

The complete list of Science Fair winners is also available on the web at
<http://www2.norwich.edu/hoppe/scifair/prize06.pdf>

**SUPERIOR (GOLD MEDAL) AWARDS
 VERMONT STATE SCIENCE & MATH FAIR–2006**

These winners will also receive a “[Plasma Sphere](#)” courtesy of Bill Parker, inventor of the plasma sphere and CEO of Diffraction Ltd in Waitsfield, Vermont.

<u>Name/School</u>	<u>Grade</u>	<u>Project</u>
Joseph Dexter Green Mtn Union HS	9	Optimizing Tissue Sterilization in <i>Cypridium reginae</i> Meristem Culture
Michael Gilmartin South Burlington HS	10	Cleidocranial Dysplasia
Alyssa Crews South Burlington HS	10	Hydration: Water vs. Sports Drink
Andrew Indorf Northfield MSHS	11	The Effects of Hydrogenated Oil on its Ability to Increase Arterial Blockage and Blood Pressure
Rebecca Lee South Burlington HS	10	The Effects of Light on the Development of <i>Xenopus laevis</i>
Heidi Kunkel Northfield MSHS	11	Ethanol as a Possible Alternative Fuel Source when Tested in Mixtures with Gasoline
Kyla Ose Champlain Valley UHS	11	Reducing Air Pollutants from Tire Burning with an Electrostatic Precipitator
Eric Sadler South Burlington HS	11	Simple Green
Sam Kessler Main Street Middle School	8	What Is The Best Angle For A Ski Jump
Phillip Williams Main Street Middle School	8	What Is The Best Angle For A Ski Jump
Ian Rousseau Essex High School	12	The Supercritical Brayton Cycle for Space Exploration
Ben Martin Hinesburg Community Schoo	8	The Answer is Blowing in the Wind
Brian Ribbans Mount St. Joseph Academy	9	Tesla Coil
Sarah Lensing Woodstock Union HS	12	Pendulum Experimentation: Beyond Small Angle Approximations
Amanda Plaustainer Windsor High School	10	Monty Hall Dilemma

**EXCELLENT (SILVER MEDAL) AWARDS
VERMONT STATE SCIENCE & MATH FAIR–2006**

<u>Name/School</u>	<u>Grade</u>	<u>Project</u>
Wangshu Peng South Burlington HS	10	Bacteria Resistance Lab
Jacqueline Stevens South Burlington HS	10	Screening For Color Blindness in Three Generations
Joey Abate South Burlington HS	10	Comparison of Concentration of CS-846 in Human Synovial Fluid in Injured and Non-Injured Knees
Calley Brown Fair Haven Union High Sch	10	How Does Caffeine Affect Blood Pressure in Teens vs. Adults
Emily Davis St. Francis Xavier School	8	How Quickly Does My Heart Rate Change While Running
Jennifer Dunn Hinesburg Community Schoo	7	Spiro Meter
Elizabeth Garbitelli Mount St. Joseph Academy	10	Effect of Chlorine Concentrations on Daphnia
Krysta Gawet Mount St. Joseph Academy	10	How Much Does a Horse's Incisor Grow in a Ten Week Period?
Meret Thali South Burlington HS	10	Heart Rate Increase: Boys vs. Girls
Andrew Jenzer Brattleboro UHS	12	The Effects of Human Land Use on Water Quality in the West River
Charles Li South Burlington HS	10	Water Quality Index
Brigitte Gagne St. Francis Xavier School	7	To Ferment or Not To Ferment
Sam Parent Hinesburg Community Schoo	8	Under Pressue: Is H2O the way to go?
David Ribbans Mount St. Joseph Academy	10	Does the Type of Acid Affect the Voltage of a Wet Cell
Liesl Ulrich-Verderber Mater Christi School	7	Spark Testing of Metals
Christopher Kenseth Main Street Middle School	7	Grains of Sand - Building a Beach
Grady Farnum-Rendino Hinesburg Community Schoo	7	Generation: Solar
Jameson Hurd Hinesburg Community Schoo	7	Generation: Solar
Dallas Dodd Hinesburg Community Schoo	7	Fashion
Evan Morehouse Hinesburg Community Schoo	7	Fashion
Lillian McNealus Woodstock Union HS	12	Exploring Chaos and Complexity through the Investigation of the Logistics Function
Stephanie Chan South Burlington HS	10	Solar Energy vs. Electricity
William Smith Windsor High School	10	Insulation

Madeline Murphy Hall Windsor High School	12	Hovercraft design
Kody Spencer Weathersfield Mid School	8	The Separation of Airflow on a Symmetrical and a Flatwing Airfoil
Kristine Record Bellows Falls UHS	12	The Effect of Bullet Caliber and Target Distance on Vertical Drop
Diana Hill Rutland High School	11	Rutland Weighs In
Katie Parker Hinesburg Community School	7	Marvelous Memory
Kristin Rowe Northfield MSHS	11	The Affects of Lemon Oil and Rosemary Essential Oil on Heart Rate/Pulse

**SPONSORED AWARDS
VERMONT STATE SCIENCE & MATH FAIR–2006**

Sponsors:

ACS	Green Mountain Section--American Chemical Society
ASM	Northeast Branch American Society for Microbiology
GMWEA	Green Mountain Water Environment Association
ISEF	Two First Place Finalists will compete in the Intel International Science and Engineering Fair. They and their teachers will receive an all expense paid trip to ISEF. In addition, Bill Parker, CEO of Diffraction Ltd has invited these two students to do a one week internship in his laboratories in Waitsfield this summer.
NEAVS	New England Anti-Vivisection Society
STOCK	Stockholm Junior Water Prize awarded by Green Mountain Water Environment Association
SWE	Society for Women Engineers--North Country Section
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 (\$50) Jade Leven	8	Bubble or Shake; Cleaning Biodiesel Green Mtn Union HS
ACS (\$50) Eric Sadler	11	Simple Green South Burlington HS
ACS (\$100) Heidi Kunkel	11	Ethanol as a Possible Alternative Fuel Source when Tested in Mixtures with Gasoline Northfield MSHS
ASM (\$100) Emma Brady	10	Dealing With My Fear of Dirty Sponges South Burlington HS
ASM (\$100) Michael Gilmartin	10	Cleidocranial Dysplasia South Burlington HS
GMWEA (\$25) Charles Li	10	Water Quality Index South Burlington HS

GMWEA (\$25) Leanna Muroskil	8	As the River Flows Hinesburg Community School
GMWEA (\$50) Kevin Orth	8	In What Type of Water do the Most Fairy Shrimp Survive? Weathersfield Mid School
GMWEA (\$50) Michael Ragosta	10	Water Purification South Burlington HS
GMWEA (\$100) Elizabeth Garbitelli	10	Effect of Chlorine Concentrations on Daphnia Mount St. Joseph Academy
GMWEA (\$100) Andrew Jenzer	12	The Effects of Human Land Use on Water Quality in the West River Brattleboro UHS
ISEF (~\$3500) Joseph Dexter	9	Optimizing Tissue Sterilization in <i>Cypridium reginae</i> Meristem Culture Green Mtn Union HS
ISEF (~\$3500) Ian Rousseau	12	The Supercritical Brayton Cycle for Space Exploration Essex High School
SWE Megan Beattie	7	Electropotential of Metals in a Galvanic Cell Mater Christi School
SWE Lauren Farmer	7	Electropotential of Metals in a Galvanic Cell Mater Christi School
SWE (\$100) Madeline Murphy Hall	12	Hovercraft design Windsor High School
SX (\$50) Hannah Leavens	10	Vermont Agriculture and Farming South Burlington HS
SX (\$50) Lillian McNealus	12	Exploring Chaos and Complexity through the Investigation of the Logistics Function Woodstock Union HS
SX (\$50) Bart Buteau	10	Water Works Rutland High School
TBP (\$50) Ben Martin	8	The Answer is Blowing in the Wind Hinesburg Community School
VAAS (\$100) Sarah Lensing	12	Pendulum Experimentation: Beyond Small Angle Approximations Woodstock Union HS
VANR (\$100) Isaac Potvin	8	You Spill, You Kill/The Effect of Environmental Pollutants St. Francis Xavier School
VANR (\$100) Kameron Clayton	7	It's Raining It's Pouring Acid Rain is Forming Hinesburg Community School
VANR (\$100) Charles Li	10	Water Quality Index South Burlington HS
VANR (\$100) Shaun McCarthy	10	The Buffer Capacity of Lake Champlain, Lake Dunmore, and Lake Bomoseen Mount St. Joseph Academy
VANR (\$100) Kyla Ose	11	Reducing Air Pollutants from Tire Burning with an Electrostatic Precipitator Champlain Valley UHS
VANR (\$100) Greg Zengilowski	7	The Balance of Nature Hinesburg Community School
VPA (\$200) Ian Rousseau	12	The Supercritical Brayton Cycle for Space Exploration Essex High School
VSNA (\$100) Stephanie Ames	11	Candies vs. Fruits and Veggies; Who will give the better performance? Rutland High School

**ISEF SPONSORED AWARDS
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AMS	American Meteorological Society Atmospheric Science Award
APA	American Psychological Association Award
ASM	American Society of Materials International Foundation Award
AWG	Association for Women Geoscientists Award
DCYSC	Discovery Channel Young Scientist Challenge
DHHS	United States Department of Health and Human Services Award
HHE	Herbert Hoover Presidential Library Association Engineering Award
ICS	Intel Excellence in Computer Science Award
ISOE	International Society for Optical Engineering Award
MAT	Mu Alpha Theta Mathematics Award
NOAA	National Oceanic and Atmospheric Administration Environmental Award
NSPE	National Society of Professional Engineers Award
RC	Ricoh Sustainable Development Award
USA	United States Army Science, Mathematics, and Engineering Awards
USAF	United States Air Force Science, Mathematics, and Engineering Awards
USMA	U.S. Metric Association Award
USN	United States Navy Science and Engineering Award
YSE	Yale Science and Engineering Association Award

Awards:

<u>Award/Name</u>	<u>Grade</u>	<u>Project/School</u>
AMS Stephanie Chan	10	Solar Energy vs. Electricity South Burlington HS
AMS William Smith	10	Insulation Windsor High School
APA Michael Gilmartin	10	Cleidocranial Dysplasia South Burlington HS
ASM William Smith	10	Insulation Windsor High School
AWG Caroline Boutwell	9	How Does Temperature affect the growth of algae? Mount St. Joseph Academy
DCYSC Ben Martin	8	The Answer is Blowing in the Wind Hinesburg Community Schoo
DCYSC Kody Spencer	8	The Separation of Airflow on a Symmetrical and a Flatwing Airfoil Weathersfield Mid School
DHHS Alyssa Crews	10	Hydration: Water vs. Sports Drink South Burlington HS
HHE Stephanie Chan	10	Solar Energy vs. Electricity South Burlington HS
ISOE Justin Page	10	Light Source and Plant Growth Windsor High School
MAT Ryan Dunn	12	The Effect of Egg Size and Catapult Elasticity on Horizontal Distance Traveled Bellows Falls UHS
NOAA David Knoff	9	The Effect of Nitrates and Phosphates on the Growth of Algae South Burlington HS

NSPE	12	The Supercritical Brayton Cycle for Space Exploration Essex High School
Ian Rousseau		
RC	11	Simple Green South Burlington HS
Eric Sadler		
USA (\$50)	10	Comparison of Concentration of CS-846 in Human Synovial Fluid in Injured and Non-Injured Knees South Burlington HS
Joey Abate		
USA (\$50)	10	Effect of Chlorine Concentrations on Daphnia Mount St. Joseph Academy
Elizabeth Garbitelli		
USA (\$50)	12	Hovercraft design Windsor High School
Madeline Murphy Hall		
USA (\$50)	9	Tesla Coil Mount St. Joseph Academy
Brian Ribbans		
USA (\$100)	9	Optimizing Tissue Sterilization in Cypripedium reginae Meristem Culture Green Mtn Union HS
Joseph Dexter		
USAF	10	Water Works Rutland High School
Bart Buteau		
USAF	9	Optimizing Tissue Sterilization in Cypripedium reginae Meristem Culture Green Mtn Union HS
Joseph Dexter		
USAF	12	The Supercritical Brayton Cycle for Space Exploration Essex High School
Ian Rousseau		
USAF	11	Simple Green South Burlington HS
Eric Sadler		
USMA	12	The Effect of Egg Size and Catapult Elasticity on Horizontal Distance Traveled Bellows Falls UHS
Ryan Dunn		
USN (\$75)	10	Hydration: Water vs. Sports Drink South Burlington HS
Alyssa Crews		
USN (\$75)	10	The Effects of Light on the Development of Xenopus laevis South Burlington HS
Rebecca Lee		
USN (\$75)	12	The Supercritical Brayton Cycle for Space Exploration Essex High School
Ian Rousseau		
YSE	9	Tesla Coil Mount St. Joseph Academy
Brian Ribbans		