

## SFRSEF SSEF and ISEF Finalists

| SSEF | ISEF | School                                     | Last Name      | First Name | Title of Project   | Region  | Voting District |
|------|------|--|----------------|------------|--|---------|-----------------|
| YES  |      | Archimedean Middle Conservatory            | Palomino       | Marlon     | Seeing Space   | CS      | 8               |
| YES  |      | Aventura Waterways K-8 Center              | Levy           | Ethan      | Comparing Pulsatile and Non-Pulsatile Left Ventricular Assist Devices (LVADs)  | North   | 3               |
| YES  | YES  | Christopher Columbus High School           | Tsaoussis      | Simon      | Two Transistor Ternary Random Access Memory  | #N/A    | #N/A            |
| YES  | YES  | Dr. Michael Krop Senior High School        | Levy           | Maya       | Comparing Continuous Glucose Nanosensors in Tears for Ex-Vivo Artificial Pancreas  | North   | 3               |
| YES  |      | Dr. Michael Krop Senior High School        | Plotnik        | Brian      | To what extent can relative entropy predict the outcome of a soccer match?   | North   | 3               |
| YES  |      | George Washington Carver Middle School     | Garcia-Sarabia | Luis       | RA IS GETTING ON MY NERVES!!   | Central | 6               |
| YES  |      | George Washington Carver Middle School     | Hoover         | Daisy      | Growing Green  | Central | 6               |
| YES  |      | George Washington Carver Middle School     | Kaplan         | Amy        | Exoplanets   | Central | 6               |
| YES  |      | George Washington Carver Middle School     | Lopez          | Natalia    | Transformers: The Age of Calcium   | Central | 6               |
| YES  |      | George Washington Carver Middle School     | Schwartz       | Zachary    | Sailing The Styrofoam Sea  | Central | 6               |
| YES  |      | Herbert A. Ammons MS                       | Guzman         | Vadim      | Stopp The Roll!  | South   | 7               |
| YES  |      | Highland Oaks Middle School                | Odzer          | Michael    | A Sound Analysis: Using sonar to quantify the relationship of predator and prey in the coral reef habitat and how that relationship impacts reef health  | North   | 3               |
| YES  | YES  | John A Ferguson Senior High School         | Bhattacharjee  | Smita      | Comparative analysis and effects of Oscillatory and Steady shear stress on Bone Marrow derived Mesenchymal Stem Cells (BMMSC)  | South   | 8               |
| YES  | YES  | Medical Academy for Science and Technology | Erdozain       | Megan      | A Novel Design for a Prosthetic Hand Geared for High Performance Gripping through the Use of a Unique Sensing System Platform, Brushless Motor Drive System Coupled with a Worm Gear Mechanism, and Rapid Prototyping Techniques | South   | 9               |

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| YES  |      | Medical Academy for Science and Technology | Suarez-Nieto | Maria      | Testing for potential reactive oxygen species (ROS) inhibitors in human dendritic cells treated with alcohol                  | South  | 9               |
| YES  |      | Miami Beach Senior High School             | Rauch-Thane  | Rebecca    | An Innovative Use of Moringa Oleifera in Bio-Remediation of Coastal Biomes of Rizofora Mangle and Abicennia Germinans         | North  | 3               |
| YES  | YES  | Miami Palmetto Senior High                 | You          | Bo         | Development of a Simulation-Driven Algorithm to Calculate Gold Nanorod Length from Dynamic Light Scattering Data              | South  | 9               |
| YES  |      | Norman S Edelcup Sunny Isles Beach K-8     | Perdomo      | Isabela    | Cleaner Bottoms: Using Ultrasonic Waves to Reduce Barnacle Growth   | North  | 3               |
| YES  | YES  | North Miami Beach Senior High School       | Bilani       | Said       | The Effects of Conditioned Medium from Dental Stem Cells on Gene Expressions of Interleukin IL-1 $\beta$ Treated Chondrocytes | North  | 3               |
| YES  |      | North Miami Beach Senior High School       | Islam        | Atiquel    | Dye-Sensitized Solar Cell   | North  | 3               |
| YES  |      | Riviera Preparatory School                 | Delmastro    | Alea       | The Effect of Carbon Nanodots on the Fibrillation of Human Insulin  | #N/A   | #N/A            |
| YES  |      | Terra Environmental Research Institute     | Rivera       | Liz        | The Effects of Exogenous Iron on the Growth of Bacterial Isolates from Soil   | South  | 7               |
| YES  |      | Westminster Christian School               | Fernandez    | Sara       | The Effect of Word Spacing Upon the Reading Accuracy and Pacing in Both Dyslexic and Non Dyslexic Populations                 | #N/A   | #N/A            |
| YES  |      | Westminster Christian School               | Matthews     | Aaron      | Do Different Materials in Football Helmets Help Prevent Concussions than the Factory Issued Material?                         | #N/A   | #N/A            |
| YES  |      | Westminster Christian School               | Precht       | Madison    | The Effect of African Dust on the Threatened Staghorn Coral, Acropora cervicornis: An Experimental Analysis                   | #N/A   | #N/A            |
| YES  |      | Winston Park K-8 Center                    | Bravo        | Elijah     | Ballistic Gel Absorption Effect   | South  | 7               |
| YES  |      | Winston Park K-8 Center                    | Carbajal     | Lucas      | Using Plant Products with TiO <sub>2</sub> Nanoparticles in Dye Sensitive Solar Cells   | South  | 7               |

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| YES  |      | Winston Park K-8 Center | Izquierdo | Daniel     | The Effect of Titanium Dioxide and Zinc Oxide on Coral Bleaching | South  | 7               |
| YES  |      | Winston Park K-8 Center | Toledo    | Sara       | Does Geological Location Affect Nutrient Levels in Soil?         | South  | 7               |
| YES  |      | Winston Park K-8 Center | Zorrilla  | Samantha   | Oxygen's Role in Fermentation                                    | South  | 7               |