

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Best Project Award

Sponsor: Youth Science Canada
Award, \$10,000 cash

Danny Huang [17], Jaclynn Wong [17] – Edmonton AB
O-GlcNAcylation: Suppressing Cancer Progression

Platinum Award - Best Senior Project

Sponsor: Youth Science Canada
Award, \$5,000 cash

Danny Huang [17], Jaclynn Wong [17] – Edmonton AB
O-GlcNAcylation: Suppressing Cancer Progression

Platinum Award - Best Intermediate Project

Sponsor: Youth Science Canada
Award, \$5,000 cash

Mikaela Preston [14] – York ON
Population Dynamics in Algal Bioreactors

Platinum Award - Best Junior Project

Sponsor: Youth Science Canada
Award, \$5,000 cash

Daniel McInnis [13] – Ottawa ON
Putting a Lid on Concussions - Materials Testing and a New Helmet Design

The University of Western Ontario Scholarship

Gold Medallist - \$4000 Entrance Scholarship

Sponsor: University of Western Ontario

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.

Sandra Dusolt [16] – Northwestern Ontario ON
No power, no water, no food, no problem!

Gayashan Tennakoon [13] – Ottawa ON
Oil Sands: Friend or Foe?

David Pellerin [18] – Estrie QC
Préférence O-LED

Christopher Chopcian [17] – Lambton County ON
Computer Controlled Heart Assist Pump

Andrew Martin [19], Eric Stublely [18] – Waterloo-Wellington ON
Modelling Population Growth

Jessie MacAlpine [15] – London District ON
*Suppressing weed germination using allelopathy of *Alliaria petiolata**

Madison Ricard [15] – Edmonton AB
From The Ground Up: Part 2

Calvin Rieder [14] – Bay Area ON
"Water, water everywhere, Nor any drop to drink" Atmospheric Water Condensers

Raymond R M Wang [13], Ty Zhang [12] – Greater Vancouver BC
Weather Harvester

Daniel McInnis [13] – Ottawa ON
Putting a Lid on Concussions - Materials Testing and a New Helmet Design

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Apodora: Markov Chain-Inspired Microsearch

Demetrios Koziris [17], **Iakovos Vathis** [16] – Montreal QC

Ischemic Preconditioning: Effect on Muscular Endurance

Marshall Zhang [16] – York ON

Mechanisms of Action of Small Molecules in the Rescue of $\Delta F508$ -CFTR

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O-GlcNAcylation: Suppressing Cancer Progression

Minuoja Chandramohan [14] – Montréal CLS QC

L'antimatière contre le cancer

Farouk Selouani [15] – Districts francophones du Nouveau-Brunswick (DFNB) NB

DiagnAssist: Outil d'aide au diagnostic du cancer du sein

Hannah Boone [14], **Megan Howse** [15] – Eastern Newfoundland NL

Tea Time! Relax Your Way to Better Health

Abhishek Chakraborty [12] – Manitoba Schools Science Symposium MB

Effects of Folic Acid on Blood Cells

Miranda Sherell [13] – West Kootenay & Boundary BC

Hidden Behind the Rainbow

Arnaud Desrosiers [17] – Montréal CLS QC

Dégradation du méthylmercure

Shayla Larson [16], **Adam Noble** [17] – Peterborough ON

The Hazards of Nanosilver Uncovered

Neel Ashton Sharma [13] – Frontenac, Lennox & Addington ON

S.O.S.: Stop Oil Spills- Results of an LC50 Study on Artemia Salina

Naima Raza [14] – Lambton County ON

The NEWspaper Fuel: Enhancing Cellulosic Ethanol Production

Sruti Arulmani [13] – Peel ON

Photoheterotrophic Microbial Fuel Cell

Sarah Battat [15] – Montreal QC

Hysteresis: A Lasting Memory

Mikaela Preston [14] – York ON

Population Dynamics in Algal Bioreactors

Benjamin Friedman [16] – Cariboo Mainline BC

Terminal Velocity of Drops Rising in Water due to Buoyancy: What a Drag!

Sarah Hyslop [15] – Calgary Youth AB

Biofilm Eradication Using Novel Enzyme and Antibiotic Combinations

Sujay Nagaraj [14] – Calgary Youth AB

*Bio-remediation of Naphthenic Acids by the Unicellular Algae *C.reinhardtii**

Jeffrey Plett [13] – Chinook Country AB

Maple vs Ash

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Bigger Faster Stronger Sooner

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Expedited spike-culture-derived variant population for mutation-mining in wheat

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Avatouch 2.0: "Upgrading" Real Life with a Rich Augmented Reality Experience

Sathya Baskaran [17] – Ottawa ON

Recovery By Regeneration

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BAMHA: "vert" la performance!

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Automated Drinking & Driving Deterrence System

Ellen Song [16] – Annapolis Valley NS

Apple Aroma: Enhancement of Apple Volatile Production Using Precursor Treatments

Josie Mielhausen [16] – Bluewater ON

Phyto Filter

Étienne Beauclair [17] – Est du Québec QC

Jouer à l'aveuglette!

Alex Rhee [14] – Peel ON

The Airless High Efficiency Dryer

Claire Longcroft [15] – Greater Vancouver BC

The Skid Lid Helmet Helper

Melissa Chopcian [14] – Lambton County ON

Pacemaker Battery Improvements

Matt Fyfe [15] – Peace Country AB

The Recycling CanTraption

Amanda Wong [14] – Manitoba Schools Science Symposium MB

Building Touch Sensors With Conductive Paper

Adrian Au [13] – Rideau-St. Lawrence ON

Treading on Thin Ice

Vanessa Ajouri [14], **Mireille Salloum** [13] – Ottawa ON

Absorption des couches

Frannie Sobcov [13] – Ottawa ON

Keeping Seniors Safe: The Sequel

Tim Jubinville [16], **Étienne Lepage-Lepitre** [13] – Estrie QC

SaveMySites

Steven Liu [13], **Kevin Peng** [14] – Waterloo-Wellington ON

The Germ-inator

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HE: Escouade anti-pathogène!
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The Role of Gastrin-Releasing Peptide in Neural Excitation of Rat Paraventricula
-
- Guillaume Sylvain** [16] – Québec et Chaudière-Appalaches QC
La CNF-1, ça respire!
-
- Malak Elbatarny** [15] – Frontenac, Lennox & Addington ON
Making Connections: introducing the artificial nerve
-
- Emmanuel Fortier** [19], **Chloé Nadeau** [18] – Mauricie, Centre-du-Québec QC
Intestins: le duel!
-
- Chanelle Mitchell** [18] – Toronto ON
We've got Chemistry: Aphrodisiacs, Pheromones and Attraction
-
- Gaëlle Groux** [18] – Niagara ON
The Role of the Adventitia in Hypertension
-
- Rebecca Todesco** [16] – Calgary Youth AB
Airborne Attack
-
- Adrian Howie** [18] – Halifax NS
Searching for Neuroprotectants in Natural Compound
-
- Daisy Liu** [15] – Manitoba Schools Science Symposium MB
Evaluation of Snow Fungus Polysaccharides on Benzo[a]pyrene-induced DNA
-
- Caitlin Doherty** [14], **Vicki Kleu** [14] – Vancouver Island BC
Pumping Plaque; Reducing Arterial Turbulent Flow Through External Stents
-
- Madeline Stever** [14] – Peterborough ON
Sunscreen: The Good, The Bad And The Metallic Taste in My Mouth - Part 2
-
- Nichole vanDyk** [15] – South Shore NS
Berry Nutritious
-
- Yichen Zhang** [15] – Greater Vancouver BC
Supergrass II: Lemongrass Essential Oils' Cytotoxicity on Colorectal Cancer Cells
-
- Sarthak Sinha** [15] – Calgary Youth AB
How Does Vitamin A Affect Adult Stem Cell Function
-
- Julia Sarty** [14] – Halifax NS
Sissonne: The relation between knee angle and impact force
-
- Kevala Van Volkenburg** [14] – Northern British Columbia BC
Train Your Brain with Exercise
-
- Stephanie Cairns** [14] – Prince Edward Island PE
Jeux de hasard: Une démarche au stade adolescent pour écarter la dépendance
-
- Lauren Andersen** [14], **Fiona Weaver** [13] – East Parry Sound ON
Bag Those Bugs
-
- Stephanie Chan** [17] – Waterloo-Wellington ON
The Race to Remediate Crude Oil Spills
-
- Adam Mofeed Sawan** [16] – London District ON
Examination of the Microbial Effect of Red Sea Water Incursion into the Dead Sea

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Charlotte Biot [15], Camilla Cazalais [14] – Outaouais QC

Les marais filtrants

Dhanuddara Mohottalage [15] – Ottawa ON

Biofuels! The Alternate Solution to Greenhouse Gas Emmisions

Varsha Jayasankar [14] – Niagara ON

Phytoremediation: Removing Lead Using Plants

Sébastien Melanson [14], Vincent Rochette [13] – Districts francophones du Nouveau-Brunswick (DFNB) NB

Acidification ou calcification?

Skye Preston [13] – York ON

Bioremediation with Basidiomycetes

Alison Lee [13] – Lethbridge AB

Refreshed?

Derek Churchill [13] – Windsor ON

Busy Biomonitors

Meagan Fabel [15] – Windsor ON

Catch the Windy Wave to \$ave! Phase Two

Brynn Charron [15] – Windsor ON

Wind Amplification - Let's Turn Up the Power!

Hayley Todesco [14] – Calgary Youth AB

CO2 Sequestration: Bio-Energy with Carbon Capture and Storage

Mollie Marie Bianchi [13] – York ON

Net Energy Evaluation of an Automotive Wind Driven Generator

Tyler Tardi [12] – South Fraser BC

Go Green with R.E.D. (Rain Energy Device)

Patrick Chong [14] – Bay Area ON

Light Amplification to Improving Solar Cell Efficiency

Brittney Allen [17] – Fundy NB

Chill Out! Abiotic Stress Tolerance in Plants

Anna O'Grady [16] – Eastern Newfoundland NL

The Hertzprung-Russell Diagram

Alexander Sapp [15] – Halifax NS

Sound Localization: The Shape of The Ear

Dan Alferov [13] – London District ON

Binocular Rivalry Polygraph

Kiri Daust [13] – Pacific Northwest BC

Multi-Criteria Decision Making...In Dandelions!

Austin Sawyer [14] – Vancouver Island BC

Slurpy Colour Magic: Colour Disappearance versus Sugar Concentration

Theresa DeCola [14] – Quinte ON

Spirit Mission by Interplanetary Shipping

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Ragnar Robinson [18] – Northern Saskatchewan SK

Is It Timber Time?

Marieta Buse [18] – Waterloo-Wellington ON

Meddling with Metals

Jasmine Cheng [16] – Greater Vancouver BC

The Psidium Theorem

Gavin Raddall [15] – South Shore NS

Save Your Seashells- Save The Environment

Kyle Potts [14] – Simcoe County ON

Corn Stalk Coffee Cups

Lauren Levorson-Wong [13], **Kaitlin Olmsted** [12] – Saskatchewan Chinook SK

Magnets: Farm Tool of the Future

Ashley Anderson [15], **Forrest Tower** [16] – Central Interior British Columbia BC

Applications of Biofuel Technologies in Third World Countries

Mark Tan [16] – Greater Vancouver BC

Photocatalytic Degradation of Formaldehyde

Maria-Christina Sorbo-Mayrand [16] – Montreal QC

Knee Tension

Emily May Been [17], **Joshua Scott Thon** [16] – Calgary Youth AB

The Fractal Geometry of Blood Clots

Adarsh Gupta [16], **Samantha Pramanick** [16] – Toronto ON

The Use of Nanocellulose in Producing a Flexible Organic Light Emitting Diode

Sarah Gordon [18] – South Fraser BC

Alzheimer/Dementia Assistant Technology

Sarah Simpson [18], **Courtney Stewart** [17] – Prince Edward Island PE

The Hydro-Step: An Innovation in Renewable Energy Technology

Charlotte Donaldson [17], **Megan Smith** [17] – Chignecto West NS

Extreme Immobilization

Mathieu Chapdelaine [15], **Gabriel Paquette** [15] – Montérégie QC

Chauffer vert!

Keltie Murdoch [15] – East Kootenay BC

Temper Trap 2: Tempering Air from Unconventional Sources

Jean-Michel Laliberté [16] – Montérégie QC

DomoWeb: Maison automatisée

Alexandra Gaglione [14] – York ON

A Portable Solar Water Purification System

Arctica Cunningham [15] – Pacific Northwest BC

Exhaustless Defrost - The Simplest Solution!

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Brandon Fillmore [14] – Chignecto West NS
"LBS" A Turn For The Better

Katherine Silversides [15] – Vancouver Island BC
Grab It, Drop It: the design of a robotic arm

Atulya Madhavan [15] – Calgary Youth AB
Optic Disc Drusen Detection

Jane Last [15] – Parkland SK
Bottoms Up!

Hannah Gillis [16] – Strait NS
Emergency Measures Access Plans; E-MAP

Liz Furniss [14] – Annapolis Valley NS
Sounds Good to Me!

Brandon Doucette [15] – Conseil scolaire acadien provincial (CSAP) NS
Casiers vs tuyaux pour les homards

Justin Quinn [14] – Central Alberta AB
What is a more efficient way to sort bottles and cans

Lyndsay Jay-Keating [13] – River Valley NB
No Bull About It!

Greg Borschneck [14] – Frontenac, Lennox & Addington ON
Solar Cycle

Nathan Heuvel [15] – Rideau-St. Lawrence ON
E-Mission Control

Nicholas André Johnson [13] – Montreal QC
Battle of the Bridges

Carl Shen [13], **Gary Shen** [13] – London District ON
Passive RFID Based Object Locator

Victor Ling [15] – London District ON
Optimizing 2D-Circulating Fluidized Bed Performance: How Factors Affect Cluster

Connor Deptuck [14] – Kiwanis Southeast Alberta AB
Detecting Narrative Authors

Jon Franchetto [14] – London District ON
Absolute Pitch - Nature or Nurture?

Hwan Hee Son [19] – Fundy NB
High Heels and their Negative Effects on Our Body

Jennifer Mei Ling Campbell [18] – Greater Vancouver BC
An Unexpected Antidote

Melissa Phuong [17] – Peel ON
Memory: Short-term Capacity

Hannah Bild-Enkin [17] – Vancouver Island BC
Slumber Sucking: A New Apparatus to Measure Infant Sucking Characteristics

Benjamin Korol [16] – Regina SK
The Effects of Non-Ionizing Radiation on Arabidopsis thaliana

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-
- Gordon Minaker** [18] – Central Okanagan BC
Surviving Out-of-Hospital Cardiac Arrest
-
- Natalie Fisher** [18] – Chignecto West NS
Evergreen Ever Gone? The Anti-cancer Properties of Oils from Evergreens
-
- Jenny Xue** [15] – Quinte ON
Does Light At Night Boost Appetite? A Study on Mice
-
- Kendra MacCuspig** [18] – Cape Breton NS
Liberation Determination
-
- Yasamin Mahjoub** [17] – Calgary Youth AB
Protection against iron neurotoxicity
-
- Kirsten Ernst** [15] – South Shore NS
Noises Beware; My Decibel Meter is Listening
-
- Kathryn Bowers** [14] – Eastern Newfoundland NL
A Balanced Approach to Art
-
- Karma Abukasm** [16] – Montréal CLS QC
Les secrets de l'immortel
-
- Shubham Talwar** [16] – Lethbridge AB
Acro-Rat-ics!
-
- Rumana Rafiq** [14] – Chignecto West NS
The Truth To Youth
-
- Maddie LaClaire** [13], **Nicole Larson** [14] – Alberta Central East AB
Managing Mould: Five 'S' Home Screening
-
- Maya Burhanpurkar** [12] – Simcoe County ON
Synthesizing a Novel, Bio-Selective "Smart Antibiotic"
-
- Akshay Ben** [13] – York ON
Antioxidants: Bouncing to Growth
-
- Sydney Leah Dorothy Mosaheb** [13] – Frontenac, Lennox & Addington ON
A Hairy Ordeal
-
- Megan Macdonald** [12] – Greater Vancouver BC
Natural Antibiotics: Do They Really Work?
-
- Julia Cameron** [13] – Calgary Youth AB
Vivaldi Helped Me Get an A in Math!
-
- Erin Gilmer** [13] – United Counties ON
How Does Eye Colour Effect Peripheral Vision
-
- Hannah Martin** [13] – Chignecto East NS
A Time for Change
-
- Gaven Mann** [14] – Bay Area ON
Sleep? Haven't Heard of It.
-
- Adam Chen** [14], **Nicholas Dobrovolskis** [14] – Bay Area ON
What's In Your Salt Shaker?
-
- Emily O'Reilly** [13] – Central Interior British Columbia BC
Chamomile vs Bacteria

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-
- Aisha Lillywhite** [14] – Chinook Country AB
Bacterial Presence and Contamination of Washed Hands
-
- Rebecca Sandrelli** [16] – Renfrew County ON
Filter Braced for the Pharmaceutically Laced
-
- Dazhi Liao** [17], **Johnny Su** [17] – Toronto ON
Biochar: A carbon-negative soil enhancer
-
- Nicholas Carverhill** [16] – Saskatoon SK
*Evaluation of broadleaf weed control using the fungus *Phoma macrostoma**
-
- Zach Elgood** [17] – Waterloo-Wellington ON
Potential Production of CH₃CL in an Instream Denitrifying Woodchip Bioreactor
-
- Michael Fleet** [17] – Eastern Newfoundland NL
A River Runs Through It – Mitigations to Reduce Flooding in the Urban Environment
-
- Joan Lopez** [18] – Niagara ON
Anthocyanin and the Autumn Phenomenon
-
- Kathleen Orrell** [18] – Cape Breton NS
Spotting the Difference
-
- Moriah Harvey** [16] – Northwestern Ontario ON
Biofouling Of Boat Hulls
-
- Madalon Burnett** [16] – East Kootenay BC
Heavy Metal Levels in the East Kootenay Watershed
-
- Julia Grein** [14] – Bluewater ON
How Does Your Garden Grow?
-
- Mackenzie Finch** [14] – Cariboo Mainline BC
Carbon: A Solution for Water Pollution, Part Two
-
- Andrea Isabelle De Ocampo** [15], **Kaelyn Gras** [15] – Edmonton AB
Novel Concepts to Decontaminating Oiled Birds
-
- Grace Enns** [16] – Windsor ON
Raining Power!
-
- Abbey-Taylor Weber** [15] – Regina SK
Recycling Expanded Polystyrene: Its Effectiveness as Home Use Insulation
-
- Aruni Jayatilaka** [15] – London District ON
A Boost Up
-
- Matthew Sem** [13] – York ON
Homemade Water Purification System: Phase II
-
- Alexandria Schraenkler** [13] – Renfrew County ON
Does the water quality affect the rising of yeast?
-
- Anthony Meola** [14] – Peel ON
Let it Snow, Let it Snow, Let it Snow
-
- Laurence Emery** [12] – Peterborough ON
*Eco Friendly Road Salt? What Do *Daphnia* Say?*
-
- Emma Borhi** [12] – West Kootenay & Boundary BC
Wake Up and Smell the Coffee (Cup)!

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-
- Michael Gras** [13], **Brennon Grohn** [13] – Edmonton AB
Effective Effluent Expurgation: Naphthenic Acids Removal
-
- Sam Murray** [12], **Jessie Payne** [13] – Avon Maitland-Huron Perth ON
Can Algae Efficiently Convert Car Emissions Into Wholesome and Healthy Oxygen?
-
- Aaron Leger** [12] – Avon Maitland-Huron Perth ON
Enviro-Friendly Packing Frenzy
-
- Stacy Glasberg** [13] – Ottawa ON
The Dark Side of Light
-
- Jacque Gulevich** [17] – Northern British Columbia BC
From Green to Gold
-
- Daniel Larsen** [16] – Prince Edward Island PE
Transformer Efficiencies
-
- Moaz Rashad** [16] – Regina SK
Hydrogen Bioreactor: Optimizing Hydrogen Production in C. reinhardtii Algae
-
- Kelsey Keddy** [16] – Halifax NS
Better home heating and generator systems
-
- Ella Thomson** [15] – Manitoba Schools Science Symposium MB
Genetic Modification of Clostridium thermocellum for Improved Biofuels Production
-
- Shakti Ramkumar** [14] – South Fraser BC
Hybrid House: Building Energy Efficiency by Working With Nature
-
- Nathan Euteneier** [14] – Prairie Valley SK
The Solar Tracker
-
- Arjun Nair** [14] – Calgary Youth AB
Viability of Carbon Capture through Algae
-
- Katherine Teeter** [12] – Bluewater ON
Sunny Days, Sweeping the Clouds Away
-
- Nick Kurjata** [13] – Northern British Columbia BC
The Next Generation Wind Power
-
- Matt Forward** [14] – Wood Buffalo AB
What type & colour of roof is the most thermally efficient in Fort McMurray?
-
- Roxane Sabourin** [16], **Magalie Spénard** [16] – Estrie QC
À tension: Pont d'eau
-
- Zorro Li** [18] – Annapolis Valley NS
Studying Canard Configuration under Low Airspeed Conditions and Its Applications
-
- Emily Faubert** [17] – Peel ON
New Wave Agriculture
-
- Paul Albert-Lebrun** [16] – Waterloo-Wellington ON
Cavitation Hydrophobia
-
- Christopher Papke** [16], **Lucas Zeer-Wanklyn** [17] – Central Okanagan BC
How Brain Activity Alters Our Perception of Time
-
- Victoria Goernert** [18] – Western Manitoba MB
How Distracted Are You?

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Rachel Brown [17], Katie Van der Sloot [16] – Kiwanis Southeast Alberta AB
Triclosan: Double Danger

Nathan Murtha [18], Douglas Sheppard [17] – Halifax NS
Stimulate Your Brain

Nicolas Goyette [15] – Montérégie QC
Croissance en atm contrôlée

Hanna Marie Longard [14] – South Shore NS
Aromatherapy: Think Fast !

Dominique Drouin-Moreland [15] – Edmonton AB
Horse Hues II

Olivier Cloutier [14] – Est du Québec QC
Exercice à contre courant!

Jennifer Csele [15] – Niagara ON
Determining Heavy Metal Contamination in Soil Using Spectroscopy

Emma Bush [14] – Chignecto East NS
For Better or For Worse: A Relationship Between Equine Conformation and

Natalia Teresa Aroca-Ouellette [13] – Greater Vancouver BC
Rise Up

Owen Hogg [13] – Timmins ON
Etes-vous plus creatif qu'un deuxieme annee?

Logan Wolfe [13] – Bluewater ON
Velocitization

Trent Emel [12] – Central Interior British Columbia BC
I Nailed It!

John Hinch [13] – Waterloo-Wellington ON
Stimuli In = Action Out?

Tori Weir [13] – Greater Vancouver BC
The Life and Times of a Cut Flower

Sean Fong [14] – Greater Vancouver BC
Angle of Attack

Emilie Leneveu [13] – Quinte ON
Heads or Tails/Pile ou face

Ty Godfrey [13] – Canadian Rockies AB
Choosing A Colour- That's For The Birds

University of Ottawa Entrance Scholarship

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The Hertzprung-Russell Diagram

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.

Ragnar Robinson [18] – Northern Saskatchewan SK
Is It Timber Time?

Marieta Buse [18] – Waterloo-Wellington ON
Meddling with Metals

Jasmine Cheng [16] – Greater Vancouver BC
The Psidium Theorem

Ashley Anderson [15], Forrest Tower [16] – Central Interior British Columbia BC
Applications of Biofuel Technologies in Third World Countries

Mark Tan [16] – Greater Vancouver BC
Photocatalytic Degradation of Formaldehyde

Maria-Christina Sorbo-Mayrand [16] – Montreal QC
Knee Tension

Emily May Been [17], Joshua Scott Thon [16] – Calgary Youth AB
The Fractal Geometry of Blood Clots

Adarsh Gupta [16], Samantha Pramanick [16] – Toronto ON
The Use of Nanocellulose in Producing a Flexible Organic Light Emitting Diode

Sarah Gordon [18] – South Fraser BC
Alzheimer/Dementia Assistant Technology

Sarah Simpson [18], Courtney Stewart [17] – Prince Edward Island PE
The Hydro-Step: An Innovation in Renewable Energy Technology

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Charlotte Donaldson [17], Megan Smith [17] – Chignecto West NS
Extreme Immobilization

Hwan Hee Son [19] – Fundy NB
High Heels and their Negative Effects on Our Body

Jennifer Mei Ling Campbell [18] – Greater Vancouver BC
An Unexpected Antidote

Melissa Phuong [17] – Peel ON
Memory: Short-term Capacity

Hannah Bild-Enkin [17] – Vancouver Island BC
Slumber Sucking: A New Apparatus to Measure Infant Sucking Characteristics

Benjamin Korol [16] – Regina SK
The Effects of Non-Ionizing Radiation on Arabidopsis thaliana

Gordon Minaker [18] – Central Okanagan BC
Surviving Out-of-Hospital Cardiac Arrest

Natalie Fisher [18] – Chignecto West NS
Evergreen Ever Gone? The Anti-cancer Properties of Oils from Evergreens

Jenny Xue [15] – Quinte ON
Does Light At Night Boost Appetite? A Study on Mice

Kendra MacCuspic [18] – Cape Breton NS
Liberation Determination

Yasamin Mahjoub [17] – Calgary Youth AB
Protection against iron neurotoxicity

Rebecca Sandrelli [16] – Renfrew County ON
Filter Braced for the Pharmaceutically Laced

Dazhi Liao [17], Johnny Su [17] – Toronto ON
Biochar: A carbon-negative soil enhancer

Nicholas Carverhill [16] – Saskatoon SK
Evaluation of broadleaf weed control using the fungus Phoma macrostoma

Zach Elgood [17] – Waterloo-Wellington ON
Potential Production of CH₃CL in an Instream Denitrifying Woodchip Bioreactor

Michael Fleet [17] – Eastern Newfoundland NL
A River Runs Through It – Mitigations to Reduce Flooding in the Urban Environment

Joan Lopez [18] – Niagara ON
Anthocyanin and the Autumn Phenomenon

Kathleen Orrell [18] – Cape Breton NS
Spotting the Difference

Jacque Gulevich [17] – Northern British Columbia BC
From Green to Gold

Daniel Larsen [16] – Prince Edward Island PE
Transformer Efficiencies

Moaz Rashad [16] – Regina SK
Hydrogen Bioreactor: Optimizing Hydrogen Production in C. reinhardtii Algae

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Kelsey Keddy [16] – Halifax NS

Better home heating and generator systems

Roxane Sabourin [16], **Magalie Spénard** [16] – Estrie QC

À tension: Pont d'eau

Zorro Li [18] – Annapolis Valley NS

Studying Canard Configuration under Low Airspeed Conditions and Its Applications

Emily Faubert [17] – Peel ON

New Wave Agriculture

Paul Albert-Lebrun [16] – Waterloo-Wellington ON

Cavitation Hydrophobia

Christopher Papke [16], **Lucas Zeer-Wanklyn** [17] – Central Okanagan BC

How Brain Activity Alters Our Perception of Time

Victoria Goernert [18] – Western Manitoba MB

How Distracted Are You?

Rachel Brown [17], **Katie Van der Sloot** [16] – Kiwanis Southeast Alberta AB

Triclosan: Double Danger

Nathan Murtha [18], **Douglas Sheppard** [17] – Halifax NS

Stimulate Your Brain

University of Manitoba Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: University of Manitoba

The Office of the Vice-President (Research) 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. Each year, a maximum of twenty scholarships, valued at \$5,000 each, will be offered to undergraduate students who:

(1) have been awarded a Gold Medal for a senior project at Youth Science Canada's Canada-Wide Science Fair within the previous two years;

Sandra Dusolt [16] – Northwestern Ontario ON

No power, no water, no food, no problem!

David Pellerin [18] – Estrie QC

Préférence O-LED

Christopher Chopcian [17] – Lambton County ON

Computer Controlled Heart Assist Pump

Andrew Martin [19], **Eric Stublely** [18] – Waterloo-Wellington ON

Modelling Population Growth

Nicholas Schiefer [17] – York ON

Apodora: Markov Chain-Inspired Microsearch

Demetrios Koziris [17], **Iakovos Vathis** [16] – Montreal QC

Ischemic Preconditioning: Effect on Muscular Endurance

Marshall Zhang [16] – York ON

Mechanisms of Action of Small Molecules in the Rescue of $\Delta F508$ -CFTR

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Danny Huang [17], Jaclynn Wong [17] – Edmonton AB
O-GlcNAcylation: Suppressing Cancer Progression

Arnaud Desrosiers [17] – Montréal CLS QC
Dégradation du méthylmercure

Shayla Larson [16], Adam Noble [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

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 gold medalist and \$2,000 to each 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.

Sandra Dusolt [16] – Northwestern Ontario ON
No power, no water, no food, no problem!

David Pellerin [18] – Estrie QC
Préférence O-LED

Christopher Chopcian [17] – Lambton County ON
Computer Controlled Heart Assist Pump

Andrew Martin [19], Eric Stublely [18] – Waterloo-Wellington ON
Modelling Population Growth

Nicholas Schiefer [17] – York ON
Apodora: Markov Chain-Inspired Microsearch

Demetrios Koziris [17], Iakovos Vathis [16] – Montreal QC
Ischemic Preconditioning: Effect on Muscular Endurance

Marshall Zhang [16] – York ON
Mechanisms of Action of Small Molecules in the Rescue of $\Delta F508$ -CFTR

Danny Huang [17], Jaclynn Wong [17] – Edmonton AB
O-GlcNAcylation: Suppressing Cancer Progression

Arnaud Desrosiers [17] – Montréal CLS QC
Dégradation du méthylmercure

Shayla Larson [16], Adam Noble [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

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 gold medalist and \$2,000 to each 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.

Sarah MacCallum [17] – Chignecto East NS
Bigger Faster Stronger Sooner

Prakriti Pratijit [14], Pranay Pratijit [16] – Saskatoon SK
Expedited spike-culture-derived variant population for mutation-mining in wheat

Sandro Young [17] – Ottawa ON
Avatouch 2.0: "Upgrading" Real Life with a Rich Augmented Reality Experience

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Sathya Baskaran [17] – Ottawa ON

Recovery By Regeneration

Raphaël Dion [19], **David LeBrasseur** [19] – Estrie QC

BAMHA: "vert" la performance!

Nirusan Jayaranjan [18] – St. James-Assiniboia MB

Automated Drinking & Driving Deterrence System

Ellen Song [16] – Annapolis Valley NS

Apple Aroma: Enhancement of Apple Volatile Production Using Precursor Treatments

David Drouin [17] – Québec et Chaudière-Appalaches QC

HE: Escouade anti-pathogène!

A-J Hutchings [19] – Ottawa ON

The Role of Gastrin-Releasing Peptide in Neural Excitation of Rat Paraventricula

Guillaume Sylvain [16] – Québec et Chaudière-Appalaches QC

La CNF-1, ça respire!

Malak Elbatarny [15] – Frontenac, Lennox & Addington ON

Making Connections: introducing the artificial nerve

Emmanuel Fortier [19], **Chloé Nadeau** [18] – Mauricie, Centre-du-Québec QC

Intestins: le duel!

Chanelle Mitchell [18] – Toronto ON

We've got Chemistry: Aphrodisiacs, Pheromones and Attraction

Gaëlle Groux [18] – Niagara ON

The Role of the Adventitia in Hypertension

Rebecca Todesco [16] – Calgary Youth AB

Airborne Attack

Adrian Howie [18] – Halifax NS

Searching for Neuroprotectants in Natural Compound

Stephanie Chan [17] – Waterloo-Wellington ON

The Race to Remediate Crude Oil Spills

Adam Mofeed Sawan [16] – London District ON

Examination of the Microbial Effect of Red Sea Water Incursion into the Dead Sea

Brittney Allen [17] – Fundy NB

Chill Out! Abiotic Stress Tolerance in Plants

Anna O'Grady [16] – Eastern Newfoundland NL

The Hertzprung-Russell Diagram

Dalhousie University Faculty of Science Entrance Scholarship

Senior Gold Medallist - \$5000 Entrance Scholarship

Sponsor: Dalhousie University

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.

Sandra Dusolt [16] – Northwestern Ontario ON

No power, no water, no food, no problem!

David Pellerin [18] – Estrie QC

Préférence O-LED

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Christopher Chopcian [17] – Lambton County ON
Computer Controlled Heart Assist Pump

Andrew Martin [19], **Eric Stublely** [18] – Waterloo-Wellington ON
Modelling Population Growth

Nicholas Schiefer [17] – York ON
Apodora: Markov Chain-Inspired Microsearch

Demetrios Koziris [17], **Iakovos Vathis** [16] – Montreal QC
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Marshall Zhang [16] – York ON
Mechanisms of Action of Small Molecules in the Rescue of $\Delta F508$ -CFTR

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O-GlcNAcylation: Suppressing Cancer Progression

Arnaud Desrosiers [17] – Montréal CLS QC
Dégradation du méthylmercure

Shayla Larson [16], **Adam Noble** [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

Dalhousie University Faculty of Science Entrance Scholarship

Senior Silver Medallist - \$2500 Entrance Scholarship

Sponsor: Dalhousie University

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.

Sarah MacCallum [17] – Chignecto East NS
Bigger Faster Stronger Sooner

Prakriti Pratijit [14], **Pranay Pratijit** [16] – Saskatoon SK
Expedited spike-culture-derived variant population for mutation-mining in wheat

Sandro Young [17] – Ottawa ON
Avatouch 2.0: "Upgrading" Real Life with a Rich Augmented Reality Experience

Sathya Baskaran [17] – Ottawa ON
Recovery By Regeneration

Raphaël Dion [19], **David LeBrasseur** [19] – Estrie QC
BAMHA: "vert" la performance!

Nirusan Jayaranjan [18] – St. James-Assiniboia MB
Automated Drinking & Driving Deterrence System

Ellen Song [16] – Annapolis Valley NS
Apple Aroma: Enhancement of Apple Volatile Production Using Precursor Treatments

David Drouin [17] – Québec et Chaudière-Appalaches QC
HE: Escouade anti-pathogène!

A-J Hutchings [19] – Ottawa ON
The Role of Gastrin-Releasing Peptide in Neural Excitation of Rat Paraventricula

Guillaume Sylvain [16] – Québec et Chaudière-Appalaches QC
La CNF-1, ça respire!

Malak Elbatarny [15] – Frontenac, Lennox & Addington ON
Making Connections: introducing the artificial nerve

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Emmanuel Fortier [19], Chloé Nadeau [18] – Mauricie, Centre-du-Québec QC
Intestins: le duel!

Chanelle Mitchell [18] – Toronto ON
We've got Chemistry: Aphrodisiacs, Pheromones and Attraction

Gaëlle Groux [18] – Niagara ON
The Role of the Adventitia in Hypertension

Rebecca Todesco [16] – Calgary Youth AB
Airborne Attack

Adrian Howie [18] – Halifax NS
Searching for Neuroprotectants in Natural Compound

Stephanie Chan [17] – Waterloo-Wellington ON
The Race to Remediate Crude Oil Spills

Adam Mofeed Sawan [16] – London District ON
Examination of the Microbial Effect of Red Sea Water Incursion into the Dead Sea

Brittney Allen [17] – Fundy NB
Chill Out! Abiotic Stress Tolerance in Plants

Anna O'Grady [16] – Eastern Newfoundland NL
The Hertzprung-Russell Diagram

Excellence Award - Senior

Gold Medal

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

Sandra Dusolt [16] – Northwestern Ontario ON
No power, no water, no food, no problem!

David Pellerin [18] – Estrie QC
Préférence O-LED

Christopher Chopcian [17] – Lambton County ON
Computer Controlled Heart Assist Pump

Andrew Martin [19], Eric Stublely [18] – Waterloo-Wellington ON
Modelling Population Growth

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Apodora: Markov Chain-Inspired Microsearch

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Marshall Zhang [16] – York ON
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O-GlcNAcylation: Suppressing Cancer Progression

Arnaud Desrosiers [17] – Montréal CLS QC
Dégradation du méthylmercure

Shayla Larson [16], Adam Noble [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Excellence Award - Intermediate

Gold Medal

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

Jessie MacAlpine [15] – London District ON
*Suppressing weed germination using allelopathy of *Alliaria petiolata**

Madison Ricard [15] – Edmonton AB
From The Ground Up: Part 2

Minuoja Chandramohan [14] – Montréal CLS QC
L'antimatière contre le cancer

Farouk Selouani [15] – Districts francophones du Nouveau-Brunswick (DFNB) NB
DiagnAssist: Outil d'aide au diagnostic du cancer du sein

Hannah Boone [14], **Megan Howse** [15] – Eastern Newfoundland NL
Tea Time! Relax Your Way to Better Health

Sarah Battat [15] – Montreal QC
Hysteresis: A Lasting Memory

Mikaela Preston [14] – York ON
Population Dynamics in Algal Bioreactors

Benjamin Friedman [16] – Cariboo Mainline BC
Terminal Velocity of Drops Rising in Water due to Buoyancy: What a Drag!

Sarah Hyslop [15] – Calgary Youth AB
Biofilm Eradication Using Novel Enzyme and Antibiotic Combinations

Sujay Nagaraj [14] – Calgary Youth AB
*Bio-remediation of Naphthenic Acids by the Unicellular Algae *C.reinhardtii**

Excellence Award - Junior

Gold Medal

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

Gayashan Tennakoon [13] – Ottawa ON
Oil Sands: Friend or Foe?

Calvin Rieder [14] – Bay Area ON
"Water, water everywhere, Nor any drop to drink" Atmospheric Water Condensers

Raymond R M Wang [13], **Ty Zhang** [12] – Greater Vancouver BC
Weather Harvester

Daniel McInnis [13] – Ottawa ON
Putting a Lid on Concussions - Materials Testing and a New Helmet Design

Abhishek Chakraborty [12] – Manitoba Schools Science Symposium MB
Effects of Folic Acid on Blood Cells

Miranda Sherell [13] – West Kootenay & Boundary BC
Hidden Behind the Rainbow

Neel Ashton Sharma [13] – Frontenac, Lennox & Addington ON
*S.O.S.: Stop Oil Spills- Results of an LC50 Study on *Artemia Salina**

Naima Raza [14] – Lambton County ON
The NEWspaper Fuel: Enhancing Cellulosic Ethanol Production

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Sruti Arulmani [13] – Peel ON
Photoheterotrophic Microbial Fuel Cell

Jeffrey Plett [13] – Chinook Country AB
Maple vs Ash

Excellence Award - Senior

Silver Medal

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

Sarah MacCallum [17] – Chignecto East NS
Bigger Faster Stronger Sooner

Prakriti Pratijit [14], **Pranay Pratijit** [16] – Saskatoon SK
Expedited spike-culture-derived variant population for mutation-mining in wheat

Sandro Young [17] – Ottawa ON
Avatouch 2.0: "Upgrading" Real Life with a Rich Augmented Reality Experience

Sathya Baskaran [17] – Ottawa ON
Recovery By Regeneration

Raphaël Dion [19], **David LeBrasseur** [19] – Estrie QC
BAMHA: "vert" la performance!

Nirusan Jayaranjan [18] – St. James-Assiniboia MB
Automated Drinking & Driving Deterrence System

Ellen Song [16] – Annapolis Valley NS
Apple Aroma: Enhancement of Apple Volatile Production Using Precursor Treatments

David Drouin [17] – Québec et Chaudière-Appalaches QC
HE: Escouade anti-pathogène!

A-J Hutchings [19] – Ottawa ON
The Role of Gastrin-Releasing Peptide in Neural Excitation of Rat Paraventricula

Guillaume Sylvain [16] – Québec et Chaudière-Appalaches QC
La CNF-1, ça respire!

Malak Elbatarny [15] – Frontenac, Lennox & Addington ON
Making Connections: introducing the artificial nerve

Emmanuel Fortier [19], **Chloé Nadeau** [18] – Mauricie, Centre-du-Québec QC
Intestins: le duel!

Chanelle Mitchell [18] – Toronto ON
We've got Chemistry: Aphrodisiacs, Pheromones and Attraction

Gaëlle Groux [18] – Niagara ON
The Role of the Adventitia in Hypertension

Rebecca Todesco [16] – Calgary Youth AB
Airborne Attack

Adrian Howie [18] – Halifax NS
Searching for Neuroprotectants in Natural Compound

Stephanie Chan [17] – Waterloo-Wellington ON
The Race to Remediate Crude Oil Spills

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Adam Mofeed Sawan [16] – London District ON
Examination of the Microbial Effect of Red Sea Water Incursion into the Dead Sea

Brittney Allen [17] – Fundy NB
Chill Out! Abiotic Stress Tolerance in Plants

Anna O'Grady [16] – Eastern Newfoundland NL
The Hertzprung-Russell Diagram

Excellence Award - Intermediate

Silver Medal

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

Josie Mielhausen [16] – Bluewater ON
Phyto Filter

Étienne Beauclair [17] – Est du Québec QC
Jouer à l'aveuglette!

Alex Rhee [14] – Peel ON
The Airless High Efficiency Dryer

Claire Longcroft [15] – Greater Vancouver BC
The Skid Lid Helmet Helper

Melissa Chopcian [14] – Lambton County ON
Pacemaker Battery Improvements

Matt Fyfe [15] – Peace Country AB
The Recycling CanTraption

Tim Jubinville [16], **Étienne Lepage-Lepitre** [13] – Estrie QC
SaveMySites

Daisy Liu [15] – Manitoba Schools Science Symposium MB
Evaluation of Snow Fungus Polysaccharides on Benzo[a]pyrene-induced DNA

Caitlin Doherty [14], **Vicki Kleu** [14] – Vancouver Island BC
Pumping Plaque; Reducing Arterial Turbulent Flow Through External Stents

Madeline Stever [14] – Peterborough ON
Sunscreen: The Good, The Bad And The Metallic Taste in My Mouth - Part 2

Nichole vanDyk [15] – South Shore NS
Berry Nutritious

Yichen Zhang [15] – Greater Vancouver BC
Supergrass II: Lemongrass Essential Oils' Cytotoxicity on Colorectal Cancer Cells

Sarthak Sinha [15] – Calgary Youth AB
How Does Vitamin A Affect Adult Stem Cell Function

Charlotte Biot [15], **Camilla Cazalais** [14] – Outaouais QC
Les marais filtrants

Dhanuddara Mohottalage [15] – Ottawa ON
Biofuels! The Alternate Solution to Greenhouse Gas Emmisions

Varsha Jayasankar [14] – Niagara ON
Phytoremediation: Removing Lead Using Plants

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Meagan Fabel [15] – Windsor ON
Catch the Windy Wave to Save! Phase Two

Brynn Charron [15] – Windsor ON
Wind Amplification - Let's Turn Up the Power!

Hayley Todesco [14] – Calgary Youth AB
CO2 Sequestration: Bio-Energy with Carbon Capture and Storage

Alexander Sapp [15] – Halifax NS
Sound Localization: The Shape of The Ear

Excellence Award - Junior

Silver Medal

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

Amanda Wong [14] – Manitoba Schools Science Symposium MB
Building Touch Sensors With Conductive Paper

Adrian Au [13] – Rideau-St. Lawrence ON
Treading on Thin Ice

Vanessa Ajouri [14], **Mireille Salloum** [13] – Ottawa ON
Absorption des couches

Frannie Sobcov [13] – Ottawa ON
Keeping Seniors Safe: The Sequel

Steven Liu [13], **Kevin Peng** [14] – Waterloo-Wellington ON
The Germ-inator

Julia Sarty [14] – Halifax NS
Sissonne: The relation between knee angle and impact force

Kevala Van Volkenburg [14] – Northern British Columbia BC
Train Your Brain with Exercise

Stephanie Cairns [14] – Prince Edward Island PE
Jeux de hasard: Une démarche au stade adolescent pour écarter la dépendance

Lauren Andersen [14], **Fiona Weaver** [13] – East Parry Sound ON
Bag Those Bugs

Sébastien Melanson [14], **Vincent Rochette** [13] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Acidification ou calcification?

Skye Preston [13] – York ON
Bioremediation with Basidiomycetes

Alison Lee [13] – Lethbridge AB
Refreshed?

Derek Churchill [13] – Windsor ON
Busy Biomonitors

Mollie Marie Bianchi [13] – York ON
Net Energy Evaluation of an Automotive Wind Driven Generator

Tyler Tardi [12] – South Fraser BC
Go Green with R.E.D. (Rain Energy Device)

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Patrick Chong [14] – Bay Area ON
Light Amplification to Improving Solar Cell Efficiency

Dan Alferov [13] – London District ON
Binocular Rivalry Polygraph

Kiri Daust [13] – Pacific Northwest BC
Multi-Criteria Decision Making...In Dandelions!

Austin Sawyer [14] – Vancouver Island BC
Slurpy Colour Magic: Colour Disappearance versus Sugar Concentration

Theresa DeCola [14] – Quinte ON
Spirit Mission by Interplanetary Shipping

Excellence Award - Senior

Bronze Medal

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

Ragnar Robinson [18] – Northern Saskatchewan SK
Is It Timber Time?

Marieta Buse [18] – Waterloo-Wellington ON
Meddling with Metals

Jasmine Cheng [16] – Greater Vancouver BC
The Psidium Theorem

Ashley Anderson [15], **Forrest Tower** [16] – Central Interior British Columbia BC
Applications of Biofuel Technologies in Third World Countries

Mark Tan [16] – Greater Vancouver BC
Photocatalytic Degradation of Formaldehyde

Maria-Christina Sorbo-Mayrand [16] – Montreal QC
Knee Tension

Emily May Been [17], **Joshua Scott Thon** [16] – Calgary Youth AB
The Fractal Geometry of Blood Clots

Adarsh Gupta [16], **Samantha Pramanick** [16] – Toronto ON
The Use of Nanocellulose in Producing a Flexible Organic Light Emitting Diode

Sarah Gordon [18] – South Fraser BC
Alzheimer/Dementia Assistant Technology

Sarah Simpson [18], **Courtney Stewart** [17] – Prince Edward Island PE
The Hydro-Step: An Innovation in Renewable Energy Technology

Charlotte Donaldson [17], **Megan Smith** [17] – Chignecto West NS
Extreme Immobilization

Hwan Hee Son [19] – Fundy NB
High Heels and their Negative Effects on Our Body

Jennifer Mei Ling Campbell [18] – Greater Vancouver BC
An Unexpected Antidote

Melissa Phuong [17] – Peel ON
Memory: Short-term Capacity

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



-
- Hannah Bild-Enkin** [17] – Vancouver Island BC
Slumber Sucking: A New Apparatus to Measure Infant Sucking Characteristics
-
- Benjamin Korol** [16] – Regina SK
The Effects of Non-Ionizing Radiation on Arabidopsis thaliana
-
- Gordon Minaker** [18] – Central Okanagan BC
Surviving Out-of-Hospital Cardiac Arrest
-
- Natalie Fisher** [18] – Chignecto West NS
Evergreen Ever Gone? The Anti-cancer Properties of Oils from Evergreens
-
- Jenny Xue** [15] – Quinte ON
Does Light At Night Boost Appetite? A Study on Mice
-
- Kendra MacCuspic** [18] – Cape Breton NS
Liberation Determination
-
- Yasamin Mahjoub** [17] – Calgary Youth AB
Protection against iron neurotoxicity
-
- Rebecca Sandrelli** [16] – Renfrew County ON
Filter Braced for the Pharmaceutically Laced
-
- Dazhi Liao** [17], **Johnny Su** [17] – Toronto ON
Biochar: A carbon-negative soil enhancer
-
- Nicholas Carverhill** [16] – Saskatoon SK
Evaluation of broadleaf weed control using the fungus Phoma macrostoma
-
- Zach Elgood** [17] – Waterloo-Wellington ON
Potential Production of CH₃CL in an Instream Denitrifying Woodchip Bioreactor
-
- Michael Fleet** [17] – Eastern Newfoundland NL
A River Runs Through It – Mitigations to Reduce Flooding in the Urban Environment
-
- Joan Lopez** [18] – Niagara ON
Anthocyanin and the Autumn Phenomenon
-
- Kathleen Orrell** [18] – Cape Breton NS
Spotting the Difference
-
- Jacque Gulevich** [17] – Northern British Columbia BC
From Green to Gold
-
- Daniel Larsen** [16] – Prince Edward Island PE
Transformer Efficiencies
-
- Moaz Rashad** [16] – Regina SK
Hydrogen Bioreactor: Optimizing Hydrogen Production in C. reinhardtii Algae
-
- Kelsey Keddy** [16] – Halifax NS
Better home heating and generator systems
-
- Roxane Sabourin** [16], **Magalie Spénard** [16] – Estrie QC
À tension: Pont d'eau
-
- Zorro Li** [18] – Annapolis Valley NS
Studying Canard Configuration under Low Airspeed Conditions and Its Applications
-
- Emily Faubert** [17] – Peel ON
New Wave Agriculture

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Paul Albert-Lebrun [16] – Waterloo-Wellington ON
Cavitation Hydrophobia

Christopher Papke [16], **Lucas Zeer-Wanklyn** [17] – Central Okanagan BC
How Brain Activity Alters Our Perception of Time

Victoria Goernert [18] – Western Manitoba MB
How Distracted Are You?

Rachel Brown [17], **Katie Van der Sloot** [16] – Kiwanis Southeast Alberta AB
Triclosan: Double Danger

Nathan Murtha [18], **Douglas Sheppard** [17] – Halifax NS
Stimulate Your Brain

Excellence Award - Intermediate

Bronze Medal

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

Gavin Raddall [15] – South Shore NS
Save Your Seashells- Save The Environment

Kyle Potts [14] – Simcoe County ON
Corn Stalk Coffee Cups

Mathieu Chapdelaine [15], **Gabriel Paquette** [15] – Montérégie QC
Chauffer vert!

Keltie Murdoch [15] – East Kootenay BC
Temper Trap 2: Tempering Air from Unconventional Sources

Jean-Michel Laliberté [16] – Montérégie QC
DomoWeb: Maison automatisée

Alexandra Gaglione [14] – York ON
A Portable Solar Water Purification System

Arctica Cunningham [15] – Pacific Northwest BC
Exhaustless Defrost - The Simplest Solution!

Brandon Fillmore [14] – Chignecto West NS
"LBS" A Turn For The Better

Katherine Silversides [15] – Vancouver Island BC
Grab It, Drop It: the design of a robotic arm

Atulya Madhavan [15] – Calgary Youth AB
Optic Disc Drusen Detection

Jane Last [15] – Parkland SK
Bottoms Up!

Hannah Gillis [16] – Strait NS
Emergency Measures Access Plans; E-MAP

Liz Furniss [14] – Annapolis Valley NS
Sounds Good to Me!

Brandon Doucette [15] – Conseil scolaire acadien provincial (CSAP) NS
Casiers vs tuyaux pour les homards

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Justin Quinn [14] – Central Alberta AB <i>What is a more efficient way to sort bottles and cans</i>
Victor Ling [15] – London District ON <i>Optimizing 2D-Circulating Fluidized Bed Performance: How Factors Affect Cluster</i>
Kirsten Ernst [15] – South Shore NS <i>Noises Beware; My Decibel Meter is Listening</i>
Kathryn Bowers [14] – Eastern Newfoundland NL <i>A Balanced Approach to Art</i>
Karma Abukasm [16] – Montréal CLS QC <i>Les secrets de l'immortel</i>
Shubham Talwar [16] – Lethbridge AB <i>Acro-Rat-ics!</i>
Rumana Rafiq [14] – Chignecto West NS <i>The Truth To Youth</i>
Maddie LaClaire [13], Nicole Larson [14] – Alberta Central East AB <i>Managing Mould: Five 'S' Home Screening</i>
Moriah Harvey [16] – Northwestern Ontario ON <i>Biofouling Of Boat Hulls</i>
Madalon Burnett [16] – East Kootenay BC <i>Heavy Metal Levels in the East Kootenay Watershed</i>
Julia Grein [14] – Bluewater ON <i>How Does Your Garden Grow?</i>
Mackenzie Finch [14] – Cariboo Mainline BC <i>Carbon: A Solution for Water Pollution, Part Two</i>
Andrea Isabelle De Ocampo [15], Kaelyn Gras [15] – Edmonton AB <i>Novel Concepts to Decontaminating Oiled Birds</i>
Grace Enns [16] – Windsor ON <i>Raining Power!</i>
Abbey-Taylor Weber [15] – Regina SK <i>Recycling Expanded Polystyrene: Its Effectiveness as Home Use Insulation</i>
Aruni Jayatilaka [15] – London District ON <i>A Boost Up</i>
Ella Thomson [15] – Manitoba Schools Science Symposium MB <i>Genetic Modification of Clostridium thermocellum for Improved Biofuels Production</i>
Shakti Ramkumar [14] – South Fraser BC <i>Hybrid House: Building Energy Efficiency by Working With Nature</i>
Nathan Euteneier [14] – Prairie Valley SK <i>The Solar Tracker</i>
Arjun Nair [14] – Calgary Youth AB <i>Viability of Carbon Capture through Algae</i>
Nicolas Goyette [15] – Montérégie QC <i>Croissance en atm contrôlée</i>

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Hanna Marie Longard [14] – South Shore NS

Aromatherapy: Think Fast !

Dominique Drouin-Moreland [15] – Edmonton AB

Horse Hues II

Olivier Cloutier [14] – Est du Québec QC

Exercice à contre courant!

Jennifer Csele [15] – Niagara ON

Determining Heavy Metal Contamination in Soil Using Spectroscopy

Emma Bush [14] – Chignecto East NS

For Better or For Worse: A Relationship Between Equine Conformation and

Excellence Award - Junior

Bronze Medal

Sponsor: Youth Science Canada

Medal, \$300 cash & certificate

Lauren Levorson-Wong [13], **Kaitlin Olmsted** [12] – Saskatchewan Chinook SK

Magnets: Farm Tool of the Future

Lyndsay Jay-Keating [13] – River Valley NB

No Bull About It!

Greg Borschneck [14] – Frontenac, Lennox & Addington ON

Solar Cycle

Nathan Heuvel [15] – Rideau-St. Lawrence ON

E-Mission Control

Nicholas André Johnson [13] – Montreal QC

Battle of the Bridges

Carl Shen [13], **Gary Shen** [13] – London District ON

Passive RFID Based Object Locator

Connor Deptuck [14] – Kiwanis Southeast Alberta AB

Detecting Narrative Authors

Jon Franchetto [14] – London District ON

Absolute Pitch - Nature or Nurture?

Maya Burhanpurkar [12] – Simcoe County ON

Synthesizing a Novel, Bio-Selective "Smart Antibiotic"

Akshay Ben [13] – York ON

Antioxidants: Bouncing to Growth

Sydney Leah Dorothy Mosaheb [13] – Frontenac, Lennox & Addington ON

A Hairy Ordeal

Megan Macdonald [12] – Greater Vancouver BC

Natural Antibiotics: Do They Really Work?

Julia Cameron [13] – Calgary Youth AB

Vivaldi Helped Me Get an A in Math!

Erin Gilmer [13] – United Counties ON

How Does Eye Colour Effect Peripheral Vision

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Hannah Martin [13] – Chignecto East NS
A Time for Change

Gaven Mann [14] – Bay Area ON
Sleep? Haven't Heard of It.

Adam Chen [14], **Nicholas Dobrovolskis** [14] – Bay Area ON
What's In Your Salt Shaker?

Emily O'Reilly [13] – Central Interior British Columbia BC
Chamomile vs Bacteria

Aisha Lillywhite [14] – Chinook Country AB
Bacterial Presence and Contamination of Washed Hands

Matthew Sem [13] – York ON
Homemade Water Purification System: Phase II

Alexandria Schraenkler [13] – Renfrew County ON
Does the water quality affect the rising of yeast?

Anthony Meola [14] – Peel ON
Let it Snow, Let it Snow, Let it Snow

Laurence Emery [12] – Peterborough ON
Eco Friendly Road Salt? What Do Daphnia Say?

Emma Borhi [12] – West Kootenay & Boundary BC
Wake Up and Smell the Coffee (Cup)!

Michael Gras [13], **Brennon Grohn** [13] – Edmonton AB
Effective Effluent Expurgation: Naphthenic Acids Removal

Sam Murray [12], **Jessie Payne** [13] – Avon Maitland-Huron Perth ON
Can Algae Efficiently Convert Car Emissions Into Wholesome and Healthy Oxygen?

Aaron Leger [12] – Avon Maitland-Huron Perth ON
Enviro-Friendly Packing Frenzy

Stacy Glasberg [13] – Ottawa ON
The Dark Side of Light

Katherine Teeter [12] – Bluewater ON
Sunny Days, Sweeping the Clouds Away

Nick Kurjata [13] – Northern British Columbia BC
The Next Generation Wind Power

Matt Forward [14] – Wood Buffalo AB
What type & colour of roof is the most thermally efficient in Fort McMurray?

Natalia Teresa Aroca-Ouellette [13] – Greater Vancouver BC
Rise Up

Owen Hogg [13] – Timmins ON
Etes-vous plus creatif qu'un deuxieme annee?

Logan Wolfe [13] – Bluewater ON
Velocitization

Trent Emel [12] – Central Interior British Columbia BC
I Nailed It!

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



John Hinch [13] – Waterloo-Wellington ON
Stimuli In = Action Out?

Tori Weir [13] – Greater Vancouver BC
The Life and Times of a Cut Flower

Sean Fong [14] – Greater Vancouver BC
Angle of Attack

Emilie Leneveu [13] – Quinte ON
Heads or Tails/Pile ou face

Ty Godfrey [13] – Canadian Rockies AB
Choosing A Colour- That's For The Birds

Gold Medal - International

Sponsor: Youth Science Canada
Medal and a certificate

Hsin-Po Wang [17] – Taiwan, R.O.C.
The Rotating Table

Fang-Yu Chang [14] – Taiwan, R.O.C.
Investigation of water droplets climbing up hot saw blades

Silver Medal - International

Sponsor: Youth Science Canada
Medal and a certificate

Manuel Hernández Cárdenas [19], **Victor Ramírez Vázquez** [19] – Mexico
Mexico Vivo: Know Your Biodiversity

Challenge Award - Resources

Senior

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

Sandra Dusolt [16] – Northwestern Ontario ON
No power, no water, no food, no problem!

Challenge Award - Resources

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Gavin Raddall [15] – South Shore NS
Save Your Seashells- Save The Environment

Challenge Award - Resources

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Gayashan Tennakoon [13] – Ottawa ON
Oil Sands: Friend or Foe?

Challenge Award - Innovation

Senior

Sponsor: Research in Motion Limited
\$1,000 cash & certificate

Andrew Martin [19], **Eric Stublely** [18] – Waterloo-Wellington ON
Modelling Population Growth

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Challenge Award - Innovation

Intermediate

Sponsor: Research in Motion Limited
\$750 cash & certificate

Madison Ricard [15] – Edmonton AB

From The Ground Up: Part 2

Challenge Award - Innovation

Junior

Sponsor: Research in Motion Limited
\$500 cash & certificate

Daniel McInnis [13] – Ottawa ON

Putting a Lid on Concussions - Materials Testing and a New Helmet Design

Challenge Award - Information

Senior

Sponsor: Intel of Canada
\$1,000 cash & certificate

Nicholas Schiefer [17] – York ON

Apodora: Markov Chain-Inspired Microsearch

Challenge Award - Information

Intermediate

Sponsor: Intel of Canada
\$750 cash & certificate

Tim Jubinville [16], **Étienne Lepage-Lepitre** [13] – Estrie QC

SaveMySites

Challenge Award - Information

Junior

Sponsor: Intel of Canada
\$500 cash & certificate

Steven Liu [13], **Kevin Peng** [14] – Waterloo-Wellington ON

The Germ-inator

Challenge Award - Health

Senior

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

Danny Huang [17], **Jaclynn Wong** [17] – Edmonton AB

O-GlcNAcylation: Suppressing Cancer Progression

Challenge Award - Health

Intermediate

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

Hannah Boone [14], **Megan Howse** [15] – Eastern Newfoundland NL

Tea Time! Relax Your Way to Better Health

Challenge Award - Health

Junior

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

Abhishek Chakraborty [12] – Manitoba Schools Science Symposium MB

Effects of Folic Acid on Blood Cells

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Challenge Award - Environment

Senior

Sponsor: Encana Corporation
\$1,000 cash & certificate

Shayla Larson [16], Adam Noble [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

Challenge Award - Environment

Intermediate

Sponsor: Encana Corporation
\$750 cash & certificate

Varsha Jayasankar [14] – Niagara ON
Phytoremediation: Removing Lead Using Plants

Challenge Award - Environment

Junior

Sponsor: Encana Corporation
\$500 cash & certificate

Neel Ashton Sharma [13] – Frontenac, Lennox & Addington ON
S.O.S.: Stop Oil Spills- Results of an LC50 Study on Artemia Salina

Challenge Award - Energy

Senior

Sponsor: Suncor Energy Inc.
\$1,000 cash & certificate

Jacque Gulevich [17] – Northern British Columbia BC
From Green to Gold

Challenge Award - Energy

Intermediate

Sponsor: Suncor Energy Inc.
\$750 cash & certificate

Meagan Fabel [15] – Windsor ON
Catch the Windy Wave to Save! Phase Two

Challenge Award - Energy

Junior

Sponsor: Suncor Energy Inc.
\$500 cash & certificate

Naima Raza [14] – Lambton County ON
The NEWspaper Fuel: Enhancing Cellulosic Ethanol Production

Challenge Award - Discovery

Senior

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

Brittney Allen [17] – Fundy NB
Chill Out! Abiotic Stress Tolerance in Plants

Challenge Award - Discovery

Intermediate

Sponsor: Youth Science Canada
\$750 cash & certificate

Mikaela Preston [14] – York ON
Population Dynamics in Algal Bioreactors

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Challenge Award - Discovery

Junior

Sponsor: Youth Science Canada
\$500 cash & certificate

Jeffrey Plett [13] – Chinook Country AB
Maple vs Ash

University of Ottawa Undergraduate Research Scholarship Award

Sponsor: University of Ottawa, Faculty of Science

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

David Pellerin [18] – Estrie QC
Préférence O-LED

Statistical Society of Canada Award

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

Demetrios Koziris [17], **Iakovos Vathis** [16] – Montreal QC
Ischemic Preconditioning: Effect on Muscular Endurance

Statistical Society of Canada and Biostatistics Section Award

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

Jessie MacAlpine [15] – London District ON
*Suppressing weed germination using allelopathy of *Alliaria petiolata**

S.M. Blair Family Foundation Award

Senior

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

Sandro Young [17] – Ottawa ON
Avatouch 2.0: "Upgrading" Real Life with a Rich Augmented Reality Experience

S.M. Blair Family Foundation Award

Intermediate

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

Alex Rhee [14] – Peel ON
The Airless High Efficiency Dryer

S.M. Blair Family Foundation Award

Junior

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

Maya Burhanpurkar [12] – Simcoe County ON
Synthesizing a Novel, Bio-Selective "Smart Antibiotic"

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Renewable Energy Award

Senior

Sponsor: Ontario Power Generation
\$1000 cash & certificate

Stephanie Chan [17] – Waterloo-Wellington ON
The Race to Remediate Crude Oil Spills

Renewable Energy Award

Intermediate

Sponsor: Ontario Power Generation
\$750 cash & certificate

Mikaela Preston [14] – York ON
Population Dynamics in Algal Bioreactors

Renewable Energy Award

Junior

Sponsor: Ontario Power Generation
\$500 cash & certificate

Naima Raza [14] – Lambton County ON
The NEWspaper Fuel: Enhancing Cellulosic Ethanol Production

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).

Sandro Young [17] – Ottawa ON
Avatouch 2.0: "Upgrading" Real Life with a Rich Augmented Reality Experience

Sathya Baskaran [17] – Ottawa ON
Recovery By Regeneration

David Pellerin [18] – Estrie QC
Préférence O-LED

Christopher Chopcian [17] – Lambton County ON
Computer Controlled Heart Assist Pump

Charlotte Donaldson [17], **Megan Smith** [17] – Chignecto West NS
Extreme Immobilization

Guillaume Sylvain [16] – Québec et Chaudière-Appalaches QC
La CNF-1, ça respire!

Shayla Larson [16], **Adam Noble** [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

Moaz Rashad [16] – Regina SK
*Hydrogen Bioreactor: Optimizing Hydrogen Production in *C. reinhardtii* Algae*

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).

David Pellerin [18] – Estrie QC
Préférence O-LED

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Christopher Chopcian [17] – Lambton County ON
Computer Controlled Heart Assist Pump

Charlotte Donaldson [17], **Megan Smith** [17] – Chignecto West NS
Extreme Immobilization

Shayla Larson [16], **Adam Noble** [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

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 2011 (ISSYP 2011) from July 21 – August 6, an intensive two week enrichment program that will introduce students to the fascinating picture of our universe as seen through the eyes of contemporary physicists: from the bizarre quantum world of atoms and subatomic particles to black holes, warped spacetime and the expanding universe. Students will also interact with professional physicists at Perimeter Institute in small group mentoring sessions, participate in field trips to 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 \$3500.

Anna O'Grady [16] – Eastern Newfoundland NL
The Hertzprung-Russell Diagram

Canadian Stockholm Junior Water Prize

Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and ITT Water & One all expense paid trip to Stockholm, Sweden, August 21–27, 2011, 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.

Rebecca Sandrelli [16] – Renfrew County ON
Filter Braced for the Pharmaceutically Laced

Arnaud Desrosiers [17] – Montréal CLS QC
Dégradation du méthylmercure

Shayla Larson [16], **Adam Noble** [17] – Peterborough ON
The Hazards of Nanosilver Uncovered

The Canadian Society for the Weizmann Institute of Science Scholarships

Joseph W. and Joel Anthony Leon Kerbel Scholarship

Sponsor: The Canadian Society for the Weizmann Institute of Science (Weizmann Science Canada)
Each scholarship provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare (Toronto – Israel – Toronto). The dates of the Weizmann summer science program are July 4–29, 2011. Total scholarship value \$9,400.

A-J Hutchings [19] – Ottawa ON
The Role of Gastrin-Releasing Peptide in Neural Excitation of Rat Paraventricula

The Canadian Society for the Weizmann Institute of Science Scholarships

The Maurice Pollack Foundation Scholarship

Sponsor: The Canadian Society for the Weizmann Institute of Science (Weizmann Science Canada)
Each scholarship provides for participation in the summer science program at the Weizmann Institute in Israel, including registration fee and return airfare (Toronto – Israel – Toronto). The dates of the Weizmann summer science program are July 4–29, 2011. Total scholarship value \$9,400.

Kathleen Orrell [18] – Cape Breton NS
Spotting the Difference

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



International Year of Chemistry (MILSET ESI) Award

Sponsor: Canadian Commission for UNESCO

The International Year of Chemistry – 2011 will celebrate the achievements of chemistry and its contributions to the well-being of mankind. Increase the public appreciation and understanding of chemistry in meeting the world needs, encourage the interest of young people in chemistry and generate enthusiasm for the creative future of chemistry.

The winner will participate in Expo-Sciences Internationale (ESI), a non-competitive international science fair organized by the International Movement for Leisure Activities in Science and Technology (MILSET - French acronym), to be held July 18-24, 2011 in Bratislava, Slovakia, and will receive a certificate. Total value \$5000.

Ellen Song [16] – Annapolis Valley NS

Apple Aroma: Enhancement of Apple Volatile Production Using Precursor Treatments

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

Sponsor: Canadian Commission for UNESCO

The winner will participate in Expo-Sciences Internationale (ESI), a non-competitive international science fair organized by the International Movement for Leisure Activities in Science and Technology (MILSET - French acronym), to be held July 18-24, 2011 in Bratislava, Slovakia, and will receive a certificate. Total value \$5000.

Rachel Brown [17], Katie Van der Sloot [16] – Kiwanis Southeast Alberta AB

Triclosan: Double Danger

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 2012. 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.

Jessie MacAlpine [15] – London District ON

*Suppressing weed germination using allelopathy of *Alliaria petiolata**

Moriah Harvey [16] – Northwestern Ontario ON

Biofouling Of Boat Hulls

Joe Najem [16] – Windsor ON

The Leaking Problem

The Actuarial Foundation of Canada Award

Senior

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

Andrew Martin [19], Eric Stublely [18] – Waterloo-Wellington ON

Modelling Population Growth

Nicholas Schiefer [17] – York ON

Apodora: Markov Chain-Inspired Microsearch

The Actuarial Foundation of Canada Award

Intermediate

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

Claire Longcroft [15] – Greater Vancouver BC

The Skid Lid Helmet Helper

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Caitlin Doherty [14], **Vicki Kleu** [14] – Vancouver Island BC
Pumping Plaque; Reducing Arterial Turbulent Flow Through External Stents

The Actuarial Foundation of Canada Award

Junior

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

Emily O'Reilly [13] – Central Interior British Columbia BC
Chamomile vs Bacteria

Sébastien Melanson [14], **Vincent Rochette** [13] – Districts francophones du Nouveau-Brunswick (DFNB) NB
Acidification ou calcification?

Discovery Channel Math Award

Sponsor: Discovery Channel
\$750 cash & certificate

Farouk Selouani [15] – Districts francophones du Nouveau-Brunswick (DFNB) NB
DiagnAssist: Outil d'aide au diagnostic du cancer du sein

CSSE Engineering Innovation Award

Senior

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

Malak Elbatarny [15] – Frontenac, Lennox & Addington ON
Making Connections: introducing the artificial nerve

CSSE Engineering Innovation Award

Junior

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

Raymond R M Wang [13], **Ty Zhang** [12] – Greater Vancouver BC
Weather Harvester

Carlson Wagonlit Award

Sponsor: Carlson Wagonlit Travel
\$500 cash & certificate

Gayashan Tennakoon [13] – Ottawa ON
Oil Sands: Friend or Foe?

CAP Physics Prize

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

Anna O'Grady [16] – Eastern Newfoundland NL
The Hertzprung-Russell Diagram

Cangene Corporation Award

Senior

Sponsor: Cangene Corporation
\$1,000 cash & certificate

Marshall Zhang [16] – York ON
Mechanisms of Action of Small Molecules in the Rescue of $\Delta F508$ -CFTR

Award Recipients

Canada-Wide Science Fair 2011

Toronto, Ontario



Cangene Corporation Award

Intermediate

Sponsor: Cangene Corporation
\$750 cash & certificate

Hannah Boone [14], Megan Howse [15] – Eastern Newfoundland NL
Tea Time! Relax Your Way to Better Health

Cangene Corporation Award

Junior

Sponsor: Cangene Corporation
\$500 cash & certificate

Skye Preston [13] – York ON
Bioremediation with Basidiomycetes

Canadian Society for Medical Laboratory Science Award

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

Hannah Boone [14], Megan Howse [15] – Eastern Newfoundland NL
Tea Time! Relax Your Way to Better Health

Canadian Acoustical Association Award

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

Emily May Been [17], Joshua Scott Thon [16] – Calgary Youth AB
The Fractal Geometry of Blood Clots

Award for Excellence in Astronomy

Junior

Sponsor: Royal Astronomical Society of Canada
\$500 cash & certificate plus a one year membership to RASC

Stacy Glasberg [13] – Ottawa ON
The Dark Side of Light