

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

WINNER	SCHOOL	PROJECT TITLE
AMERICAN CHEMICAL SOCIETY - MID_HUDSON		
Nancy Wright	Wappingers Junior High School	Pool Disinfectants
Lindsey Lolkema	Brinckerhoff Elementary School	Inflating Balloons Using Vinegar and NaHCO ₃
Gautam Mekkat	Spackenkill High School	Boron-Doped Graphene Aerogel as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity
Amanda Reeves	St Mary Fishkill	Coming Clean With Enzymes- Are Detergents with Enzymes More Effective at Removing Food Stains than Detergents Without?
Selenna Santoro	St Mary Fishkill	Floating on the Surface
Olivia Spagnola	St Martin de Porres	DNA Electrophoresis
Arun Dass	LaGrange Middle School	Ion Propulsion- Future Space Travel
Kellan Harris	Union Vale Middle School	Never Trust an Atom; They Make Up Everything!!
Molly Hormel	Evans Elementary School	Keeping Drinks Hot Hot Hot!
Hamza Chaudhry	Myers Corners Elementary School	Which pill dissolves faster?
Sri Drishaal Kumar	John Jay High School	Aluminium vs. Gallium
Krishna Sikka	St Martin de Porres	Acidity of Juices
Shreyas Babu	Van Wyck Junior High School	Hydrogen Power
Jordan Margiotta	Union Vale Middle School	Elephant Toothpaste
Alexandra Diminico	Fishkill Plains Elementary School	Saltwater Battery Experiment
Samuel Thomas	Sheafe Road Elementary School	Exothermic and Endothermic Reactions Experiment
Skyler Fountain	Millbrook Middle School	As Sweet as Sugar
Kevin Thomas	Gayhead Elementary School	Liquid Evaporation Rate
Ediong Klyanna	St Mary's Wappingers	How Sweet is It?
Puneet Dhaliwal	Roy C. Ketcham High School	Aspirin's Effect on Plants
Pamela Yang	Arlington High School	Investigating the Properties of Water after the Dissolution of Sugar and Salt
Kevin Martino	Poughkeepsie Middle School	Effect of Sugar Solutions on Plants
Zarmina Chaudhry	Roy C. Ketcham High School	Carbonated Water and Antacid Pills
Harith Arra	John Jay High School	Salt Water vs. Gatorade- The Electrolyte Challenge
Aidan Yen	Titusville Intermediate School	"How Clean Are Your Veggies"
AMERICAN METEOROLOGICAL SOCIETY		
Rahul Dhawan	Spackenkill High School	The Effect of Weather Variables on the Population Dynamics of White-Footed Mice
Gianna Shaw	Poughkeepsie Middle School	Does Weather Affect Mood?
AMERICAN PSYCHOLOGICAL ASSOCIATION		
Aena Iqbal	John Jay High School	The comparative study of the effects of my minimal status exam (MMSE) vs. standard MMSE in elderly
AMERICAN STATISTICAL ASSOCIATION		
Laura Yang	Spackenkill High School	Predicting Undiscovered Tick Vectors of Zoonotic Disease
Matthew Chu	Arlington High School	Characterization of Cepheid Variable Stars Using Differential Photometry and Digital Image Analysis
Owen Patterson	Arlington High School	Regression Analysis of the Economy

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

ASSOCIATION for WOMEN GEOSCIENTISTS

Minali Abraham-Aggarwal	Dutchess Day School	What type of water purification method is more effective in removing bacteria: boiling or UV treatment?

CARY INSTITUTE of ECOSYSTEM STUDIES

Anna Khakhalina	Linden Avenue Middle School	Testing the Intermediate Disturbance Hypothesis
Jaymin Bhatt	John Jay High School	Microwave Radiation Effect on Plant Seed Germination
Abigail Gagnon-Vishnefsky	St Mary Fishkill	The Underlying Problem: Aerobic vs. Anaerobic Biodegradation to reduce methane emission from landfills and waste piles

CENTRAL HUDSON GAS & ELECTRIC - ENERGY PROJECT AWARD

Gautam Mekkat	Spackenkill High School	Boron-Doped Graphene Aerogel as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity
Arun Dass	LaGrange Middle School	Ion Propulsion- Future Space Travel

CLEARWATER SLOOP ENVIRONMENTAL AWARD

Abigail Gagnon-Vishnefsky	St Mary Fishkill	The Underlying Problem: Aerobic vs. Anaerobic Biodegradation to reduce methane emission from landfills and waste piles
Matthew Badia	Pawling High School	Analysis of Orconectes Immunis Exposed to Varying Concentrations of Amphetamine, Triclosan, and Fluoxetine in Hudson River Water
Kim Marie Bonanno	Pawling High School	The Effects of Light Intensity on the Survival and Growth of Crassostrea Virginica
Olivia Lucal	Alden Place - Millbrook	The Effects of Contaminates on the Heating Capacity of Water
Emma Stalteri	Dutchess Day School	Effect of Acids on a Mussel Shell
Ashish Thomas	St Mary Fishkill	Wind Turbines- Harnessing the Power of a Renewable Resource

DUTCHESS COUNTY DENTAL SOCIETY

Zarina Chaudhry	Roy C. Ketcham High School	Carbonated Water and Antacid Pills
Carter Lee	Hagan Elementary School	"Caffeine vs. Your Teeth"
Ediong Klyanna	St Mary's Wappingers	How Sweet is It?
Katie Kaylor	Hagan Elementary School	Whose Mouth is Cleaner?
Aidan Adler	Hagan Elementary School	What's Rotting Your Teeth Man?
Jordan Margiotta	Union Vale Middle School	Elephant Toothpaste

EMILY O'NEILL EFFECTIVE DISPLAY AWARD

Sarah Choudhury	Spackenkill High School	The Cytotoxic and Mutagenic Effects of Arsenic on Mammalian Cells and the Countering Antioxidant Effects of Caffeic Acid Phenethyl Ester and Turmeric

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

ENVIRONMENTAL DEFENSE FUND IN MEMORY OF WESLEY PFIRMAN		
Kim Marie Bonanno	Pawling High School	The Effects of Light Intensity on the Survival and Growth of Crassostrea Virginica
Keertana Talla	John Jay High School	Reducing "Soil Erosion" with Starch and Biopolymer Aqueous Solutions
Abigail Gagnon-Vishnefsky	St Mary Fishkill	The Underlying Problem: Aerobic vs. Anaerobic Bio-digestion to reduce methane emission from landfills and waste piles
Macey Veeder-Shave	St Mary's Wappingers	How Green are your Clothes
Ashish Thomas	St Mary Fishkill	Wind Turbines- Harnessing the Power of a Renewable Resource
Sage Devincenzi	Fishkill Elementary School	Keeping It Clean
GEORGE E. BANTA AWARD		
Aleen Kirmani	John Jay High School	Digest it
Abigail Gagnon-Vishnefsky	St Mary Fishkill	The Underlying Problem: Aerobic vs. Anaerobic Bio-digestion to reduce methane emission from landfills and waste piles
Katie Thorn	St Peter's	Worms and Composting
Ediong Klyanna	St Mary's Wappingers	How Sweet is It?
Suhiliah Lall	Brinckerhoff Elementary School	5 Second Rule: fact or fiction
IBM SPECTRUM DIVERSITY NETWORK GROUP		
Theodore DeGuzman	St Martin de Porres	Energy for a Future World: Wind Turbines
Aena Iqbal	John Jay High School	The comparative study of the effects of my minimal status exam (MMSE) vs. standard MMSE in elderly
Krishna Sikka	St Martin de Porres	Acidity of Juices
Taskinuddin Forkan	Roy C. Ketcham High School	Bacteriophage Viruses: Future Antibiotic Replacement?
Ashish Thomas	St Mary Fishkill	Wind Turbines- Harnessing the Power of a Renewable Resource
Sanjay Natesan	Van Wyck Junior High School	How Strong is Your Password?
Edyan Serrano	Poughkeepsie Middle School	Does Dry Ice Cool Faster than Wet Ice?
Madison Boschulte	Roy C. Ketcham High School	Recognizing Tonal Differences
Emma Hall	St Martin de Porres	Determining the Most Effective Soundproofing Material
Gabriella DeGuzman	St Martin de Porres	Preventing Light Reflection
Tanmayee Talla	Van Wyck Junior High School	A Natural "Water Filter"
Keertana Talla	John Jay High School	Reducing "Soil Erosion" with Starch and Biopolymer Aqueous Solutions
Matthew Pryluck	Fishkill Elementary School	Water Temperature and Plant Growth
Zayd Anwar	Spackenkill High School	Testing the Sensitivity of Ovarian Cancer Cell Lines to a Toxin of Bacterial Origin
Alex Giangrasso	Our Lady of Lourdes	The Beat Is On
Tarifa Adam	St Mary Fishkill	Lights of Life, Let Them Glow Bioluminescence
INTEL EXCELLENCE in COMPUTER SCIENCE		
Owen Patterson	Arlington High School	Regression Analysis of the Economy
JERRY LIEBERMAN MEMORIAL AWARD		
Rohan Ganesan	Van Wyck Junior High School	Reward or Punishment- Which is Better?
Benjamin Yager	Millbrook High School	Driving towards less emissions

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

LAYA VARANASI EFFECTIVE DISPLAY AWARD

Luciano Hoinkis	St Mary Fishkill	Into the Wind

MID-HUDSON ASTRONOMICAL ASSOCIATION

Arun Dass	LaGrange Middle School	Ion Propulsion- Future Space Travel

MID-HUDSON COMPUTER USER GROUP

Sanjay Natesan	Van Wyck Junior High School	How Strong is Your Password?
Gavin Powell	Brinckerhoff Elementary School	Personality Effect on Minecraft Mazes
Jadon Lau	Van Wyck Junior High School	Using Parabola to Boost Wi-Fi
Ahona Mukherjee	Union Vale Middle School	Smarter Robotic Control Using Arduino Uno and Sensors
Brian Wu	Arlington High School	Exploration of computer assisted solving of Rubik's cube via genetic algorithms

MID-HUDSON PHOTOGRAPHY CLUB

Keertana Talla	John Jay High School	Reducing "Soil Erosion" with Starch and Biopolymer Aqueous Solutions

MID-HUDSON VALLEY GEM and MINERAL SOCIETY

Reed Frederick	Brinckerhoff Elementary School	Stalactites and Stalagmites
Justin Hilal	St Martin de Porres	A penny for your thoughts: electroplating with pennies
Mitchel Stanco	St Mary Fishkill	Harmonic Rock!
Keertana Talla	John Jay High School	Reducing "Soil Erosion" with Starch and Biopolymer Aqueous Solutions
Gautam Mekkat	Spackenkill High School	Boron-Doped Graphene Aerogel as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity

MID-HUDSON VALLEY NEW HIRE NETWORK

Gavin Powell	Brinckerhoff Elementary School	Personality Effect on Minecraft Mazes
Mitchel Stanco	St Mary Fishkill	Harmonic Rock!
Brian Wu	Arlington High School	Exploration of computer assisted solving of Rubik's cube via genetic algorithms
Justin Hilal	St Martin de Porres	A penny for your thoughts: electroplating with pennies

MU ALPHA THETA

Matthew Chu	Arlington High School	Characterization of Cepheid Variable Stars Using Differential Photometry and Digital Image Analysis

NANCY PFIRMAN SCIENCE AWARD

Amanda Johnson	Hagan Elementary School	"There's a Reason to Slap on a Cap!"

NASA EARTH SYSTEM SCIENCE AWARD

Matthew Chu	Arlington High School	Characterization of Cepheid Variable Stars Using Differential Photometry and Digital Image Analysis

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

NATIONAL ASSOCIATION of BIOLOGY TEACHERS		
Elizabeth Greene	St Mary Fishkill	DNA Damage
Zayd Anwar	Spackenkill High School	Testing the Sensitivity of Ovarian Cancer Cell Lines to a Toxin of Bacterial Origin
NATIONAL SOCIETY of BLACK ENGINEERS		
Alexia Miller	Poughkeepsie Middle School	Do Some Colors of M&M's Melt Faster Than Others? or The Effect of Heat on M&M's
Teshley Kamen	Union Vale Middle School	Recovering Heat Lost in a Boiler Flue- Flue Gas Heat Recovery System
Saathvika Nagareddy	Brinckerhoff Elementary School	Nano Technology and Oil Spills
Gautam Mekkat	Spackenkill High School	Boron-Doped Graphene Aerogel as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity
Sophia O'Brien	St Martin de Porres	Is This Still Good? Do Sub-Zero Refrigerators Keep Food Fresher?
Estefani Rojas	Poughkeepsie Middle School	Does the type of fertilizer affect plant growth?
Tessa Fountain	Millbrook Middle School	The Motivation Situation
Jadon Lau	Van Wyck Junior High School	Using Parabola to Boost Wi-Fi
NATIONAL OCEANIC and ATMOSPHERIC ADMINISTRATION		
William Farrell	St Mary Fishkill	Up, Up and Away
POUGHKEEPSIE FARM PROJECT		
Katie Thorn	St Peter's	Worms and Composting
POUGHKEEPSIE-ARLINGTON ROTARY CLUB		
Sanjay Natesan	Van Wyck Junior High School	How Strong is Your Password?
RACHEL PERFECTO EFFECTIVE DISPLAY AWARD		
Ashish Thomas	St Mary Fishkill	Wind Turbines- Harnessing the Power of a Renewable Resource
REBECCA & DAVID IDELL DISPLAY AWARD		
Keshav Ramji	Union Vale Middle School	Designing an Artificial Pancreas
ROBERT VERKUIL EFFECTIVE DISPLAY AWARD		
Brian Raynor	St Mary Fishkill	Hot vs. Cold: The effect of temperature on solar cell output
SOCIETY of PLASTICS ENGINEERS		
Matthew Chu	Arlington High School	Characterization of Cepheid Variable Stars Using Differential Photometry and Digital Image Analysis
Macey Veeder-Shave	St Mary's Wappingers	How Green are your Clothes
Mei Rao	St Martin de Porres	Effect of Photosynthesis on Carbon Dioxide

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

SOCIETY of WOMEN ENGINEERS

Sarah Choudhury	Spackenkill High School	The Cytotoxic and Mutagenic Effects of Arsenic on Mammalian Cells and the Countering Antioxidant Effects of Caffeic Acid Phenethyl Ester and Turmeric
Aena Iqbal	John Jay High School	The comparative study of the effects of my minimal status exam (MMSE) vs. standard MMSE in elderly
Shahana Lahiri	LaGrange Middle School	Strength of One Can Pull a Ton
Amanda Reeves	St Mary Fishkill	Coming Clean With Enzymes- Are Detergents with Enzymes More Effective at Removing Food Stains than Detergents Without?
Abigail Gagnon-Vishnefsky	St Mary Fishkill	The Underlying Problem: Aerobic vs. Anaerobic Biodegradation to reduce methane emission from landfills and waste piles
Keertana Talla	John Jay High School	Reducing "Soil Erosion" with Starch and Biopolymer Aqueous Solutions
Mei Rao	St Martin de Porres	Effect of Photosynthesis on Carbon Dioxide
Soumya Kamada	Hagan Elementary School	Seal to Heal
Sophia O'Brien	St Martin de Porres	Is This Still Good? Do Sub-Zero Refrigerators Keep Food Fresher?

UNITED STATES AIR FORCE

Kunal Mohindra	Home Schooled	Role of Drone as First Responder in Natural Disasters
Alex Xin	LaGrange Middle School	Research on Efficient Heat Power Distribution in Microwave Oven
Michaela Dropkin	Roy C. Ketcham High School	Recognition vs. Recall
Gautam Mekkat	Spackenkill High School	Boron-Doped Graphene Aerogel as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity

UNITED STATES METRIC ASSOCIATION

Sebastian Kaldor	Gayhead Elementary School	Mechanical Advantage of a Pulley System

UNITED STATES NAVY & MARINE CORPS

Gautam Mekkat	Spackenkill High School	Boron-Doped Graphene Aerogel as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity
Albert Zhu	Our Lady of Lourdes	The Study of Earthquakes by an Earthquake Simulator
Shreyas Babu	Van Wyck Junior High School	Hydrogen Power
Luciano Hoinkis	St Mary Fishkill	Into the Wind
Owen Connolly	St Mary Fishkill	Wi-Fi Enhancement
Tyler Barresi	Fishkill Elementary School	Electro Magnetic Missile

UNITED STATES STOCKHOLM JUNIOR WATER PRIZE

Zarina Chaudhry	Roy C. Ketcham High School	Carbonated Water and Antacid Pills

WESLEY PFIRMAN MEMORIAL AWARD

Sahana Natesan	John Jay High School	Study of Zebra Mussel Shell Morphology in the Hudson River

Dutchess County Regional Science Fair

Special Awards - April 2, 2016

WIC & CORNELL COOPERATIVE EXTENSION DUTCHESS COUNTY

Saathvika Nagareddy	Brinckerhoff Elementary School	Nano Technology and Oil Spills
Tanmayee Talla	Van Wyck Junior High School	A Natural "Water Filter"
Minali Abraham-Aggarwal	Dutchess Day School	What type of water purification method is more effective in removing bacteria: boiling or UV treatment?
Matthew Badia	Pawling High School	Analysis of <i>Orconectes Immunis</i> Exposed to Varying Concentrations of Amphetamine, Triclosan, and Fluoxetine in Hudson River Water
Sahana Natesan	John Jay High School	Study of Zebra Mussel Shell Morphology in the Hudson River

YALE SCIENCE & ENGINEERING ASSOCIATION

Matthew Chu	Arlington High School	Characterization of Cepheid Variable Stars Using Differential Photometry and Digital Image Analysis
-------------	-----------------------	---