

## 2014 Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<b>Elementary Biology</b>			
Excellent	Grace Vogel	<i>Flowers and Food Coloring</i>	Garrison School
<b>Elementary Chemistry</b>			
Outstanding	Charles Blanch, Hank Goldberg	<i>How do different types of metal affect the conduction of heat?</i>	F.E. Bellows
Excellent	Mac Lake	<i>Alchemy</i>	Garrison School
<b>Elementary Earth-Space Sciences</b>			
Outstanding	Benjamin D'Amico, Dell Hallock	<i>What blade will work best in a windmill?</i>	F.E. Bellows
Outstanding	Peter Nicholas	<i>How well can a solar-powered space heater work in an un-insulated space? How long can it stay warm after sundown?</i>	F.E. Bellows
Excellent	Savanna Clarke	<i>Stalactites</i>	Rockland County Day School
<b>Elementary Engineering &amp; Technology</b>			
Outstanding	Scott Gremelsbacker	<i>Can a maglev train support weight, and does temperature affect the weight it can hold?</i>	F.E. Bellows
Outstanding	Ava Liebmann	<i>Does the size of a geodesic dome affect how much weight it can hold?</i>	F.E. Bellows
Outstanding	Tomas Struck	<i>Can you build a computer out of a television set?</i>	Garrison School
Excellent	Liam Flanagan	<i>How Far will it Fly: The Effect of Drag on a Paper Airplane</i>	Garrison School
Excellent	Charles Rowe	<i>Balloon Powered Car</i>	Garrison School
Excellent	Sofia Wallis	<i>Wind Power</i>	Garrison School
<b>Elementary Environment</b>			
Outstanding	Mickey Sivere	<i>Can I build an eco-bot that will clean a contaminated area in 2 minutes?</i>	F.E. Bellows
<b>Elementary Physics</b>			
Outstanding	Grace Gordon	<i>Super Hero Engine</i>	Garrison School
Outstanding	Linus Ringstad	<i>Testing for the fluid that transmits power best.</i>	F.E. Bellows

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<b>Middle School Biology</b>			
1**	Sana Salimi	<i>Are You Sure Your Hands Are Clean?</i>	Edgemont Jr/Sr HS
2	Dillon Robinson	<i>Can humans identify what an object is just by touching it? And if so, does wearing different thicknesses of gloves affect this ability?</i>	F.E. Bellows
3	Ankita Bhattacharjee	<i>How Does Calcium Deficiency Affect a Bone?</i>	Rye Neck Middle School
<b>Middle School Chemistry</b>			
1	Sophia Mainiero	<i>Desalination</i>	Farragut Middle School
2	Ryan Mahoney, Anthony Miller, Tom Hogan	<i>Bubbling Lamps of Lava</i>	Somers Intermediate School
3	Anna Kulapurathazhe	<i>"Which Causes Oxidation the Fastest"</i>	PEARLS
<b>Middle School Earth Sciences</b>			
1**	Brinda Rao-Pothuraju	<i>Diatom Diversity in Different Bodies of Water</i>	Edgemont Jr/Sr HS
2	William Hasapis	<i>Asteroid Mining</i>	John Jay Middle School
3	Katie Ricca	<i>Aiding in the Fight Against Global Warming: The Most Efficient Insulator</i>	John Jay Middle School
<b>Middle School Engineering &amp; Technology</b>			
1*	Varun Wadhwa	<i>The Dobsonian Telescope</i>	Rye County Day School
2	Ryan Boron	<i>Gearing up for Engineering</i>	Rye Neck Middle School
2	Abby Marx	<i>Killing Bacteria With Different Methods</i>	Edgemont Jr/Sr HS
3	Gabriel Miller	<i>How does speed affect water's ability to bend and carry light?</i>	F.E. Bellows
<b>Middle School Environment</b>			
1	William Meyers	<i>The Homopolar Motor</i>	George Fischer Middle School
2	Lucy Friedman	<i>How long does clothing infested with deer ticks need to be tumbled in a clothes dryer to ensure that all ticks are killed?</i>	F.E. Bellows
3	Jonah Feldman	<i>Five Second Rule: Safe or Sick?</i>	Edgemont Jr/Sr HS
3	Zachary James	<i>Filtration Rates of Crude Oil by Clams and Mussels</i>	Edgemont Jr/Sr HS
<b>Middle School Health &amp; Medicine</b>			
1*	Helena O'Sullivan	<i>Adapted Switch Toys</i>	George Fischer Middle School
2	Jonah Gorevic	<i>Does watching television really affect your brain?</i>	F.E. Bellows
3	Sophia DeCubellis	<i>How does Music Affect Different Types of People</i>	John Jay Middle School
<b>Middle School Math &amp; Computers</b>			
1	Naomi Young	<i>What are the most important factors that affect a 5th grader's willingness to read a book?</i>	F.E. Bellows
<b>Middle School Physics</b>			
1	Matteo Scarselli	<i>The Sun Solution</i>	Edgemont Jr/Sr HS
2	Faith Lim	<i>"Can a Coconut Produce Energy"</i>	PEARLS
<b>* Judge Edith Miller Excellence in Education Award for Top Middle School Award (Advances to Broadcom Masters competition)</b>			
<b>** Advances to Broadcom Masters competition</b>			

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AWARD	NAME	PROJECT TITLE	SCHOOL
<b>High School Biology</b>			
1	Sam Huang	<i>Design and Production of a Novel AAV9 Virus designed to Target Brain Cells for Gene Therapy</i>	Scarsdale HS
2	Samantha Hackett	<i>The Effect of Ahemeral Day Cycles on the Nutritional Content of Chicken (Gallus domesticus) Eggs</i>	Mahopac HS
3	Archana Ram	<i>Cyclin A2 Mediates Dedifferentiation and Subsequent Mitosis in Postnatal Cardiomyocytes</i>	Scarsdale HS
<b>High School Chemistry</b>			
1	Mikaela DiBello	<i>The Creation of a Better BB Crème and Conditioning Cleanser</i>	Mahopac HS
<b>High School Earth-Space Sciences</b>			
1	Rachel Hurst	<i>Star Formation as a Function of Mass</i>	Scarsdale HS
<b>High School Engineering &amp; Technology</b>			
1*	<b>Brian Becker</b>	<b>Prototype of Hybrid Electric Remote Control Scooter</b>	<b>Blind Brook HS</b>
2**	<b>Swarnav Pujari</b>	<b>Solving the Energy Crisis One Step at a Time</b>	<b>Yorktown HS</b>
3***	Adarsh Subramani	<i>Developing an Accurate, Easy-to-Use Speech Interface for Human-Robot Interaction</i>	Yorktown HS
<b>High School Environment</b>			
1**	Dylan Gambardella	<b>Evaluating the Potential and Mechanisms of Diabetes Mellitus Induction in Response to Acute Ambient Particulate Pollution Exposure</b>	<b>Hendrick Hudson HS</b>
2***	Brian Beitler	<i>Exploring An Antagonistic Relationship Between the Rhizosphere Microbe Flavobacteria johnsoniae 4a and the Plant Pathogen Pythium ultimum</i>	Scarsdale HS
2***	Jason Toporoff	<i>Solar Disinfection: The Risk of Recontamination After Exposure to Ultraviolet Light</i>	Yorktown HS
<b>High School Health &amp; Medicine</b>			
1***	Amanda Lombardo	<i>The Effect of Specific Inflammatory Mediators on the Synovial Fibroblast Activity</i>	Yorktown HS
2***	Brett Bell	<i>Angiopoietin-1 and GM-CSF in Mitigating Radiation-Induced Gastrointestinal Syndrome</i>	Pelham Memorial High School
3	Emily Pathil	<i>A Controlled Study of Gabapentin: Effects on Cannabis Use, Withdrawal and Executive Function Deficits in Cannabis-Dependent Adults</i>	Lakeland HS
3	Jordan Tessler	<i>The Dietary Impact on Asthma Severity</i>	Yorktown HS
<b>High School Math &amp; Computers</b>			
1	Mihir Paradkar	<i>A Theory of Moves Method of Analyzing the Drug Problem in Afghanistan</i>	Lakeland HS
<b>High School Physics</b>			
1***	Silas Grossberndt	<i>The Creation of a Signal Plot for for the 125.3 GeV Higgs boson in Z gamma decay</i>	Fox Lane HS
2	Ilan Filonenko	<i>Piston-Assisted Proton Pumping in Complex I of Mitochondria Membranes</i>	Edgemont HS
3	Hunter Greenhill	<i>The Efficiency of a Photovoltaic Cell at Different Wavelengths.</i>	Rye Neck HS
<b>High School Psychology</b>			
1***	Brett Pogostin	<i>Alexithymia and The Perception of The Emotional Experiences of Others</i>	Scarsdale HS
2	Claudia Laurie	<i>Using behavioral economics to address the underlying issue of over-servicing in the U.S. healthcare system</i>	Scarsdale HS
3	Mark D'Alesio	<i>Music &amp; Memory: The Effect of Familiar Music on Memory Retrieval in Participants with Dementia</i>	Yorktown HS
<b>* Marilyn Reiner Science in Education Award for Top High School Award (Advances to State Level Competition)</b>			
<b>** Advances to the State Level Competition - NYS Science Congress</b>			
<b>*** Alternate for Science Fair Congress</b>			