

## 2015 Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>Elementary School Biology</i>			
Outstanding	Mirabelle Brown	<i>Do your height and weight affect your speed?</i>	F.E. Bellows
Excellent	Ethan Felenstein	<i>The Greasiest Chip</i>	F.E. Bellows
Excellent	Talia Leach	<i>Fruit DNA</i>	Rockland Country Day School
Excellent	Lola Leach, Lila Hely	<i>The Strongest Hair</i>	Rockland Country Day School
Excellent	Caroline Nelson, Grace Vogel	<i>How Good is your Memory?</i>	Garrison School
Excellent	Chase Nugent	<i>Power Plants</i>	Garrison School
<i>Elementary School Chemistry</i>			
Outstanding	Teresa Li	<i>Crystal Chemistry</i>	PEARLS
Outstanding	Jasmine Wallis	<i>Cabbage Chemistry</i>	Garrison School
<i>Elementary School Engineering &amp; Technology</i>			
Outstanding	Nathalia Evelyn	<i>Alternative Power</i>	PEARLS
Outstanding	Russell Foster	<i>Can static electricity light a light bulb?</i>	F.E. Bellows
Outstanding	Jacob Kasanin	<i>Are you really saving time if you text while walking?</i>	F.E. Bellows
Excellent	Patrick Clements	<i>Does the shape of a car effect its speed?</i>	Garrison School
Excellent	Keegan Hess	<i>Bridge Building</i>	PEARLS
<i>Elementary School Environment</i>			
Outstanding	Cristopher Altomare	<i>Go Eco Friendly with Seed Paper</i>	Family School 32
<i>Elementary School Health &amp; Medicine</i>			
Outstanding	Lillian Clements	<i>Do gluten free foods taste different?</i>	Garrison School
Outstanding	Morgan Mask, Lyniah Gethers	<i>The Effects of Liquids on Beaver and Nutria Teeth</i>	PEARLS
<i>Elementary School Math &amp; Computers</i>			
Outstanding	Kay Nitta	<i>How does a pendulum clock work?</i>	F.E. Bellows
<i>Elementary School Physics</i>			
Outstanding	Grace Gordon	<i>Incredible expanding ice experiment</i>	Garrison School
Outstanding	Gabriella Messina	<i>Bellows Jumps: Who can jump the highest?</i>	F.E. Bellows
Excellent	Phelan Waldron	<i>A Cup Full of Science</i>	Garrison School
Excellent	Luke West, Ronan West	<i>What is the fastest sled for sledding on snow?</i>	F.E. Bellows

## 2015 Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>Middle School Biology</i>			
1**	Nicholas Sanchez	<i>Is Your Brain Playing Tricks on You</i>	PEARLS
2	James Lucassen	<i>Music for your Mind</i>	John Jay Middle School
3	Tommy O'Rourke	<i>The Radiation Effect</i>	George Fischer Middle School
<i>Middle School Chemistry</i>			
1*	Rebecca Sam	<i>Crime Scene Chemistry</i>	PEARLS
2	Benjamin D'Amico	<i>During the electrolysis of water, which electrolyte conducts electricity the best?</i>	F.E. Bellows
3	Kyle Spencer	<i>Turning Leftover Starches into Ethanol</i>	Rye Neck Middle School
<i>Middle School Earth Sciences</i>			
3	Benjamin DeFeo, Patrick Marzella	<i>Can Crusher</i>	Somers Intermediate School
<i>Middle School Engineering &amp; Technology</i>			
1**	Zachary Goldstein	<i>A Spotlight on Solar Panel Science</i>	Edgemont Jr/Sr HS
2	Kathleen O'Sullivan	<i>Digital Cameras Exposed</i>	George Fischer Middle School
3	Taiis Messado, Claire Ponnaiya	<i>Advantages of a Bathing Suit</i>	St. Augustine
<i>Middle School Environment</i>			
2**	Ida Henriksson, Ema Jovanovic	<i>Bioremediation of Oil Spills</i>	Rye Neck Middle School
2	Naomi Young, Lucy Friendman	<i>Water Quality in the Long Island Sound</i>	Rye Neck Middle School
3	Peter Nicholas	<i>Can the xylem from a tree branch be used to filter bacteria from water to make it safe to drink?</i>	F.E. Bellows
<i>Middle School Health &amp; Medicine</i>			
2	Helena O'Sullivan	<i>Delayed Timer</i>	George Fischer Middle School
3	Beatrice Maron-Schaeffer, Stephanie Li	<i>The Stroop Effect</i>	PEARLS
<i>Middle School Math &amp; Computers</i>			
3	Julianna Schalkwyk	<i>A Study of Food Chains and the Impact of Human Activity</i>	Edgemont Jr/Sr HS
<i>Middle School Physics</i>			
1**	Carleigh Carbonaro, Alicia Hawkins, Elizabeth Bateman	<i>Speed of Sound</i>	Somers Intermediate School
2	Swaneet Jha	<i>Milk is Full of Energy</i>	PEARLS
3	Sophia Maron-Schaeffer	<i>Can an Egg Float in Salt Water</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>			

## 2015 Tri-County Science & Technology Fair Award Winners

AWARD	NAME	PROJECT TITLE	SCHOOL
<i>High School Biology</i>			
1***	Samuel Lewis	Activation of Pro-inflammatory Genes Suggests Pathogen-Associated Molecular Pattern (PAMP) Component in <i>Giardia Lamblia</i> Recognized by the Murine Innate Immune System	Edgemont HS
2	Elise Briody	Generating fluorescent motor neurons to study differential sensitivity to amyotrophic lateral sclerosis-induced neurodegeneration	Byram Hills HS
2	Angelica Duque	The Behavioral Effects of Anthropogenic Noise in Goldfish ( <i>Carassius auratus</i> ) in Regard to Temporary Threshold Shift	White Plains HS
3	Jacqueline Brown	Ube3A Up-Regulation Using the CRISPR System: A Potential Treatment for Alzheimer's Disease	Edgemont HS
3	Meera Kumanan	The De-differentiation of Smooth Muscle Cells to Mesenchymal Stem Cells in Atherosclerosis	Yorktown HS
<i>High School Chemistry</i>			
3	Victoria Peechatt	Maximizing the Performance of Surfactants in Hand Dish Wash Liquids. The Creation of a Cheaper, better, and Safe Formulation	Mahopac HS
<i>High School Earth-Space Sciences</i>			
3	Julianna Christopoulos	Tornado Debris Characteristics and Trajectories During the 27 April 2011 Super Outbreak as Determined Using Social Media Data	Lakeland HS
<i>High School Engineering &amp; Technology</i>			
2	Cayla Hamann	Unlocking efficiency improvements in Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) photovoltaics by understanding non-uniformity	Yorktown HS
2	Evan Murphy	ODO: Optical Data Overlay	Rockland Country Day School
3	Jennifer Jasne	A method for a post-production wind-resistance reinforcement for a standard umbrella	White Plains HS
3	Andrew Levin	Passive Bimetallic Solar Tracker for Photovoltaic Applications	Yorktown HS
<i>High School Environment</i>			
1	Annabelle Stanley	The Effect of Triclosan, a Personal Care Product, on Freshwater on Different Types of Lakes	Scarsdale HS
2	Luke Briccetti	The Effects of Invasive Crayfish on Leaf Decomposition and Water Quality	Yorktown HS
2	Lakshmi Mahajan	Statistical Analysis of Soil Moisture and Tree Canopy Cover in an Urban Watershed Using iTree Canopy and ArcGIS	Ardley HS
3	Signe Forsingdal	The Effect of Habitat Fragmentation on the Movement of <i>Eurycea bislineata</i>	Scarsdale HS
<i>High School Health &amp; Medicine</i>			
1**	Jazz Munitz	Microfluidics-Facilitated Synthesis and Characterization of Apoptosis- Inducing Low-Cost Nanoparticles for Cancer Therapeutics	Hendrick Hudson HS
1***	Nadia Riverso	The Role of Hashimoto's Thyroiditis in the Molecular Pathogenesis of Thyroid Cancer	Edgemont HS
2***	Ariana Bitton	Efficient Zr <sup>89</sup> Radiolabeling of MUC16 Antibody for ImmunoPET	Blind Brook HS
3***	Lindsay Aldrich	Exploring Mouse Complement Activity: Dry Age-related Macular Degeneration Mouse Model	Yorktown HS
<i>High School Math &amp; Computers</i>			
1*	Mounica Kamesam	Developing an Automated Data Integration Strategy to Improve Breast Cancer Classification	Yorktown HS
2	Brian Poor	On the Construction of Three Dimensional Fate Maps for Cell Lineage	Fox Lane HS
3	Ari Fay	Who Likes Whom? Creating a System to Automatically Evaluate the Sentiment of Character Relationships in Film	John Jay HS
<i>High School Psychology</i>			
1**	Mark Baker	Sobriety Success in Adolescents and Adults Who Voluntarily Completed a Family Program	Mahopac HS
1***	Kevin Carroll	Effect of Parental Behaviors on Parent-Child Relationship in Children on the Autism Spectrum	Yorktown HS
2***	Pradeepa Krish	The Effects of Stress and Motivation on Academic Performance	Yorktown HS
3	Esther Ritchin	The Effect of Television Watching and Physical Activity on Happiness Levels in Adolescents	White Plains HS
* Marilyn Reiner Science in Education Award for Top High School Award (Advances to State Level Competition)			
** Advances to the State Level Competition - NYS Science Congress			
*** Alternate for Science Fair Congress			