

**NWO
REGIONAL
SCIENCE
FAIR**



**A PLACE
FOR
BRIGHT
IDEAS!**

Thank you for your enthusiasm and continued support for the Northwestern Ontario Regional Science Fair!

The Northwestern Ontario Regional Science Fair Committee would like to express our gratitude to all of the people and groups who have made this event a wonderful experience for the participants this year. A special thank-you to:

- Our generous sponsors, including Lakehead University academic departments, facilities and President, Faculty and Staff; Lakehead Public School and Thunder Bay District Catholic School Board teachers and principals; Confederation College; Nuclear Waste Management Organization; Goldcorp Inc – Musselwhite Mine; Ontario Power Generation; TransCanada Corporation; and the many local organizations, clubs, and companies who graciously contributed to the 2015 Science Fair!
- Local media and community representatives – thank you for taking the time to appreciate all of the hard work of the young scientists.
- Science Fair judges, volunteers, and Committee – couldn't have done it without you.

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CANADA-WIDE SCIENCE FAIR

medal & one all-expense paid trip to the CWSF in Fredericton, New Brunswick in May 2015 (sponsored by Goldcorp-Musslewhite, Nuclear Waste Management Organization, TransCanada Corporation, Ontario Power Generation, Lakehead University Faculty of Sciences and Environmental Studies, Thunder Bay Hydro, TBT Engineering, Thunder Bay Regional Research Institute, Port Arthur Rotary Club, Tom Jones Corporation, Professional Engineers of Ontario (Northern Region), Natural Sciences and Engineering Research Council of Canada, Lakehead University Department of Physics, CUPE Local 3905, Thunder Bay Field Naturalists, and Confederation College)

From May 10 to 17, 2015, an exceptional group of five young scientists are travelling to Fredericton, New Brunswick for the Canada-Wide Science Fair. The representatives from Northwestern Ontario are:

(3116) Identification of a natural adipogenesis inhibiting compound in dandelion
Student: Kelly Yang, Sir Winston Churchill C.V.I.

(2204) The 'God' Particle: Dark Matter Brought to Light?
Student: Micah Windsor-Freeman, Claude E. Garton

(2108) The Baby Life Saver (BLS)
Student: Holly Salem, Claude E. Garton

(3306) A Novel Solution for Capturing and Utilizing Carbon Dioxide Using Vegetable Oil Medium
Student: Anirudh Shahi, Sir Winston Churchill C.V.I.

(3308) Lignin Adsorption: An Innovative Approach to Water Purification
Student: Jay Chen, Sir Winston Churchill C.V.I.

We wish them the best of luck in **Fredericton, New Brunswick!**

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We wish HUGE congratulations to ALL of the participants of the 52nd Annual Northwestern Ontario Regional Science Fair. Check out the list of award winners from the 2015 Science Fair:

2015 Grand Awards

Beginners' Awards

school trophy & keeper trophy (sponsored by LU Department of Chemistry)

(1110) HEY! Where did you come from?

Student: Keiran Cochrane, Woodcrest PS

(1108) I SCREAM FOR BRAIN FREEZE

Student: Simran Talpade, Woodcrest PS

(1401) The Strongest Bridge Design

Student: Ella Pilot, Woodcrest PS

Best Intermediate/Senior

trophy & cash (sponsored by LU Faculty of Science & Environmental Studies)

(3116) Identification of a natural adipogenesis inhibiting compound in dandelion

Student: Kelly Yang, Sir Winston Churchill C.V.I.

Best in Fair

trophy & cash (sponsored by TransCanada Corporation)

(3116) Identification of a natural adipogenesis inhibiting compound in dandelion

Student: Kelly Yang, Sir Winston Churchill C.V.I.

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2015 Divisional Awards

Junior Award of Excellence

cash & trophy (sponsored by LU Faculty of Education)

(2108) The Baby Life Saver (BLS)

Student: Holly Salem, Claude E. Garton

Junior Award of Excellence

cash & trophy (sponsored by LU Faculty of Education)

(2204) The 'God' Particle: Dark Matter Brought to Light?

Student: Micah Windsor-Freeman, Claude E. Garton

Intermediate/Senior Award of Excellence

cash & trophy (sponsored by LU Department of Geology)

(3308) Lignin Adsorption: An Innovative Approach to Water Purification

Student: Jay Chen, Sir Winston Churchill C.V.I.

Intermediate/Senior Award of Excellence

cash & trophy (sponsored by LU Department of Biology)

(3301) Patination of Raw Lithic Material for Analysis of Prehistoric Artifacts

Student: Emily Cross, Hammarskjold High School

2015 Special Awards

Thunder Bay Agricultural Awareness Award

cash (sponsored by NWORSF)

(3108) Is The Meat We Eat Over The Counter Or By Prescription?

Student: Sarah Yeo, St. Ignatius S.S.

Horticultural Society Award

cash award

(3116) Identification of a natural adipogenesis inhibiting compound in dandelion

Student: Kelly Yang, Sir Winston Churchill C.V.I.

(3305) The Effect of pH Level on Grass Growth

Student: Ashley Little, Sir Winston Churchill C.V.I.

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2015 Special Awards (continued)

Lakehead Regional Conservation Authority award cash award

(3303) Treating An Oil Leak

Student: Abigail MacGillivray, St. Ignatius S.S.

(3310) Energy we pour down the drain

Student: Lucas Evans, St. Ignatius S.S.

(3309) A O H₂O, analysis of water in my community

Student: Mariah Nodin, Superior C.V.I

Forestry & Forest Environment Award cash (sponsored by A-1 Sewage Services (1989) Ltd)

(3308) Lignin Adsorption: An Innovative Approach to Water Purification

Student: Jay Chen, Sir Winston Churchill C.V.I.

Environmental Responsibility Award cash (sponsored by TBT Engineering)

(2302) Agricultural Contaminates in Rivers

Student: Jordan Geils, Woodcrest P.S.

Ecological Consciousness Award cash and a year-long membership in TBFN (sponsored by the Thunder Bay Field Naturalists)

(2304) Rock Solid

Student: Jane Neil, Crestview P.S.

(3309) A O H₂O, analysis of water in my community

Student: Mariah Nodin, Superior C.V.I

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2015 Special Awards (continued)

Rotary Preserve Planet Earth Award

cash & plaque (sponsored by Lakehead Rotary Club)

(3306) A Novel Solution for Capturing and Utilizing Carbon Dioxide Using Vegetable Oil Medium

Student: Anirudh Shahi, Sir Winston Churchill C.V.I.

Peace & Sustainable Development Award

cash & plaque (sponsored by Lakehead Rotary Club)

(2304) Rock Solid

Student: Jane Neil, Crestview P.S.

Lifelabs Award

cash award

(2108) The Baby Life Saver (BLS)

Student: Holly Salem, Claude E. Garton

Alzheimer Award

cash (sponsored by LU Department of Psychology)

(2109) Sight or Sound

Student: Emma Visser-DiCarlo, Valley Central P.S.

LU Psychology Department Award

cash award

(3101) A Study of Gender Disparity in Classroom Participation

Student: Elizabeth Goddard, St. Ignatius S.S.

(3114) The effect of Vitamin B12 on the short term memory of an adolescent

Students: Gelila Hailu & Anjelika Pathak, Sir Winston Churchill C.V.I.

Northwestern Ontario Prospectors' Award

cash award

(3301) Patination of Raw Lithic Material for Analysis of Prehistoric Artifacts

Student: Emily Cross, Hammarskjold High School

(3308) Lignin Adsorption: An Innovative Approach to Water Purification

Student: Jay Chen, Sir Winston Churchill C.V.I.

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2015 Special Awards (continued)

LU Engineering Award

cash award

(3402) Laser Polarization

Student: Joshua Kim, Sir Winston Churchill C.V.I.

PEO Award

cash & trophy

(4201) Winter Window Insulator

Students: Amanda Bakke & Kittima Ratana-Rueangsri, St. Ignatius S.S.

Communication Award

cash (sponsored by Ontario English Catholic Teachers' Association - Elementary)

(2204) The 'God' Particle: Dark Matter Brought to Light?

Student: Micah Windsor-Freeman, Claude E. Garton

Transportation Award

cash (sponsored by Hatch Mott MacDonald)

(3303) Treating An Oil Leak

Student: Abigail MacGillivray, St. Ignatius S.S.

Union Gas Award

cash award

(4201) Winter Window Insulator

Students: Amanda Bakke & Kittima Ratana-Rueangsri, St. Ignatius S.S.

Thunder Bay Hydro Award

cash award

(3306) A Novel Solution for Capturing and Utilizing Carbon Dioxide Using Vegetable Oil Medium

Student: Anirudh Shahi, Sir Winston Churchill C.V.I.

OPG Renewable Energy Award

cash & trophy

(3310) Energy we pour down the drain

Student: Lucas Evans, St. Ignatius S.S.

(3401) Idle No More, Idle Vs Restart

Student: Sean Vidotto, St. Ignatius S.S.

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2015 Special Awards (continued)

Lakehead University Entrance Scholarship Award

\$1000 entrance scholarship in an undergraduate program at LU (sponsored by LU Office of Student Awards & Financial Aid)

(4101) The Sensory Abilities of Betta Splendens

Student: Robin Little, Sir Winston Churchill C.V.I.

University of Ottawa Entrance Scholarship Award

\$1000 entrance scholarship to the Faculties of Engineering, Science and Health Sciences at the University of Ottawa

(4201) Winter Window Insulator

Students: Amanda Bakke & Kittima Ratana-Rueangsri, St. Ignatius S.S.

Other Awards

Peer Judging Awards -- Beginner

scientific gizmo (sponsored by Purple Camel)

(1107) Do men and women smell scents differently?

Student: Maryam Anvar, Woodcrest P.S.

Peer Judging Award -- Intermediate/Senior

iTunes gift card (sponsored by NWORSF)

(3401) Idle No More, Idle Vs Restart

Students: Sean Vidotto, St. Ignatius S.S.

Poster Award

Student: Emily Cullinan, 4^{ème} année, École Catholique Franco-Supérieur

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Other Awards (continued)

LU Book Awards -- Junior

\$50 book certificate to LU Bookstore (sponsored by LU Office of Student Awards & Financial Aid)

(2204) The 'God' Particle: Dark Matter Brought to Light?

Student: Micah Windsor-Freeman, Claude E. Garton

LU Book Awards -- Intermediate/Senior

\$50 book certificate to LU Bookstore (sponsored by LU Office of Student Awards & Financial Aid)

(3301) Patination of Raw Lithic Material for Analysis of Prehistoric Artifacts

Student: Emily Cross, Hammarskjold High School

(3101) A Study of Gender Disparity in Classroom Participation

Student: Elizabeth Goddard, St. Ignatius S.S.

(4201) Winter Window Insulator

Students: Amanda Bakke & Kittima Ratana-Rueangsri, St. Ignatius S.S.

(3104) Train the Brain for Gain

Student: Hannah Melchiorre, St. Ignatius S.S.

(3116) Identification of a natural adipogenesis inhibiting compound in dandelion

Student: Kelly Yang, Winston Churchill C.V.I.

(4101) The Sensory Abilities of Betta Splendens

Student: Robin Little, Sir Winston Churchill C.V.I.

(3308) Lignin Adsorption: An Innovative Approach to Water Purification

Student: Jay Chen, Sir Winston Churchill C.V.I.

(3306) A Novel Solution for Capturing and Utilizing Carbon Dioxide Using Vegetable Oil Medium

Student: Anirudh Shahi, Sir Winston Churchill C.V.I.

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School Participation Awards

OPG High School Participation Award

cash & trophy

High School: St. Ignatius S.S.

Senior Elementary Participation Award

cash (sponsored by Ontario English Catholic Teachers' Association)

Senior Elementary School: Pope John Paul II Sr Elementary

Elementary School Participation Award

cash (sponsored by CUPE Local 3905)

Elementary School: Valley Central P.S.