

## 18th Annual Tri-County Science + Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>Elementary School Biology</i>			
Outstanding	Tiffany Pimentel	<i>How Does Salt effect Plant Cells</i>	St. Ann's Parish School
Outstanding	Shoshanna Victor	<i>Can you tell a Genuine from a Fake Smile?</i>	F.E. Bellows Elementary School
Outstanding	Zoel Boubllil	<i>Capillary Action</i>	Garrison School
Excellent	Sophia Gallo, Jiana Rojas	<i>How Does a Chick Breathe in it's Shell?</i>	Pennington Grimes School
Excellent	Young Min Kim	<i>Word Power</i>	Rockland Country Day School
<i>Elementary School Chemistry</i>			
Outstanding	Julian Allison	<i>Can Food Generate Energy to Light a Lightbulb</i>	F.E. Bellows Elementary School
Outstanding	Olivia Astrologo	<i>The Absorbency of Diapers</i>	St. Columbanus School
Excellent	Samantha Barber	<i>Soda Geyser</i>	Garrison School
Excellent	Eric Quarato	<i>Paper Towel Absorbency</i>	St. Columbanus School
Excellent	Savonna Rivera	<i>How Can You Peel A Raw Egg?</i>	St. Ann's Parish School
Excellent	Gianna Torres	<i>Blow Up Balloon</i>	St. Ann's Parish School
<i>Elementary School Environment</i>			
Outstanding	Jennifer Hidalgo	<i>Oil Spill Clean Up Solution</i>	St. Ann's Parish School
Outstanding	Julia Welty	<i>Which Banana Will Rot Faster-Organic or Regular?</i>	F.E. Bellows Elementary School
Excellent	James Gallo	<i>Water Penetration</i>	Pennington Grimes School
<i>Elementary School Physics</i>			
Outstanding	Peter John Champers	<i>Just Keep Cool</i>	St. Ann's Parish School
Outstanding	Julia Costa	<i>Rubber Band Tension</i>	St. Ann's Parish School
Outstanding	Cara Dennehy	<i>Does the Shape of an Ice Cube Affect how Quickly it Melts?</i>	St. Columbanus School
Outstanding	Charlotte Murphy	<i>What Happens When Different Tunes are Played on the Head of a Drum?</i>	F.E. Bellows Elementary School
Excellent	Brendan Dwyer	<i>Under Pressure</i>	Pennington Grimes School
Excellent	Jalen Leach	<i>Air Pressure and Balls</i>	Rockland Country Day School
Excellent	Solara McKee	<i>What Forces Make Craters</i>	Garrison School
Excellent	Stephen Suits	<i>Current through Different Sized Wires</i>	Garrison School
Excellent	Rafael Zyngier	<i>Can a Spinning Bicycle Wheel Create Enough Power to Move Objects?</i>	F.E. Bellows Elementary School
<i>Elementary School Earth Sciences</i>			
Excellent	Colin Kelley	<i>What Affects the Evaporation of Water</i>	F.E. Bellows Elementary School
Excellent	Cory Garcia	<i>Solar-Eclipse</i>	Pennington Grimes School
Excellent	Sara Markley	<i>Creating Craters</i>	St. Columbanus School
<i>Elementary School Engineering &amp; Technology</i>			
Outstanding	Garret Tanis	<i>Slumberhelm</i>	Rockland Country Day School
Excellent	Mya Smith	<i>Electricity from Wind</i>	St. Ann's Parish School
Excellent	Arthur Garnier	<i>Does an Electrical Motor Produce Electricity When Turned by Hand?</i>	F.E. Bellows Elementary School
Excellent	Bryanna Paulus	<i>Making Connections</i>	St. Ann's Parish School

## 18th Annual Tri-County Science + Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>Middle School Biology</i>			
1	Emily Goldberg, Ryann Malsbury	<i>Pop Rocks Science</i>	Somers Intermediate School
2	Melissa Martin, Kelly Ryder	<i>Secret to Effectively Studying</i>	George Fischer Middle School
2	Emmanuelle Palikuca	<i>Reaction Time</i>	Garrison School
3	Jeff Joseph, Sooraj Nair	<i>Dicots V.S. Monocots</i>	Pearls Hawthorne
<i>Middle School Chemistry</i>			
1	Stephen Eng, Charles Lian	<i>Electrolytes/Which Beverage has the most?</i>	Pearls Hawthorne
2	Elizabeth Trifone	<i>The Wild, Wild West</i>	St. Columbanus School
3	Annemarie Altomare, Margaret McNiff, Veronica Rizzuto	<i>What's The Best Way to Get Gum out of Your Hair?</i>	St. Theresa School
<i>Middle School Earth Sciences</i>			
1	Mica Linz	<i>Fossil Hunting in New York State</i>	John Jay Middle School
2	Shiuansh Goyal	<i>Science Behind Tsunami</i>	St. Ann's Parish School
3	Allie Liebmann	<i>Does Unpacked Snow Melt Faster than Packed Snow?</i>	F.E. Bellows Elementary School
<i>Middle School Engineering &amp; Technology</i>			
1	Jared Ortega	<i>100 20 Compostable Toothpaste Tube</i>	George Fischer Middle School
2	Sergio Zygmunt	<i>Wii Remote Smart Board</i>	George Fischer Middle School
3	Aaron Bailey	<i>Washing Effects on Flame Retardant Material</i>	St. Columbanus School
3	Sophie Gibson, Rachel Rubin	<i>Distracted Driving..Safe or Not?</i>	F.E. Bellows Elementary School
3	Cecly Hill	<i>What Design makes a better sewer grate?</i>	Pearls Hawthorne
<i>Middle School Environment</i>			
1	Zury Cutler	<i>Bionic Hand</i>	John Jay Middle School
2	Aasta Gandhi	<i>Effect of Grey Water on Red Worms</i>	Edgemont Jr High School
3	Evan Rocco	<i>Should We let it Snow?</i>	Rockland Country Day School
<i>Middle School Math &amp; Computers</i>			
1	Amber Yang	<i>Programming with Scratch</i>	Rye Neck Middle School
2	Olivia Beach	<i>Who has a Better Visual Memory, Boys or Girls?</i>	F.E. Bellows Elementary School
3	Will Youmans	<i>Multitasking</i>	Rockland Country Day School
<i>Middle School Physics</i>			
1	John Swartzwelder	<i>Best Insulators</i>	Garrison School
2	Teddy Kim	<i>Too Cold to Freeze the MPEMBA Effect</i>	Pearls Hawthorne
3	Caroline Kimmel	<i>Measuring the Effect of Mass on Snow Friction</i>	Rye Country Day School

**\* Judge Edith Miller Excellence in Education Award for Top Middle School Award**

## 18th Annual Tri-County Science + Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>High School Biology</i>			
1	Claire Yost	Analyzing the Activation of the Inhibitory Sites using HLAC Proteins with Differing Binding Patterns to LIR-1 and KIR2DS2	Pelham Memorial High School
2	Juliana Vigorito	Understanding the Mechanisms of Parkinson's Disease: Identification of K-ATP Channels in Striatal Dopaminergic Axons	Yorktown High School
3	Alyson Favilla	Testosterone Terminates the Critical Learning Period and Compromises song stereotyping in Zebra Finches	Scarsdale High School
<i>High School Chemistry</i>			
1	Victoria Nadile	Synthesis of Ion Oxide Catalysts and Comparison of Different Separation and Dessiccation Methods for Use in Synthetic Fuel Reactions	Sleepy Hollow High School
2	Ha Yoon Yang	Development of a High Throughput Method to Examine Protein Surface Assessibility for Improving De Novo Protein Structure Prediction	Pelham Memorial High School
3	Juno Pinder	Screening for a Temperature-Sensitive I-SceI Endonuclease Mutant	Pelham Memorial High School
<i>High School Earth-Space Sciences</i>			
1	Luke Nolan	Using Trends on Sunspots to Predict Flares	Yorktown High School
2	Samuel Nadell	Analysis of Seismic Activity and Hydrothermal Vent Temperature along the East Pacific Rise Using two Ocean Bottom Seismometers	Lakeland High School
3	Brandon Salerno	The Mysterious Eclipsing Binary Star System: epsilon Aurigae	Eastchester High School
<i>High School Engineering &amp; Technology</i>			
1	Giancarlo Paternoster	Mountain Bicycle Suspension Platforms	Scarsdale High School
2	Jayanth Krishnan	Regulatory Signatures Inferred from Expression Data	Mahopac High School
3	Spencer Lee	Recovering Lost Energy from a Combustion Engine through Heat Exchange	Scarsdale High School
<i>High School Environment</i>			
1	Troy J. Hugick	Winds of Change: Urban Wind Turbines	Walter Panas High School
2	Jacqueline Koo	The Accuracy and Improvement of iNEd: A Minke Whale Vocalization Detector	Scarsdale High School
2	Miwa Wenzel	The Distribution and Co-Occurrence of <i>E. Bislineata</i> and <i>B. Stricta</i> in Freshwater Streambeds	Yorktown High School
3	Jesse Cole	The Insulative Properties of Bird's Nests	White Plains High School
<i>High School Health &amp; Medicine</i>			
1	Sahil Lalwani	Preference of Reverberation in Music by Normal Hearing Individuals and Simulated Cochlear Implants	Scarsdale High School
2	Evin Feldman	Pathogenesis and Molecular Mechanism of Spondyloarthropathies	White Plains High School
3	Stephen Anderson	Examining the Effects of Huntington's Disease on Behavior in <i>Drosophila melanogaster</i>	Yorktown High School
<i>High School Physics</i>			
1	Matthew Brennan, Daniel Young	Effects on the speed of light different mediums	Rye Neck High School
<i>High School Psychology</i>			
1	Radhika Rastogi	The Association of Music with Stress, Test Anxiety and Test Grades Among High School Students	Scarsdale High School
2	Joshua Schaffer	The Effect of Visual Cues on Ethanol Preference in <i>Drosophila</i>	White Plains High School
3	Laura Anderson	Effect of Group Therapy on Communication in Aphasia: A Pilot Study	Yorktown High School

\* Marilyn Reiner Science in Education Award for Top High School Award (Advances to State Level Competition)

\* Advances to State Level Competition