

Congratulations to our Siemens Science Competition semifinalist!

Student	High School	Project - Mentors
Michael Kao Neal Soni	<i>Troy High School, Fullerton CA</i> <i>Staples High School, Westport CT</i>	Enhancing Inorganic-Organic Lead Halide Perovskite Solar Cell Efficiency via Polymer-Templated Nucleation and Stabilizing Additives
Abishrant Panday Sabrina Reguyal	<i>Hunter College High School, New York, NY</i>	Optimizing the Morphology of the P3HT:PCBM Polymer Solar Cell Active Layer Using PEG and PMMA as Additives
Karly Hou	<i>Henry M. Gunn High School, Palo Alto, CA</i>	Optimization of Polymer Solar Cells' Efficiency Using Molecular Dynamics simulation
Jerry Reyes	<i>Lawrence High School, Cedarhurst, NY</i>	Effects of Incorporating Graphene Oxide into Nafion on a Polymer Electrolyte Membrane Fuel Cell
Jarrad Li Ruoxin Lu Helen Zhang	<i>Syosset High School, Syosset, NY</i> <i>Plainview-Old Bethpage John F. Kennedy High School, Plainview, NY</i> <i>General Douglas MacArthur High School, Levittown, NY</i>	Optimizing Molar Ratios of Au-Ag Alloy Nanoparticles to Enhance the Performance of PEM Fuel Cells
Jason Kurlander Yael Laks Leeba Sullivan	<i>North Shore Hebrew Academy High School, Great Neck, NY</i> <i>Yeshiva University High School For Girls, Hollis, NY</i>	Characterizing In Situ mTG Crosslinked Gelatin Hydrogels with Encapsulated Dental Pulp Stem Cells for Cell Delivery in Applications of Regenerative Medicine
Eunice Yang Maria Dhinojwala Ian Hsu	<i>Mountain View High School, Mountain View, CA</i> <i>Archbishop Hoban High School, Akron, OH</i> <i>Mission San Jose High School, Fremont, CA</i>	Investigating the Effects of Cell Plating Density and Surface Topography on Dental Pulp Stem Cell Response to 3D-Printed and Molded Scaffolds
Danielle Kelly Audrey Shine Mariya Shtiliyanova	<i>Friends Academy, Locust Valley, NY,</i> <i>Plainview Old-Bethpage JFK High School, Plainview, NY</i> <i>Concord-Carlisle High School, 500 Walden St, Concord MA</i>	Application of Graphene Oxide onto Polymer Electrolyte Membranes (PEM) and Electrodes to Optimize Hydrogen Fuel Cell Performance
Angela Ye	<i>Basis Independent Silicon Valley, San Jose, CA</i> <i>Island Trees High School, Levittown, NY</i>	Utilizing ALD-Coated Titanium Dioxide on Nafion Membrane to Increase Efficiency of Proton

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Kenneth Chan Pastor Martinez	<i>Brentwood High School, Brentwood, NY</i>	Exchange Membrane Fuel Cells
Sahith Vadada Rushikesh Patel Vedant Singh	<i>Herricks High School, New Hyde Park, NY, The Wheatley School, Old Westbury, NY</i>	Evaluating the Effect of Graphene-Loaded Poly(4-vinylpyridine) Electrospun Fibrous Scaffolds and Spun-cast Thin Films on the Proliferation and Differentiation of Dental Pulp Stem Cells
Richard Zhu Michael Wang, Yuqing Liu	<i>Edina High School, Edina, MN Aragon High School, San Mateo, CA Texas Academy of Math and Science</i>	Investigating the Differentiation and Proliferation of Human Dental Pulp Stem Cells Regulated by TiO ₂ Nanoparticles Added Before and After Substrate Recognition
Danielle Luntz Kasim Waqar Kavya Rao	<i>Half Hollow Hills High School East, Dix Hills, NY</i>	Enhancing the Mechanical Properties of Polymers with Graphene Nanocomposites
Thomas Chen Kevin Gao Alexander Wang	<i>Mission San Jose High School, Fremont, CA Amador Valley High School, Pleasanton, CA Dougherty Valley High School, San Ramon, CA</i>	P12 Peptide's Effects on Inhibiting Fibrinogen Fiber Formation in Blood Coagulation and Application of Machine Learning in Fiber Counting
Nicholas Williams Roshan Reddy	<i>Lawrence High School, Cedarhurst, NY,</i>	The Integration of Graphene Oxide and Reduced Graphene Oxide to Strengthen and Expand Elastic Modulus in F-127 Pluronic Acid Gels
Rachel Li Jainil Sutaria Chelsea Wang	<i>Spackenkill High School, New York, NY Ardsley High School, Ardsley, NY Fossil Ridge High School, Fort Collins, CO</i>	Synthesis and Characterization of Gelatin and Pluronic F127 Hybrid Hydrogels for Cell Barrier Layer Applications