Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

Best Project Award
Sponsor: BlackBerry
Award, $10,000 cash

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

Platinum Award - Best Senior Project
Sponsor: BlackBerry
Award, $5,000 cash

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

Platinum Award - Best Intermediate Project
Sponsor: BlackBerry
Award, $5,000 cash

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

Platinum Award - Best Junior Project
Sponsor: BlackBerry
Award, $5,000 cash

Au rythme de l'hapitique

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.

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

Au rythme de l'hapitique

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

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.

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

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

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

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

Carl Shen [16], Gary Shen [16] – Thames Valley ON
Producing Value-Added Biomaterials from Lignocellulosic Waste
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

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

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.

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

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

How are Microorganisms Useful to Humans? Part 2

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

Effects of Folic Acid on Cells

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

Un arbre de Noël dans les yeux

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

Au rythme de l’haptique

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

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

Fight the Bite - Will they Choose Dark or Light?

FAE1 gene markers for identification of high erucic acid Brassica napus plants

Che-Min Lee [16], Edwina Liu [16] – Edmonton AB
Metabolism: The Achilles Heel of Prostate Cancer?
Robert MacDonald [17] – Halifax NS  
Severe Tornado Outbreaks: Finding Mechanical and Thermodynamic Relationships

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

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

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

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

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

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

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

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

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

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.

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

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

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

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

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

Veggie Plastics
<table>
<thead>
<tr>
<th>Award Recipients</th>
<th>Canada-Wide Science Fair 2014</th>
<th>Windsor, Ontario</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel Brouwer [12] – Halifax NS</td>
<td><strong>Can we Improve the Quality of H2O in 3rd World Countries</strong></td>
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<tr>
<td>Donovan Cassidy-Nolan [17] – Annapolis Valley NS</td>
<td><strong>Pitch Please!</strong></td>
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<td>Chloe Chen [14] – Greater Vancouver BC</td>
<td><strong>A Better Wind Turbine - The C Airfoil</strong></td>
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<tr>
<td>Mark Hewitt [17] – Eastern Newfoundland NL</td>
<td><strong>Can Popular Acne Treatments Stimulate or Exacerbate Cancer Growth?</strong></td>
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<tr>
<td>Andrew Ilyas [14] – Waterloo-Wellington ON</td>
<td><strong>Microfilers: Hamessing Twitter For Disaster Management</strong></td>
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<td>SeonHo Jang [16] – Thames Valley ON</td>
<td><strong>Progression of Intervertebral Disc Degeneration in Mice Lacking Expression of CCN</strong></td>
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<td>Tahmid Khan [13] – Calgary Youth AB</td>
<td><strong>Exploring Piezoelectricity</strong></td>
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<td>Roman Kozak [15] – Niagara ON</td>
<td><strong>VAVI: Virtual Aid for the Visually Impaired</strong></td>
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<td>Bennett Leong [18] – Calgary Youth AB</td>
<td><strong>De-icing Light Aircraft</strong></td>
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<td>Lior Levy [15], Roi Levy [14] – Toronto ON</td>
<td><strong>One Little Cell, A World of Possibilities</strong></td>
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<td>Edward Li [16], Andi Shahaj [16] – York ON</td>
<td><strong>Agricultural Antiperspirants: Controlling Stomata using Hygroscopic Compounds</strong></td>
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<tr>
<td>Victor Ling [17] – Thames Valley ON</td>
<td><strong>Unlocking the Geology of Mars</strong></td>
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<td>Meaghan MacKenzie [14] – South Fraser BC</td>
<td><strong>Uncovering The Truth About Coal Dust in South Delta</strong></td>
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<tr>
<td>Thomas Dupré [16], Philippe Massicotte [17] – Mauricie, Centre-du-Québec QC</td>
<td><strong>Tiens-toi droit!</strong></td>
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<tr>
<td>Kathryn Moec [16] – Peterborough ON</td>
<td><strong>Evaluating Therapeutic Potential of Lactobacillus and Aspartame on Cancer Cells</strong></td>
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</tbody>
</table>
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

Jack Mogus [13] – Bay Area ON
Jocks, Girdles and Guards - A Dilatant Anomaly!

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

Jayson Mtanos [16] – Rive-Nord QC
Le moteur SymBioZ

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

Ajantha Nadesalingam [15] – Toronto ON
Small Particles, a Big Effect: Nanoparticles and Blood Cells

Do You Know About Cancer-Killing Natural Solutions?

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

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

Victoria Platzer [14] – Northern British Columbia BC
Hay Aliens

Jared Poole [13] – Ottawa ON
Lending a Helping Arm

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

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

Emma Nicholas [14], Josie Short [15] – Prairie Valley SK
Pump It!

Kristin Smith [14] – Manitoba Schools Science Symposium MB
Iron Ladies
<table>
<thead>
<tr>
<th>Name</th>
<th>Location/Province</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ted Stuart</td>
<td>Simcoe County ON</td>
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<td>Phosphate Filtration of Potato Wash Water</td>
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<td>Jordan Takkiruq</td>
<td>Kitikmeot NU</td>
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<td>Which Liquid Causes Tooth Decay The Fastest?</td>
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<td>Katherine Teeter</td>
<td>Bluewater ON</td>
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<tr>
<td>Storm Force Winds: The Optimization of Building Design</td>
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<td>Kayley Ting</td>
<td>York ON</td>
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<td>Frustration Revealed: Biofeedback</td>
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<td>Hayley Marie Todesco</td>
<td>Calgary Youth AB</td>
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<td>Waste to Water: Biodegrading Naphthenic Acids with Novel Sand Filter Bioreactors</td>
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<td>Alex Tomala</td>
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<td>An Innovative Approach to Multi-core Processor Interconnection Networks</td>
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<td>George Utsin</td>
<td>Waterloo-Wellington ON</td>
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<td>AlgEYE: Automation of Algal Hydrogen Production</td>
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<td>Morgan Lafontaine, Emma Vanderlee</td>
<td>North Bay ON</td>
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<td>Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...</td>
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<td>Austin Wang</td>
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<td>Analyzing Changes in Bacterial Communities in Microbial Fuel Cells</td>
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<td>Jami Campbell, Ashlee Wheaton</td>
<td>Chignecto West NS</td>
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<td>Cruising Without Bruising</td>
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<td>Michael Xu</td>
<td>Manitoba Schools Science Symposium MB</td>
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<td>Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients</td>
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<td>Kelvin Zhang</td>
<td>Greater Vancouver BC</td>
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<tr>
<td>Detecting cyber-bullying through data mining</td>
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</table>

**Western University Scholarship**

**Bronze Medallist - $1000 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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<thead>
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<th>Name</th>
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<tbody>
<tr>
<td>Angelica Alberto, Vineth Castelino</td>
<td>Peace Country AB</td>
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<tr>
<td>Socks that Block!</td>
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<td>William Bailey</td>
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<td>The Physics Of Curling</td>
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<td>Skylar Barkhouse</td>
<td>South Shore NS</td>
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<td>What's The Buzz? Your Future Hearing Loss</td>
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<td>Rebecca Baron</td>
<td>Greater Vancouver BC</td>
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<td>Household Plants, the New Air Purifiers</td>
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<td>Mitchell Beckedorf</td>
<td>Southeast Alberta AB</td>
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<td>Enlightening Plant Growth</td>
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<td>Nitish Bhatt</td>
<td>Eastern Newfoundland NL</td>
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<td>Forcing for Climate Change? Computational Modelling of Earth’s Climate Systems</td>
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<td>Aleksa Bjelogrlic</td>
<td>Thames Valley ON</td>
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<tr>
<td>Autonomous Landmine Detection System</td>
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<td>Name</td>
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<tr>
<td>Jessica Bohm [12]</td>
<td>Bay Area ON</td>
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<td>Brianna Bouius [14]</td>
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<td>Kathryn Bowers [17], Joycelyn Moulton [18]</td>
<td>Eastern Newfoundland NL</td>
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<td>Eduard Brenninkmeijer [13]</td>
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<td>Noa Bridson [17]</td>
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<td>Caroline Burchat [15], Anna Supryka [15]</td>
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<td>Federico Cao [16], Adree Khondker [16]</td>
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<td>Keaton Chadwick [16]</td>
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<td>Marc-André Champigny [17], Nicolas Gagnon [16]</td>
<td>Estrie QC</td>
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<td>Andrea Chan [16], Matt Treble [17]</td>
<td>Vancouver Island BC</td>
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<td>Brynn Charron [18]</td>
<td>Windsor ON</td>
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<td>Stéphane Chenard [17]</td>
<td>Peace Country AB</td>
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<tr>
<td>Raphaël Claveau [17]</td>
<td>Québec et Chaudière-Appalaches QC</td>
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<td>Theresa DeCola [17]</td>
<td>Quinte ON</td>
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<td>Cassey Deveau [18]</td>
<td>Strait NS</td>
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<td>Chloe Devoy [14]</td>
<td>Lethbridge AB</td>
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<td>Zoe Dingeman [17]</td>
<td>Calgary Youth AB</td>
</tr>
</tbody>
</table>
Award Recipients
Canada-Wide Science Fair 2014
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*

*Your Attention, Please!*

Aaron Howe [14] – Canadian Rockies AB
*MoonorMe - 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'ys: 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*
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

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

Which rabbit food results in the best weight gain for young rabbits?

Marina Leblanc [13] – Sudbury ON
Cold Feet?

Catch of the Day

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

Skin Cells to Bone Marrow

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

Concentrated Photovoltaic Thermoelectric Hybrid Systems (C.P.T.H.)

Patrick Lutz [13] – Bay Area ON
Eco Melt

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

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

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

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

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

Clean and Green Polystyrene

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?

Else Mikkelsen [17] – Greater Vancouver BC
Island Invaders

Ped-E-Board

Fermentation of thin stillage for biofuel production by Clostridium thermocellum

Callum Mitchell [16] – Northwestern Ontario ON
The PipeLime: a Novel Solution to CO2 Emissions from Cars
**Award Recipients**
**Canada-Wide Science Fair 2014**
**Windsor, Ontario**

Shahbaz Momi [13] – Niagara ON  
*T3Board - Anti-tendinitis keyless keyboard*

Carla Bang [12], Julia Nguyen [12] – Peel ON  
*To Kill a Mockingbug*

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

*Boys Are Gross*

Kyle Parsons [14] – North Bay ON  
*Calf's First Drink*

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

Zeel Patel [14] – Wood Buffalo AB  
*Herbful Herbs: Analyzing The Effectivity Of Herbs To Neutralize Pathogens*

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

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

Jesse Plamondon [14] – Northern British Columbia BC  
*Controlling HDR5: The H2S Detecting Rover 5*

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

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

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

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

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

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

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

*Who knew being 'dense' could be better! The Mystery of what the brain 'hears'*

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

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

Dayna Schumacher [17], Kaley Wainwright [16] – St. James-Assiniboia MB  
*Winnipeg Road Treatments*
<table>
<thead>
<tr>
<th>Award Recipients</th>
<th>Canada-Wide Science Fair 2014 Windsor, Ontario</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prachi Shah [18] – Wood Buffalo AB</td>
<td>MOAP-1 as a Regulator of Inflammation in the Colon</td>
</tr>
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<td>Carl Shen [16], Gary Shen [16] – Thames Valley ON</td>
<td>Producing Value-Added Biomaterials from Lignocellulosic Waste</td>
</tr>
<tr>
<td>Duncan Silversides [15] – Vancouver Island BC</td>
<td>Deciding the Point: A New Curling Measuring Stick Revealed</td>
</tr>
<tr>
<td>Surat Singh [14] – Greater Vancouver BC</td>
<td>Interactions Between Plant Hormones and Nutrients in Relation to Plant Growth</td>
</tr>
<tr>
<td>Charley Smith [14] – Central Okanagan BC</td>
<td>Wood Fuels My Car</td>
</tr>
<tr>
<td>Melody Song [13] – Saskatoon SK</td>
<td>Nutrients In, RFOs Out</td>
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<tr>
<td>Beth Springer [14] – Parkland SK</td>
<td>Does Your Wood Have Gas?</td>
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<td>Sonia Stewart [17] – South Fraser BC</td>
<td>Monitoring Medication Adherence: Part 1</td>
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<tr>
<td>Michael Tolentino [17] – Niagara ON</td>
<td>The Vitamin A Metabolite: The Embryonic Development of L. stagnalis</td>
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<tr>
<td>Jessica Tonn [14] – Northern Saskatchewan SK</td>
<td>Up in Flames</td>
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<td>Dana Torbina [13] – Bay Area ON</td>
<td>Ultrasonic Vision</td>
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<tr>
<td>Twesh Upadhyaya [17] – Simcoe County ON</td>
<td>Exploring Cellular Automata Music</td>
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<tr>
<td>Raymond Wang [16] – Greater Vancouver BC</td>
<td>Sustainable Smart Sanitizer</td>
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<tr>
<td>Ryan Wang [18] – Manitoba Schools Science Symposium MB</td>
<td>Identification and Functional Properties of Phosphorylation Sites on Scleraxis</td>
</tr>
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### Award Recipients

**Canada-Wide Science Fair 2014**  
**Windsor, Ontario**

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<tr>
<td>Caleb Winder [14] – Lambton County ON</td>
<td>Star in a Jar</td>
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<td>Robby Xu [16] – York ON</td>
<td>Fertilizer from Flue: Carbon Capture and Storage using Activated Charcoal</td>
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<td>Madeleine Yeomans [15] – Calgary Youth AB</td>
<td>Fishing for Microplastics</td>
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<td>Anastasia Young [12] – Ottawa ON</td>
<td>Turn It Up (Our Perception of Loudness)</td>
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**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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**Senior Silver Medallist - $2000 Entrance Scholarship**

Sponsor: University of Ottawa

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<td><strong>The Physics Of Curling</strong></td>
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<td><strong>The Heinous Carcinus maenas</strong></td>
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<td><strong>Noa Bridson [17]</strong> – Simcoe County ON</td>
<td><strong>The Ugly Truth</strong></td>
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<td><strong>Federico Cao [16], Adree Khondker [16]</strong> – Bay Area ON</td>
<td><strong>Augmenting Solar Energy: Application of Thermoelectric Effect on Photovoltaics</strong></td>
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<td><strong>Marc-André Champigny [17], Nicolas Gagnon [16]</strong> – Estrie QC</td>
<td><strong>Un dentifrice ingénieux</strong></td>
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<td><strong>Andrea Chan [16], Matt Treble [17]</strong> – Vancouver Island BC</td>
<td><strong>Using the Literacy Cube to Model Student Fluency, Comprehension and Numeracy</strong></td>
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<td><strong>Environmental Influences on the Mutational Landscape of the Mouse Genome</strong></td>
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<td><strong>Fertilizer Fiasco: Is Denitrification the Answer?</strong></td>
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<td><strong>Raphaël Claveau [17]</strong> – Québec et Chaudière-Appalaches QC</td>
<td><strong>Coronavirus tue les neurones</strong></td>
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<td><strong>Kiri Daust [16]</strong> – Pacific Northwest BC</td>
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<td><strong>Theresa DeCola [17]</strong> – Quinte ON</td>
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<td><strong>Cassey Deveau [18]</strong> – Strait NS</td>
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<td><strong>Kelsie Emisch [16]</strong> – Northern Saskatchewan SK</td>
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<td><strong>Denny Choi [16], Cindy Huang [17]</strong> – South Fraser BC</td>
<td><strong>Photodynamic Antimicrobial Chemotherapy (PACT) for Eradicating Mould Pathogens</strong></td>
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<td><strong>Jeannie Kakayuk [17]</strong> – Aboriginal Québec Autochtone QC</td>
<td><strong>Une idée brillante</strong></td>
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<td><strong>Jonathan Eenkhoorn [17], Daniel Kanis [16]</strong> – Fraser Valley BC</td>
<td><strong>Hypertos Operating System</strong></td>
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<td><strong>Vicki Kleu [17], Austin Sawyer [17]</strong> – Vancouver Island BC</td>
<td><strong>Oil RIDD'rs: Fully Biodegradable Booms for Oil Spill Recovery and Containment</strong></td>
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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

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
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

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

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;

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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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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)

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### Windsor, Ontario

### Dalhousie University Faculty of Science Entrance Scholarship
#### Senior Silver Medallist - $2500 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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**Award Recipients**  
Canada-Wide Science Fair 2014  
Windsor, Ontario

| Excellence Award - Senior  
|------------------------|-----------------------------------------------|
| Gold Medal            | Sponsor: Youth Science Canada  
|                       | Medal, $700 cash & certificate  
| **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*  
| **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?*  
| **Robert MacDonald** [17] – Halifax NS  
| *Severe Tornado Outbreaks: Finding Mechanical and Thermodynamic Relationships*  
| **Daniel McInnis** [16] – Ottawa ON  
| *Picture This!: A Novel Approach to Limb Donor Identification & Prosthetic Design*  
| **Arjun Nair** [17] – Calgary Youth AB  
| *A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*  
| **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*  

**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*  
| **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*  

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Page 20
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

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

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

Un arbre de Noël dans les yeux

Au rythme de l’haptique

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
<table>
<thead>
<tr>
<th>Award Recipients</th>
<th>Canada-Wide Science Fair 2014</th>
<th>Windsor, Ontario</th>
</tr>
</thead>
</table>

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<thead>
<tr>
<th>De-icing Light Aircraft</th>
<th>Bennett Leong [18] – Calgary Youth AB</th>
</tr>
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<tbody>
<tr>
<td>Unlocking the Geology of Mars</td>
<td>Victor Ling [17] – Thames Valley ON</td>
</tr>
<tr>
<td>Tiens-toi droit!</td>
<td>Thomas Dupré [16], Philippe Massicotte [17] – Mauricie, Centre-du-Québec QC</td>
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<tr>
<td>Evaluating Therapeutic Potential of Lactobacillus and Aspartame on Cancer Cells</td>
<td>Kathryn Moeck [16] – Peterborough ON</td>
</tr>
<tr>
<td>Development Of A Novel Thymic Stromal Lymphopoietin Based Treatment For HIV</td>
<td>Aditya Mohan [17] – Ottawa ON</td>
</tr>
<tr>
<td>mRNA Injection for Cleft Palate</td>
<td>Isabella Morgan [18] – Eastern Newfoundland NL</td>
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<tr>
<td>Addressing Forgetfulness as a Contributor to Inactivity: A Text Message Solution</td>
<td>Avinash Pandey [16] – Waterloo-Wellington ON</td>
</tr>
<tr>
<td>Torsion Core “Plywood”</td>
<td>William Preston [17] – Niagara ON</td>
</tr>
<tr>
<td>Go With The Flow: Benzoquinone-Fulvic Acid-NaCl Flow Battery</td>
<td>Karishini Ramamoorthi [18], Smruthi Ramesh [17] – Peel ON</td>
</tr>
<tr>
<td>An Innovative Approach to Multi-core Processor Interconnection Networks</td>
<td>Alex Tomala [16] – Bay Area ON</td>
</tr>
<tr>
<td>From Lignin to Bioplastics!</td>
<td>Morgan Lafontaine [17], Emma Vanderlee [17] – North Bay ON</td>
</tr>
<tr>
<td>Urtica Dioica: Effect on Locomotor Function in a Drosophila Model of Chronic...</td>
<td>Jami Campbell [17], Ashlee Wheaton [18] – Chignecto West NS</td>
</tr>
<tr>
<td>Cruising Without Bruising</td>
<td>Michael Xu [18] – Manitoba Schools Science Symposium MB</td>
</tr>
<tr>
<td>Quantitative Analysis of Circulating Tumor Cells in Prostate Cancer Patients</td>
<td>Excellence Award - Intermediate</td>
</tr>
</tbody>
</table>

Silver Medal

Sponsor: Youth Science Canada

Medal, $300 cash & certificate

<table>
<thead>
<tr>
<th>Owen Bai [15] – Northwestern Ontario ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>From Lignin to Bioplastics!</td>
</tr>
<tr>
<td>Veggie Plastics</td>
</tr>
<tr>
<td>Sascha Bodak [15] – Thames Valley ON</td>
</tr>
<tr>
<td>The Science of Music: Studying the Relationship between Musical Enjoyment and...</td>
</tr>
</tbody>
</table>
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 H20 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

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

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

Which Liquid Causes Tooth Decay The Fastest?

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

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

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

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?

Tiiara 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

Socks that Block!
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

Forcing for Climate Change? Computational Modelling of Earth's Climate Systems

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

Nicotine Overkill?

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

Shade is Cool

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

Is Radioactively Contaminated Seafood Being Sold in Canadian Grocery Stores?

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

Bailey Fenton [14] – South Shore NS
Thril 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

Which rabbit food results in the best weight gain for young rabbits?

Skin Cells to Bone Marrow

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

Clean and Green Polystyrene
### Award Recipients

**Canada-Wide Science Fair 2014**  
Windsor, Ontario

<table>
<thead>
<tr>
<th>Name</th>
<th>School/Location</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priyank Patel [15]</td>
<td>Lambton County ON</td>
<td>You're Hot and You're Cold: Using the Seebeck Effect to Produce Usable Energy</td>
</tr>
<tr>
<td>Harishitaa Prithiviraj [15]</td>
<td>Chignecto West NS</td>
<td>Is Bigger the Better?</td>
</tr>
<tr>
<td>Tamara Radovic [16]</td>
<td>Edmonton AB</td>
<td>Operating Chamber as Prevention to Surgical Site Infection</td>
</tr>
<tr>
<td>Nolan Rockwell [14]</td>
<td>Calgary Youth AB</td>
<td>Pharmaceutical Pollution and Plants</td>
</tr>
<tr>
<td>Ellena Schuffert [15]</td>
<td>Pacific Northwest BC</td>
<td>Who knew being 'dense' could be better! The Mystery of what the brain 'hears'</td>
</tr>
<tr>
<td>Elizabeth Schulz [14]</td>
<td>Central Interior British Columbia BC</td>
<td>Reducing Populations of Lymnae stagnalis Part II</td>
</tr>
<tr>
<td>Duncan Silversides [15]</td>
<td>Vancouver Island BC</td>
<td>Deciding the Point: A New Curling Measuring Stick Revealed</td>
</tr>
<tr>
<td>Surat Singh [14]</td>
<td>Greater Vancouver BC</td>
<td>Interactions Between Plant Hormones and Nutrients in Relation to Plant Growth</td>
</tr>
<tr>
<td>MacKenzie Van Loon [16]</td>
<td>United Counties ON</td>
<td>The Effects of Oil Spills on Marine Wildlife</td>
</tr>
<tr>
<td>Raymond Wang [16]</td>
<td>Greater Vancouver BC</td>
<td>Sustainable Smart Sanitizer</td>
</tr>
<tr>
<td>Caleb Winder [14]</td>
<td>Lambton County ON</td>
<td>Star in a Jar</td>
</tr>
<tr>
<td>Robby Xu [16]</td>
<td>York ON</td>
<td>Fertilizer from Flue: Carbon Capture and Storage using Activated Charcoal</td>
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<tr>
<td>Madeleine Yeomans [15]</td>
<td>Calgary Youth AB</td>
<td>Fishing for Microplastics</td>
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</tbody>
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**Excellence Award - Junior**

<table>
<thead>
<tr>
<th>Name</th>
<th>School/Location</th>
<th>Project Title</th>
</tr>
</thead>
</table>

**Bronze Medal**

- Sponsor: Nuclear Waste Management Organization
- Medal, $100 cash & certificate
<table>
<thead>
<tr>
<th>Award Recipients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada-Wide Science Fair 2014</td>
</tr>
<tr>
<td>Windsor, Ontario</td>
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<tr>
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<tr>
<td><strong>Rebecca Baron</strong> [14] – Greater Vancouver BC</td>
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<tr>
<td><em>Household Plants, the New Air Purifiers</em></td>
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<td><strong>Mitchell Beckedorf</strong> [13] – Southeast Alberta AB</td>
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<tr>
<td><em>Enlightening Plant Growth</em></td>
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<tr>
<td><strong>Jessica Bohm</strong> [12] – Bay Area ON</td>
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<tr>
<td><em>How Crude is Your Oil? Comparing the Toxicity of Light and Heavy Crude Oil</em></td>
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<tr>
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<tr>
<td><strong>Brianna Bouius</strong> [14] – Bluewater ON</td>
</tr>
<tr>
<td><em>A Fractal World</em></td>
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<tr>
<td><strong>Eduard Brenninkmeijer</strong> [13] – Bay Area ON</td>
</tr>
<tr>
<td><em>Flood Water Purification at Home</em></td>
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<tr>
<td><strong>Stephanie Dunham</strong> [14] – Chinook Country AB</td>
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<tr>
<td><em>Here Comes The Sun</em></td>
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<tr>
<td><strong>Nicole Green</strong> [14] – Central Alberta AB</td>
</tr>
<tr>
<td><em>Follow In My Footsteps: Discovering the Personality Profile of a Conformist</em></td>
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<tr>
<td><strong>Shyla Gupta</strong> [12] – Peel ON</td>
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<tr>
<td><em>&quot;FISH&quot;ing for Fatty Acids</em></td>
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<td><strong>Clayton Harder</strong> [13] – Northern Vancouver Island BC</td>
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<tr>
<td><em>Veggie-Ponics: Growing Above the Call of Duty</em></td>
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<td></td>
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<tr>
<td><strong>Saharsh Hariharan</strong> [14] – Peel ON</td>
</tr>
<tr>
<td><em>Increasing The Bioavailability Of Curcumin: A Novel Treatment for Cancer</em></td>
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<tr>
<td><strong>Brenna Howatt</strong> [14] – Prince Edward Island PE</td>
</tr>
<tr>
<td><em>Your Attention, Please!</em></td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Parker Hoyes</strong> [14] – Waterloo-Wellington ON</td>
</tr>
<tr>
<td><em>Trendsetter</em></td>
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<tr>
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<tr>
<td><strong>Marina Leblanc</strong> [13] – Sudbury ON</td>
</tr>
<tr>
<td><em>Cold Feet?</em></td>
</tr>
<tr>
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<tr>
<td><strong>Hanna LeDrew</strong> [13] – Sunset Country ON</td>
</tr>
<tr>
<td><em>Catch of the Day</em></td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Patrick Lutz</strong> [13] – Bay Area ON</td>
</tr>
<tr>
<td><em>Eco Melt</em></td>
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<tr>
<td><strong>Madeleine MacDonald</strong> [14] – Annapolis Valley NS</td>
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<tr>
<td><em>Alpaca Power: Environmentally Friendly</em></td>
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<tr>
<td><strong>Alex Marmura</strong> [13] – Strait NS</td>
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<tr>
<td><em>Computers Can Learn Too</em></td>
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<tr>
<td><strong>Matthew Martin</strong> [12] – Toronto ON</td>
</tr>
<tr>
<td><em>Flu Vaccine - The Benefits Outweigh the Risks</em></td>
</tr>
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<tr>
<td><strong>Maleeha Meghjee</strong> [13] – York ON</td>
</tr>
<tr>
<td><em>The Sugar Rollercoaster</em></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Wynonna Mendoza</strong> [13], <strong>Alexandra Skwarchuk</strong> [14] – Winnipeg Schools MB</td>
</tr>
<tr>
<td><em>Can We Use Plants to Control the Amount of Phosphorus in Lake Winnipeg?</em></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Maitry Mistry</strong> [14] – Manitoba Schools Science Symposium MB</td>
</tr>
<tr>
<td><em>Fermentation of thin stillage for biofuel production by Clostridium thermocellum</em></td>
</tr>
</tbody>
</table>
Award Recipients
Canada-Wide Science Fair 2014
Windsor, Ontario

Shahbaz Momi [13] – Niagara ON
T3Board - Anti-tendinitis keyless keyboard

Carla Bang [12], Julia Nguyen [12] – Peel ON
To Kill a Mockingbug

Boys Are Gross

Kyle Parsons [14] – North Bay ON
Call’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

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

Who Can Find a Four Leaf Clover?

A Sticky Situation

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

Efficient Lighting Options vs. The Banned Incandescent

Gold Medal - International
Sponsor: Youth Science Canada
Medal and a certificate

Goretti Torres Pérez [17] – Mexico
Prototype for the teaching of Physics (CANICATRÓN)
**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

**Frédérique Lacroix [16]** – Montréal CLS QC
*Prisonniers de la toile*
## Challenge Award - Information

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

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

## Challenge Award - Health

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

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

## Challenge Award - Health

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

**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  

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

## Challenge Award - Environment

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

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

## Challenge Award - Environment

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

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

## Challenge Award - Environment

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

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

## Challenge Award - Energy

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

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

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

<table>
<thead>
<tr>
<th>Award Recipient</th>
<th>School</th>
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<tbody>
<tr>
<td>Jayson Mtanos 16</td>
<td>Rive-Nord QC</td>
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<tr>
<td><em>Le moteur SymBioZ</em></td>
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**Junior**
- **Sponsor:** Youth Science Canada  
  **$500 cash & certificate**

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<td>Alex Chan 13, Nathan Pilkey 12</td>
<td>Frontenac, Lennox &amp; Addington ON</td>
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<tr>
<td><em>Peltier Power: Scavenging Heat From Solar Panels to Generate Electricity</em></td>
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## Challenge Award - Energy

**Junior**
- **Sponsor:** Youth Science Canada  
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<tr>
<td>Maya Burhanpurkar 15</td>
<td>Simcoe County ON</td>
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<tr>
<td><em>The Time-Integral of Distance: Uncovering A New Property of Fundamental Physics</em></td>
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</table>

## Challenge Award - Discovery

**Senior**
- **Sponsor:** Youth Science Canada  
  **$1,000 cash & certificate**

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<td>Victor Ling 17</td>
<td>Thames Valley ON</td>
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<td><em>Unlocking the Geology of Mars</em></td>
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</table>

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

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<tr>
<td>Shruthi Bandi 13</td>
<td>Prince Edward Island PE</td>
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<tr>
<td><em>How are Microorganisms Useful to Humans? Part 2</em></td>
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## Challenge Award - Discovery

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

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<td><em>Hémodialyse sans gain</em></td>
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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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## 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.

<table>
<thead>
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<tr>
<td>Jeannie Kakayuk 17</td>
<td>Aboriginal Québec Autochtone QC</td>
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<tr>
<td><em>Une idée brillante</em></td>
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<tr>
<td>Award Recipients</td>
<td>Canada-Wide Science Fair 2014</td>
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**Statistical Society of Canada Award**
- Sponsor: Statistical Society of Canada
- $1000 cash & certificate
- **Arjun Nair** [17] – Calgary Youth AB
  *A Computational Analysis of Multiple Sclerosis: A Novel Diagnostic Procedure*

**Statistical Society of Canada and Biostatistics Section Award**
- Sponsor: Statistical Society of Canada and Biostatistics Section
- $750 cash & certificate
- **Bronwyn Delacruz** [15] – Peace Country AB
  *Is Radioactively Contaminated Seafood Being Sold in Canadian Grocery Stores?*

**S.M. Blair Family Foundation Award**
- **Senior**
  - Sponsor: S.M. Blair Family Foundation
  - $1000 cash & certificate
  - **Thomas Dupré** [16], **Philippe Massicotte** [17] – Mauricie, Centre-du-Québec QC
    *Tiens-toi droit!*

- **Intermediate**
  - Sponsor: S.M. Blair Family Foundation
  - $750 cash & certificate
  - **Micheal Last** [15] – Parkland SK
    *Slurp!*

- **Junior**
  - Sponsor: S.M. Blair Family Foundation
  - $500 cash & certificate
  - **Dylan Peil** [12] – West Kootenay & Boundary BC
    *Solar Steam Generator*

**Renewable Energy Award**
- **Senior**
  - Sponsor: Ontario Power Generation
  - $1000 cash & certificate
  - **Mikaela Preston** [17] – York ON
    *Co-Cultivation of Purple Non-Sulfur Bacteria and Yeast for Biofuel Production*

- **Intermediate**
  - Sponsor: Ontario Power Generation
  - $750 cash & certificate
  - **Louis Rodrigue** [16] – Mauricie, Centre-du-Québec QC
    *Solution Stirling*

- **Junior**
  - Sponsor: Ontario Power Generation
  - $500 cash & certificate
  - **Rebecca Baron** [14] – Greater Vancouver BC
    *Household Plants, the New Air Purifiers*
### 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).

<table>
<thead>
<tr>
<th>Author(s)</th>
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<td>Vicki Kleu, Austin Sawyer</td>
<td>Vancouver Island BC</td>
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<tr>
<td>Deeksha Kundapur</td>
<td>Saskatoon SK</td>
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<td>York ON</td>
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### The Manning Innovation Achievement Award and $4000 Manning Young Canadian Innovation Award

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### International Summer School for Young Physicists Award

**Sponsor:** Perimeter Institute for Theoretical Physics

The award consists of a full scholarship to participate in the International Summer School for Young Physicists 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.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>William Bailey</td>
<td>Greater Vancouver BC</td>
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| The Physics Of Curling | |
### 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.

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

### 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.

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

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

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

### 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.

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

**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.

- **Whitney Anderson** [15] – Central Interior British Columbia BC  
  *S.A.F.E.*

**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.

  *Deciphering Recycling*
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.

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

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

James Lees [16] – Chignecto East NS
*F.E.R.E.C: A Fuel for the Future*

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

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

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

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

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*

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

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

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

Engineering Innovation Award
Intermediate
Sponsor: The Engineering Institute of Canada
$750 cash & certificate

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

Carlson Wagonlit Award
Sponsor: Carlson Wagonlit Travel
$500 cash & certificate

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

CAP Physics Prize
Sponsor: Canadian Association of Physicists
$1000 cash & certificate.

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

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

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

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

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

Award for Excellence in Astronomy
Intermediate
Sponsor: Royal Astronomical Society of Canada
Telescope & certificate plus a one year membership to RASC

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

Award for Excellence in Astronomy
Junior
Sponsor: Royal Astronomical Society of Canada
Telescope & certificate plus a one year membership to RASC

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