

The Putnam Children's Discovery Center, Inc.

Science Teachers Association of NYS (Westchester Section)

White Plains HS Science Research Department (Kimberly Fleming)

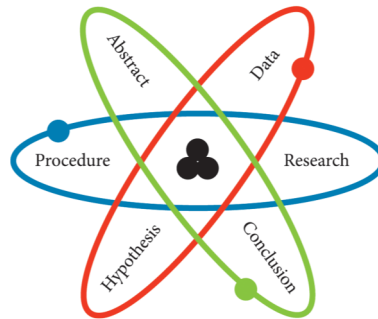
www.DiscoveryCtr.org

Presents

**THE TRI COUNTY
SCIENCE & TECHNOLOGY FAIR**

Westchester <> Putnam <> Rockland

APRIL 22, 2017



**Judge Edith Miller Excellence
in Education**

The Newman Family

Gem Level: Sponsorship: *Bronze*

WHITE PLAINS HS 550 North St White Plains, NY

GRAND SPONSOR

PepsiCo Global R&D

Meet the Keynote Speaker



JUDY VIGAR

Vice President R & D Global Beverage Platforms

Judy is a 15 year veteran in PepsiCo R & D and a 34 year veteran in the food industry. She has led R&D for the development and launch of many new beverage products around the world for Gatorade, Tropicana, and other PepsiCo beverage brands. She has expertise in Non Carbonated Beverages, as well as Engineering and Manufacturing, particularly, in juice based beverages.

While at PepsiCo, Judy spent close to 4 years in Europe. While there, she created and led a Beverages R&D satellite lab, and was part of the acquisition team for two large eastern European beverage companies. Judy joined PepsiCo in 2002, following almost 19 years with Procter and Gamble in Food and Beverage Manufacturing and PD. She holds two patents in the area of chelating agent technology. She graduated magna cum laude from Brown University in 1983, with a Bachelor of Science degree in Electrical Engineering and is a member of Tau Beta Pi. Judy is a certified Project Management Professional through PMI and is currently working on her Masters Degree in Food Science at Rutgers University.

Judy just celebrated her 25th wedding anniversary with her husband, Jim and they have one 16 year old son, James. They enjoy boating, swimming, camping and travelling.

TODAY'S PROGRAM

8:00-9:30	Student Registration & Set Up
8:30- 9:30	Complimentary Continental Hospitality Breakfast for Students, Teachers & Parents
8:30	Gift Shop Opens T- Shirts, Science Items , Tupperware & More
8:30-9:00	Judges' Hospitality Breakfast
9:00	Judges' Meeting
9:30	Snacks and Coffee for Sale
9:45	All exhibits must be set up for cross check. No one will be allowed to set up after 9:45
10:00-12:00	Exhibit Judging (Exhibiting Students, Judges & Authorized Fair personnel only) ** Parents of Division E & M must stay on the premises**
12:00-2:15	Lunch / Concession Stand Items Available for Sale
1:00-2:00	Public Viewing
1:30	Tupperware Fundraiser Table closes To purchase post fair www.janicepcdc.my.tupperware.com
2:00	Melaleuca information table closes Post Fair Purchases www.melaleuca.info/janicenewman
2:00-2:30	Please dismantle exhibits/put them in your vehicles
2:45	Gift Shop Closes / Doors open in the Auditorium
2:45-4:00	Award Ceremony in the Auditorium Judy Vigor PepsiCo Global R&D <i>Keynote Speaker</i> Joseph Sciamè Science Teachers Association NYS <i>Featured Speaker</i> <i>Presenter: Marilyn Reiner Science in Education Award</i> Matthew Newman Flambé Comedy <i>Featured Speaker</i> <i>Presenter: Judge Edith Miller Excellence in Education Award</i> Frank Iacopelli Independent Chemical Corporation <i>Master of Ceremonies</i> Amanda Lewis PepsiCo Global R&D <i>Featured Speaker,</i> <i>Introduction, Keynote Speaker</i> Mark Kramer, Frank Iacopelli & Janice Newman
4:00	50/50 Raffle is drawn

Please note the Fair would not be possible without the patronage of our traveling gift shop and concession sale of food items. We would greatly appreciate your patronizing our lunch concession today and participating in our 50/50 raffle.

A FEW WORDS ABOUT THE ORGANIZERS

The Tri County Science Technology Fair was founded in 1990 by The Putnam Children's Discovery Center, a volunteer organization. The original Fair was a countywide competition for Putnam County. In 1993 the Fair expanded to a regional Fair to include Westchester and Rockland Counties. The Fair's primary purpose is to reward children who have an interest in science, math and technology. Public, private and home schooled students from the three counties are welcome to participate in the Fair.

Elementary and middle school students gain entry to our Fair by placing in a Science & Technology Fair organized by their school. Home schooled students are entered based on their parent or the person in charge of their home schooling. The local organizers in the public or private schools determine who will continue on to our Fair. It is recommended that they encourage their first or second place winners. They can send up to twelve exhibits in the elementary and middle school divisions. There are nine categories *Biology, Chemistry, Environment, Earth/Space, Engineering/Technology, Health & Medicine, Math/Computers, Physics, & Psychology*. To view the rules visit www.DiscoveryCtr.org. For the purposes of our Fair the Divisions are: Division "E" grades K-4 / Division "M" grades 5-8 Division "H" grades 9-12. Schools that cross into two divisions can send 12 exhibits grades K-4 and 12 within grades 5-8 and 18 within grades 9-12. High School students are "direct" entered by either their principal or science department chairperson, or District STEM coordinator. The majority of high school students presenting at our Fair have opted for individual empirical or theoretical research projects as these projects meet the eligibility requirements for the NYS level. Three students and six alternates on the high school level will be selected to continue on to the NYS Science Congress. In the Middle School Division several students may be selected for further competition at the Broadcom Masters a National competition organized by Society for Science & the Public (SSP).

The Center wishes to thank our sponsors, the volunteers, committee leaders, and the endless hours of dedication by the presenting students and their families, without whose support there would be no Fair.

Beware of the words "settled science" there is no such thing as "settled science". Science is always evolving. So if you believe something is "different" explore it, try to defy it and see where that road takes you, Maybe it takes you back to "accepted science." But we will only learn when scientists aim to prove or disprove theories. Please continue to explore, our future depends on it.

To view the winners from the 2017 Tri County Fair please go online www.DiscoveryCtr.org after May 1.

Your school can have a fun Hands on Science Program complete with an educational magic show offered on Saturdays or Sundays for Jewish Day Schools. For complete details visit online at www.DiscoveryCtr.org or call 845 621-1260

The Tri County Science & Technology Fair

Organizer

The Putnam Children's Discovery Center, Inc. (PCDC)

A not for profit organization 501 (c) (3)

SCIENCE FAIR COMMITTEE

Janice Newman

Chairperson, Executive Director, PCDC

Gail Deuso

Special Events Chairperson

Sheri Rosensweig

Fundraising

Doug Mann

Sci Tech Fair Volunteer Coordinator PCDC

Mark William Newman

Administrative Secretary, PCDC

Peggy Lynch

Special Events Committee Leader PCDC

Special thanks to

Ellen Doherty, Principal WPHS

Kimberly Flemming

and White Plains HS Custodial Staff

Michael Blueglass

and the WESEF team

Stephanie Lemnious

Broadcom Masters

Marisha Tamakuwala

Judges Room Coordinator

Namita Jambusaria, Sarah Quatela

Judges Room Volunteers

FINANCIAL SUPPORT

SPONSORSHIP

PepsiCo Global R&D

Grand Sponsor

Special Thanks to

Judy Vigar

Vice President, CSD and Food Service Platforms for Global Beverages R&D

Judge Edith Miller Excellence in Education

The Newman Family

Gem Level Sponsors: Bronze Level

KOHL'S

Brewster location Lightning Rod: Aluminum Level

Lawrence Brown, CPA

914-285-4101

Lightning Rod: Aluminum Level

Vingie Merritt-Genco

Friends of Science: Helping Hand Level

IN KIND DONATIONS

CHERIE HEINZ
Fair Photos & Video
Graphic Designs

GINO'S TRATTORIA
www.ginostrattoria.com
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www.Vitosfinest.com

Special Thanks Pepsico

Judy Vigar

Vice President, CSD and Food Service Platforms for Global Beverages R&D

Jan Weststrate

Senior Vice President, R&D Global Functions, Governance and Compliance

FINANCIAL SUPPORT

Special Fund Donations to
Judge Edith Miller Excellence in Education

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Special Fund Donations to

Marilyn Reiner Science in Education

Science Teachers Association of New York State

Westchester Section

LOOKING FORWARD TO NEXT YEAR....

People often ask us what can I do to help. The two biggest areas of need are financial and volunteering. If you can discuss with your employer the wonderful experience your child had and suggest a corporate donation that would be fantastic. All donations are tax deductible. Our organization is a qualified 501(c) (3). The Fair is 100% volunteer, so you can assure your donor that all the proceeds go towards prizes and the production of the fair. *Please remember no amount is too small*

FINANCIAL SUPPORT:

PREMIER CIRCLE: \$20,000+

GRAND SPONSORSHIP: \$10,000

GEM LEVEL SPONSORSHIP:

Diamond \$8,500 Platinum \$7,000 Gold \$5,000

Silver \$2,500 Bronze \$1,000

LIGHTNING ROD LEVELS:

Copper \$750 Aluminum \$500 Electric \$350

FRIENDS OF SCIENCE LEVELS:

Heart \$250 Helping Hand \$100 Leg Up Donors \$50

** Grand Sponsors should include a logo for reproduction**

PayPal donations can be made to JNewman@DiscoveryCtr.org

Or visit www.DiscoveryCtr.org for links for online giving.

These companies match donations, please let us know if you are an employee.

GOLDMAN SACHS ING MERRIL LYNCH IBM
MICROSOFT GE ALTRIA

Please see if your company does matching grants we would love to welcome them

Name _____ Phone _____

Company _____ Email _____

Address _____ Donation \$ _____

All donations to PCDC are tax deductible per IRS 501(c) (3).

Mail to: PUTNAM CHILDREN'S DISCOVERY CENTER, INC.

PO BOX 222 Carmel, NY 10512 (put STF or Science Fair in the memo)

We can also be a designated donation through United Way drives



Judge Edith Miller

Excellence in Education

Award for top overall MS score

Edith Lorraine Meyer was born into poverty on December 3, 1929. Her parents Earl & Florence Meyer were considered the working poor. She lived with her sister Yvonne in a one bedroom apartment with a bath tub in the kitchen. It was one of the few flats to have a toilet inside the apartment. She brought herself from a place of poverty to a place of prominence by committing to school and education. Realizing the only way out of the cycle of poverty was college; she walked to school with cardboard in her shoes. This saved her the nickel bus fare so that she could attend Hunter College. She went on to St John's Law School and graduated as the only woman in her class. After passing the bar exam, she decided to focus on having a family. With a law degree under her belt she knew she would never be poor again. Five years later she started a job at The New York City Legal Aid Society where she could assist people who were less fortunate. She quickly rose to the head of the office. She went on and was appointed by Mayor Lindsay to the Family Court of NY, where she became the administrative judge. During her time in family court, she was the presiding Judge on the famous Willie Bosket case which became instrumental in helping to change NYS law. The ramifications of this case resulted in children under age 16 committing heinous crimes could be tried as adults. The moment that made her proudest was becoming the FIRST woman to be appointed to the Appellate Term of the NYS Supreme Court. Judge Edith Miller passed on to her children, Brian and Janice the importance of education and because of this, Janice, her daughter, founder of The Putnam Children's Discovery Center and the founder of the Tri County Science & Technology Fair created a fund in her honor. The Discovery Center annually hosts the Tri County Science & Technology Fair. The first recipient of this award was in 2005. The middle school exhibit with the highest score receives The Judge Edith Miller Excellence in Education Award. Judge Miller is survived by her two children Janice & Brian and three grandchildren, Michael, Mark & Matthew and great grandchild, Jasmine.

To contribute use PayPal JNewman@DiscoveryCtr.org



MARILYN REINER



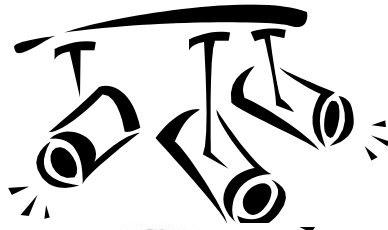
SCIENCE IN EDUCATION FUND

Award for top overall HS score

In the fall of 2004 we lost a strong supporter within our science community. Marilyn Reiner, a retired high school science teacher from Pearl River HS, passed away unexpectedly. She elevated the standards for high school students by creating an additional competition for the top nine students at the Tri County Science & Technology Fair. She was the president of the Westchester Section of The Science Teachers Association of New York State and worked tirelessly on the Tri County Science & Technology Fair.

In January 2005, The Putnam Children's Discovery Center started a fund in her honor, and the monies raised are utilized solely for science activities for children. The Discovery Center reaches children in Putnam, Rockland, Westchester, Dutchess and Orange counties in New York State. The programs that currently will benefit are: Family Science, a program that helps to take the mystery out of science; encourages parents not to be afraid of participating in their local science fairs. The program also offers science fair project suggestions and support when "you get stuck" during the project process. **Hands On Science**, a program (grades K-8) that takes place in school for students interested in science. The program offers several hands on activities where questioning is encouraged and the children work with a teacher in small, informal groups. Tri County Science & Technology Fair, an annual event for grades K-12. The best and the brightest students exhibit their projects, competing on a regional level. Three of the best researchers on the high school level go on to the NYS competitions.

To make a donation, please make checks payable to PCDC and memo MRSE or Marilyn Reiner Science in Education. Mail to PCDC PO Box 222 Carmel, NY 10512. Or use PayPal: JNewman@DiscoveryCtr.org



SPOTLIGHT ON VOLUNTEERISM



Frank Iacopelli has been part of the Tri-County Science & Technology Fair since the very beginning at Purchase College in 1994, when he volunteered as a judge, but later offered to help out that day tabulating the scores using a mechanical “adding machine.” Today, he directs the Judges’ Committee, and he is primarily responsible for nearly a decade recruiting well over 750 technical professionals from the tri-state region to serve as a judge. Plus, he ensures that scores are calculated today using sophisticated

algorithms on state-of-the-art laptop computers!

Frank has a B.E. in Chemical Engineering from Cooper Union and M.E. in Chemical Engineering from Stevens Institute of Technology. He is a former Chair of the Tappan Zee Chapter of the American Institute of Chemical Engineers (AIChE) and President of the Hudson Valley Council of Technical Societies (HVCTS), which were early sponsors of the Tri-County Fair and a great source for recruiting judges.

Frank is currently Manager of Technical Services and Marketing at Independent Chemical Corporation, where he manages technical training and product offerings for the sales staff. He also handles technical and quality issues pertaining to customers, products, and web site content.

Before joining ICC, Frank worked at Consumer Reports for more than 25 years, where he was involved with strategic planning and initiatives that improve the quality of its processes, workflows, products, and content as Director, Quality Management. Prior to Consumer Reports, Frank conducted pilot plant process research and development with Stauffer Chemical Company and the Linde Division of Union Carbide. He is also a member of the American Society for Quality (ASQ) and Tau Beta Pi engineering honor society.

Volunteering to help out the Tri-County Fair has been a family affair for Frank. His wife, Cherie Heinz, helps out with photography and graphic design, while his stepsons, Terry and Keith Heinz, who are on “leave” while they are away at college, have helped out with videography and score tabulation. And his two older daughters, Amanda and Christina Iacopelli, have both been highlighted in “Spotlight on Volunteerism” for their decade-long work as scoring tabulators, videographers, and editors of the Fair’s Facebook page.

2017 JUDGES COMMITTEE

Frank Iacopelli

Coordinator of Judges' Committee

Dean Gallea	Judging Coordinator
Cherie Heinz	Photography - Public Relations
Amanda Iacopelli	Data Tabulation Manager
Christina Iacopelli	Data Tabulation Manager
Marc Karell	Judging Coordinator
Derek Kendall	Student Volunteer - Data Tabulation
Shawon Khan	Judging Coordinator
Mark Kramer	Judging Coordinator
Dr. Michael Saccucci	Judging Coordinator - Data Tabulation
Michael Saccucci, Jr.	Student Volunteer - Data Tabulation
Frank Stabile	Videography - Data Tabulation
Carmine Torchetti	Videography - Data Tabulation
Christopher Yeosock	Student Volunteer - Data Tabulation

Judges come from the following companies

Albert Einstein College of Medicine	Morrison Hershfield Mission Critical
Ann Kim	New York Medical College
City of Norwalk, CT	New York Power Authority
Collado Engineering P.C.	Northern Westchester Hospital
Columbia University	NY State
Consumer Reports	Nyack College
Digital Realty	Playmada Games
DLB Associates	PepsiCo
Dr. Madeline Utterback, DMD, PC	Rosco Vision Systems
Franklin Miller, Inc.	SciencEd Foundation - a STEM nonprofit
Global Foundries	Seton Hall University
IBM (retired)	St. Thomas Aquinas College
IBM T.J. Watson Research Laboratory	The College of Westchester
ICL-IP America	TIAA
IEEE Region 1	US Military Academy, West Point
Lehman College, CUNY	Watson Inc
LIU Post	Westchester Community College
Marist College	Westchester County
Mercy College	Western Connecticut State University
MIT	WineZetta
Montefiore Medical Center	

INVITE YOUR COMPANY TO JOIN US NEXT YEAR

2017 JUDGES

Mr. Christian Andrews	Ms. Amie Giordano
Mr. Ali Ansari	Dr. Becky Hall
Dr. Lisa Armogan	Dr. Carl Hamby
Dr. Matthew Berger	Dr. Daishia Howard
Dr. Henny Billett	Dr. Daniel Kaluka
Dr. M Donald Blaufox	Ms. Deja Jones
Ms. Mary Blodgett	Dr. Kathy Keefe-Cooperman
Mr. Julian Boateng	Ms. Ronnie Kent
Dr. Grace Bonanno	Dr. Hong Duck Kim
Mr. Lee Bussinger	Dr. Ryan Kinlaw
Ms. Jennifer Cabanas	Dr. Laurel Lancaster
Ms. Paula Cancro	Ms. Stacy Larson
Ms. Patricia Catauro	Ms. Dahee Lee
Dr. Stavros Christofi	Ms. Amanda Lewis
Ms. Julia Coon	Mr. Connor Lewis
Dr. Arthur Cooper	Dr. Frank Libsch
Ms. Erika Cozza	Dr. Edgar Lichstein
Dr. Kathleen Crowley	Dr. Paul Lucas
Dr. Paul Dent	Dr. John Lucassen
Mr. Atray Dixit	Dr. Radhashree Maitra
Ms. Leann Du Higashi	Mr. Gerald Mannarino
Dr. Carl Embola	Mr. Nick Mannarino
Dr. Melissa Eslinger	Mrs. Michele Matos
Mr. Ryan Evanko	Mr. Bruce Meyer
Mr. Lucas Fallot	Mr. Alberd Misku
Dr. Ge Feng	Dr. Mary Mitchell
Mr. Scott Friedbauer	Dr. Thomas Morgan
Mr. Ray Giles	Dr. Stephen Moshman

2017 JUDGES

Ms. Meeran Moun	Dr. Tara Shapiro
Dr. Laura Nattress	Ms. Annette Stabile
Dr. Keith Newsom-Stewart	Mrs. Tania Tannure
Dr. Chi Nguyen	Dr. Cynthia Taub
Dr. Chris Nwosisi	Mr. Vinay Thaker
Dr. Kevin O'Donovan	Mr. Abhilash Tiwari
Dr. Steven Owen	Dr. Aradhana Tiwari
Ms. Xiao Pan	Dr. Rashmi Tiwari
Mr. Dowon Park	Mr. David Toner
Mr. Robert Pellegrino	Ms. Karen Tschinkel
Mrs. Natalia Postrigan	Dr. Madeline Utterback
Ms. Sarah Quatela	Mr. Suman Veeramalla
Mr. Derek Rankin	Mrs. Judy Vigar
Dr. Kimberly Rapoza	Dr. Bob Vosatka
Mr. Jawanza Sampson	Dr. Tad Wandel
Dr. Lalitha Samuel	Dr. Xintao Wang
Mr. Isiah Schwartz	Dr. Shamva Wright-Shingler
Dr. Clarence Sequeira	Mr. Michael Yeosock
Mr. Ron Shapiro	Mr. David Zgonec
Mr. Steven Shapiro	Dr. Meng Zhang

Thank you for taking the time to judge today.

The students deserve to get the best judges in their field. We understand there were many things you could have done instead and are grateful that you chose to volunteer in this great STEM program.

**Please volunteer next year to inspire and foster
the young scientists of tomorrow**

Please consider inviting co-workers, colleagues, your personal doctors, people who you have a professional affiliation with to join the team of qualified judges for next year.

A LABOR OF LOVE.... A LOVE OF SCIENCE

The Tri County Science & Technology Fair is 100% Volunteer

JUDGES

Every year we need good, reliable, qualified judges .

- **Scientists**
- **Engineers**
- **Retired Computer, Math & Science teachers**
- **Doctors, Nurses, Other Health Care Professionals**
- **College students with science majors/ interns**
- **Psychologists / Psychiatrists**

Visit www.DiscoveryCtr.org and fill out the judges form on the Tri County page

ADMINISTRATIVE / OFFICE

- **PR– Press**
- **Collators to prepare packets**
- **Registration at the Fair**
- **Data Entry at the Fair**

Email JNewman@DiscoveryCtr.org

DAY OF THE EVENT

- **Hospitality Table**
- **Lunch Time Volunteers**
- **Concession / Gift Shop**
- **Floor Managers**

Visit www.DiscoveryCtr.org and fill out the Volunteers form on the Tri County page

SPECIAL THANKS

REGISTRATION COORDINATORS

Danielle Citro ,Edgemont Jr/Sr HS
Maria DeCandia, Edgemont Jr/Sr HS
Randy Gunnell , Harrison HS
Ryan Kopreski , Rye Country Day School
Jerry Zupan, Putnam Valley HS

EXHIBIT FLOOR MANAGERS

Gail Deuso	Kimberly Flemming
Theresa Henry	Erick Larson
Lawrence McIntyre	Tony Meschino
Todd Newman	Ruth Theaman

VIDEO & PHOTOGRAPHY

Cherie Heinz / CHERIE LEE IMAGERY
Michael Blueglass, Yorktown High School

RUNNERS & GUIDES

Robert Maver

GIFT SHOP VOLUNTEERS

Special thanks to all the high school students from White Plains HS that helped us with logistics and navigating the building.

2017 PARTICIPATING SCHOOLS

Tri County Science & Technology Fair welcomes public, private and home schooled students from Westchester, Putnam & Rockland Counties. Elementary & Middle School participants have placed in their school Fairs or come with a recommendation if home schooled. High School students are direct entered by their Science teachers, Science Department Chairs or Principals.

The Discovery Center started the Tri County Fair in 1993 to create a regional competition. We are the only Fair in NYS that spans K-12. If your school would like to get involved in the 2018 Fair email JNeman@DiscoveryCtr.org. If your school does not currently hold a school wide science Fair and would like to get one underway please email JNewman@DiscoveryCtr.org. Your Fair can be set up by your PTA, teachers, or a group of interested parents.

Ardsley HS	Main Street School
Carmel HS	PEARLS
Croton-Harmon HS	Pelham Middle School
Edgemont HS	Putnam Valley HS
Edgemont JHS	Richard J. Bailey School
F.E. Bellows	Rye Country Day School
Farragut Middle School	Rye Neck HS
Fox Lane HS	Rye Neck Middle School
Garrison School	St Augustine
George Fischer Middle School	Scarsdale HS
Harrison HS	School 30
Hendrick Hudson HS	Sleepy Hollow HS
Irvington Middle School	The Ursuline School
John Jay Middle School	West Lake HS
John Jay HS	White Plains HS
Mahopac HS	Yorktown HS

2017 Teachers / Local Fair Coordinators

The teachers and local Fair coordinators are the unsung heroes who have inspired and encouraged students exhibiting today. They have volunteered their time to create a Science & Technology Fair in their schools and have mentored and / or arranged for mentors for their students. We deeply appreciate their commitment to science, math & technology

Michael Blueglass	Yorktown HS
Maria Buckley	Pelham MS
Linda R Burke	John Jay HS
Joyce Chapnick	Main St
Paulette DAlessio	The Ursuline School
Maria DeCandia	Edgemont SR/HS
Leah Englander	Rye Neck MS
Diana Evangelista	Ardsley HS
Kimberly Fleming	White Plains HS
Randy Gunnel	Harrison HS
Christopher Hasson	PEARLS
Kevin Keegan	The Garrison School
Gail Kipper	Farragut MS
Rachel Koenigstein	Yorktown HS
Ryan Kopreski	Rye Country Day School
Nora Leonard	Rye Neck HS
Donna Light	Croton-Harmon HS
Ann Marie Lipinsky	John Jay HS

2017 Teachers / Local Fair Coordinators

Janet Longo-Abinanti	Sleepy Hollow HS
Caryn Margolis	Edgemont Jr/Sr HS
Lawrence McIntyre	West Lake HS
Todd Mensch	Richard J Bailey
Zach Miller	John Jay MS
Linette Milo	Rye Neck HS
Nicole Monaco	Carmel HS
Dan Moy	Rye Neck HS
Stephanie Peborde-Burke	Fox Lane HS
Dylan Prendergast	Scarsdale HS
Dennis Quackenbush	Mahopac HS
Dr. Christine Rogers	Hendrick Hudson HS
John Rowittt	School 30
Michael Scarantino	FE Bellows
Heather Schmidt	George Fischer MS
David Sottile	Irvington MS
Jeremy Szerlip	Scarsdale HS
Alyssa Theiss	St Augustine
Lauren Zeoli	Rye Neck MS
Michele Zielinski	Sleepy Hollow HS

ELEMENTARY SCHOOL EXHIBITS

Grades K-4

Schools are permitted to enter up to three exhibits in any of the following categories but not to exceed more than 12 exhibits in the division (K-4)

****no exhibit can have more than 3 contributors****

Exhibits are by category and then alphabetically listed by contributor.

Each exhibit is listed once with all contributors.

Biology

Chemistry

Earth/Space

Engineering/Technology

Environment

Health& Medicine

Math/Computers

Physics

Please note homeschooled students welcome

*****Please note entry titles are input directly by the teacher, therefore the information we receive is how it is placed in the brochure. We do not check spelling as many exhibits with scientific language would never pass spell check*****

BIOLOGY

Thehara Ubayawardena How Best to Make Plants Grow?	F.E. Bellows
Jasmine Wallis Does Sugar Make You Weak?	Garrison School

CHEMISTRY

Mikayla Antepara & Della John Gummy Bear Breakdown	PEARLS
Nandita Deendyal & Jazyla Fernandez pH of Bottled Water	PEARLS
Samina Quli How Does Soda Affect Your Teeth?	F.E. Bellows

EARTH / SPACE

Ella Grann How Does Warmer Climate Impact Sea Levels?	F.E. Bellows
Cormac Smith Climate Cycles	PEARLS

ENGINEERING / TECHNOLOGY

Carys Mc Grory What Is the Effect of the Temperature of Butter on Baked Cookies?	F.E. Bellows
Erick Monge Levitating Magnets	School 30
Shaleen Thaker Color Guided Robotic Car	Main Street School

ENVIRONMENT

Natasha Gozlan F.E. Bellows
How Do Greenhouses Help Plants Grow Taller?

HEALTH & MEDICINE

Marco Griffo & Boden Sivere F.E. Bellows
How Much Methane Do Different Foods Produce?

PHYSICS

Anthony Direnzo School 30
Compound Pulley

Mark Di Maggio & Michael Messina F.E. Bellows
Do Ferrofluids Work Differently from Water?

Frank Lanza & Charles Rowe Garrison School
Static Electricity

Ashwani Pothan PEARLS
Battery That Makes Cents

MIDDLE SCHOOL EXHIBITS

Grades 5-8

Schools are permitted to enter up to two exhibits in any of the following categories but not to exceed more than 12 exhibits in the division(5-8)

****no exhibit can have more than 3 contributors****

Students who are in grades 6,7 and 8 may have an opportunity for further competition at the Broadcom Masters later this fall.

Exhibits are by category and then alphabetically listed by contributor.

Each exhibit is listed once with all contributors.

Biology

Chemistry

Earth/Space

Engineering/Technology

Environment

Health & Medicine

Math/Computers

Physics

Psychology

Please note homeschooled students welcome

*****Please note entry titles are input directly by the teacher, therefore the information we receive is how it is placed in the brochure. We do not check spelling as many exhibits with scientific language would never pass spell check*****

TRI COUNTY SCIENCE & TECHNOLOGY FAIR
IS PLEASED TO ANNOUNCE
AN AFFILIATION WITH BROADCOM MASTERS

Broadcom MASTERS, a program of Society for Science & the Public stands for Math, Applied Science, Technology, and Engineering for Rising Stars. The premier science and engineering national competition for 6th, 7th, and 8th graders, Broadcom MASTERS inspires middle school students to pursue their personal passion for science, engineering and math into high school. This program brings together young people who share a passion for innovation in STEM subjects and inspires them to stay with math and science throughout high school and into exciting careers.

Learn more at www.societyforscience.org/masters.

Broadcom MASTERS offers a unique opportunity for students interested in scientific endeavors to showcase their talent. Students motivated to explore new frontiers in science present their research in local science fairs, and if selected as a Broadcom MASTERS finalist, are invited to present their research in Washington D.C.

“I am fortunate to be the Broadcom MASTERS finalist from New York. This enabled me to present my research in Washington D.C, meet and exchange ideas with like minded peers while participating in team challenges organized by Broadcom MASTERS. It was a memorable experience and I encourage middle school students interested in the STEM area to participate in the Broadcom MASTERS. “

Smita Mohindra, Broadcom MASTERS finalist, New
York

BIOLOGY

Anika Bansal The Effect of Ripening on Sugar Level in Different Fruits	Edgemont Jr/Sr HS
Gizelle Dominquez & Kristen Luther Bacteria: The Invisible Killers	Richard J. Bailey
Maya Gelber How Does Music Effect Memory?	Garrison School
Abigail Glassman Does DNS Affect Bone Age?	George Fischer MS
Yana Jayampathy How Much DNA Can You Pack into A Cell	PEARLS
Ava Kersh The Human Brain's Quick Basic Memory	John Jay MS
Izabelle Korman How Water Temperature Affects Voice Range	Edgemont Jr/Sr HS
Gabi Lopez & Isabel Montes How Does Different Color Light Affect Plant Growth?	St. Augustine
Noah Lwanga The Effect of Different Types of Sweeteners on Yeast Respiration	Richard J. Bailey
Peter Nicholas The Bioremediation of Plastic	Rye Neck MS
Leah Sherbansky Where the Wild Things Grow	Pelham MS
Tanvi Singla Wiggly Jiggly Jell-O	Edgemont Jr/Sr HS
Charlie Szeliga Are Fingerprints Inherited	PEARLS
Sarah Taponga & Thomas Taponga Is Man's Best Friend Wild at Heart?	Pelham MS
Anne "Julie" Van Roijen Do People's Heart Rates Change When They See Different Colors?	F.E. Bellows
Jadyn Washington The Effects of Acid Rain	Richard J. Bailey
Mateo Yepes Water Purification	George Fischer MS

CHEMISTRY

Madeline Buehrer Effective Heat Warmers	Pelham MS
Jasmin Butler & Paiten Shama Battery Train	Richard J. Bailey
Evan Cohen Conductivity Of Salt Water	Edgemont Jr/Sr HS
Ammar Ghaswala Lemon Battery	School 30
Megan Giordano & Katie Hiraldo The Egg Test	George Fischer MS
Abigail Holtman & Katherine Lipman Freezing Point Depression	Rye Neck MS
Josh Marx Is EHS Water Safe?	Edgemont Jr/Sr HS
Julia Meyerson Yeast Fermentation	Pelham MS
Gabriel Miller Effect of Solutions on Conductivity	Rye Neck MS
Sinead O'Sullivan Epic Corrosion	George Fischer MS
Misha Patel Exothermic Reaction Rates	Edgemont Jr/Sr HS
Derek Ryan Which Type of Carbohydrate Is Best Metabolized by Yeast and How Does the Concentration Affect the Rate of Fermentation?	F.E. Bellows
Nisreen Said Saturated Solutions	PEARLS
Aria Shahbodaghi Which Fabric Is the Most Flammable? Does Fabric Softener Affect Flammability?	Garrison School
Ariday Vera-Galicia Salt Water Effects on Corrosion	School 30

CHEMISTRY

EARTH / SPACE

Benjamin Brown Rocketology	Richard J. Bailey
Charlotte Dinitz Mud Power	Garrison School
Sankar Gopalkrishna Satellite Slingshot	Edgemont Jr/Sr HS
Sophia Maron Schaeffer Skyglow	PEARLS
Anna Mckee The Afterlife	George Fischer MS
Divek Patel, Ryan Shannahan & Anthony Torricella Measuring Distance Using Parallax	St. Augustine
Andrew Salumn Water Filter	George Fischer MS

ENGINEERING / TECHNOLOGY

Dayana Bubb & Anna Maulucci Will the Type of Fin Affect How High a Bottle Rocket Will Fly?	Rye Neck MS
Phillip Buettner & Matthew Lord Hydroelectric Generator	Rye Neck MS
Nora Butler The Right Angle	Edgemont Jr/Sr HS
Anup De Building Failure	PEARLS
Akram Elkovraichi Wind Tunnel	PEARLS

ENGINEERING / TECHNOLOGY

Sebastian Giurca Dam Design	School 30
Tyler Griffith Are You Paying Too Much for Batteries?	Edgemont Jr/Sr HS
Nicole Heselton Hydro Power Plant	Richard J. Bailey
Owen Lane, Jimmy Lin & Dylan Sardo Robotic Piano	George Fischer MS
Alexander Marengo Mountain Bike Engineering	St. Augustine
Jeremy Morton Which Bridge Is the Strongest?	Richard J. Bailey
Ryan Norcini Lego Arm	George Fischer MS
Michael Oddo Blast Off!	John Jay MS
Sarah Sandberg What Color Stands Out the Most in Snow?	F.E. Bellows
Tyler Sergio How Much Extra Protection Does a Helmet Provide for Your Head?	F.E. Bellows
Anushka Singh Building A Solar Oven	PEARLS
Nicolas Valin Insulation Effectiveness of Water Containers	Richard J. Bailey

ENVIRONMENT

Kirsten Agbenyega Household Cleaners' Effect on Plant Growth	Pelham MS
Bella Caporusso What Is the Effect of Oil Spills on Aquatic Plants?	Rye Neck MS
Clarke Cooper & Zachary Leontiou How Does Toxicity of Water Affect Lettuce Growth?	Rye Neck MS

ENVIRONMENT

Jessica Deluise Soil Layers and Water Absorption	School 30
Fred Galbraith Wind on Water	George Fischer MS
Grace Gallagher, Elizabeth Hartnet, &Olivia Pasquerella What Is the Effect of Artificial Acid Rain on Household Plants?	St. Augustine
Vincent Horan & Nate Wolfe Can Co2 Cause Greenhouse Effect?	George Fischer MS
Jade Jang Biofilter	Edgemont Jr/Sr HS
Kylah Nee, Mia Sanguino & Adriana Zazzini Spilling the Secrets of Oil Spills	St. Augustine
Gabriella Nolan Could Nano silver In Consumer Products Affect Pond Life	PEARLS
Kyle Ryan How Do Nutrients in Fertilizers Affect the pH and O2 Levels of Aquatic Systems?	F.E. Bellows
Eesha Thaker Ground Level Ozone in Irvington	Irvington MS
David Thurston Exhausted of Exhaust?	Rye Country Day

HEALTH & MEDICINE

John Albert Which Deer Repellent Works the Best?	John Jay MS
Audrey Aslani-Far Tissue Doctor	Rye Country Day
Jamie Burke Brace for Action	Pelham MS

HEALTH & MEDICINE

Kimberly Carlton How Is Sodium Hydroxide Dangerous to Hair?	Rye Neck MS
Mia Hernandez, Ava Steinmann & Grace Tompkins How Much Fat Is in Your Food?	St. Augustine
Autumn Herrera Don't Smoke: The Effects of Smoking on the Body	School 30
Swaneet Jha Which Foods Have More Fat	PEARLS
Amelia Landis What Is the Most Effective Way to Kill Bacteria?	John Jay MS
Constancia Litwak & Isabel Palacios Whose Skin Becomes Wrinkly the Fastest?	F.E. Bellows
Jamie Nicholson What Can We Do for Children with Backpacks That Are Too Heavy?	Rye Country Day
Kathleen O'Sullivan Wii All Want to Play	George Fischer MS
Dylan White How Does My Body Temp Correlate to The Time of Day?	F.E. Bellows

MATH / COMPUTERS

Andrew Fehr Subtraction by Addition	George Fischer MS
Caroline Nelson Has Computer Typing Changed Standards for Writing?	Garrison School
Linus Ringstad The Effects of Frequency on Visible Light	Rye Neck MS
Esha Shenoy Obesity and Exercise: A Statistical Look	Irvington MS
Amadea Toutoungis How Does Air Resistance Affect an Active Cannonball?	Rye Neck MS

PHYSICS

Joel Alexander The Mumpamba Effect	PEARLS
Abigail Andrade, Ava Liebmann & Jessica Park Planes That Aren't So Plain	Rye Neck MS
Sofia Larrea The Science of Music	Richard .J. Bailey
Viren Maira The Magnus Effect	Pelham MS
Linlee Mangiardi, Deeya Patel & Jessica Petruzzo What's the Matter with Oobleck?	St. Augustine
Audrey Mcelhatton The Best Glue on The Block	PEARLS
Jason Piechota Flying Under the Radar	John Jay MS
Julia Plawiak Temperature, Viscosity, and Surface Tension	PEARLS
Rania Pothen Racing Marbles to Find a Liquid's Viscosity	PEARLS
Sebastian Proano Viscosity of Motor Oil	PEARLS
Muzammil Rasul Guitar Vibes: Frequency Vibrations	School 30
Anthony Sarro The Need for Speed	Edgemont Jr/Sr HS
Adrina Tiju What Makes Ice Melt Fastest	PEARLS
Shuya Watanabe What Can Disrupt Water to Freeze?	F.E. Bellows

PSYCHOLOGY

Julia Flood Does Gender Affect Mathematical Ability?	Rye Neck MS
Josh Handelman & Jonah Sherbansky The Effects of Music on Memory	Pelham MS
Stella Higgins & Savina Jannetti Multitasking	PEARLS
Helena Lew-Kiedrowska Analyzing Ways of Memorizing	Edgemont Jr/Sr HS
Lionel Muench & Jacob Goldman Wetzler How Age Affects Enthusiasm	Farragut MS
Micaela Ross Do Middle School Students Really Know What They Think They Know?	Farragut MS
Chloe Rowe Is Yawing Contagious?	Garrison School
Alana Yang A Handy Tool	Edgemont Jr/Sr HS
Naomi Young The Relationship Between Mindsets, Praise, and a Student's Decision to Challenge Themselves	Rye Neck MS

HIGH SCHOOL EXHIBITS

Grades 9-12

High School students are “direct” entered by either their principal or science department chairperson. High Schools may send up to 14 exhibits in (any combination of category). Each exhibit can have up to three contributors. The Fair allows for Demonstrative Exhibits as well as Research Exhibits. The majority of high school students presenting at our fair have opted for individual empirical or theoretical research projects. These projects meet the eligibility requirements for the New York State Science Congress hosted by The Science Teachers Association of NYS (STANYS) held in May.

Exhibits are by category and then alphabetically listed by contributor.

Each exhibit is listed once with all contributors.

Biology

Chemistry

Earth/Space

Engineering/Technology

Environment

Health/Medicine

Math/Computers

Physics

Psychology

Please note homeschooled students welcome

****Please note entry titles are input directly by the HS student or teacher, therefore the information we receive is how it is placed in the brochure. We do not check spelling as many exhibits with scientific language would never pass spell check****

BIOLOGY

- Avery-Ryan Ansbro** Mahopac HS
Understanding The Regulation Of Protein Synthesis Machinery By
Cryo-Electron Microscopy
- Daniel Beitler** Scarsdale HS
Searching for Cells Critical for Alloimmunization
- Sara Bove** Harrison HS
The Association Between Open-Angle Glaucoma and Diabetes Mellitus
- Wayne DeRosa** Putnam Valley HS
The Effects of SMART (Selective Magnetic and Repellent Treated) and
Magnetic Hooks on Bull Sharks (*Charcharhinus leucas*)
- Evan Dunne** Rye Neck HS
Do Large Mammals Align Themselves with Earth's Magnetic Field.
- Eric Eberhardt** John Jay HS
A New Inducible Mouse Model For Human Tau Protein Aggregation
- Jessica Finkler** Mahopac HS
Duel Targeting of Notch1 and Notch3 has Powerful Anti-leukemic effects in
T-cell Acute Lymphoblastic Leukemia
- Jack Friend** White Plains HS
An Estimation of Phylogenetic Relationships in the Subfamily Agaminae
using Complete Mitochondrial Genomes with an Evaluation of Molecular
Evolution and Plate Tectonic Influences
- Danielle Herman** White Plains HS
Evaluation of scFv Antibodies for Chimeric Antigen Receptor Modified
Natural Killer Cell Anti-Melanoma Immunotherapy
- Ava Howard** Yorktown HS
Cell Death Prevents Heart Attacks: Bax Inhibits Cell Death to Potentially
Prevent Myocardial Infarctions
- Sarina Iraj** Harrison HS
The Benefits of The Grape - Derived Polyphenol, Resveratrol, on the Lifespan
of *Drosophila* Fed Diets High in Fat
- Deepa Mistry** Hendrick Hudson HS
Synergy of T Helper Cells Th17 and Th22 with Th2 as Possible Factors in the
Onset and Development of Atopic Dermatitis
- Kyle Rowley** Fox Lane HS
Bacteriophages and Dirt: The Discovery of a Novel Mycobacteriophage

BIOLOGY

- Ronin Sharma** Ardsley HS
Genome-Wide Association Study of IgE Response to Common Allergens
- Zoe Shaw** John Jay HS
The Effect of Maternal Separation on Oxytocin Receptor Binding Density in Early Postnatal Development
- Swetha Sriramoju** Ardsley HS
Structure Based Drug Design with Diabetic Retinopathy and RAGE
- Brina Staviski** Mahopac HS
The Effect of E.coli with 1-Aminocyclopropane-1-Carboxylate Deaminase on Pea Plant Germination Time
- Rebecca Taylor** Rye Neck HS
The Effect of Temperature of Protein Denaturation
- Ambika Venkatakrishnan** Scarsdale HS
RNA-seq Analysis Yields Insight about Beta Cell Proliferation and the Immunogenic Characteristics of the Human Insulinoma

CHEMISTRY

- Andreas Alexandrou** White Plains HS
The Effect of Different Cu Polycrystalline Substrates on Graphene Growth
- William Fall** Mahopac HS
Exploring the Polarity of Cancer Cell MUC1 Aptamer
- Marisa Kim** Rye Country Day
Creation of a Low-Cost Heavy Metal Water Purification System via a Graphene Oxide Composite Membrane, with Incorporated TiO₂-Glyphosate Nanostructures.
- Alexander Magid** Scarsdale HS
Near-IR Active Nanomaterials for Medical Application
- Milena Nutrobkina** Scarsdale HS
Evaluating the efficacy with which nitro-fatty acid can be formed to control inflammation
- Peter Peechatt** Mahopac HS
Investigating the Effects of Polymer Structure and Formulation Design on the Stability of Topical Systems

EARTH / SPACE

- James Brandfonbrener** Edgemont HS
The Capture of Black Holes by a Quasar Accretion Disk as a Source of Gravitational Waves
- Adam Galluccio** Rye Neck HS
Gold Rush in the Final Frontier
- Kalyani Gopalkrishna** Edgemont HS
Deer Oh Deer! ESR Dating of Cervid Teeth from Velika Balanica, Serbia
- Dheivanai Moorthy** Suffern HS
Analyzing Biomarkers for Thermal Maturity in Dolostone and Sandstone
- Michael Winitch** Edgemont HS
Significance of Atreipus and Digit I in Early Dinosaur Phylogeny

ENGINEERING / TECHNOLOGY

- Jessica Burg** Fox Lane HS
Building an Electrical Model of the Human Head
- James Buzaid** Sleepy Hollow H
Exploration of Human Hair as a Self-Healing Material
- Jasper Katzban** Putnam Valley HS
Room Scale Virtual Reality Analytics to Improve the User Experience
- Janis Louie** Scarsdale HS
Linear Predictors in R for Determining Joystick Kinematics for Moving Computer Cursors
- Jainil Sutaria** Ardsley HS
Increasing the Thermal Conductivity of Cement via a Silicon Carbide Aggregate
- Bennett Taylor** Rye Neck HS
Tardigrade D-Sup Gene May Be Key to Farming in the Nuclear Age
- Shane Tomaino** Rye Country Day
Lifespin: Comprehensive water purification and transportation via induced turbulent flow in conjunction with Faraday's Law of Induction.

ENVIRONMENT

- Heidy Arana** Sleepy Hollow HS
Using Baited Camera Traps to Verify the Presence of *Mustela erminea* and *Martes pennanti* at a Local Nature Preserve
- Karyme Briones** Sleepy Hollow HS
The effects of bridge construction on eastern oysters (*Crassostrea virginica*) in the Hudson River
- Ida Henrickson & Ema Jovanovic** Rye Neck HS
Biodegradation of BBP by Protobacteria
- Hayley Lewis** Putnam Valley HS
Caffeine's Effect on Dragonfly and Mosquito Larvae Behavior and Development
- Emily Olivier** Yorktown HS
The Effects of *Hydrilla verticillata* on Water Quality in the New York Region
- Kayla Ortiz** Putnam Valley HS
Wind Speeds Effect on American Eel Migration
- Ryan Usai** Putnam Valley H
Detection of Lima Bean Pathogen *Phytophthora capsici* in Soybean Fields
- Isabella Yepes** Carmel HS
Functional Assessment and Management Recommendations for Several (freshwater) Wetlands in the Mianus River Watershed
- Karen Zaklama** Scarsdale HS
Optimizing butanol production: bacterial growth and production in different nutrient environments

HEALTH & MEDICINE

- Carlo Castillo** White Plains HS
The Neurological Outcome of Behavior Therapy for Reducing Motor and Phonic Tics in Patients with Tourette Disorder
- Theresa Cho** The Ursuline School
Effects of High Fasting Glucose Levels and High Cholesterol Levels on White Matter Integrity in Schizophrenia
- Niharika Desiraju** Scarsdale HS
Establishing Methodology to Study Myelin Involvement in Friedreich's Ataxia
- Olivia Dunne** Rye Neck HS
The Synthesis of Gold Nanoparticles for the Detection of Simulated Bacterial Meningitis
- Joelle El Hamouche** Westlake HS
Investigating the EET-PGC-1 α -HO-1 axis: The role of CO in mitigating obesity and diabetes through regulation of adipocyte differentiation
- Cristal Finkenberg, Aliya Glattstein & Kaitlene Tan** Rye Neck HS
The Efficacy of SPF on UVB Protection
- Dana Huppert Fishman** Yorktown HS
Identifying Mediators of Unmet Need in Elderly Patients with Alzheimer's Disease and Dementia
- Amanda Girardi** Scarsdale HS
The Association Between the Absence of Adiponectin and the Reduction in the Concentration of Treg Cells in the Adipose Tissue of Mice
- Isabelle Joseph** Westlake HS
Evaluation of Gremlin1 as Candidate Gene in Bronchopulmonary Dysplasia in Preterm Infants Using Clinically Obtained DNA Samples
- Rubashruti Kanna** Edgemont HS
Antisense oligonucleotide inhibition of STAT3 causes differentiation of healthy stem cells in MDS and AML
- Aadi Kapur** Scarsdale HS
Observing the Sequence of Sighs and Apneas to Diagnose Sudden Infant Death Syndrome (SIDS)
- Nupur Khattri** Edgemont HS
Examining Cerebellar Abnormalities in Wild-Type Mice and Mice Injected with a GFP-tagged Construct

HEALTH & MEDICINE

- Sabeen Khan** Scarsdale HS
The Effect of Fidgetin-Like 2 (FL2) on Neuronal Growth and Regeneration
- Michelle Kim** Edgemont HS
Quantification of mitophagy in vivo in ALS spinal cord motor neurons using a novel ratiometric protein
- William Lau** Scarsdale HS
Utilizing Quantitative Susceptibility Mapping to Determine Differences in Relative Motor Cortex Susceptibility in Different Forms of Scleroses
- Sonia Lulla** Edgemont HS
An Evaluation of the use of Tobramycin in treating Pseudomonas Aeruginosa in Cystic Fibrosis Patients
- Jeffrey Ma** Edgemont HS
The Identification of Candidate NBA1 Interacting Proteins
- Abigail Marx** Edgemont HS
Analysis of Metabolomics After Left Ventricular Assist Device Implantation
- Roshni Mehta** Scarsdale HS
The Effect of Early Detection of Oral Cancers on the 5-Year Survival Rate
- Elizabeth Mioli & Rebecca Tenner** Rye Neck HS
Vaccination Barriers Among High School Students
- Batool Naqvi** Edgemont HS
Assessment of Rehabilitative Care of Children with Neurodisabilities in Iraq
- Rory O'Brien** Yorktown HS
The Effects of Spinal Cord Lesion on Motor Cortex Activity in Mice
- Charles Panzarella** Westlake HS
Using Optokinetic Reflexes to Quantify Vision in Non-Communicative Pediatric Patients
- Simon Peck** Fox Lane HS
Peanut and Lupine Allergy: Cross-Reactive Peptides
- Nicole Pereira** Rye Neck HS
Connection between Autism and Epilepsy
- Huzaiifa Piperdi** Edgemont HS
Functional analysis of Axl V289M mutation in NSCLC
- Matthew Ponticiello** Rye Neck HS
Preparing and Testing Immunomagnetic Beads for Cancer Hyperthermia

HEALTH & MEDICINE

- Alyssa Ramsay** John Jay HS
Change in Hormone Receptor Status After the Application of Neoadjuvant Chemotherapy in breast cancer patients
- Marisa Santoli** Rye Neck HS
The Effect of Various Types of Antifungal Agents in Disrupting Fungus' Ability to Produce Carbon Dioxide
- Maya Sousa** White Plains HS
Does Pre-Season Training Have an Effect on Limiting the Number of Anterior Cruciate Ligament Injuries in Both Male and Female Athletes?
- Jaelyn Tung** White Plains HS
Effect of CIT therapy on CP children with crouch gait
- Melissa Valqui** Rye Neck HS
Proton Therapy
- Conor Van Riper** Putnam Valley HS
The Effects of The Listening Program on Autism Spectrum Disorder Clientele: A Review of Cases
- Alice Varghese** The Ursuline School
An Antibody Drug Conjugate That Can Significantly Improve The Management of Type II Diabetes
- Grace Wang** Edgemont HS
DNA Replication Mechanisms at Common Fragile Sites
- Richard Wang** Rye Neck HS
The Importance of Making Sure a Drug's Aime is True.
- Jack Weitzner** Sleepy Hollow HS
Evaluating Head Accelerations in Men's Varsity Lacrosse
- Jocelyn Wexler** Edgemont HS
Laparoscopic Roux-en-Y Gastric Bypass versus Laparoscopic Sleeve Gastrectomy for the Resolution of Obesity-Related Comorbidities
- Margaret Zhong** Ardsley HS
The Novel Therapeutic Implications for Nimodipine in Alzheimer's Disease

MATH / COMPUTERS

- Sam Barton** Fox Lane HS
Generating Random Numbers In C++ For Computer Simulations
- Erica Bertolozzi** Mahopac HS
Application of Predictive Analytics to Student Success in College
- Matthew Gofman** Hendrick Hudson HS
Detecting Antecedents of Boredom in Students Using Intelligent Tutoring Systems
- Federico Reyes Gomez** Edgemont HS
Design of a secure symmetric key block encryption algorithm using reversible partitioning cellular automata
- Ryder Rose** White Plains HS
A Performance and Comparison of C++ and C#
- Walter Wacaser** Putnam Valley HS
Increasing the Robustness of Speech Processing Systems
- Griffin Wallick** John Jay HS
The Use of Linear Modeling to Predict the Success of NFL Quarterbacks
- Katie Yang** Scarsdale HS
A Linguistic Approach to the Sentiment Analysis of Currency Markets
- Catherine Yoo** Rye Neck HS
Using Statistics to Predict Success of Failure in High School Relationships

PHYSICS

- Claire Gillespie** Scarsdale HS
The Magnetization of a System under Toom's NEC Rule and its Behavior at the Critical Temperature

PSYCHOLOGY

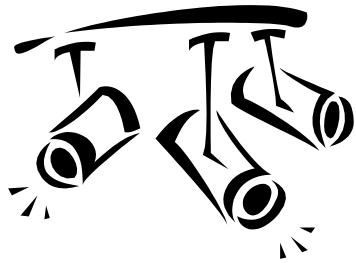
Stephanie Brij-Raj Prevalence of Panic Disorder Symptoms in Female High School Students	The Ursuline School
Adesuwa Carlton How do trends like water-bottle flipping increase teenagers' peer pressure?	Rye Neck HS
Lauren Cole Age-related Differences in Emotional Reactivity and Regulation	Harrison HS
Meredith Conlin Repetition in Relation to Cyberbullying	Putnam Valley HS
Lisa Engelen Bilingual Influence on the Stroop Effect	Rye Neck HS
Sarah Espinoza & Jordyn Fields The Effects of Music Classes on Immediate Short-term Stress Levels on High School Adolescents	White Plains HS
Alexandra Feldman The Effect of Distinct Olfactory Cues on Food Intake and Flavor Perception	White Plains HS
Kayla Gorelick & Lianna Rocchio Change in Physician Empathy, Based on Gender, Toward Patients with Substance use Disorders After SBIRT Training	Mahopac HS
Dennis Heffernan The Effectiveness of Various Technological Interventions on Obesity in Firefighters	White Plains HS
Evelyn Hong The Effect of Language on False Memory	Rye Neck HS
Samantha Horowitz Differential Perspectives on the Impact that Doctor-Patient Relationships have on Patients with Epilepsy	Yorktown HS
Paige Lee & Salvatore Pepe Neurological & Academic Differences Between Musicians and Non-Musicians	Putnam Valley HS
Dexin Li Decision-Making, Misperceptions, and Gender: Chess Players and How They Take Risks	Scarsdale HS

PSYCHOLOGY

- Zachary Lubart** Westlake HS
From Angel to Whore: Perceptions of Nurse Stereotypes Seen Among High School Students
- Kelly Marx** White Plains HS
Neurological Results in Children, Teenagers, and Young Adults with High Risk Sickle Cell Disease Who Have Received a Familial Haploidentical Allogeneic Stem Cell Transplantation
- Alessia Mastrogiacomo** Harrison HS
The Relationship Between Listening to Classical Music when Studying and Reported Stress Levels and Test Performance
- Sinead McSpedon** Fox Lane HS
Testing Mice for Stress Susceptibility in Post Traumatic Stress Disorder with Immobilization and Fear Conditioning Models
- Alaina Otto** Sleepy Hollow HS
The Effects of Repetition On Memory Using Drosophila Melanogaster
- Pranav Parsi** Edgemont HS
The Development of a Measure of Barriers to Effective High School Performance: The Role of Organizational Skills and School Engagement
- Erin Pedersen** Putnam Valley HS
Facial Expression Recognition in Artificial and Real Stimuli
- Amy Rosenblatt** White Plains HS
The Effect of Verbal Suggestion Involving the Promotion of a Growth Mindset on the Overall Success of Athletes in the Track Season
- Denali Sagner** White Plains HS
Building the Evidence Base for the Effectiveness of Two-Generation Educational Interventions
- Roger Sanabria** Putnam Valley HS
The Effect Of Ambient Noise On High School Students
- Katelyn Sansotta** Rye Neck HS
Can the Effect of Lavender Reduce Stress?
- Mariana Silva** Putnam Valley HS
The Potential Cognitive Benefits of Urban Green Roofs

PSYCHOLOGY

- Anna Tender** White Plains HS
Identifying Resting-State Networks Associated With Resilience to Stress
- Shakira Uculmana** White Plains HS
Gene associations between depression and anxiety in adolescents
- Akiah Watts** Carmel HS
Linguistics Analysis of Sentence Variety in Essays



SPOTLIGHT ON VOLUNTEERISM

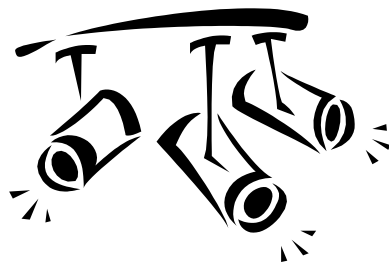


PEGGY LYNCH

Peggy Lynch was involved with Tri County since the beginning. She quickly went from being a regular volunteer, to running and managing the concession division at the Tri County Fair. Having been with the Putnam Children's Discovery Center for over twenty years, she is now the Special Events Committee Leader. Peggy has been a preschool teacher for the past twenty years, has written curricula for pre-school science programs and she was the Birthday Party Coordinator for over five years.

Her love of science and young people is demonstrated in her nearly nine years at the Seed in Yorktown. Peggy regularly volunteers in Putnam County, and she has spent the past fifteen years teaching in the CCD Program at St James in Carmel, NY.

Other examples of her volunteer work include Girl Scouts, where Peggy worked with Girl Scout Leaders at Rock Hill Girl Scout camp for twelve years and the time she spends at Kohl's with their Associates-in-Action program. Peggy has a son Peter, as well as daughters, Kira, Caroline and Mary and is recent grandmother of twins Leah and Joseph.



SPOTLIGHT ON VOLUNTEERISM

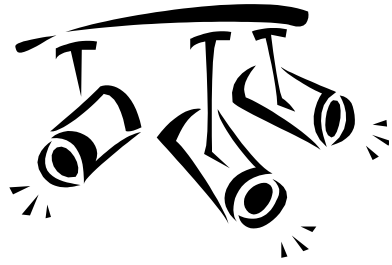


TONY MESCHINO

Tony Meschino is always quick to say yes to volunteer his time and has been an asset for over twenty five years at the Putnam Children's Discovery Center (PCDC) . He is part of the Elementary / Middle school Floor Managers Team at the Tri County Fair and he is also the PCDC resident magician! He performs at every Hands on Science event, as well as teaching Earth and Animal Science classes during the PCDC Saturday Programs that "come to your school."

A graduate of St John's University, Tony has forty years of service with the MTA Metro North. He has dedicated his time as a 4H Leader and volunteer for Westchester and Putnam Counties for over thirty years. His creation of the 4H Fright Night Haunted Rail "Spook Walk" at the Yorktown Grange Fair has grown to be a valuable fundraiser for six years and running! Tony is also responsible for "Project Earth", reflecting public awareness for Earth Day and the importance of personal responsibility in cleaning up your community.

His work with many youth development programs is spurred by his love of science and education. During these programs Tony can be regularly seen demonstrating his skills in puppetry, balloon sculpture and magic to the enjoyment and enrichment of children of all ages. During the holiday season he can even be found filling in when Santa needs a break. Tony, his wife Karen and their three sons have grown up volunteering, and for more than thirty years they can almost always be found at a Putnam County event volunteering!



SPOTLIGHT ON VOLUNTEERISM



MATTHEW NEWMAN

Matthew Newman was born to volunteer, literally! His mother runs the program! In addition to volunteering at the fair, Matthew teaches Water Experiments whenever he is in town with the Putnam Children's Discovery Center's Hands on Science Program. His mother runs that too, but he works both events because it's a great deal of fun! Though he loves the Discovery Center, and loves the Tri-County Science & Technology Fair and also happens to love his mom, Matthew's true passion lies in comedy.

A graduate of Emerson College, with a degree in Writing for Film and Television, Matthew won an EVVY award for Outstanding Writing in Television, and hosted the 33rd Annual EVVY Awards — which took home the College EMMY for Outstanding Variety Show. Matthew worked for a time at the Colbert Report and FX Network and now resides in Los Angeles, California where he produces short form sketch comedy content for Flambé Comedy, a group that garnered 250,000 views on Funny or Die's Facebook Live page. You can find them on Youtube, Facebook, Instagram, and Twitter or by Google: Flambé Comedy. You can also follow Matthew on twitter: @MattNewmans.

This year Matthew returns to present the award named after his grandmother: The Judge Edith Miller Award for Excellence in Education, awarded to the best overall middle school science exhibit.



PEPSICO

Global R+D