The Putnam Children's Discovery Center, Inc.

Science Teachers Association of NYS (Westchester Section)

White Plains HS Science Research Department (Kimberly Flemming)

www.DiscoveryCtr.org

Presents

THE TRI COUNTY SCIENCE & TECHNOLOGY FAIR

Westchester <> Putnam <> Rockland

APRIL 30, 2016



Judge Edith Miller Excellence in Education The Newman Family

Gem Level: Sponsorship: Bronze

WHITE PLAINS HS 550 North St White Plains, NY

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PepsiCo Global R&D

Meet the Keynote Speaker



ROBERT B. LEWIS, III

Robert B. Lewis, III is Senior Vice President – Functional Capabilities for Global Beverages R&D. He is responsible for the Packaging & Processing, Food Service Equipment, Global Value Innovation Center, Product Formulation, Flavor Technology, Ingredient Discovery, and Ingredient Applications innovation agendas. His responsibilities span the global family of PepsiCo beverage brands around the world, upstream beverage technology development, and insuring our R&D facilities are equipped to enable science and engineering driven innovation.

Robert is an accomplished R&D executive with over 30 years of R&D experience in the packaged consumer goods space with particular emphasis on packaging development, process development, product design, product formulation, package design, equipment and device development, and consumer research.

TODAY'S PROGRAM

| 8:00-9:30 | Student Registration & Set Up |
|-------------------|--|
| 8:30-9:30 | Continental Hospitality Breakfast for Students, Teachers & Parents |
| 8:30 | Gift Shop Opens T– Shirts, Science Items , Tupperware & More |
| 8:30-9:00 9:00 | Judges' Hospitality Breakfast Judges' Meeting |
| 9:30 | Snacks and Coffee for Sale |
| 9:45-12:00 | 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 |
| 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 Robert B Lewis, III, PepsiCo Global R&D Keynote Speaker Joseph Sciame Science Teachers Association NYS Featured Speaker Presenter: Marilyn Reiner Science in Education Award Theresa Henry Featured Speaker Presenter: Judge Edith Miller Excellence in Education Award Frank lacopelli Consumers Reports Master of Ceremonies Onna Burleson, PepsiCo Global R&D Featured Speaker, Introduction, Keynote Speaker Onna Burleson, Mark Kramer, Frank lacopelli & 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 eight categories in elementary Biology, Chemistry, Environment, Earth/Space, Engineering/ Technology, Health & Medicine, Math/Computers & Physics. Psychology is added to Middle School and High School. 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. 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. To view the winners from the 2016 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

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Namita Jambusaria, Sarah Quatela

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Lightning Rod: Aluminum Level

Rashmi Tiwari

Helping Hand

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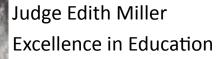
Science Teachers Association of New York State
Westchester Section

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 dona-

| tions 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. <i>Please remember no amount is too small</i> |
|--|
| FINANCIAL SUPPORT: |
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| match donations, please let us know if you are an employee. Please see if your company does matching grants we would love to welcome them |
| NamePhone |
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| Address Donation \$ |
| All donations are tax deductible We are 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





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



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



Mark Kramer

Involved with Tri-County since the beginning Mark currently teaches meteorology at pace University in Pleasantville as an Adjunct Assistant Professor. He also works full time at WEATHERMARK LLC as a consulting forensic meteorologist.

His long term contribution tot he Tri-County Science & Technology Fair began as a judge in 1994 when the fair was founded as an outreach from the Hudson Valley Council of Technical Societies. At that time and to this day, Mr. Kramer has been the chair of the New York City/Long Island Chapter of the American Meteorological Society.

" My wish is that every student and parent should strive to volunteer at least once every year, whether it is in science, technology, art, mathematics, sports, music, career day, drama, community service, etc. It would make the Tri-County area, New York State, the country and the world a better place."

Marc Karell

Marc Karell Involved with Tri-County since the beginning.

Marc is the owner of Climate Change & Environmental Services LLC providing technical advice and engineering services in the energy and environmental areas for companies to reduce their energy usage and environmental impact while maximizing financial benefits.



He really likes being involved with young people and hearing their unique ideas, feeling their enthusiasm and providing guidance and encouragement to move forward in a scientific field.

" I think it's important that everybody give back to our society in their own way, and this is my way."

2016 JUDGES

Onna Burleson Pepsico R&D

Cherie Heinz Cherie Lee Imagery

Frank lacopelli Consumer Reports

Mark Kramer WeatherMark LLC

Michael Saccucci Consumer Reports

Judges come from the following companies

Albert Einstein College of Medicine Manhattanville College

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Manhattan College Western Connecticut State University

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2016 JUDGES

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Ms. Jill Anderson

Mr. Ali Ansari

Dr. Narasim Banavara

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Dr. Rashmi Tiwari

Ms. Karen Tschinkel

Dr. Madeline Utterback

Mr. Suman Veeramalla

Ms. Noelle Vidaic

Mrs. Judy Vigar

Dr. Thaddeus Wandel

Dr. Shamva Wright-Shingler

Mrs. Joanna Yager

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

ADMINSTRATIVE / 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

Laura Estersohn , Scarsdale HS Caryn Margolis. Edgemont Jr/Sr HS Joyce Ryan, PCDC Science Teacher Kathy Walsh , Edgemont Jr/Sr HS

EXHIBIT FLOOR MANAGERS

Gail Deuso Kimberly Flemming

Douglas Mann Lawrence McIntyre

Tony Meschino Todd Newman

Joyce Ryan

DATA MANAGERS

Keith Heinz Amanda Iacopelli

Christina Iacopelli Michael Saccucci Jr.

Annette Stabile Frank Stabile

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VIDEO & PHOTOGRAPHY

CHERIE HEINZ / CHERIE LEE IMAGERY

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RUNNERS & GUIDES

Robert Maver,

GIFT SHOP VOLUNTEERS

Dominic Nguyen, Devon Nguyen, Travis Boula, Melissa Maver

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

2016 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 2017 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 Hendrick Hudson HS

Blind Brook HS John Jay Middle School

Brewster HS John Jay HS
Briarcliff HS Lakeland HS

Byram Hills HS PEARLS

Carmel HS Rye Country Day School

Dobbs Ferry HS Rye Neck HS

Edgemont HS Rye Neck Middle School

Edgemont JHS Scarsdale HS

Family School 32 School 30

F.E. Bellows Sleepy Hollow HS

Farragut Middle School The Ursuline School

Fox Lane HS Thomas Jefferson Elementary

Garrison School Walter Panas HS

George Fischer Middle School West Lake HS

Harrison HS White Plains HS

Yorktown HS

2016 TEACHERS

The teachers 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

Tara Boyd Thomas Jefferson Elementary

Erica Curran Dobbs Ferry HS

Maria DeCandia Edgemont SR/HS

Diana Evangelista Ardsley HS

Kimberly Fleming White Plains HS

Stephanie Greenwald Byram Hills HS

Randy Gunnel Harrison HS

Christopher Hasson PEARLS

Kevin Keegan The Garrison School

David Keith Byram Hills HS

Gail Kipper Farragut MS

Rachel Koenigstein Yorktown HS

Ryan Kopreski Rye Country Day School

Nora Leonard Rye Neck HS

Ann Marie Lipinsky John Jay HS

Janet Longo-Abinanti Sleepy Hollow HS

2016 TEACHERS

Ray Loverso Rye Neck MS

Caryn Margolis Edgemont Jr/Sr HS

Lawrence McIntyre West Lake HS

Zach Miller John Jay MS

Linette Milo Rye Neck HS

Nicole Monaco Carmel HS

Dan Moy Rye Neck HS

Annmarie O'Brien Briarcliff HS

Stephanie Peborde-Burke Fox Lane HS

Nicole Pelosi Rye Neck MS

Dylan Prendergast Scarsdale HS

Kristina Reid The Ursuline School

Dr. Christine Rogers Hendrick Hudson HS

John Rowittt School 30

David Sarli Lakeland HS

Heather Schmidt George Fischer MS

Beth Schoenbrun Scarsdale HS

Dr. Michele SugantinoBlind Brook HS

Jeremy Szerlip Scarsdale HS

Frank Tamweber Walter Panas HS

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 then 12 exhibits in the division(K -4)

no exhibit can have more then 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

Elspeth Darhansoff Garrison School

How Much Energy?

Ariday Vera Galicia School 30

Affect of Light on a Bean Plant

Gwen Gordon Garrison School

How does a chick breathe in its shell?

Mongezi Mkentane School 30

Vision Mission

Derek Ryan F.E. Bellows

What is the effect of ph and temperature on the activity of the lactose

enzyme?

CHEMISTRY

Amir Correa PEARLS

How Much Iron is In Your Cereal?

Paige Fagan Thomas Jefferson Elementary

Which Chocolate Melts the Fastest?

Toby Freeman PEARLS

Do Crystals Grow at Different Temperatures?

AnnaCatNelson Garrison School

Does Hand sanitizer kill bacteria?

Shuya Watanabe F.E. Bellows

Does more sugar make water heavier?

EARTH / SPACE

Sebastian Rasic Garrison School

Rocks and Minerals

Dylan White F.E. Bellows

Does color affect temperature?

ENGINEERING / TECHNOLOGY

Jillian August & Morgan Murphy

Garrison School

Using Your Noodle

ENGINEERING / TECHNOLOGY

Hanzalah Farooqui PEARLS

Can You Make a Hovercraft?

Chase Nugent Garrison School

Paper Airplanes

ENVIRONMENT

Grace Proano PEARLS

Beach Erosion

Kyle Ryan F.E. Bellows

What is the effect of acid rain on rocks and on construction materials?

HEALTH & MEDICINE

Joel Alexander PEARLS

What Do Soft Drinks Do To Your Teeth?

Halle Gellman & Samantha Golub F.E. Bellows

Does music affect your pulse rate?

Nailah Lazala School 30

Growing Bacteria

MATH & COMPUTERS

Mac Lake Garrison School

The psychological attraction to Mind Craft

PHYSICS

Spencer Boxford & Angel Estrada F.E. Bellows

How does the angle of a catapult affect how far a projectile travels?

Angel Cuevaa Thomas Jefferson Elementary

Does Temperature Affect How High a Tennis Ball Will Bounce?

Aviv Emery PEARLS

Candy Waterfall, Can Solids Flow Like Liquid?

Grace Gordon Garrison School

The Silence of the Bells

PHYSICS

Jack Jimenez & Andrew Sinnott Thomas Jefferson Elementary Does the Amount of Air in a Soccer Ball Affect How Far It Will Go When Kicked?

Audrey McElhatton PEARLS

The Slippery Jig

Elliott Thomas Thomas Jefferson Elementary Can Hot Water Freeze Faster Than Cold? Exploring the mpemba effect.

Jasmine Wallis Garrison School

Crystal Radio

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 then 12 exhibits in the division(5-8)

no exhibit can have more then 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 at Washington D.C.

I am fortunate to be the Broadcom MASTERS finalist from New York. This enabled me to present my research at 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

Nihed Benchehida School 30

MOLD- Which Food Mold the Fastest

Madison DePrino & Alex DeFilippo George Fischer MS

Use Your Illusion

Chloe Dourmaskin PEARLS

Injected or Ingested

Brianna Ernest & Olivia Koehnlein School 30

Fingerprinting

Jack FriedmanEdgemont Jr/Sr HS

Texting Reactions

Nayab Khan PEARLS

The Egg-cellent Experiment

Ben Lee Edgemont Jr/Sr HS

Effect of High Fat/Sugar Food on Mice

Ammara Mehkri PEARLS

Code Blue

Peter Nicholas Rye Neck MS

UV-C Disinfection

Madelyn Reilly Thomas Jefferson Elementary Does the Color Of Your Eyes Have An Affect On How Well You See?

Aaron Serianni Rye Country Day Memory Capabilities and Limits of Physarum Polycephalum

Emerson Smith Garrison School

Planeria Regeneration

Catherine Sykes F.E. Bellows

Observation of the activity at the gorilla and sea lion exhibits at the

Bronx Zoo

CHEMISTRY

Jacob Anderson & Ethan Felenstein F.E. Bellows

Mentos vs. Altoids: Which is "cooler"?

Sophia Brady PEARLS

Best Balm, Let Your Lips Decide

CHEMISTRY

Amanda D'Ambrosio, Meghan Dillon George Fischer MS

& Bene Farrell Scoop on Stroup

Emma Henriksson Rye Neck MS What kinds of water are able to conduct electricity?

Jessica Hooper John Jay MS

What makes it Fizz?

Alek Maasik Garrison School

Corroding Metals

Liam McClain Rye Neck MS

The effect of sodium hydroxide on CO2

EARTH / SPACE

Eli Bayless School 30 How Ocean Depth Affects the Velocity of a Tsunami

Owen Boland George Fischer MS

From sap to Syrup

Deryn Hurst PEARLS

Tracking Geomagnetic Storms

Dakota Ramsey School 30

Air Resistance

ENGINEERING / TECHNOLOGY

Ryan Boron, Jonathan Marcuse Rye Neck MS

& Jonathan Shin

What is the most effective homemade water filter?

Jonathan Boxford Rye Neck MS

Fingerprinting

Chris Brown Rye Country Day

Reinventing the Wheel: Independent Electromagnetically Switchable Driver

ENGINEERING / TECHNOLOGY

Lily Ferraro F.E. Bellows

How much magnetic force would it take to turn a regular car into a magnetic levitation car?

Tyler Gilman Rye Country Day Renewable Energy Harvesting through Reverse Electrowetting

Jenny Gitter Edgemont Jr/Sr HS

Edible Engineering

Keegan Hess PEARLS

Plastic Vs. Wood, The Battle of the Domes

Stella Higgins & Savina Jannetti PEARLS

Invisible Signals

Kevin Heffernan, Kevin Horan George Fischer MS

& Nate Wolfe Repelling

Tinu Saju

How Pollution Effects Plant Life

Sonia Seth Edgemont Jr/Sr HS

My Wifi Isn't Working

Luke West & Ronan West F.E. Bellows

How much does modifying a nerf gun increase its range, speed and accuracy?

Edgemont Jr/Sr HS

ENVIRONMENT

Kianna Chabert School 30

Natural and Clean Water

Michael Clifford George Fischer MS

Water Filtration

Lucy Friedman Rye Neck MS

Do changes in the size and structure mesh filters influence the

efficiency of harvesting water from fog?

Swaneet Jha PEARLS

Biofuel From Cow Dung

ENVIRONMENT

Alex Jones & Owen Robertson Rye Neck MS

Are microbeads, such as those found in facial scrubs, bad for the

environment?

Ibrahim Salimi Edgemont Jr/Sr HS

Down With Dangerous Detergents

Ashley Stagnari John Jay MS

Salmon's Big Hit

HEALTH & MEDICINE

Olivia Auffarth & Ana Wilmer Rye Neck MS

How do different antiseptics on the market affect/inhibit bacterial growth in the mouth?

Sophia Engelen & Gabriella Messina F.E. Bellows

Does your age affect your flexibility?

Alex Kasel John Jay MS

What is Veganism?

Amelia Landis John Jay MS

Does Anxiety Reduce Test Performance?

Kathleen O'Sullivan George Fischer MS

Robot Revolution

Vivian Savard PEARLS

Marshmallow Substitutes

Shyla Singh Edgemont Jr/Sr HS

Caffeine Catastrophe or Nicotine Nightmare

Mateo Yepes George Fischer MS

Is Your House Really Clean?

MATH / COMPUTERS

Ariana Boswell & Anna McKee George Fischer MS

Telepathic Twins

Selwyn George & Jason Said PEARLS

Want to Make a Video Game?

Kyle Grgecic & Claire Missoum George Fischer MS

High Rollers

MATH / COMPUTERS

Molly Radigan & Aife Ruane

George Fischer MS

Hallo-HallowGrams

Gabriel Zolot

Edgemont Jr/Sr HS

Radical Radiation

PHYSICS

Evelyn Chiu Edgemont Jr/Sr HS

How Susceptible Are Fabrics to Static Electricity?

Evan Dunne Rye Neck MS

What makes the most effective parachute for free-falling objects?

Peter Gressler John Jay MS

The Hovercraft

Michelle Low Edgemont Jr/Sr HS

How to Build a Better Plane

Sophia Maron Schaeffer PEARLS

Can You Lift a Car With 2 Phone Books?

Gabriel Miller Rye Neck MS

How does sound travel in different viscosities and densities?

Dillon Nashelsky & Christian Thewes F.E. Bellows

Which bouncy ball will bounce the highest?

Gabrielle Nolan & Gabrielle Schnorbus PEARLS

Do Re Mi With Straws

Jeremie Thinat F.E. Bellows

Do frisbees with holes in the middle fly farther than ones without holes?

PYSCHOLOGY

Demetrie Gonzalez & Muzzammil Rasul School 30

Be someones reason to smile

Ronan Heaton Rye Neck MS

How do different ingredients affect the shape and taste of chocolate chip cookies?

PYSCHOLOGY

Jaime latorre F.E. Bellows

Do girls perceive optical illusions at a higher percentage than boys?

Sara Makulec & Chelsea Seidel Farragut MS

Is Texting Like Talking or Writing?

Reem Reihani School 30

If you try it will you buy it?

Nicholas Sanchez PEARLS

Road To A Better Load

Dahlia Seidel & Tilly Zwirn-Givnish Farragut MS

Do Our Emotions Affect our Perception?

Owen Steck PEARLS

Do Fears Change With Age?

Dosi Weed Garrison School

Does Color improve memory?

Naomi Young Rye Neck MS

The correlation between 7th graders self-esteem and bullying

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

Sidharth Anand Yorktown HS Breast Cancer Up Close: The Effect of TGF-beta and THP-1

treatments on EMT in breast cancer cells

Nathan Barnett Dobbs Ferry HS The Effect of rHIgM22 on the Rescue of OPC Differentiation by the

Phagocytic Removal of Myelin

Scarsdale HS **Daniel Beitler**

Investigating the Role of CD4 T cells in Red Blood Cell

Alloimmunization

Elaina Bruck Fox Lane HS Carbonyl Post Translational Modification of P4hb Protein in Type 1 Diabetes

Emily DeBitetto Fox Lane HS

The Differentiation of Multipotent Adult Stem Cells in Vitro

Nainika D'Souza Edgemont HS

Using zebrafish chemical genetics to identify new drugs for blood disorders

Olivia Dunne Rye Neck HS

Cell Reprogramming Through the Use of Transcription Factors

Anisha Duvvi Yorktown HS

The Molecular Basis of the Transdifferentiation of Embryonic Chick Limb Chondrogenic Precursors into a Beige Fate

Samuel Goldman Scarsdale HS

Phenotypes and Potential Genetic Interactions of the Centrosomal Protein of 309 kDa (CP309) in Drosophila melanogaster Muscle

Danielle Herman White Plains HS

Cytokine Analysis of anti-CD20 CAR Modified Natural Killer Cells for Safety and Anti-Tumor Toxicity Prognosis

Cole Hodys & Richard Wang Rye Neck HS

Taking Shortcuts: How Direct Reprogramming can Transform one Type of Cell into Another.

Dohun Jeong Edgemont HS

Finding a Combination Therapy to Enhance Natural Killer Cells' Antibody Dependent Cellular Cytotoxicity

Jane Milcetic Hendrick Hudson HS

The preference of female zebra finches (Taeniopygia guttata) for male zebra finches based on song and proximity

BIOLOGY

Katie Miles Sleepy Hollow HS

The effects of FBN1 mutations on the extracellular matrix of cardiomyocytes

Nathan PerryDobbs Ferry HS
Biological Rhythms in the Chambered Nautilus: Evidence for Central
Pattern Generator

Nivi Ravi Scarsdale HS Targeted Next Sequencing Profiling of Endometrial Cancer Tumors: Used for the Identification of Pathogenic Mutations

Nicole RussoGrowth Medium Affects Outer Membrane Vesicle Production in Pseudomonas aeruginosa

Hannah Ryjikov Edgemont HS

Developing Cell Models to Study Radiation Responses

Clifford Soloway Walter Panas HS Reprogramming of Metabolism in Cancer Cells Through Lysine Succinylation

Ambika Venkatakrishnan Scarsdale HS
Using Weighted Gene Co-expression Network Analysis to Identify
Modules Corresponding to the Insulinoma and Pancreatic Islet
Samples

Christopher WerniDo tadpoles matter? The influence of larval amphibians on an experimental food web.

Stephanie Zhang Fox Lane HS
The Effects of Gene Knockdown of Fhos, Act5C, and Gelsolin [31205] on Neurotoxicity with the Expression of Alpha-Synuclein

CHEMISTRY

Arjun ChattorajDobbs Ferry HS

Quantification of Styrene Migrations from Polystyrene under Real-Life

Conditions

Nathan Goldrich Edgemont HS Water Uptake by the Human Sodium/Multivitamin Transporter (hSMVT)

Marisa Santoli Rye Neck HS
The Effect of Temperature on the Chemiluminescence of Luminol in Solution

CHEMISTRY

Romina Tafreshi Edgemont HS
The Inhibitory Effect of Ascorbic Acid on the Anti-Hypoxic Genetic Pathway

EARTH / SPACE

Sergio Flores White Plains HS
The Effects of Loop Quantum Gravity Theory on Supermassive and
Normal Black Holes

Kalyani Gopalkrishna Edgemont HS The M&Ms Analysis: ESR Dating of the Megalopolis Site in Greece

Asha Grossberndt Fox Lane HS The Effects of Substrate Roughness on Lava Flow Velocity

ENGINEERING / TECHNOLOGY

Abigail Bonilla White Plains HS Protecting museum artifacts by finding baseline limits for allowable sound induced vibrations

Michael GrantDobbs Ferry HS
The Development of Super Storm Protective Infrastructure

Nikhil Rao-Pothuraju Edgemont HS
The Capture and Conversion of Carbon Dioxide to Natural Gas Using
Renewable Hydrogen from Solar or Wind Energy

Briana Ross The Ursuline School Comparing Effectiveness of Infrared and Ultrasonic Proximity Sensors on Quadcopters

Ian Silberzweig Edgemont HS
Forecasting Cumulative Pavement Deterioration on the New Jersey
Turnpike Resulting from the Panama Canal Expansion

Bennett Taylor & Catherine YooRye Neck HS
From Mind to Mechanics

Georgia VachonUsing modified Shade Balls and Pistia stratiotes to remove bromide from water.

Varun Wadhwa Rye Country Day An Inexpensive, Efficient, Multi-Platformed Neural Networking Algorithm to Track Eye Movement for Mechanical Applications.

Ethan Wilens Sleepy Hollow HS The Effect of Titanium Dioxide on Turf Fields

ENVIRONMENT

Sleepy Hollow HS

Heidy Arana

Using Camera Traps to Verify Short Tailed Weasels and Fisher at a Local Preserve

Elizabeth Bloom Dobbs Ferry HS

A Study of the Impact of Environmental Factors on the Migration Pattern of Anguilla rostrata in the Hudson River

Emma Boshart White Plains HS

The Effects of Stocking Triploid Grass Carp (Ctenopharyngodon idella), a Species used for Algae Control, in Freshwater Lakes

Isabella Brizzi Hendrick Hudson HS

Testing for the Most Effective Condition to Remediate Oil Spills Using a Baffled Flask Test, with the use of the Corexit 9500 Dispersant

Sarah Cosmedy The Ursuline School

Wildflower Regeneration in Post-Agricultural Forests and Potential for Restoration

Liam Cushen & Mariam Nagani Yorktown HS

A Comparison of the Nutritional Quality of Plants Grown Hydroponically and Traditionally

Signe Forsingdal Scarsdale HS

The Effect of Habitat Fragmentation on the Movements of Eurycea bislineata

Ida Henriksson Rye Neck HS

The Effect of Location on the Amount of Ozone in the Air

Sophia Norwood Sleepy Hollow HS

Phytoremediation of acetaminophen contamination in water using Pistia stratiotes and Lemna minor

Peter Psaltakis Westlake HS

The Effect of Dechlorination of Free Cyanide in Chlorinated Wastewater Effluent

Aneri Suthar White Plains HS

Chemically Induced Drought Resistance in Wheat Plants Through the Use of Phenolic Compounds and Gibberellic Acid

Rebecca Taylor Rye Neck HS

The Effect of Microwave Radiation on Living Organisms

Josephine Weidner Dobbs Ferry HS

An Assessment of Eutrophication in a Tributary Stream of the Hudson River

Emma AbramsonThe Use of EGb761 as a Potential Therapeutic Treatment for Alzheimer's Disease

Nadia Aniff Yorktown HS

Diagnosing Idiopathic Infertility: Correlating Vitamin D Levels with DNA Fragmentation in Spermatozoa

Alicia Bremnor The Ursuline School Analyzing the HIV/AIDS Knowledge of High School Students from Different Socioeconomic Households

Kulsoom Chaudhry Yorktown HS
The Role of Vimentin in Type-2 Diabetes Mediated Breast Cancer

Daryn ChinThe Ursuline School Adolescents' Awareness of and Exposure to Phthalates, Parabens, and Fragrance in Body Care Products

David Friedman & Jack Weitzner Sleepy Hollow HS Evaluating head accelerations in men's varsity lacrosse

Tasha GarayoVitamin B6 in the Diets of High School Students, and its Influence on Concentration, Immediate Memory Recall and Grade Point Averages

Rachel Herman White Plains HS
Parent, Adolescent, and Doctor Communication Regarding HPV
Vaccination and Other Standard Teen Health Topics

Zainab Javed Walter Panas HS Outcomes of Hypertrophic Cardiomyopathy vs. Hypertrophy of Any Other Cause

Michael KaufmannUnbiased Analysis of Gene Regulation and Glial Analysis in the MCAO Model of Stroke

Marie Komorowski Sleepy Hollow HS A Characterization of the Natural History of Recurrence of Breast Carcinoma after Breast Conservation Therapy in a Community Hospital

Michaela Kyer Yorktown HS
Fluoridated Community Water To Prevent Tooth Decay? Stopping a
Dangerous Trend with a Sustainable Alternative

Meneka Makhijani Walter Panas HS Recommendations for Patients With High Hemoglobin A1C Counts

Meenu Mundackal Westlake HS

Allergic Comorbidities in Children with Autism Spectrum Disorder: A Nationwide Population-Based Investigation

Charles Musoff Scarsdale HS

The Function, Localization, and Structure of a Long Non-Coding RNA, Linc-OSBPL6

Dahlia Notis Lakeland HS

Potential Utility of Optogenetics in the Study of Depression

Milena Nutrobkina Scarsdale HS

Deriving a Method for the Synthesis of Nitro-Fatty Acids out of Hemoglobin

Rory O'Brien Yorktown HS

The Effects of Spinal Cord Lesion on Motor Cortex Activity

Susan Paul White Plains HS

The Combination of Curcumin and Chemotherapy for the Suppression of Head and Neck Cancer Cells

Jeremy Pember Sleepy Hollow HS

The Effectiveness of Dewormer in Killing Parasites Depending on the Age of the Equus Ferus Caballus

Zubair Piperdi Edgemont HS

Selective Death of Leukemia Using Antibody Therapy

Federico Pollevick Dobbs Ferry HS

A Psychological and Physical Impact of Beverage Consumption on Performance

Nicolette Ribeiro Walter Panas HS

Evolution of Parental Confidence in Knowledge and Skill in the Home Care of Preterm Infants

Henry Roach White Plains HS

Determining Whether Plaques and Tangles are Indicative of Alzheimer's Disease

Jared Rosner Edgemont HS

The Role of Norepinephrine in Seizure-Induced Respiratory Arrest

Stefano Rozental Edgemont HS

Decreasing Postoperative Risk with the Lateralization of of Cerebral Language Processes in Verbal Nonverbal and Comprehension Tasks Using Electroencephalography

Natalie Samaranayake

White Plains HS

The Effects of Traditional Chinese Acupuncture on the Duration of Second Stage Labor in Patients Using Epidural Analgesia

Krishna Saraf

Edgemont HS

Intensity Dependent Effects of Trans-cranial Direct Current Stimulation on Hand Motor Function in Chronic Spinal Cord Injury

Matti Shaw-Patino

Fox Lane HS

Health Impacts on Daily Lives due to Common Daily Routine

Nikki Schoen

John Jay HS

Patients with REM Sleep Behavior Disorder Demonstrate Abnormalities Consistent with Early Parkinson's Disease

Lauren Singer

Scarsdale HS

IGF-1 Secretagogue as a Potential Treatment for Social Memory Deficits associated with SHANK3-Deletion Autism

Jessica Smith

Fox Lane HS

The Effects of Environmental Tobacco Smoke on Obstructive Sleep Apnea Syndrome in Children

Nikash Taskar

Edgemont HS

Fluorescein as a Fluorescence Contrast Agent for High-Speed Strip Mosaicing Confocal Microscopy in Laser Ablated Cutaneous Basal Cell Carcinoma Tissue

Celeste Thurn

Dobbs Ferry HS

The Effects of Tai Chi on the Cardiovascular Health of Advanced and **Novice Participants**

Shane Tomaino

Rye Country Day

Optimizing Human Energy: Water purification and transport in Africa

Annling Wang

Scarsdale HS

Protein Bioactivity on PEG Hydrogels for Tissue Engineering

Cliffton Wang

Edgemont HS

Role of 20-HETE in Vascular Remodeling

Chelsea Washington

White Plains HS

The Effects of Lactation on Reducing the Risk for Breast Cancer

Maya Weber

Edgemont HS

The Role of Atrial Fibrillation in High-Risk Patients Undergoing

Transcatheter Aortic Valve Replacement

Max Worobow Edgemont HS

Evaluating Joint Attention and Peer Play in relation to the Early Diagnosis of Autism Spectrum Disorder

Lin Xie Briarcliff HS

A Proteomic Approach to Discovering Tumor Specific Peptides for Cancer Immunotherapy

Steven Yeung White Plains HS

Potential Benefits to Blood Pressure as a Result of Drinking Tea

MATH / COMPUTERS

Zachary Lev Byram Hills HS

The impact of age and games played on predicting points per minute for shooting guards in the NBA

Alexander Paskov Edgemont HS

Decoding DNA through the Extraction of N-Gram Data

Brian Poor Fox Lane HS

From Three Dimensional Fate Maps to the Visualization of Multi-dimensional Data

Ronin Sharma Ardslev HS

Analysis of Factors Leading to the Allergenicity of Proteins

Bailey Winston Byram Hills HS

Sabermetrics: The importance of advanced measures of player performance in building a successful Major League Baseball team

PSYCHOLOGY

Emma Bilton & Hannah Bilton Yorktown HS

The Impacts of and on Care Giving for an Person With Epilepsy

Elena Brown Dobbs Ferry HS

Psychological Effects of Gender Bias in Golf on Women

Hannah Brown Dobbs Ferry HS

The Structural and Functional Alterations to the Brains of Rat Pups as a Result of Early Life Abuse and Neglect

Maya Carvalho-Evans Sleepy Hollow HS

Improving Working Memory: Using Cognitive Training in Children

PSYCHOLOGY

Angela Ciacci

The Ursuline School

Relationship Between the Amount of Time Spent on Instagram and Self-Esteem in Female Teens

Miah Cohall

Walter Panas HS

A Sleep Study for Teens by Teens

Amala Davis

White Plains HS

Relationship between the amount of time spent on social media and happiness, depression, anxiety, and stress levels

Sarah Espinoza & Jordyn Fields

White Plains HS

The Effects of Music Interventions on Immediate Short Term Stress in High School Adolescents

Jewel Estrella, Matthew Ponticiello

Rye Neck HS

& Zachary Tenner

How parental satisfaction varies based on involvement and communication based on contact and quality time spent with children using the PCRI tool.

Christopher Florez

Ardsley HS

Describing Restricted and Repetitive Behaviors in Autism Spectrum Disorder by Screening Instruments

Josephine Galeotafiore

Sleepy Hollow HS

The effect of the words "Common Core" on student test anxiety

Joanna Goodman

Blind Brook HS

The Impact of Attention-Deficit/Hyperactivity Disorder on the Interpersonal Relationships of Adults 12 Years of Age or Older

Nikolas Greenwald

Dobbs Ferry HS

Improving Singing Synthesis: Prepping a Digital Diva for the World Stage

Sofia Guarnieri

Sleepy Hollow HS

The Effect of Synchronous Music in Swimming

Talia Hayes

Sleepy Hollow HS

The Effects of Timed Exams on Academic Performnace and Mood

Dennis Heffernan

White Plains HS

Effectiveness of Various Technological Interventions on Obesity in Firefighters

Evelyn Hong

Rve Neck HS

Quattrone and Tvorsky's Experiment on Self-Deception.

PSYCHOLOGY

Samantha Horowitz & Sabrina Sinagra Yorktown HS

The Impact of Doctor-Patient Relationships on Patients with Epilepsy

Caroline Kachnowski Sleepy Hollow HS

The Factors That Affect Risk Tolerance in Girls and Boys

Dexin Li Scarsdale HS

Examining a Chess Decision Making Bias: Is it Risk Averse or

Misperceptions?

Christina Markopoulos Walter Panas HS

Investigating Perceptions of Learning Disabilities Among High School

Students

Elisa Mateo-Saja White Plains HS

The Effects Post Traumatic Stress Disorder on the Quality and

Frequency of Dreaming in Adolescents

Anna Nakagama Rye Neck HS

The Compelling Effects of Simply Staring (Understanding the Scientology Mindset).

Steven Patterson White Plains HS

The Effect of Cellphone Use on Sleep and Dreaming in Adolescents

Natalie Quintero Dobbs Ferry HS

Children's Developing Conceptions of Teachers and Mother

Reed Rosenberg Edgemont HS

The Adoption Microaggressions Project

Seth Rosenblatt White Plains HS

The Effects of Delaying School on Adolescents Regarding Time Spent Sleeping, Attentiveness, and Emotional Well-Being

Emily Schalkham Carmel HS

Criminal Personality: The difference between the criminals and the lawful

Talibe Vasquez

White Plains HS

Measuring the Outcome of Therapeutic Horseback Riding on

Adolescents with Physical and Mental Disabilities

EshanaWeerasinghe

Edgemont HS

A Further Investigation of Backward Aftereffects in the Conventional

Adaptation Paradigm





PEGGY LYNCH

Peggy Lynch has been a Tri County Science Technology Fair volunteer since the beginning. She quickly went from being a regular volunteer to running and managing the concession division. She is now The Special Events Committee Leader at The Putnam Children's Discovery Center. Peggy has been with the Discovery Center for almost 20 years. She has written curriculum for the pre-school science programs and was the Birthday Party Coordinator for over 5 years.

For the past 20 years Peggy has been a preschool teacher,. Her love of science and young people has her almost 8 years at The Seed in Yorktown. Peggy regularly volunteers in Putnam County and taught 15 years in the CDC program at St James, (Carmel, NY). A mother of one boy, Peter and three girls, Kira, Caroline & Mary; Girl Scouts was a natural fit, working with Girl Scout leaders and at Rock Hill Girl Scout camp 12 years . She can also be found at Kohls volunteering with their Associate in Action program.

