

The Vermont State Science & Math Fair 2015 Program



Awards Ceremony Speaker and South Burlington High School Junior, Nevil Desai as the 2014 Stockholm Junior Water Prize Nominee for Vermont.

Norwich University, Northfield Vermont

March 28, 2015

The VSSMF is an all-volunteer organization. Over 80% of the \$34,000 raised annually goes to students and their teachers. The remainder goes to operating costs. The money raised comes from 49 sponsoring partners in Vermont who provide gifts or grants from \$50-\$1000. This year, these partners provided nearly \$15,500 for student and teacher trips to competitions beyond Vermont and expenses. Money also comes from 29 award sponsors in Vermont that provide over \$9000 in prizes. In addition to the above money raised by VSSMF, five Vermont colleges provide Next Generation Scholarships totaling a minimum of \$300,000. Finally, our affiliation with competitions beyond Vermont provides over \$8,000 to Vermont students and their teachers. We also have judges from over 50 STEM partners in academia, industry, and professional organizations. In short, we have over 100 Vermont-based partners that share our vision joining us to make the VSSMF a huge success.

The following lists the above Vermont stakeholders who as partners and sponsors, consider investing in YOU NOW to be a wise move so they can employ you in the future when you finish your education!

VERMONT SPONSORING PARTNERS

Applied Research Associates Randolph	Environmental Compliance Services Brattleboro	Johnson State College Johnson
ATC Associates Williston	Fairbanks Scales St Johnsbury	LORD Corporation-Microstrain Williston
Bourne's Energy Morrisville	FairPoint Communications South Burlington	Lyndon State College Lyndonville
Capital Connections Montpelier	First Wind Sheffield	Med-Associates St. Albans
Castleton State College Castleton	General Dynamics Williston	Mylan Technologies St Albans
Catamount Research & Development St. Albans	Goodrich Corporation: United Technologies Corporation Aerospace Systems Vergennes	New England Research White River Junction
Chroma Technology Corp Rockingham	Green Mountain Antibodies Burlington	Northfield Savings Bank Northfield
Concepts NREC White River Junction	Haematologic Technologies Essex Junction	Norwich University Northfield
Dealer.Com Burlington	Hallam, ICS South Burlington	Norwich University Applied Research Institute Northfield
Dufresne Group Windsor	Hazlett Strip Casting Colchester	Omya, Inc. Proctor
EF Wall Barre	Husky Injection Molding Milton	Phoenix Chemistry Services North Ferrisburg
Engleberth Construction Colchester	IVEK Corporation North Springfield	Physician's Computer Company Winooski
		Resource Systems Group White River Junction

Rock of Ages Graniteville	Vermont EPSCoR Colchester	Vermont Technical College Randolph Center
Saint Michael's College Colchester	Vermont Gas Systems, Inc. Burlington	Vermont Technology Council Burlington
Stantec South Burlington	Vermont Principals' Association Montpelier	Washington Electric Co-op East Montpelier
University of Vermont Burlington	Vermont Systems, Inc Essex Junction	Wright & Morrissey South Burlington

VERMONT AWARD SPONSORS (Professional societies have Vermont members)

Vermont Principals' Association Montpelier	Green Mountain Water Environment Association & Stockholm Junior Water Prize Montpelier	Sovernet Bellows Falls
AllEarth Renewables Williston	Haematologic Technologies, Inc. Essex Junction	Superior Technical Ceramics St. Albans
American Chemical Society, Green Mountain Local Section Burlington	Logic Supply South Burlington	Tau Beta Pi, Norwich University Chapter Northfield
Biophysical Society Rockville, MD	Northeast Branch, American Society for Microbiology Northfield	TCORP Colchester
Cabot Creamery Cooperative Cabot	Northeast Section, Institute of Food Technologists Natick, MA	Vermont Academy of Arts and Sciences Northfield
Desai Management Consulting Williston	Polhemus Colchester	Vermont Chapter, Sigma Xi Northfield
Dufresne Group, Consulting Engineers Windsor	Renewable NRG Systems Hinesburg	Vermont Energy Education Program Burlington
Eagle Hill Institute Steuben, ME	Resource Systems Group White River Junction	Vermont Organization of Nurse Leaders Montpelier
Efficiency Vermont Burlington	Society of Women Engineers, North Country Section South Burlington	Vermont State Science & Mathematics Fair (four separate monetary awards and travel awards to five national sites.) Northfield
Ethical Science and Education Coalition Boston, MA		
First Light Technologies Poultney		

NEXT GENERATION SCHOLARSHIPS TO VERMONT COLLEGES AND UNIVERSITIES

Castleton College Castleton	Norwich University Northfield
Green Mountain College Poultney	Saint Michael's College Colchester
	Vermont Technical College Randolph Center

VERMONT PARTNERS PROVIDING JUDGES

Vermont Post-Secondary STEM School Partners

Middlebury College Middlebury	University of Vermont Medical School Burlington	Saint Michael's College Colchester
Norwich University Northfield	Burlington Vermont Technical College East Randolph	Dartmouth College Hanover, New Hampshire
University of Vermont, College of Engineering and Mathematical Sciences		

Vermont STEM Professional Partners

American Chemical Society, Green Mountain Local Section	Society of Women Engineers, North Country Section	Vermont Organization of Nurse Leaders
Vermont Entergy Women in Nuclear	Tau Beta Pi, Engineering Honor Society, Norwich University Chapter	Vermont Academy of Science and Engineering
Green Mountain Water Environment Association	Vermont Academy of Arts and Sciences Vermont Chapter of Sigma Xi	Vermont Astronomical Society
Northeast Branch, American Society for Microbiology		Vermont Genetics Network Outreach

Vermont STEM State & Federal Government Partners

Fish & Wildlife/Agency of Natural Resources Waterbury	US Navy Burlington	US Air Force Northfield
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Vermont STEM Industry Partners

AllEarth Renewables Williston	Island Innovations Grand Isle	Precision Bioassay Burlington
Blue Cross, Blue Shield of Vermont Berlin	LORD Corporation-Microstrain Williston	Resource Systems Group White River Junction
Carbon Catalyst Burlington	Nathaniel Group Vergennes	UTC-AS, Goodrich, Vergennes
Central Vermont Medical Center Berlin	Northfield Dental Group Northfield	VELCO Rutland
D.E.W. Construction Corporation	Northfield Elite Dental Northfield	Vermont Energy Education Program, Burlington
Hughlett Technical Services Waterbury	Phoenix Chemical Services North Ferrisburg	Weston and Sampson Engineers, Inc. Waterbury
IBM (International Business Machines) Essex Junction	Polhemus Colchester	

Vermont Teachers' Day in Industry and Other Partners

IBM (International Business Machines)
Essex

MMIC (Mobile Medical International
Corporation)
St Johnsbury

Vermont Astronomical Society
Orchard Hill Observatory,
Grand Isle

Omega Optical
Brattleboro, Vermont

Mentors

Seventh Generation
Burlington

Leads to other Partners

Bennington County Industrial
Corporation
Bennington

Cabot Creamery Coop
Cabot

Eagle Hill Foundation
Steuben, Maine

Awards Program, March 28th, 2015

VSSMF Awards

VSSMF Silver Medalists
VSSMF Gold Medalists
Vermont Principals' Association
VSSMF Agricultural Award
VSSMF Middle School Computer Science
VSSMF Ted Marsden Memorial Award

Next Generation Scholarships

St Michael's College
Vermont Technical College
Announcement about Green Mountain College
& Norwich University's NG Scholarship winners
Norwich University- top five juniors
Castleton College

VSSMF Local Awards

AllEarth Renewables
American Chemical Society, Green Mountain
Local Section
Biophysical Society
Cabot Creamery Cooperative
Desai Management Consulting
Dufresne Group
Eagle Hill Institute
Efficiency Vermont
Ethical Science and Education Coalition
First Light Technologies
Green Mountain Water Environment
Association
& Stockholm Jr Water Prize
Haematologic Technologies
Logic Supply
Northeast Branch, American Society of
Microbiology
Northeast Section Institute of Food
Technologists
Polhemus
Renewable NRG Systems
Resource Systems Group
Society of Women Engineers
Sovernet
Superior Technical Ceramics Corporation
Tau Beta Pi

VSSMF Local Awards, Contd.

TCorp
Vermont Academy of Arts and Sciences
Vermont Chapter, Sigma Xi
Vermont Energy Education Program
Vermont Organization of Nurse Leaders

National Awards

Grades 5-8

Broadcom Masters

Grades 9-12

1-SWEEEP
Genius Olympiad

ISEF Affiliation Awards

Grades 5-8

U.S. Marines

Grades 9-12

National & Professional Society Awards

American Meteorological Society
American Psychological Association
American Society of Materials
Association of Women Geoscientists
ASU Walton Sustainability Solutions
Initiative
Intel Excellence in Computer Science
Intel Science Talent Search
Mu Alpha Theta
Ricoh Sustainable Development
Society for In Vitro Biology
United States Metric Association
Yale Science and Engineering Association

U.S. Government Non-Military Awards

National Oceanographic and Atmospheric
Association
U.S. Public Health Service

U.S. Military Awards

U.S. Navy
U.S. Air Force

ISEF Finalists



Floor Plan
Rooms in the
Engineering-Math-Science Complex
Used in the VSSMF
First Floor



Floor Plan
Rooms in the
Engineering-Math-Science Complex
Used in the VSSMF
Second Floor

Avalon Triumvirate Academy

Amanda Gifford

Gordon Clark	8	Fibers of the Future	P04	Room 151
Keagan McNamara	8	Growing Plants In A Field	G10	Room 160
Ari Randall	7	Ground Breaking Research	P24	Room 151
Noah Spoth	8	Carbonated Conundrum	B29	Room 243

Big Picture South Burlington

Jim Shields

Shawn Allard	9	One-minute per page: Comparing Screenplays to Final Film	M01	Room 125
Benjamin Becker	10	How does food color impact taste?	GP33	Room 128
Isaac Bradford-Feldman	10	Cereal Potatoes, A Serious need for potatoes as a future energy source.	C03	Room 235
Emily Greenstein	10	Conformity in Teenagers	GP40	Room 128
Colton Hulce	10	How does food color impact taste?	GP33	Room 128
Toni Kail	10	Conformity in Teenagers	GP40	Room 128
Schuyler Lyons	10	Testing the Legitimacy of Binaural Beats	B18	Room 243
Ryan Provost	9	Effects of Different Light on Cyanotype Printing	C16	Room 235
Eli Wakeling	9	Mass and Gravity	P30	Room 151
Max Wolinsky	9	How long does human eyes adjust to the dark	S26	Room 128

Burlington Technical Center

Betsy McLane

Rebecca Barwin	12	The Correlation Between Music and Emotion in Adolescents in High School Band	S01	Room 145
Jeff Carter	12	Age vs Tickling	B05	Room 243
Mary-Alyssa Chambers	12	The Effect of Sources of Sexual Education on Sexual Literacy	S08	Room 145
Sabrina Cunningham	12	Correlation Between GPA and Sports	S09	Room 145
Jake Edwards-Stoll	12	Are Pre-Workout Supplements Worth The Money?	B09	Room 243

Burlington Technical Center (cont)

Gabe Mason	12	The Effect of Self-Myofascial Release on Muscular Activation and Recovery Time	B49	Room 267
Amanda Nattress	12	The Effects of Canine Assisted Therapy (CAT) On Teen Stress	S18	Room 145
Cal Rawlings	12	The Effects of Occlusion Training on Enhanced vs Non-Enhanced Athletes	B51	Room 267

Christ The King School**Vidula Srivastava**

William Balkan	6	Close Your Eyes for the Cure	GP10	Room 267
Eric Benner	7	Clean and Bright, Fresh and White	GP11	Room 267
Emily Benz		Color Confusion	GP36	Room 128
Isabelle DiPalermo	6	Close Your Eyes for the Cure	GP10	Room 267
Deanna Dowhan	6	What Makes Ice Melt Fastest	GP15	Room 235
Grace Hasselbach	8	5 Second Rule: Fact or Fiction	GP02	Room 267
Olivia Holmes	7	Cleaning Up with Acinetobacter venetianus	GP07	Room 267
Lauren Hunt	8	5 Second Rule: Fact or Fiction	GP02	Room 267
Niko Lekkas	6	The Unseen Majority	GP04	Room 267
Elliot Limanek	8	Capture the Rays	GP29	Room 165
Jamison Marcoux	6	What Makes Ice Melt Fastest	GP15	Room 235
Kevin Moyinhan	7	Clean and Bright, Fresh and White	GP11	Room 267
Freddy Pohlen	7	Toothbrush Testing	GP06	Room 267
Olivia Rooney	7	Cleaning Up with Acinetobacter venetianus	GP07	Room 267
Andrew Snell	8	Capture the Rays	GP29	Room 165
Luke Stevens	7	Toothbrush Testing	GP06	Room 267
Elijah Vincent	6	The Unseen Majority	GP04	Room 267
Sadie Vincent		Color Confusion	GP36	Room 128

Frederick H. Tuttle Middle School

Amelia Lutz

Chloe Alexander	7	How Colors Affect People's Thoughts, and Moods	GP32	Room 128
Madison Allen	7	Does Eating a Healthy Breakfast Result in Good Grades	B45	Room 267
Libby Delaney	7	How Colors Affect People's Thoughts, and Moods	GP32	Room 128
Rachel Hebert	7	The effects of different baking pans on the size and color of cookies	C06	Room 235
Taylor Metcalf	7	Aerodynamics to a shape of an object	GP31	Room 165
Nisha Shah	7	Common Drinks and Their Effects on Teeth	B28	Room 243
Samy Slamani	7	Aerodynamics to a shape of an object	GP31	Room 165

Christopher Towle

Hamza Azhar	7	How Caffeine Affects the Heart Rate	GP09	Room 267
Spencer Baker	7	Which Brand of Duct Tape is the Strongest?	GP24	Room 165
Grace Bendoski	6	Memory of a Student: Auditory vs Visual	GP35	Room 128
Jasmine Bombard	7	Which type of Cheerios stays crunchy in milk the longest?	C02	Room 235
Victoria Chang	7	Crushing Eggs	P03	Room 151
Lydia Charbonneau	7	Does Smell Affect Taste?	B06	Room 243
Danielle Dombi	7	Audio vs. Visual Information	GP37	Room 128
Peter Edwards	7	Does Temperature Affect Battery Life?	P07	Room 151
Peter Miller	7	Which Brand of Duct Tape is the Strongest?	GP24	Room 165
W. Cole Patno	7	Generic versus Brand Name	S19	Room 145
Jagr Rinehart	7	How Caffeine Affects the Heart Rate	GP09	Room 267
Matt Ryan	7	Generic versus Brand Name	S19	Room 145
Anisha Saini	7	Audio vs. Visual Information	GP37	Room 128
Kendall Sheean	6	Memory of a Student: Auditory vs Visual	GP35	Room 128
Ragulan Sivakumar	7	The Evaluation of Hydration	S24	Room 128
Sebastian Thomas	7	Which Genre of Video Game Affects Heart Rate	B56	Room 267
Kelly Xu	7	What Materials Best Insulates A Cup of Coffee?	C18	Room 235

Main Street Middle School

Amy Kimball

Isabelle Boutin	8	Hydroponics and Salinity	GP01	Room 267
Zachary Clark	7	WiFi Efficiency Mapping	GP22	Room 125
Colin Desch	8	Power It Down	GP26	Room 165
Isaac Maddox-White	8	Power It Down	GP26	Room 165
Patrick Maguire	7	WiFi Efficiency Mapping	GP22	Room 125
Meredith Stetter	8	Hydroponics and Salinity	GP01	Room 267

Eli Rosenberg

Eleanor Braun	8	How do Facial Expressions Affect Levels of Happiness?	S05	Room 145
Grace Carlomagno	8	Does Being a Musician Affect Spatial/Visual Reasoning?	S07	Room 145
Luke Hawley	8	Does the Length of a Lacrosse Shaft Affect the Distance a Lacrosse Ball Can be Thrown?	P12	Room 151
Olivia Hennessey	7	Vermicomposting-Which Food Group Composts with the Best Quality?	GP03	Room 267
Jenna Krussman	7	Which Line Following Algorithm is the Most Efficient?	M04	Room 125
Juna Nagle	7	Vermicomposting-Which Food Group Composts with the Best Quality?	GP03	Room 267
Chloe Schiff	8	Gender Stereotypes: Does Gender Affect How People Answer Girl Stereotype Questions?	S23	Room 128
Willem Slade	8	What Characteristics of a Board Make it Easiest to break?	P28	Room 151

Mater Christi School

Mark Pendergrass

Claire Ammirato	7	Play Ball!...then go wash your hands?	B37	Room 243
Alexander Beauregard	8	Humpty Dumpty's Fatal Flaw	B03	Room 243
Ethan Behr	7	At the Speed of Age	S03	Room 145
Tre' Diemer	8	The Sleep Cycle	S10	Room 145
Elisabeth Harrington	8	Organic vs. Non-Organic Food Preferences of a Rat	B12	Room 243
Jackson Harris	6	Parachutes Unraveled	P11	Room 151

Mater Christi School (cont)

Juliet Hassenberg	6	Cocoa: Miracle Plant Grower?	B13	Room 243
George Huffman	6	Lowering the Viscosity of Oil	G05	Room 160
Lily Oliver	7	Sugar and Carbs vs. Glucose	B23	Room 243
Curtis Plante	8	Do You Agree With Only Hands-Free?	S20	Room 145

Milton Middle School**Greer Krembs**

Nicole Barone	8	Can Compost Attract Animals?	B02	Room 243
Alana Bigos	8	Perception of Art	S04	Room 145
Johanna Eddy	8	Freeze, Thaw, Repeat	B08	Room 243
William Gambero	6	Wind Turbines	P09	Room 151
Madison North	8	Can You See What I See?	B22	Room 243

Janet Smith

Morgan Ambrose	7	Vitamin C in Tea	C01	Room 235
Manolis Anemikos	6	Are Our Fish Safe? The Effects of Fertilizer on the Water Quality of Lake Champlain	G01	Room 160
Cassidy Button	8	It's All About the Face - A Study of How Acne Products Affect Bacterial Growth on the Face	B38	Room 243
Eric Godin	8	Stand Back...This is Rocket Science!	P10	Room 151
Lauryn Holsopple	8	Soccer Stats Kick Grass	M02	Room 125
Cody Hyldburg	8	Citrus Fruit Battery	P14	Room 151
Trevor McDonald	8	Flowing Electricity	P21	Room 151
Nathan Oster	7	Arrowhead Accuracy	P23	Room 151
Kathryn Schmidt	8	Aquaponics - Raising Fish to Grow Plants	B26	Room 243
Camden Simoneau	7	Does your home feel like an igloo?	P27	Room 151
Kaitlyn Tice	6	What Stops Erosion?	G11	Room 160
John Waligory	8	Tracking the Sun - Does it Make Solar Cents?	P31	Room 151
Owen Waligory	6	How Much do you Truss your Roof?	P32	Room 151

Milton Middle School (cont)**Nathan Caswell**

Zachary Hayes	7	Music and Reaction Times	S12	Room 145
Dwayne Kirby	8	Multitasking and Memory	S14	Room 145
Laura Lazzaro	8	Sunny Solar Panels	P16	Room 151
Sadie Pierce	7	Making a Stronger Battery	C15	Room 235
Eliza Scherzinger	8	Distraction and Reaction Time	S22	Room 145
Raymond Zheng	8	Melting Styrofoam Cups	C19	Room 235

Missisquoi Valley Union High School**Dana Maria Dezotell**

Jared Laroche	10	Purifying Water with Coffee Grounds	G08	Room 160
Nathaniel Lefebvre	10	Electromagnetic Radiation from Portable Electronics	P17	Room 151
John Bourdeau	10	Production of Biodiesel Using Ultrasonication	P02	Room 151
Jacob Gallow	11	How Does the Structure of Bridges Affect Resistance in Flooding	P08	Room 151
Taylor Hall	10	The Effects of Ibuprofen on the Growth of Pisum sativum and Zea Mays	B11	Room 243
James Hope	12	Oil Removal from Water	G04	Room 160
Chelsey Jewett	9	Light Sensors Make Movement and Sound	GP28	Room 165
Elizabeth Kennedy	12	Ocean, Pollution and... HAIR?	G07	Room 160
Olivia McGovern	11	Testing Pesticide Toxic Longevity on Gryllus Pennsylvanicus	B20	Room 243
Eadoin Murphy	8	Does adding a mirror to an enclosed area increase the amount of light in that area?	P22	Room 151
Caitlin Varin	11	What Effect Does The Stage Of Lactation Have On The Protein Composition Of Milk From Bos T	B57	Room 267
Brooke Ziemba	9	Light Sensors Make Movement and Sound	GP28	Room 165
Lindsay Kilbury	10	The Affects of Different Acidic Substances on Steel Wool	C07	Room 235
Jodi Hayes	12	Automated Dog Feeder	P13	Room 151

Northfield High School

Amy Urling

Lucianna Bailey	11	The Effect of Habitat Reduction on the Mass of Pill Bugs	B46	Room 267
Mallory Dutil	11	The Effect of the Amount of Time from the Springboard to Blocking off the Table on Vault D	P06	Room 151
Taylor Nash	12	The Effect of Time of Exposure (weeks) on the Growth of Bacteria in Cosmetics	B41	Room 243

Shane Heath

Lindsay Albee	11	The Effect of Red Wigglers (Eisenia Fetida) on the Nutrient Content of Compost	B01	Room 243
Nathan Hoffman	11	The Abundance of Microbial Growth on Frequently Used Unsanitary Surfaces	B40	Room 243
Morgan Smith	11	The Effect of Magnets on Bruise Physiology	B55	Room 267
Emma Stephens	10	The Effect of Different Nutrient Ratios on the Total Leaf Area and Mass of Strawberry Plants	B30	Room 243
Morgan Wrigley		The Effect of Nutrient Deficiencies on Specific Quantitative and Qualitative Facets of the	B36	Room 243

Randolph Education Cooperative Homeschool

Andre St. Denis

Sam McIntyre	7	Operation Ski Machine	GP30	Room 165
Aaron Paroline	5	Operation Ski Machine	GP30	Room 165
Emily Russell	5	Operation Ski Machine	GP30	Room 165

Gina Sweet

Olivia Knudsen	8	The Quality of Crayons	GP17	Room 235
Kasie Mills	8	The Quality of Crayons	GP17	Room 235
Kyrsten Paroline	6	Essential Oil Test	B24	Room 243
Emily Russell	5	Horse Treats	B53	Room 267
Hannah St. Denis	8	Color Taste Confusion	S25	Room 128
Katie Sweet	11	EMF Exposure to Plants	B31	Room 243

Rice Memorial High School**Sharon Boardman**

Elise Prehoda	12	E. coli Strains Inhabiting interstitial Spaces of Soil Adjacent to Vermont Streams	B42	Room 243
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Saint Mary's School**Craig Hill**

Ainsley Busby	5	Get the Sensation	B04	Room 243
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Thomas Wolosinski	5	Fruit Power	P33	Room 151
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Sara Abbott

William Wagner		Comparison of Natural versus Commercial Fertilizer in Radishes	B33	Room 243
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South Burlington High School**Curtis Belton**

Ali Barritt	9	The Effects of a Normal Lack of Sleep on Eye Comfort, Redness, and Vision	B47	Room 267
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Luke Beatty	10	The Effects of Background Noise on Concentration	S02	Room 145
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Alexandre Chaulot	10	Is Amifostine Effective at Countering the Reduction of Platelets in the Blood Caused by Cy	GP08	Room 267
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Ryan Croxford	10	Effects of Anti-gelling Agents on the Caloric Biodiesel	C04	Room 235
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Clark Deng	11	Using UAS-Based Precision Agriculture to Combat European Corn Borer	GP19	Room 125
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Tom Dustira	10	How Different Soils Affect the Fruit Bearing Brassica rapa	B07	Room 243
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Hannah Fisher	9	Lie To Me	S11	Room 145
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Derek Gagnon	11	Using UAS-Based Precision Agriculture to Combat European Corn Borer	GP19	Room 125
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Nicholas Goodman	10	The Effects of UV Light on Food	B10	Room 243
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Elizabeth Hall	10	The Effect of UVB on Human Epithelial Cells	B39	Room 243
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Rachel Hill	10	Growth of genetically modified drought-tolerant corn: Is it better than organic corn grown	B14	Room 243
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Trevor Houchens	10	Is Amifostine Effective at Countering the Reduction of Platelets in the Blood Caused by Cy	GP08	Room 267
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South Burlington High School (cont)

Ava Hultgren	10	B15 243		
Nathan Kakalec	10	A Computer Model to Project the Outbreak of <i>Agrilus planipennis</i> in New Hampshire	M03	Room 125
Gabe Katz	10	Effect of Salt Water in Various Concentrations on Lima Beans and Greens Beans	B16	Room 243
Nick Knudsen	10	The Sources of <i>Escherichia Coli</i> in Lake Champlain and the Surrounding Watershed	B17	Room 243
Alec McCrae	10	The Effects of Music on Running	S15	Room 145
Katie McLean	10	Water Quality in Potash Brook	G09	Room 160
Kailey Miller	10	The Effect of Climate Change on Crayfish	B50	Room 267
Jenna Murray	10	Test Stress	S17	Room 145
Mara Senecal-Albrecht	10	The Effects of Bromocriptine on DLPFC functional connectivity	B27	Room 243
Mehul Shah	10	Antibacterial Effect of Spices on <i>Streptococcus pyogenes</i>	B43	Room 243
Sajani Sivakumar	10	The Effects of Vitamin D on Pancreatic β -cells Under Glucotoxic Stress	B54	Room 267
Tatum Turner	10	Does Brushing Really Matter?	B32	Room 243
Melissa Valgoi	10	Effect of Soap and Water vs. Acne Wash on Facial Bacteria	B44	Room 243
Bentley Wilking	10	Would an Inflation of Desalination Help the Nation?	B35	Room 243
Chelsea Wright	10	Effects of Homeopathic Treatments On Sputum and Phlegm	B58	Room 267
Katherine Yang	10	Gender and Math Skills in Vermont School, Grades 6-16: A Statistical Study	M05	Room 125

St. Francis Xavier School**Mary Ellen Varhue**

Amelia Canney	7	Can You See What I See?	S06	Room 145
Alexandria Dostie	7	Hot or Cold	P05	Room 151
Jessica Eustis	7	Painted Ponies	C05	Room 235
Jared Forsythe	8	Deadly Runoff	G02	Room 160
Chris LLanos	7	Good Morning Sunshine!	P15	Room 151
Gabrielle Lajeunesse	8	Erasing Permanent Marker	C08	Room 235
Magda Lelito	7	Blow Out!	C10	Room 235
Patrick Lepsic	8	Magnetic Force	P18	Room 151

St. Francis Xavier School (cont)

Margaret Martell	8	Distracted Reactions	B19	Room 243
Leyla Marzbani	8	Straighten Up, Fly Right	P20	Room 151
Sean McCormick	7	Keep The Heat	C11	Room 235
Zachary McCormick	8	Pollution Solution	C12	Room 325
Colin McKay	8	Go With The Flow	C13	Room 235
Abigail Monahan	8	Too Hot To Handle	C14	Room 235
Madeleine Parzyck	8	Glow Germ	B25	Room 243
Olivia Simon	7	Lime Light	C17	Room 235
Noah Simonds	8	Tension Integrity	P26	Room 151
Eliza White	8	Can You See It?	B34	Room 243
Andrew Zierak	7	Crashin', Bashin,' and Smashin'	P34	Room 151
Matthew Zuk	7	Up On The Rooftops!	P35	Room 151

Weathersfield School**David E. Lambert**

Jacob Harriman	8	Clean Up Materials vs Fuel Oil	G03	Room 160
Emily Lang	8	In A Pinch Penny Power To The Rescue	C09	Room 235
Brooke McKeen	8	What To Feed The Seed	B21	Room 243

Windsor High School**Catharine Engwall**

Amber DeBartolo	11	Effects of Natural Vs. Chemical Coagulants	GP13	Room 235
Shelbie Gebert	12	Printing vs. Spraying as an Alternative to Skin Grafting	GP12	Room 267
Casey Husband	11	The Antibacterial Effectiveness of Combatting Escheria coli (E. coli) with Numerous Spices	GP05	Room 267
Peter Jaarsma	12	Effects of Natural Vs. Chemical Coagulants	GP13	Room 235
Valerie Koch	12	Printing vs. Spraying as an Alternative to Skin Grafting	GP12	Room 267
Abigail Millard	12	The Antibacterial Effectiveness of Combatting Escheria coli (E. coli) with Numerous Spices	GP05	Room 267

Windsor High School (cont)

Caitlin Roberts	12	The Effect of the Paleo Diet on Blood Sugar Management	B52	Room 267
Megan Roberts	10	The Asch Experiment: Conformity Among Genders	S21	Room 145
Emma Saucier	12	Load Sensing Walking Boot: Advice to prevent lower extremity injuries	P25	Room 151
Emily Smith	10	Using Cow Manure as a Renewable Resource for Distilling Water	P29	Room 151

Raina White

Devon Beland	9	The Power of Music: The effect of classic rock and grunge rock on human emotion	GP34	Room 128
Emily Euber	9	Which removes sharpie better: Soap or Hand Sanitizer?	GP16	Room 235
Duncan Frazer	9	The Power of Music: The effect of classic rock and grunge rock on human emotion	GP34	Room 128
Dana Fuller	9	Music and Effects on Duration of Exercise	GP38	Room 128
Stephanie Gifford	9	Matching Voices to Unknown Faces	GP39	Room 128
Makenna Hodgdon	9	Did you Say Cookie?	S13	Room 145
Tate Hurd	9	The Effect of Aromatic Food on Decision Making	GP41	Room 128
Carissa Kinsman	9	Music and Effects on Duration of Exercise	GP38	Room 128
Ben Meagher	9	Competing with the Cloud	GP23	Room 125
Ben Millard	9	Technology and Sleep: How technology affects your		
Vincent Moeykens	9	Competing with the Cloud	GP23	Room 125
Autumn Ramirez	9	Which removes sharpie better: Soap or Hand Sanitizer?	GP16	Room 235
Ethan Rhoad	9	The Effect of Aromatic Food on Decision Making	GP41	Room 128
Rylea Tetreault	9	Matching Voices to Unknown Faces	GP39	Room 128

Windsor Middle School

Owen Campbell

Daniel Cardillo	8	Laser Visibility	GP25	Room 165
Dylan DeSchamp	7	Melting Ice	GP14	Room 235
Joshua Gaudette	8	Laser Visibility	GP25	Room 165
Hunter Grela	8	Heated Sap Lines	GP27	Room 165
Austyn Larson	7	What is the Effect that Age and Activity have on Asthma?	B48	Room 267
Harrison Morse	7	Melting Ice	GP14	Room 235
Ryland Richardson	8	Heated Sap Lines	GP27	Room 165

Woodstock Union HS

Jennifer Stainton

Joseph Bianchi	11	Color by the Numbers	P01	Room 151
Maggie Burns	9	Would a site contaminated with mercury in the 70's still have higher levels than a non-contaminated site	GP18	Room 125
Rory Haff	9	What is a Bigger Mercury Threat: Coal Fired Power Plants or Volcanoes?	GP20	Room 125
Abby Kaija	11	Drain Contamination in the Ottawaquechee River Watershed	G06	Room 160
Sadie Kuhn	9	Average Annual Precipitation vs. Mercury Concentration; Is There a Correlation?	GP21	Room 125
Paitra Martin	11	Does Gas Type Impact Basketball Bounce Height?	P19	Room 151
Hailey Napier	9	Average Annual Precipitation vs. Mercury Concentration; Is There a Correlation?	GP21	Room 125
Meg Snide		Would a site contaminated with mercury in the 70's still have higher levels than a non-contaminated site	GP18	Room 125
Kyle Weirether	9	What is a Bigger Mercury Threat: Coal Fired Power Plants or Volcanoes?	GP20	Room 125