

**SUPERIOR (GOLD) AWARDS**  
**VERMONT STATE SCIENCE & MATH FAIR–2005**

<u>Name/School</u>	<u>Grade</u>	<u>Project</u>
<b>Kayla Bartley</b> Green Mtn Union HS	8	Bright as a Penny
<b>Ioulia Bepalova</b> South Burlington HS	10	Wavelengths of Light and Drosophila
<b>Skyler Degenkolb</b> Bellows Falls UHS	10	Hydrogen Emission Spectrum Prediction by the Schrodinger Equation/Confirmation by Spectral analysis
<b>Joseph Dexter</b> Green Mtn Union HS	8	Extracting Gibberellins: Isolating Gibberellins from Different Common Plants/Examining Their Effect
<b>Timothy Groves</b> Mater Christi School	8	How Hard?
<b>Larson Hogstrom</b> Woodstock UHS	12	A Contemporary Hubble Diagram
<b>Sarah Kay</b> South Burlington HS	10	The Importance of Gluten in the Rising of Dough
<b>Martha Korbet</b> Windsor Jr-Sr High School	12	Safety Belt Design
<b>Torey Olson</b> Rutland High School	11	The Function of the Kidneys as a Homeostatic Organ
<b>Ben Phelps</b> South Burlington HS	10	Power-of-10 vs Conventional Weight Lifting: Which Technique Works Best?
<b>Isaac Potvin</b> Saint Francis Xavier Sch	7	The Effect of Detergent Enzymes on the Decomposition of Protein
<b>Patrick Reilly</b> Mater Christi School	8	How Hard?
<b>Ashley Sicard</b> Windsor Jr-Sr High School	12	Airfoil Design
<b>Jenna Ware</b> Woodstock UHS	12	Determining the age of the Universe, using the Hubble model
<b>Hope Yu</b> South Burlington HS	10	The Effect of Hobbies on Memory

**EXCELLENT (SILVER) AWARDS**  
**VERMONT STATE SCIENCE & MATH FAIR–2005**

<u>Name/School</u>	<u>Grade</u>	<u>Project</u>
<b>Jenna Abatiell</b> Rutland High School	11	How Do Environmental Factors Effect the Oxidation of Vitamin C?
<b>Stephen Akiki</b> Mater Christi School	7	What Detergent/Soap will Extract DNA better?
<b>Julie Barrett</b> South Burlington HS	10	Effectiveness of Antibacterial Products
<b>Alex Beattie</b> Mater Christi School		Bacteria and pH
<b>Raymond Bostock</b> Woodstock UHS	12	Statistics in Baseball

<b>Bart Buteau</b> Rutland Area Christian Sc	9	Difference in Accuracy Between a Flatline Barrel and a Straightline Barrel
<b>Brandon Bycer</b> South Burlington HS	10	Reactions in Living Things
<b>Sara Campbell</b> Saint Francis Xavier Sch	8	Acidity and Alkalinity in Common Medications
<b>Eric Cannizzaro</b> South Burlington HS	10	The Effect of Light on the Weight of Mice
<b>Emily Davis</b> Saint Francis Xavier Sch	7	What Materials would be Most Efficient in Heating Passive Solar Houses?
<b>Staige Davis</b> Mater Christi School	7	Insulation Investigation
<b>Tom Eddy</b> Hinesburg Comm. School	8	It's Not Rocket Science
<b>Evan Griffith</b> Bellows Falls UHS	11	Antiseptics in the Spice Drawer
<b>Lauren Harris</b> South Burlington HS	10	The Effect of Drinks on Teeth
<b>Reilly Hart</b> Mount Saint Joesph Acad	10	Can You Handle the Heat?
<b>Brianna Hertford</b> Green Mtn Union HS	8	Differences in Athlete's and Non-Athlete's Pulse Rates
<b>Caroline Incavo</b> South Burlington HS	10	How Eating Habits Affect Athletic Performance
<b>Jared Larson</b> Rutland High School	11	Oxidation
<b>Hyung Kyu Lee</b> Mount Saint Joesph Acad	10	The Effect of Temperature on Battery Performance
<b>Tenzin Lhaxhang</b> South Burlington HS	10	Effects of Gibberillic in Light and Dark
<b>Kevin Li</b> South Burlington HS	10	Placebos and Test Taking
<b>Saemus Mawe</b> Hinesburg Comm. School	7	Digestion Dilemma
<b>Aaron May</b> Rutland High School	11	Shaking and Breaking, The Effect of Soil on Buildings During Earthquakes
<b>Ryan Rainville</b> Rutland High School	12	Optoelectron ICS: Assistance for Visually Impaired Canines
<b>Monique Rogals</b> Fair Haven USH	12	Adaptation
<b>Erin Steiger</b> Mater Christi School		Bacteria and pH
<b>Salka Thali</b> South Burlington HS	10	Is There a Connection Between Hand Dominance and Directionality
<b>Andrew Tranmer</b> Mater Christi School	8	Effect of Exercise on Heart Rate
<b>Akex Ward</b> Mater Christi School	7	Insulation Investigation
<b>Jonathan Wong</b> South Burlington HS	10	"Fruit Flies Don't Bother Me!"

**SPONSORED AWARDS**  
**VERMONT STATE SCIENCE & MATH FAIR–2005**

**Sponsors:**

ACS	Green Mountain Section--American Chemical Society
ASM	Northeast Branch American Society for Microbiology
GMWEA	Green Mountain Water Environment Association
ISEF	Vermont International Science & Engineering Fair Finalist
NEAVS	New England Anti-Vivisection Society
STOCK	Stockholm Junior Water Prize awarded by Green Mountain Water Environment Association
SX	Vermont Chapter of Sigma Xi, The Scientific Research Society
TBP	Norwich University's Beta Chapter of Tau Beta Pi, The National Engineering Honor Society
VAAS	Vermont Academy of Arts and Sciences
VANR	Vermont Agency of Natural Resources--Department of Environmental Conservation
VPA	Vermont Principals' Association
VSNA	Vermont State Nurses' Association

**Awards:**

<u>Award/Name</u>	<u>Grade</u>	<u>Project/School</u>
ACS (\$0) <b>Jenna Abatiell</b>	11	How Do Environmental Factors Effect the Oxidation of Vitamin C? Rutland High School
ACS (\$50) <b>Stephen Akiki</b>	7	What Detergent/Soap will Extract DNA better? Mater Christi School
ACS (\$100) <b>Skyler Degenkolb</b>	10	Hydrogen Emission Spectrum Prediction by the Schrodinger Equation/Confirmation by Spectral analysis Bellows Falls UHS
ACS (\$50) <b>Isaac Potvin</b>	7	The Effecdct of Detergent Enzymes on the Decomposition of Protein Saint Francis Xavier Sch
ASM (\$100) <b>Evan Griffith</b>	11	Antiseptics in the Spice Drawer Bellows Falls UHS
ASM (\$100) <b>Anita Zakrzewska</b>	10	Reduction of UVB Induced Epithelial Apoptosis Using Textiles South Burlington HS
GMWEA (\$50) <b>Julie Barrett</b>	10	Effectiveness of Antibacterial Products South Burlington HS
GMWEA (\$25) <b>Anjuli Byrd</b>	8	Garbage in Lake Champlain Hunt Middle School
GMWEA (\$100) <b>Brayden McKenna</b>	8	Iron-Copper Battle to Corrode Hinesburg Comm. School
GMWEA (\$25) <b>Julie Mallowney</b>	8	Garbage in Lake Champlain Hunt Middle School
GMWEA (\$25) <b>Michaela Sawyer</b>	8	Garbage in Lake Champlain Hunt Middle School
GMWEA (\$25) <b>Theresa Strenio</b>	8	Garbage in Lake Champlain Hunt Middle School
GMWEA (\$50) <b>Malinda Wisell</b>	10	Alternative Water Treatment Methods South Burlington HS
STOCK (\$) <b>Kevin White</b>	10	Zebra Mussel Extermination South Burlington HS
SX (\$50) <b>Ashley Sicard</b>	12	Airfoil Design Windsor Jr-Sr High School

SX (\$50)	10	Comparison of Lymph Node Intervals with Metastasis Detection South Burlington HS
<b>Katherine Weaver</b>		
TBP (\$50)	7	What Materials would be Most Efficient in Heating Passive Solar Houses? Saint Francis Xavier Sch
<b>Emily Davis</b>		
TBP (\$100)	12	Optoelectron ICS: Assistance for Visually Impaired Canines Rutland High School
<b>Ryan Rainville</b>		
VAAS (\$100)	12	A Contemporary Hubble Diagram Woodstock UHS
<b>Larson Hogstrom</b>		
VANR (\$100)	8	Phantastic Pine Needles Hinesburg Comm. School
<b>Jared Boudreau</b>		
VANR (\$25)	8	Garbage in Lake Champlain Hunt Middle School
<b>Anjuli Byrd</b>		
VANR (\$100)	7	What Materials would be Most Efficient in Heating Passive Solar Houses? Saint Francis Xavier Sch
<b>Emily Davis</b>		
VANR (\$25)	7	Garbage in Lake Champlain Hunt Middle School
<b>Julie Mallowney</b>		
VANR (\$100)	10	Analyzing the Buffer Capacity of Three Local Bodies of Water by Testing Their pH Levels Before and A Mount Saint Joesph Acad
<b>Clinton Rhodes</b>		
VANR (\$25)	8	Garbage in Lake Champlain Hunt Middle School
<b>Michaela Sawyer</b>		
VANR (\$100)	10	Potash Brook Water Quality and Storm Water Runoff South Burlington HS
<b>Becca Schatz</b>		
VANR (\$25)	7	Garbage in Lake Champlain Hunt Middle School
<b>Theresa Strenio</b>		
VANR (\$100)	10	Zebra Mussel Extermination South Burlington HS
<b>Kevin White</b>		
VPA (\$200)	12	Airfoil Design Windsor Jr-Sr High School
<b>Ashley Sicard</b>		
VSNA (\$100)	11	Antiseptics in the Spice Drawer Bellows Falls UHS
<b>Evan Griffith</b>		

**ISEF SPONSORED AWARDS  
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**Sponsors:**

AMS	American Meteorological Society Atmospheric Science Award
APA	American Psychological Association Award
ASM	American Society of Materials Award
EKC	Eastman Kodak Company Best Use of Photography Award
HHE	Herbert Hoover Engineering Award
ICS	Intel Excellence in Computer Science Award
IEHS	Intel Excellence in Environmental Health and Safety Award
ISEF	Two First Place Finalists will compete in the Intel International Science and Engineering Fair
ISOE	International Society for Optical Engineering Award
MAT	Mu Alpha Theta Mathematics Award
NSPE	National Society for Professional Engineers Award
RICOH	Regional Ricoh Sustainable Development Award
SIVB	Society for In Vitro Biology Award

USA	United States Army Science, Mathematics, and Engineering Awards
USAF	United States Air Force Science Awards
USDHHS	US Department of Health and Human Services Award
USM	US Metric Association Award
USN	United States Navy and Marine Corps Awards
YALE	Yale Science and Engineering Association Award

**Awards:**

<u>Award/Name</u>	<u>Grade</u>	<u>Project/School</u>
ISEF (\$3500) <b>Ryan Rainville</b>	12	Optoelectron ICS: Assistance for Visually Impaired Canines Rutland High School
ISEF (\$3500) <b>Ashley Sicard</b>	12	Airfoil Design Windsor Jr-Sr High School
APA <b>Caitlin O'Connor</b>	10	Take a Moment and Paws for Some Therapy Rutland High School
ASM <b>Kelli Baker</b>	11	Bridges: Structure v. Strength Rutland High School
EKC <b>Aaron May</b>	11	Shaking and Breaking, The Effect of Soil on Buildings During Earthquakes Rutland High School
HHE <b>Ashley Sicard</b>	12	Airfoil Design Windsor Jr-Sr High School
ISOE <b>Ryan Rainville</b>	12	Optoelectron ICS: Assistance for Visually Impaired Canines Rutland High School
MAT <b>Courtney Dumont</b>	12	What Disrupts Wireless Internet Connection Windsor Jr-Sr High School
NSPE <b>Ryan Rainville</b>	12	Optoelectron ICS: Assistance for Visually Impaired Canines Rutland High School
RICOH <b>Sam Perzanowski</b>	11	Hover Boy Rutland High School
USA (\$50) <b>Kelli Baker</b>	11	Bridges: Structure v. Strength Rutland High School
USA (\$50) <b>Tyler Hain</b>	11	The Ghetto Connection Rutland High School
USA (\$50) <b>Timothy Lens</b>	9	Tower Designs Windsor Jr-Sr High School
USA (\$50) <b>Torey Olson</b>	11	The Function of the Kidneys as a Homeostatic Organ Rutland High School
USA (\$50) <b>Colby Welch</b>	10	The Efficiency of Insulation Rutland High School
USAF <b>Skyler Degenkolb</b>	10	Hydrogen Emission Spectrum Prediction by the Schrodinger Equation/Confirmation by Spectral analysis Bellows Falls UHS
USAF <b>Courtney Dumont</b>	12	What Disrupts Wireless Internet Connection Windsor Jr-Sr High School
USAF <b>Ryan Rainville</b>	12	Optoelectron ICS: Assistance for Visually Impaired Canines Rutland High School
USAF <b>Ashley Sicard</b>	12	Airfoil Design Windsor Jr-Sr High School

USDHHS	11	Oxidation
<b>Jared Larson</b>		Rutland High School
USM		Sight on the Sidelines
<b>Ashley Coleman</b>		Rutland High School
USN (\$75)	11	How Do Environmental Factors Effect the Oxidation of Vitamin C?
<b>Jenna Abatiell</b>		Rutland High School
USN (\$75)	11	Are You Rational?
<b>Mackenzie Cater</b>		Rutland High School
USN (\$75)		Sight on the Sidelines
<b>Ashley Coleman</b>		Rutland High School
YALE	12	Airfoil Design
<b>Ashley Sicard</b>		Windsor Jr-Sr High School