

# SAAWA

## Award Ceremony



Sunday May 19, 2019



## WE HAVE WHAT YOUR BUSINESS NEEDS

### BUSINESS BANKING

- Business Checking Accounts
- Commercial Mortgages
- Commercial Loans
- International Trade Finance
- Merchant Services
- Remote Deposit Capture
- Payroll Services
- Loans to Healthcare Professionals
- Asset Based Lending
- SBA Loans: 7(a) and CDC/504

### CONSUMER BANKING

- Checking Accounts
- Money Market Accounts
- Savings Accounts
- CDs and IRAs
- Mortgages
- HAB Debit/VISA card
- HAB Internet Banking
- International & Domestic Wire Transfer

### HAB eBANKING

- Real-time Information & Transactions
- ACH, Online Wire & Bill Payments
- Account Alerts
- Online Payroll
- Remote Deposit Capture
- 24 Hour ATMs and Telephone Banking



## HAB BANK

Visit our branches in Manhattan, Jackson Heights, Hicksville,  
Richmond Hill, Iselin, Los Angeles, Artesia

[www.habbank.com](http://www.habbank.com)



HAB BANK is a Service Mark of Habib American Bank.



Anila Midha  
Founder & President

SAAWA Executive Board



Aruna Saxena



Bharathi Nelanuthala



Bhavani Srinivasan



Sunita Saini



Rekha Chichara



Shashi Malik



Prof. Subash Midha  
Chairperson, Science Fair



**Dr. Kusum Sinha, Ed.D**  
Superintendent 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, Dr. Unni Mooppan, Elizabeth Thomas

## **Advisors**

Dr. Ellen McCulloh, Edward Irwin, Erin Garland, John Schineller

## **Supporters of SAAWA**

Farrah Mozawalla, Jamie Tiso, Bina Sabapathy, Shaker Nelanuthala, Jitendra Chichara, PriyaThadanki, Yama Nasir

## **Sponsors of SAAWA**

HAB Bank, BCB-INDUS American Bank, Netrovert

Photos by Dolly Nanda and Akshat Kaul



# Science Fair 2019





# Science Fair 2019





## **BEHAVIORAL SCIENCE**

**First Place: \$250**

**Katie Winter – Paul D. Shrieber High School**

The Relationship 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 Comparative Assessments And Interaction Satisfaction In The Human-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 Scientist 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 Lemna Minor L

**Sonia Sarju-Sanford Calhoun High School**

Effects Of Hypoxic Conditions On The Phototoxicity 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**

Antibacterial Abilities Of Seaweed Originating 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 Chemotherapy?



## SAAWA SCIENCE FAIR 2019 AWARD WINNERS

### PHYSICS

**First Place: \$250**

**Sean Pak – Commack High School**

Artificial 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 Subtilliland 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 Ca<sup>2+</sup> And Mg<sup>2+</sup> 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 Electrolyte Membrane 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

**Fajr Ali – Freeport High School**

Impact Of Cooking Procedures On Mercury Retention In Fish

**Vera Cho and Joelle Siong Sin – Great Neck North 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 Pluvialis Algae Produced Astaxanthin 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



# BCB Bank

**MAKING AN IMPACT**

# 2.75%

*annual percentage yield*



**2.68% INTEREST RATE | 15 MONTH CD**  
*\$50,000 BALANCE REQUIRED  
TO OBTAIN APY\**

*FOR MORE DETAILS, CALL US AT 516.822.8001  
OR VISIT OUR **HICKSVILLE BRANCH** LOCATED AT  
**70 BROADWAY, HICKSVILLE, NY** AND SPEAK WITH  
**BRANCH MANAGER, ROOPAM MAINI.***



**1.800.680.6872 | [www.BCB.Bank](http://www.BCB.Bank)**



\*APY = Annual Percentage Yield Annual Percentage Yield is accurate as of 8/01/2018. Requirements: 15 Month CD with an APY of 2.75% and an interest rate of 2.68%. New money only. Must deposit \$50,000 to open. Must maintain daily balance of \$50,000 in account each day to obtain disclosed APY. Interest will be compounded daily and credited monthly. APY assumes interest will remain on deposit until maturity. Early withdrawal penalty will be charged for funds withdrawn before maturity date. Penalty will equal one year of interest on account. Account will automatically renew at maturity to a 15 month CD at prevailing rate. Grace period of 7 calendar days after the maturity date to withdraw funds without being charged a penalty. This rate is only offered only on 15 Month CD with an opening amount of \$50,000, as advertised. Offer may be withdrawn at any time. Activity and maintenance fees may reduce earnings.