



TRI COUNTY SCIENCE & TECHNOLOGY FAIR

PUTNAM < > WESTCHESTER < > ROCKLAND

Organized by *The Putnam Children's Discovery Center, Inc.*

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ANNOUNCING THE 2006 TRI COUNTY SCIENCE & TECHNOLOGY FAIR WINNERS

The Putnam Children's Discovery Center, located at 854 Route 6 Mahopac, New York completed it's thirteenth annual **TRI COUNTY SCIENCE & TECHNOLOGY FAIR** held on Saturday April 29, 2006 at The Kennedy Catholic High School Route 138 Somers, NY. Seventy three (73) awards were given out across the divisions -- elementary; middle school and high school. There were almost 200 participants. The Judge Edith Miller Excellence in Education, for the best exhibit in middle school went to Max Siegel of John Jay Middle School. The Marilyn Reiner Science in Education Award for the top high school score went to Alex Capecelatro from Brewster HS. To learn more or to compete in the Tri County Science & Technology Fair visit www.DiscoveryCtr.org or call (845) 621-1260. Next year's fair will be April 21, 2007.

The Fair was produced with corporate sponsorship: Grand Sponsors: Philips Research, Consumers Reports Industrial Theatre (NYC) and the Judge Edith Miller Excellence in Education Fund, additional funds were received from Hudson Valley Truck Center, Hudson Valley Council of Technical Societies, Science Teachers Association of NYS and several of the participating schools making a donation. The Fair is done with cooperation from Hudson Valley Council of Technical Societies, Science Teachers Association of NYS and the many volunteers from The Putnam Children's Discovery Center.

The top nine High school winners doing individual research were invited to compete at the Westchester Section Science Congress held in the afternoon. Three of the nine will be selected to represent Science Teachers Association Westchester Section in the NYS Science Congress in May. The nine students who went on to the afternoon session competition were:

Chrissy	Mathew	Translational Effects of Neonatal Seizures on the Hippocampus	Edgemont Jr./Sr. High School
Elizabeth	Baseman	Effect of Environmental Disaster of Predator-Prey System Stability	Brewster High School
Daniel	Rodriguez	A Momentum Exchange Tether for the Mitigation of Geosynchronous Space Debris	Lakeland High School
Wudan	Yan	How Many Computers are Required to Break . SHA-1?	Yorktown High School
Sainatee	Suarez	Exact Results For A Cyclic N-Electron System Described By the Hubbard Hamiltonian	Edgemont Jr./Sr. High School

Alex	Mcle	Identifying a Correlation Between Music and Basic Math Skills	Brewster High School
Alex Rachel	Capecelatro Pian	Nanoengineering Aerogel for Insulin Insulation Environmental Sensitivity of Coliform and Enterococcus Bacteria	Brewster High School Yorktown High School
Srikanth	Iyer	Experimental determination of the barrier height of a low dielectric constant carbon-doped oxide film through spectroscopic photoconductivity measurements	Horace Greeley High School

First Place High School

Chrissy	Mathew	Translational Effects of Neonatal Seizures on the Hippocampus	Edgemont Jr./Sr. High School
Elizabeth	Baseman	Effect of Environmental Disaster of Predator-Prey System Stability	Brewster High School
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Alex	Mcle	Identifying a Correlation Between Music and Basic Math Skills	Brewster High School
Alex	Capecelatro	Nanoengineering Aerogel for Insulin Insulation	Brewster High School

Second Place High School

Luccie	Wo	The Role of Cytoplasm in Fertility . The effects of PADI6 in Murine Oocyte Morphology	Yorktown High School
Luke	Novak	Testing the effects of after market performance parts on fuel economy	Yorktown High School

Third Place High School

Steven	Noll	Hartree-Fock Calculations for a Spherically Confined Hydrogen Molecule: Application to the Metallic Hydrogen Problem	Edgemont Jr./Sr. High School
Dorothy	Klein	Comparing the Germination Response Rates of Larreatridentata and Heliathus Maximillion using Various Germination Cues	Brewster High School
Nikolai	Rakhilin	The Triple Troponin Threat . The Key to Muscle Atrophy	Yorktown High School
Michael	Rothschild	Intravitreal Triamcinolone Acetonide and its Effects on Intraocular Pressure and Visual Acuity in Patioents With Diabetic Retinopathy . A Retrospective Study	Edgemont Jr./Sr. High School

First Place Middle School

Claire	Nelson	Heartfelt Movies	Edgemont Jr./Sr. High School
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Chrisiana	Stebe Glorious	Homemade plastics biodegradeability	Garrison School
Sarah Alexander	Friedhoff Weig	Resistance is Futile How Is Heat Conducted By The Colors Of Light?	Rockland Country Day School St. Joseph's School
Scott Daniel	Haber Young	Wat U Say How do polarizing filters work?	John Jay Middle School Rye Neck Middle School
Max	Siegel	Show Me the Money: A Scientific Approach to Investing	John Jay Middle School

Second Place Middle School

Priscilla Chelsea	Andalia Decaminada	How Sunscreen Works How Can I Affect the Characteristics of an Elastomer by Changing Its Properties?	George Fischer Midle School John Jay Middle School
Tate	Higgins	What alternative energy source can help conserve energy?	Rye Neck Middle School
Andrew	Xanthos	How Does Acidity Affect The Freezing Rate of Liquids?	The Melrose School
Lauren Billy Sasha	Tomasulo Schneider Kleszy	How Do Cochlear Implants Work? Are Bubbles Really Related to Math? ZZZZap. Which material generates the most static electricity?	The Melrose School George Fischer Middle School Garrison School
Mark Zachary	Sabbas Kutik	Vibrations Through Solids Hamster Power	John Jay Middle School The Harvey School

Third Place Middle School

Anne Matt Benjamin	Burns Sickles Chang	How Does Seed Affect Growth? What fruit carries an electric charge? The Effect of Varying Amount of Radiation on Plants	St. Joseph's School Rye Neck Middle School Edgemont Jr./Sr. High School
A.J. Mary John Alyssa Kimberly Reiner	Rella Falcigno Azznara Trombitas Bruenn Eenkema van Dijk	Googol, Googol Plex and Infinity Electromagnets Is the iron in cereal really iron? Space and Seed Growth Which Colored Light Produces the Most Electricity How do keels affect how fast a boat moves?	George Fischer Middle School St. Ann's Garrison School The Harvey School St. Joseph's School Rye Neck Middle School

Excellent Elementary Awards

Amalia James Nicholas Timothy Nathaniel	Rubino Thompson Constantino Lin Giess	Do Crystals Grow in Specific Geometric Shapes? Crystals Kids, Candles and Their Stuff Donq Mix! How to Clean Coins How Long Does it Take Food to Spoil without Electricity?	Rockland Country Day School Pennington Elementary St. Joseph's School PEARLS Hawthorne F.E.Bellows
John Amanda Kaleigh Michael Hanna Michael	Swartzwelder Ospina Ryan Burns Uhfelder Caruso	Oil Slick Problem with Pollution Does Color Affect Plant Growth? How Does Light Affect Ecosystem Growth? Do Different Fruits Have the Same DNA? Fingerprinting	Garrison School PEARLS Hawthorne St. Joseph's School The Melrose School F.E.Bellows PEARLS Hawthorne

Zachary Sidney Sean Noah	Esseili Tray Durkin Campbell	Fingerprinting How Bright Is Light How do Computers Work How does changing a paper airplane parts change its flight?	PEARLS Hawthorne St. Ann's Pennington Elementary Garrison School
Zachary Rachel Allison Mikayla Alexa	Paul Grabowski Devaney DiNapoli DiNapoli	Surface Tension on Power Boats Is Air Lighter than Water? Electromagnet Jumping Frogs Jumping Frogs	PEARLS Hawthorne St Columbanus School St. Joseph's School Pennington Elementary Pennington Elementary

Outstanding Elementary Awards

Molly Joshua	O'Shea Charles	What is the Effect of Sunlight on Leaves? How Do Additives Affect the Growth of Micro Organisms	F.E.Bellows PEARLS Hawthorne
Emily Savanah Tiffany Johanna Gaurav Isabella Russell	Quarto Catucci Brand Dashman Thakur Benjamin Cox	Memories Yuk! What's That On My Bread? Lung Capacity Does Size Matter in Seed Germination Vitamins and Minerals Nails for Breakfast How well do different brands of dish detergent really clean?	St Columbanus School St. Joseph's School The Melrose School St. Ann's The Melrose School St. Ann's Garrison School
Kieran Christian	Minor Ouellette	Does Music Affect Plant Growth? Taming Earthquakes: Designing a Survivable Structure	The Melrose School The Melrose School
Lucas Erik	Vieira Hanson	The Effect of Video Games on Heart Rate? What is the Effect of Mass and Steepness of a Slope on the Outcome of a Collision?	The Melrose School F.E.Bellows