



TRI COUNTY SCIENCE & TECHNOLOGY FAIR

PUTNAM < > WESTCHESTER < > ROCKLAND

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

A not for profit organization per 501 (c) 3

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ANNOUNCING THE 2007 WINNERS of the TRI COUNTY SCIENCE & TECHNOLOGY FAIR

The Putnam Children's Discovery Center, located at 854 Route 6 Mahopac, New York completed it's fourteenth annual **TRI COUNTY SCIENCE & TECHNOLOGY FAIR** held on Saturday April 21, 2007 at The Kennedy Catholic High School Route 138 Somers, NY. Eighty Seven (87) awards were given out across the divisions -- elementary; middle school and high school. There were over 200 participants. The Judge Edith Miller Excellence in Education, for the best exhibit in middle school went to Chelsae Decaminada from John Jay Middle School. The Marilyn Reiner Science in Education Award for the top high school score went to Luccie W from Yorktown HS. To learn more or to compete in the Tri County Science & Technology Fair email JNewman@DiscoveryCtr.org or call (845) 621-1260. Next year's fair will be April 12, 2008.

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 Council of Technical Societies, Science Teachers Association of NYS and several of the participating schools making a donation. Special thanks to Dunkin Donuts & Sweet Delites Pastry Shop (Somers). 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 scores doing individual research were invited to compete at the Westchester Section Science Congress held in the afternoon. Judith Swanson (STANYS) and a team of judges selected three of the nine, (highlighted) to represent Science Teachers Association Westchester Section in the NYS Science Congress in June. The nine students who went on to the afternoon session competition were:

AFTERNON SESSION

Alexandria	Ocasio-Cortez	The Effects of Antioxidants on Lifespan Using the C.elegans Model	Yorktown HS
Nikolai	Rakhilin	Muscular Dystrophy: Is the Protein TRIM32 to Blame?	Yorktown HS
Wudan	Yan	How Many Computers Are Required to Break SHA-1? A Study of the Secure Hash Algorithm-1 and Parallelism	Yorktown HS
Luccie	Wo	Can a Protein Determine Your Existence? PAID6 - a Novel Maternal Effect Gene	Yorktown HS
Rebecca	Glass	The Effect of Exercise on Developmental Stuttering	Yorktown HS
Alexandra	Mcle	Integrating Hirudin from Hirudo medicinalis into an Anticoagulative Medication for Equus arballus	Brewster HS
Thanases	Plestis	Development of an Experimental Model to Assess Type I Endoleak	Edgemont Jr/Sr HS
Fiorella	Villar	Characterization of the Tissue Distribution of the Three Splicing Variants of the LAMP-2 GENE	Eastchester HS
Joseph	Weissbrot	Identification of ERI-Interacting Proteins	Edgemont Jr/Sr HS

2007 Tri County Science & Technology Fair Winners

MARILYN REINER EXCELLENCE IN SCIENCE AWARD

over all top score on the high school level

Luccie	Wo	Can a Protein Determine Your Existence? PAID6 - a Novel Maternal Effect Gene	Yorktown HS
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JUDGE EDITH MILLER EXCELLENCE IN EDUCATION AWARD

over all top score on the middle school level

Chelsea	Decaminada	Catalysis Using Enzymes in Pineapple	John Jay MS
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HIGH SCHOOL FIRST PLACE

Engineering Technology	Michael	Acampora	The Effects on Nylon as a Body Armor when Impregnated with a Gel	Somers HS
Chemistry	Daniel	Black	Prolytic Synthesis of Carbon Nanotubes Using Propane and Fe, Ni, and Co Catalysts Deposited on Sapphire	Brewster HS
Psychology	Rebecca	Glass	The Effect of Exercise on Developmental Stuttering	Yorktown HS
Environment	Gregory	Sherrid	A Comparison of Marine Growth on a Variety of Coated Surfaces in Long Island Sound	Rye Neck HS
Biology	Luccie	Wo	Can a Protein Determine Your Existence? PAID6 - a Novel Maternal Effect Gene	Yorktown HS
Math / Computers	Wudan	Yan	How Many Computers Are Required to Break SHA-1? A Study of the Secure Hash Algorithm-1 and Parallelism	Yorktown HS

MIDDLE SCHOOL FIRST PLACE

Earth / Space	Renier	Eenkema van Dijk	What Are the Effects of Different Kinds of Insulation on Heat Retention?	Rye Neck MS
Physics	Jimmy	Espinoza	Magnetic Fields	St. Ann's School
Biology	Sarah	Friedhoff	Eat This?	Rockland Country Day School
Engineering Technology	Zachary	Pozniak	Infinite Solar Furnace	John Jay MS
Math / Computers	Alorah	Saffran	Death:The Middle Schooler's Response	Rockland Country Day School
Environment	Bryn	Seltzer	Water Quality	The Harvey School
Chemistry	Chelsea	Decaminada	Catalysis Using Enzymes in Pineapple	John Jay MS

HIGH SCHOOL SECOND PLACE

Engineering Technology	Daniel	Capo	Investigating Inner-Shell Structures of Multi-Walled Carbon Nanotubes	Sleepy Hollow HS
Biology (Tied)	Alexandra	Mcle	Integrating Hirudin from Hirudo medicinalis into an Anticoagulative Medication for Equus arballus	Brewster HS
Psychology	Dana	Molloy	Socioeconomic Status: Can It Influence Anxiety and Nightmare Frequency in School Children?	Eastchester HS
Math / Computers (Tied)	Bartholomew	Moore	Macromolecular Physics Simulation via Applied Particle Physics	Yorktown HS
Biology (Tied)	Thanases	Plestis	Development of an Experimental Model to Assess Type I Endoleak	Edgemont Jr/Sr HS
Environment	John	Sa	Competition between Tyrosine and Alkylphenol in Lobster Shell Sclerotization	Scarsdale HS
Chemistry (Tied)	Matthew	Silverstein	The Measurement of Hemoglobin A1c in Blood Samples where Hemoglobin Variants C and S Are Present	Yorktown HS
Chemistry (Tied)	Julia	Tartaglia	Characterization of O-glycans in IgA1 of IgA Nephropathy Patients	Rye Neck HS
Math / Computers (Tied)	Antonios	Tavlarakis	Anti-HIV Computer Drug Design Using the Linear Interaction Energy Approximation	Horace Greeley HS

MIDDLE SCHOOL SECOND PLACE

Physics	Samisha	Bansal	Mirror Magic	Rye Country Day School
Environment (Tied)	Jacqui Dangio	& Teri Elwood	Effects of Acid Rain on Plants	George Fischer MS
Biology (tied)	Stephanie	Kligman	Which Mouthwash Is Most Effective in Killing the Most Bacteria?	Rye Neck MS
Environment (Tied)	Roshan	Nair	How Environmental Conditions Affect Operant Conditioning	PEARLS MS
Chemistry	Akshara	Narsipur	Carbon Footprint	St. Ann's School
Earth / Space	Nicky	Rocco	Mechanics of Tsunamis	Rockland Country Day School
Biology (tied)	Alexander	Weig	Soap and Germs	St. Joseph's School
Engineering Technology	Carly	Zelenetz	Carly's Color Changing Beads	Edgemont Jr/Sr HS

HIGH SCHOOL THIRD PLACE

Environment	Suzanne	Clinchy	The Replacement of Platinum Catalysts with Gold in a Fuel Cell	Somers HS
Engineering Technology	Paul	DiMiceli	The Design and Development of an Adaptive Algorithm for In-Vehicle Route Guidance	Somers HS
Math / Computers	Chris	Kim	Chaotic Inputs in a Simulated Neural Network	Eastchester HS
Psychology	Emma	Nechamkin	Prevalence of ADHD in 1st Degree Relatives of Autistic Children	Scarsdale HS
Chemistry	Levar	Thomas	Battle of the Biodiesels	Ramapo Sr HS
Biology	Fiorella	Villar	Characterization of the Tissue Distribution of the Three Splicing Variants of the LAMP-2 GENE	Eastchester HS

MIDDLE SCHOOL THIRD PLACE

Environment	Sarah	Albala	Don't Let the Bugs Bite	John Jay MS
Engineering Technology (Tied)	Chloe	Hirsch	Different Types of Music on Work	Edgemont Jr/Sr HS
Chemistry	Adam	Kapilow	Fast Food vs. Regular Food	Rockland Country Day School
Earth / Space	Meagan	Kendrick	I Feel So Bloated (Water Retention in Soil)	The Melrose School
Physics	Marissa Larkin	& Anthony Larkin	Anti-Bubbles	George Fischer MS
Biology (Tied)	Jake	Miller	The Microscopic World	Rockland Country Day School
Engineering Technology (Tied)	Christina	Oros	Constructing an Earthquake Proof Building	St. Columbanus
Biology (Tied)	Siobhan	Ryan	Do Filters Really Filter?	The Melrose School

ELEMENTARY OUTSTANDING AWARDS

Alexandra	Ambrosio	Salt, Sand and Sugar and Their Effects on Ice	The Melrose School
Andrew	Colangelo	Is the Strength of a Magnet Affected by Temperature?	The Melrose School
Pasquale	Eenkema van Dijk	The Analysis of the Factors that Determine How High a Ball Bounces	F.E.Bellows
Mary Rose	Eliseo	Does Everyone Have the Same Blind Spot?	St. Joseph's School
David	Jackson	Will I Do Better on a Test after a Healthy Breakfast. an Unhealthy Breakfast or No Breakfast?	F.E.Bellows
Poppy	London	What Is the Effect of Popular Soft Drinks on Teeth?	Garrison School

ELEMENTARY EXCELLENT AWARDS

Tiana	Battle	On the Level	St. Columbanus School
Kevin	Blewitt	Electromagnets	St. Columbanus School
Leandro	Caponong	Demagnetizer	PEARLS Elementary
Katherine	Colucci	Simple Machines	St. Ann's School
Aisling	Crispi	The Dehydration of Fruit	Rockland Country Day School
Veronica	Dandreano	Water Cycle	St. Columbanus School
Johanna	Dashman	How Thirsty Can a Plant Be?	St. Ann's School
Nicholas	Defreitas	Solar Power with a Lightbulb	St. Columbanus School
Danielle	Diaz	What Causes Diabetes?	St. Columbanus School
Gabriel	DiPopolo	Demagnetizer	PEARLS Elementary
Iris	Dumauual	Plant Maze	St. Columbanus School
Jeacy	Espinoza	Making a Mummy	St. Ann's School
Sean	Flynn	Solar Energy	St. Ann's School
Andrew	Galstian	Which Type of Friction Will Stop a Car Faster?	F.E.Bellows
Michael	Halecki	Pendulums	St. Columbanus School
Issei	Harada	What Can Be Done to Stop the Increase of Co2 on Global Warming?	F.E.Bellows
Nathaniel	Joslin	Does Clorox Bleach Clean Stains Better than Vinegar?	The Melrose School
Matthew	Keller	Coastal Erosion of Lighthouses	St. Columbanus School
Jordan	Kirsch	What Helps Plants Grow?	Rockland Country Day School
Emma	Lewis	How Do Mood Rings Work?	Rockland Country Day School
Justin	Magalona	Inflating a Balloon in a Bottle	St. Ann's School
Isabel	Martinez	Molding Cheese	St. Ann's School
Hayley	Meth	Heartbeats and Rhythm	Rockland Country Day School
Annika	Roll	Do Lima Beans Grow in Water?	The Melrose School
Andrew	Rosenblum	A Racing Heart	The Melrose School
Spencer	Rundquist	Sport Racer	Garrison School
Genevieve	Sambrook	The Analysis of the Factors that Determine How High a Ball Bounces	F.EBellows
Jaclyn	Seals	Which Bridge Is Stronger?	The Melrose School
Abby	Smith	Water Purification	PEARLS Elementary
Aidan	Spencer	How Do You Make a Better Skateboard?	F.E.Bellows
Jake	Welty	Which Salt Can Melt Ice the Fastest?	F.E.Bellows
Serena	Wessely	What Is in the Water?	Garrison School
Katie	Wolff	Which Fabric Will Keep You Warmer?	The Melrose School