BC  
*Concentrated Photovoltaic Thermoelectric Hybrid Systems (C.P.T.H.)*

---

**Caroline Mahut** [15] – Bay Area ON  
*Feeding, Fueling and Forging the Future*

---

**Shannon Jankari** [16], **Denise Mayo** [16] – Halifax NS  
*Microbes In Makeup*

---

**Jennifer McTaggart** [15], **Autumn Wild** [15] – Ottawa ON  
*Clean and Green Polystyrene*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



---

**Ethan Milne** [15] – Avon Maitland-Huron Perth ON  
*Ped-E-Board*

---

**Priyank Patel** [15] – Lambton County ON  
*You're Hot and You're Cold: Using the Seebeck Effect to Produce Usable Energy*

---

**Nicholas Paun** [16] – West Kootenay & Boundary BC  
*Chemlogic: A Logic Programming Computer Chemistry System*

---

**Harishitaa Prithiviraj** [15] – Chignecto West NS  
*Is Bigger the Better?*

---

**Tamara Radovic** [16] – Edmonton AB  
*Operating Chamber as Prevention to Surgical Site Infection*

---

**Nolan Rockwell** [14] – Calgary Youth AB  
*Pharmaceutical Pollution and Plants*

---

**Ellena Schuffert** [15] – Pacific Northwest BC  
*Who knew being 'dense' could be better! The Mystery of what the brain 'hears'*

---

**Elizabeth Schulz** [14] – Central Interior British Columbia BC  
*Reducing Populations of *Lymnae stagnalis* Part II*

---

**Duncan Silversides** [15] – Vancouver Island BC  
*Deciding the Point: A New Curling Measuring Stick Revealed*

---

**Surat Singh** [14] – Greater Vancouver BC  
*Interactions Between Plant Hormones and Nutrients in Relation to Plant Growth*

---

**Magda Storkova** [14], **Leah Zaitlin** [14] – Calgary Youth AB  
*Water Source of Springs in Glenbow Ranch Provincial Park*

---

**MacKenzie Van Loon** [16] – United Counties ON  
*The Effects of Oil Spills on Marine Wildlife*

---

**Devika Vishwanath** [15] – South Fraser BC  
*Free-Space Laser Communication*

---

**Kendra Fu** [15], **Joy Wang** [15] – Greater Vancouver BC  
*Targeting Glycolysis in Prostate Cancer Using ASO against MCT4*

---

**Raymond Wang** [16] – Greater Vancouver BC  
*Sustainable Smart Sanitizer*

---

**Caleb Winder** [14] – Lambton County ON  
*Star in a Jar*

---

**Robby Xu** [16] – York ON  
*Fertilizer from Flue: Carbon Capture and Storage using Activated Charcoal*

---

**Madeleine Yeomans** [15] – Calgary Youth AB  
*Fishing for Microplastics*

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#### Excellence Award - Junior

##### Bronze Medal

Sponsor: Nuclear Waste Management Organization  
Medal, \$100 cash & certificate

---

**Skyler Barkhouse** [13] – South Shore NS  
*What's The Buzz? Your Future Hearing Loss*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



- 
- Rebecca Baron** [14] – Greater Vancouver BC  
*Household Plants, the New Air Purifiers*
- 
- Mitchell Beckedorf** [13] – Southeast Alberta AB  
*Enlightening Plant Growth*
- 
- Jessica Bohm** [12] – Bay Area ON  
*How Crude is Your Oil? Comparing the Toxicity of Light and Heavy Crude Oil*
- 
- Brianna Bouius** [14] – Bluewater ON  
*A Fractal World*
- 
- Eduard Brenninkmeijer** [13] – Bay Area ON  
*Flood Water Purification at Home*
- 
- Stephanie Dunham** [14] – Chinook Country AB  
*Here Comes The Sun*
- 
- Nicole Green** [14] – Central Alberta AB  
*Follow In My Footsteps: Discovering the Personality Profile of a Conformist*
- 
- Shyla Gupta** [12] – Peel ON  
*"FISH"ing for Fatty Acids*
- 
- Clayton Harder** [13] – Northern Vancouver Island BC  
*Veggie-Ponics: Growing Above the Call of Duty*
- 
- Saharsh Hariharan** [14] – Peel ON  
*Increasing The Bioavailability Of Curcumin: A Novel Treatment for Cancer*
- 
- Brenna Howatt** [14] – Prince Edward Island PE  
*Your Attention, Please!*
- 
- Parker Hoyes** [14] – Waterloo-Wellington ON  
*Trendsetter*
- 
- Marina Leblanc** [13] – Sudbury ON  
*Cold Feet?*
- 
- Hanna LeDrew** [13] – Sunset Country ON  
*Catch of the Day*
- 
- Patrick Lutz** [13] – Bay Area ON  
*Eco Melt*
- 
- Madeleine MacDonald** [14] – Annapolis Valley NS  
*Alpaca Power: Environmentally Friendly*
- 
- Alex Marmura** [13] – Strait NS  
*Computers Can Learn Too*
- 
- Matthew Martin** [12] – Toronto ON  
*Flu Vaccine - The Benefits Outweigh the Risks*
- 
- Maleeha Meghjee** [13] – York ON  
*The Sugar Rollercoaster*
- 
- Wynonna Mendoza** [13], **Alexandra Skwarchuk** [14] – Winnipeg Schools MB  
*Can We Use Plants to Control the Amount of Phosphorus in Lake Winnipeg?*
- 
- Maitry Mistry** [14] – Manitoba Schools Science Symposium MB  
*Fermentation of thin stillage for biofuel production by Clostridium thermocellum*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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**Shahbaz Momi** [13] – Niagara ON

*T3Board - Anti-tendinitis keyless keyboard*

---

**Carla Bang** [12], **Julia Nguyen** [12] – Peel ON

*To Kill a Mockingbug*

---

**Abby Parsons** [13] – Avon Maitland-Huron Perth ON

*Boys Are Gross*

---

**Kyle Parsons** [14] – North Bay ON

*Calf's First Drink*

---

**Zeel Patel** [14] – Wood Buffalo AB

*Herbful Herbs: Analyzing The Effectivity Of Herbs To Neutralize Pathogens*

---

**Ryan Peters** [14] – Chinook Country AB

*Knot Again*

---

**Jesse Plamondon** [14] – Northern British Columbia BC

*Controlling HDR5: The H2S Detecting Rover 5*

---

**Marin Schultz** [13] – Lethbridge AB

*Open-Source, Breath-Controlled Robotics for Prosthetic Applications*

---

**Hadia Selouani** [14] – Districts francophones du Nouveau-Brunswick (DFNB) NB

*Un nouveau test d'analyse du syndrome d'Asperger*

---

**Charley Smith** [14] – Central Okanagan BC

*Wood Fuels My Car*

---

**Melody Song** [13] – Saskatoon SK

*Nutrients In, RFOs Out*

---

**Beth Springer** [14] – Parkland SK

*Does Your Wood Have Gas?*

---

**Jessica Tonn** [14] – Northern Saskatchewan SK

*Up in Flames*

---

**Dana Torbina** [13] – Bay Area ON

*Ultrasonic Vision*

---

**Tessa Warhurst** [13] – Cariboo Mainline BC

*Who Can Find a Four Leaf Clover?*

---

**Willow Weiler** [13] – East Parry Sound ON

*A Sticky Situation*

---

**Anastasia Young** [12] – Ottawa ON

*Turn It Up (Our Perception of Loudness)*

---

**Kaden Zmeko** [13] – Lethbridge AB

*Efficient Lighting Options vs. The Banned Incandescent*

---

### Gold Medal - International

Sponsor: Youth Science Canada

Medal and a certificate

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**Goretti Torres Pérez** [17] – Mexico

*Prototype for the teaching of Physics (CANICATRÓN)*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### Challenge Award - Resources

##### Senior

Sponsor: Youth Science Canada  
\$1,000 cash & certificate

---

**Carl Shen [16], Gary Shen [16]** – Thames Valley ON  
*Producing Value-Added Biomaterials from Lignocellulosic Waste*

---

#### Challenge Award - Resources

##### Intermediate

Sponsor: Youth Science Canada  
\$750 cash & certificate

---

**Benjamin Liu [15]** – Manitoba Schools Science Symposium MB  
*FAE1 gene markers for identification of high erucic acid Brassica napus plants*

---

#### Challenge Award - Resources

##### Junior

Sponsor: Youth Science Canada  
\$500 cash & certificate

---

**Hailey Mackenzie [14], Dayna Rachkowski [14]** – Sudbury ON  
*Aquaponics*

---

#### Challenge Award - Innovation

##### Senior

Sponsor: BlackBerry  
\$1,000 cash & certificate

---

**Daniel McInnis [16]** – Ottawa ON  
*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

---

#### Challenge Award - Innovation

##### Intermediate

Sponsor: BlackBerry  
\$750 cash & certificate

---

**Devanshi Shukla [16]** – Waterloo-Wellington ON  
*Quorum sensing: A novel approach for identifying anti-microbial herbal plants*

---

#### Challenge Award - Innovation

##### Junior

Sponsor: BlackBerry  
\$500 cash & certificate

---

**Elias Andersen [14]** – Simcoe County ON  
*Cold Cuts: A Cooled Cutting Board Using Peltier Technology*

---

#### Challenge Award - Information

##### Senior

Sponsor: Youth Science Canada  
\$1,000 cash & certificate

---

**Alex Tomala [16]** – Bay Area ON  
*An Innovative Approach to Multi-core Processor Interconnection Networks*

---

#### Challenge Award - Information

##### Intermediate

Sponsor: Youth Science Canada  
\$750 cash & certificate

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**Frédérique Lacroix [16]** – Montréal CLS QC  
*Prisonniers de la toile*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### Challenge Award - Information

##### Junior

Sponsor: Youth Science Canada  
\$500 cash & certificate

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**Kelvin Zhang** [14] – Greater Vancouver BC  
*Detecting cyber-bullying through data mining*

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#### Challenge Award - Health

##### Senior

Sponsor: Canadian Institutes of Health Research  
\$1,000 cash & certificate

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**Che-Min Lee** [16], **Edwina Liu** [16] – Edmonton AB  
*Metabolism: The Achilles Heel of Prostate Cancer?*

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#### Challenge Award - Health

##### Intermediate

Sponsor: Canadian Institutes of Health Research  
\$750 cash & certificate

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**Nathan Kuehne** [16] – Vancouver Island BC  
*Early Cancer Detection: A Fluorescence-Based Approach*

---

#### Challenge Award - Health

##### Junior

Sponsor: Canadian Institutes of Health Research  
\$500 cash & certificate

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**Thomas Imbeault-Nepton** [13] – Saguenay-Lac Saint-Jean QC  
*Au rythme de l'haptique*

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#### Challenge Award - Environment

##### Senior

Sponsor: Youth Science Canada  
\$1,000 cash & certificate

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**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON  
*The Calculated Crisis*

---

#### Challenge Award - Environment

##### Intermediate

Sponsor: Youth Science Canada  
\$750 cash & certificate

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**Meaghan MacKenzie** [14] – South Fraser BC  
*Uncovering The Truth About Coal Dust in South Delta*

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#### Challenge Award - Environment

##### Junior

Sponsor: Youth Science Canada  
\$500 cash & certificate

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**Isabella O'Brien** [12] – Bay Area ON  
*Trouble in Paradise: Can shell recycling help buffer ocean acidification?*

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#### Challenge Award - Energy

##### Senior

Sponsor: Youth Science Canada  
\$1,000 cash & certificate

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**Mikaela Preston** [17] – York ON  
*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*



# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### Challenge Award - Energy

##### Intermediate

Sponsor: Youth Science Canada  
\$750 cash & certificate

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**Jayson Mtanos** [16] – Rive-Nord QC

*Le moteur SymBioZ*

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#### Challenge Award - Energy

##### Junior

Sponsor: Youth Science Canada  
\$500 cash & certificate

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**Alex Chan** [13], **Nathan Pilkey** [12] – Frontenac, Lennox & Addington ON

*Peltier Power: Scavenging Heat From Solar Panels to Generate Electricity*

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#### Challenge Award - Discovery

##### Senior

Sponsor: Youth Science Canada  
\$1,000 cash & certificate

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**Victor Ling** [17] – Thames Valley ON

*Unlocking the Geology of Mars*

---

#### Challenge Award - Discovery

##### Intermediate

Sponsor: Youth Science Canada  
\$750 cash & certificate

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**Maya Burhanpurkar** [15] – Simcoe County ON

*The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics*

---

#### Challenge Award - Discovery

##### Junior

Sponsor: Youth Science Canada  
\$500 cash & certificate

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**Shruthi Bandi** [13] – Prince Edward Island PE

*How are Microorganisms Useful to Humans? Part 2*

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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. By succeeding in the 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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**Anya Pogharian** [17] – Montréal CLS QC

*Hémodialyse sans gain*

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#### Toronto Research Chemicals - Weizmann Canada Award for Scientific Achievement

Sponsor: Toronto Research Chemicals and Weizmann Canada

The award 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 1–30, 2014. Total value \$4,700.

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**Jeannie Kakayuk** [17] – Aboriginal Québec Autochtone QC

*Une idée brillante*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### Statistical Society of Canada Award

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

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**Arjun Nair** [17] – Calgary Youth AB  
*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

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#### Statistical Society of Canada and Biostatistics Section Award

Sponsor: Statistical Society of Canada and Biostatistics Section  
\$750 cash & certificate

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**Bronwyn Delacruz** [15] – Peace Country AB  
*Is Radioactively Contaminated Seafood Being Sold in Canadian Grocery Stores?*

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

##### Senior

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

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**Thomas Dupré** [16], **Philippe Massicotte** [17] – Mauricie, Centre-du-Québec QC  
*Tiens-toi droit!*

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

##### Intermediate

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

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**Micheal Last** [15] – Parkland SK  
*Slurp!*

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

##### Junior

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

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**Dylan Peil** [12] – West Kootenay & Boundary BC  
*Solar Steam Generator*

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#### Renewable Energy Award

##### Senior

Sponsor: Ontario Power Generation  
\$1000 cash & certificate

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**Mikaela Preston** [17] – York ON  
*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

---

#### Renewable Energy Award

##### Intermediate

Sponsor: Ontario Power Generation  
\$750 cash & certificate

---

**Louis Rodrigue** [16] – Mauricie, Centre-du-Québec QC  
*Solution Stirling*

---

#### Renewable Energy Award

##### Junior

Sponsor: Ontario Power Generation  
\$500 cash & certificate

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**Rebecca Baron** [14] – Greater Vancouver BC  
*Household Plants, the New Air Purifiers*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### 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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**Vicki Kleu [17], Austin Sawyer [17]** – Vancouver Island BC

*Oil RiDD'rs: Fully Biodegradable Booms for Oil Spill Recovery and Containment*

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**Deeksha Kundapur [16]** – Saskatoon SK

*Determining the Potency of Various Biological Products Against *F. graminearum**

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**Cameron Lennox [17]** – Montréal CLS QC

*Au-delà de Pasteur*

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**Daniel McInnis [16]** – Ottawa ON

*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

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**Aditya Mohan [17]** – Ottawa ON

*Development Of A Novel Thymic Stromal Lymphopoietin Based Treatment For HIV*

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**Arjun Nair [17]** – Calgary Youth AB

*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

---

**Mikaela Preston [17]** – York ON

*Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

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**Hayley Marie Todesco [17]** – Calgary Youth AB

*Waste to Water: Biodegrading Naphthenic Acids with Novel Sand Filter Bioreactors*

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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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**Cameron Lennox [17]** – Montréal CLS QC

*Au-delà de Pasteur*

---

**Daniel McInnis [16]** – Ottawa ON

*Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*

---

**Aditya Mohan [17]** – Ottawa ON

*Development Of A Novel Thymic Stromal Lymphopoietin Based Treatment For HIV*

---

**Arjun Nair [17]** – Calgary Youth AB

*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

---

#### 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 2014 (ISSYP 2014) from July 13-26, an intensive two week enrichment program that will introduce the student 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. The student will also interact with professional physicists at Perimeter Institute in small group mentoring sessions, participate in field trips to leading experimental science laboratories, 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 \$3,500.

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**William Bailey [17]** – Greater Vancouver BC

*The Physics Of Curling*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### International Geoscience and Remote Sensing Award

##### Senior

Sponsor: Local organizing committee of IGARSS 2014

Two finalists in either the Intermediate or Senior categories will be selected to present their project(s) in a poster session at the International Geoscience and Remote Sensing Symposium (IGARSS 2014) in Quebec City from July 13-18, 2014. The award includes room and board and travel expenses to and from the conference. The award will be given either to two individual projects, or one group project. Information about the conference is available at: <http://igarss2014.com>.

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**Victor Ling [17]** – Thames Valley ON

*Unlocking the Geology of Mars*

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#### Canadian Stockholm Junior Water Prize

Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Xylem One all expense paid trip to Stockholm, Sweden, August 31 - September 5, 2014, 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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**Stéphane Chenard [17]** – Peace Country AB

*Fertilizer Fiasco: Is Denitrification the Answer?*

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**Theresa DeCola [17]** – Quinte ON

*Implications of Dreissenid Mussel Death and Degradation on Water Quality*

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**Hayley Marie Todesco [17]** – Calgary Youth AB

*Waste to Water: Biodegrading Naphthenic Acids with Novel Sand Filter Bioreactors*

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#### BlackBerry Smartphone App Development Award

##### Senior

Sponsor: BlackBerry

\$1,000 cash and a BlackBerry 10 smartphone. Winners of this award will also get the chance to have some one-on-one mentorship time with a BlackBerry app development expert.

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**Noah Bergmann [16]** – Cariboo Mainline BC

*The Musician's Toolbox*

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#### BlackBerry Smartphone App Development Award

##### Intermediate

Sponsor: BlackBerry

\$750 cash and a BlackBerry 10 smartphone. Winners of this award will also get the chance to have some one-on-one mentorship time with a BlackBerry app development expert.

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**Whitney Anderson [15]** – Central Interior British Columbia BC

*S.A.F.E.*

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#### BlackBerry Smartphone App Development Award

##### Junior

Sponsor: BlackBerry

\$500 cash and a BlackBerry 10 smartphone. Winners of this award will also get the chance to have some one-on-one mentorship time with a BlackBerry app development expert.

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**Kieren O'Neil [13]** – Cariboo Mainline BC

*Deciphering Recycling*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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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 2015. 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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**Katie Brent** [15] – Bay Area ON

*Telemetric Vest: Wearable Computing for Patient Welfare*

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**Mohamad Kadri** [16] – Thames Valley ON

*Effect of Green Tea and Fish Oils as Novel Treatments for Cardiac Hypertrophy*

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**James Lees** [16] – Chignecto East NS

*F.E.R.E.C: A Fuel for the Future*

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#### The Actuarial Foundation of Canada Award

##### Senior

Sponsor: The Actuarial Foundation of Canada

\$1000 cash & certificate

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**Arjun Nair** [17] – Calgary Youth AB

*A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

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**Kevin Dong** [18], **Kevin Strauss** [16] – Waterloo-Wellington ON

*The Calculated Crisis*

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#### The Actuarial Foundation of Canada Award

##### Intermediate

Sponsor: The Actuarial Foundation of Canada

\$750 cash & certificate

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**Candace Brooks-Da Silva** [14] – Windsor ON

*Greening the Blue Skies: Reducing Induced Drag From Trailing Vortices*

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**Maya Burhanpurkar** [15] – Simcoe County ON

*The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics*

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#### The Actuarial Foundation of Canada Award

##### Junior

Sponsor: The Actuarial Foundation of Canada

\$500 cash & certificate

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**Brielle Lillywhite** [13] – Chinook Country AB

*Fight the Bite - Will they Choose Dark or Light?*

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**Grant Mansiere** [14] – Central Okanagan BC

*Does Light Cause Crime?*

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#### Engineering Innovation Award

##### Intermediate

Sponsor: The Engineering Institute of Canada

\$750 cash & certificate

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**Aidan Aird** [14] – York ON

*The Turbo-Eco Cookstove Plus: Improving Living Conditions in Developing Nations*

# Award Recipients

## Canada-Wide Science Fair 2014

### Windsor, Ontario



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#### Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel  
\$500 cash & certificate

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**Owen Falkenham** [14] – Halifax NS  
*Hit or Miss: The Science of Distracted Driving*

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#### CAP Physics Prize

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

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**Bennett Leong** [18] – Calgary Youth AB  
*De-icing Light Aircraft*

---

#### Canadian Society for Medical Laboratory Science Award

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

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**Nathan Kuehne** [16] – Vancouver Island BC  
*Early Cancer Detection: A Fluorescence-Based Approach*

---

#### Canadian Society for Clinical Chemists Award

Sponsor: Canadian Society for Clinical Chemists  
\$1,000 cash and certificate

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**Michael Xu** [18] – Manitoba Schools Science Symposium MB  
*Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients*

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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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**Noah Bergmann** [16] – Cariboo Mainline BC  
*The Musician's Toolbox*

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#### Award for Excellence in Astronomy

##### Intermediate

Sponsor: Royal Astronomical Society of Canada  
Telescope & certificate plus a one year membership to RASC

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**Caleb Winder** [14] – Lambton County ON  
*Star in a Jar*

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#### Award for Excellence in Astronomy

##### Junior

Sponsor: Royal Astronomical Society of Canada  
Telescope & certificate plus a one year membership to RASC

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**Grant Mansiere** [14] – Central Okanagan BC  
*Does Light Cause Crime?*