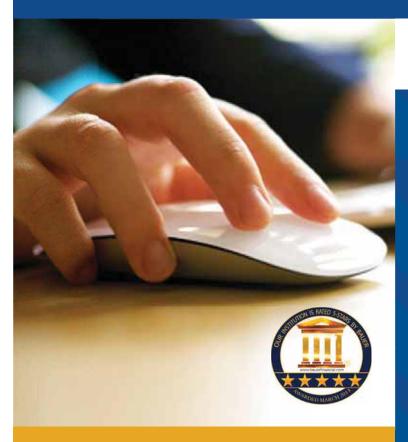




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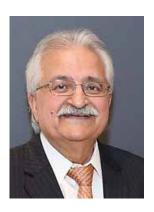
Sunita Saini



Rekha Chichara



Shashi Malik



Prof. Subash Midha Chairperson, Science Fair





Dr. Kusum Sinha, Ed.DSuperintendent of Schools
Garden City Public Schools

Dr. Sinha began her professional career as a social worker and moved into educational administration almost 20 years ago as Assistant and then Director of Pupil Personnel Services for the Goshen Central School District. Seven years later, she joined the Croton-Harmon UFSD serving first as Director of Pupil Personnel Services and Personnel, and then as Assistant Superintendent of Schools overseeing special education, curriculum and instruction, technology and human resources. Before joining Chappaqua in 2015 as Assistant Superintendent for Human Resources and Leadership Development, Dr. Sinha served as Assistant Superintendent for Human Resources in the Ramapo Central School District and as Assistant Superintendent for Curriculum and Instruction in Briarcliff Manor UFSD.

Dr. Sinha earned her Ed.D. in Instructional Leadership from St. John's University, her MS in Clinical Social Work from Columbia University, a BS in Social Work from Dominican College of Blauvelt, and her Associates Degree in Liberal Arts from Orange County Community College. She received her Certificate of Advanced Study in Educational Administration from SUNY New Paltz, attended the Educational Policy Fellowship Program at Columbia University, Teachers College, and the Program on Leadership and Negotiations at Harvard University. Dr. Sinha has presented to various state and regional audiences in the areas of APPR, special education and IDEA, Universal Design, curriculum alignment and accountability, cultural diversity, ESL, and the parent-school partnership.



T hanks

We are grateful to our Supporters, Sponsors and Judges of Science Fair, without whose help we could not have organized Science Fair.

Judges of Science Fair

Dr. Arti Datta, Dr. Rajiv Datta, Dr. Sonia Talwar, Dr. Arunabh Talwar, Dr. Bret Bennington,

Dr. Ellen McCulloh, Dr. David McCulloh, Dr. Kumkum Prabhakar, Dr. Teresa Anthony,

Dr. Alison Huenger, Alan Schorn, Edward Irwin, Erin Garland, Jeanine Cupo, John Schineller,

Mary Simons, Paul Paino, Peter Suchman, Rohe Sheikh, Samantha Sforza,

Dr. Suhasini Jonnavithula, Dr. Shreenadh Jonnavithula, Stephanie Arena, Virginia Flanigan,

Anil Jain, Dr. Bhavani Srinivasan, Dr. Neeraj Goswamy, Dr. Rajesh Kakani, Dr. Richard Seibert,

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Science Fair 2019



















Science Fair 2019



















BEHAVIORAL SCIENCE

First Place: \$250

Katie Winter - Paul D. Shrieber High School

The Relatioship Between Communication And The Formation Of Social Hierarchy In Crayfish

Jaime Levine - Paul D. Shrieber High School

The Relationship Between Race And Maternal Age And Offspring Psychiatric Outcomes Of Schizophrenia And Bipolar Illness

SAAWA Excellence Award- \$200

Gabriella Perchekly- Plainview-Old Bethpage John F. Kennedy High School

A Study Of Social Evaluation Processes On Compartive Assessments And Interaction Satisfaction In The Hurnan-Robot Interaction (Hri)Domain

Juliana Stanzaini- Plainview-Old Bethpage John F. Kennedy High School

The Effect Of Delayed Discounting Of Consequences And Future Self isualization On Likeness To Perform Risky Behaviors

Second Place: \$150

Jennifer Katz and Ella Shusterman – North Shore Hebrew Academy High School

Mirror Imaging

Ihtesham Khan, Liam Davidson and Samir Patel- Sayville High School

Geofencing Location To Improve The Safety Outcomes Of Individuals At Risk Of Elopement

Third Place: \$100

Danielle Gruber – Great Neck Norh High School

The Role Of Working Memory In The Ordinal Judgment Task

Honorable Mention:

Preethi Kumar - Great Neck Norh High School

The Association Of Trust Afforded To Uniformed Police Officers And The Race Of Police Officers

Samuel Levtan – Mineola High School

Social Media's Impact On The Academic Productivity Of American Neurosurgeons

Julianna Fryman – Plainview-Old Bethpage John F. Kennedy High School

The Impact Of Communal Characteristics And Gender On The Critical Evaluation Of Business Professional

Ivleen Singh- Plainview-Old Bethpage John F. Kennedy High School

The Effect Of Parental Pressure On The Emotional Intelligence Of First Generation Americans

Ashley Strauss- Plainview-Old Bethpage John F. Kennedy High School

The Asymmetric Dominance Effect On The College Decision Process

SAAWA Future Scientiest Award 9th Grade: \$100

Madison Elias-Seaford High School

The Effect Of Green Tea On The Memory Of The Lymnoea Stagnalis



BIOLOGY

Judges' Choice Award: \$500

Ian Baily - Garden City High School

The Cardiovascular Effect Of Electronic Cigarette Components On Daphnia Magna; An Investigation Into Decreased

Heart Elasyicity

First Place: \$250

Zeynep Tasoglu and Maryum Waqar – Commack High School

A Study Of Resistance In E-Coli K12 Under The Influences Of Hydrogen Peroxide And Amoxicilin

Second Place: \$150

Ankita Patel - Mineola High School

The Effect Of Seasonal Changes And The Rebuilding Population On The Migration Of Juvenile Carcharhinus Plumbeus

Sharks To Nursery Areas.

Jessica Kessler - Mineola High School

The Inhibitory Effects Of Oolong Tea On E. Coli

Kyle Dunn – St. Anthony's High School

Increased Salinities And Phytotoxic Pesticides On Photoremediation Of Lemma Minor L

Sonia Sarju-Sanford Calhoun High School

Effects Of Hypoxic Conditions On The Phototaxicity Of Bugula Stolonifere And Bugula Neritina

Third Place: \$100

Hugo Amador – Mineola High School

The Effect Of Laminin On The Outgrowth And Elongation Of Neurites And Effective Establishment Of Synaptic Structures.

Terence Lin – St. Anthony's High School

The Therapeutic Effects Of Leupeptin Upon Tourniquet-Induced Hindlimb Ischemia Reperfusion Injuries In Rats

Honorable Mention:

Colleen Talty - Mineola High School

The Inaccuracy Of Micropipette Dispensing In Comparison To The Acoustic Droplet Ejection Method

Jason Linzer – Seaford High School

The Effect Of Aerobic Exercise On The Cognitive And Academic Performance Of High School Students

Olivia Tice - Seaford High School

A Forensic Based Study Of The Reaction Of Dermestid Beetles To Food Laced With Common Chemicals

Julia Gambino, Kathleen Touchy and Kaylee Sanderson – Seaford High School

Antbacterial Abilities Of Seawood Orginating From The South Shore Of Long Island, NY

Danielle Reale - St. Anthony's High School

The Effects Of Cmc On The Mmp-9 Enzyme On Periodontal Disease In A Population Of Rats

Priya Mukhi – Ward Melville High School

Does Contrast Enhancement Of Axillary Lymph Nodes Predict Response To Neoadjuvant Chemotherpy?



SAAWA SCIENCE FAIR 2019 AWARD WINNERS

PHYSICS

First Place: \$250

Sean Pak – Commack High School

Artifical Neural Network Based Target Localization Method For Multi-Static Passive Radar Systems And Receiver Noise

Performance Optimization

Second Place: \$150

Stanley Kong – Manhasset High School

Different Methods Of Cooling To Increase Temperature Gradient Of Thermoelectric Generators For Electricity

Production

Third Place: \$100

Ryan Huang - Manhasset High School

Computing Convex Hulls Through Unpaired Image Translation With Cycleconsistent Adversarial Networks

ENVIRONMENTAL SCIENCE

Judges' Choice Award: \$500

Alana Ginsberg and Elizabeth Wu- Manhasset High School

Improving Metal-Air Battery Design Through The Modification Of Electrolytes And Integration Of Repurposed Waste Materials

First Place: \$250

Serena Zhao and Samantha Chen-Manhasset High School

Optimizing The Removal Of Methylene Blue From Aqueous Solution Using Cucurbita Pepo And An Analysis Of

Desorption Efficiency And Material Reusability

Second Place: \$150

Sanjana Kedia and Emma Wang - Manhasset High School

Using Bacillus Subtillisand Bacillus Thuringiensis Spores To Generate An Evaporation Driven Engine In Response To

Changing Humidity Levels

Third Place: \$100

Thomas Rowan and Julius Yoh - Manhasset High School

How Do the Effect Of Ca2+ And Mg2+ Concentration On Membrane Remediation In An Electrodialysis Process

Honorable Mention:

Wilson Hu - Manhasset High School

Automatic Irrigation System Using An Arduino

Caitlin Kim - Manhasset High School

The Use Of Hydroponically Grown Brassica Rapa In The Phytoremediation Of Copper Sulfate Contaminated Water



CHEMISTRY

Judges' Choice Award: \$500

Danielle Kelly- Friends Academy And Audrey Shine – Plainview-Old Bethpage John F. Kennedy High School Application Of Electrospinning Deposition Of Graphene Oxide And Poly(Acrylic Acid)-Platinum/Carbon Catalyst Ink To Enhance Polymer Eletrolyte Membrance And Fuel Cell Performance

First Place: \$250

Kevin Souhrada- Bayshore High School

Identification Of Micrometeorites Through Synchrotron Analysis

Second Place: \$150

Leah Hochman – Freeport High School

Determination Of Critical Coagulation Concentration Of Gold Nanoparticles

Third Place: \$100

David Yang and Michael Jang-Commack High School

Creation Of Photo Activated Drug Delivery Devices

Honorable Mention:

Kevin Gauld and Ethan Horowitz - Manhasset High School

Evaluating The Effectiveness Of Metal Alloys Against Their Components In The Electrocoagulation Of Bacteria Contaminated Water

Fair Ali – Freeport High School

Impact Of Cooking Procedures On Mercury Retention In Fish

Vera Cho and Joelle Siong Sin – Great Neck Norh High School

Olivine Dissolution Experiments As An Analog To Martian Basalt Weathering

Jamie Levy and Mansi Kothari - Plainview-Old Bethpage John F. Kennedy High School

Utilizing Haematococcus Pluvials Algae Produced Astatanthin To Block Uva Radiation

SAAWA STEM AND COMMUNITY SERVICE AWARDS 2019

First Place: \$250

Jacqueline Balestrieri – St. Anthony's High School

Second Place: \$150

Caitlin Berne - St. Anthony's High School

Third Place: \$100

Sarah Keane - Seaford High School Priya Mukhi - Ward melville High School

Honorable Mention:

Rosa Medina - Freeport High School

Senya Huda - Sanford H Calhoun High School

Julia Gambino - Seaford High School Nicole Holowat - Mineola High School Anish Pisipati - Half Hollow Hills High School



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