



ISEF 2004 Grand Award Winners

Best in Category \$5,000, First \$3,000, Second \$1,500, Third \$1,000, Fourth \$500

	Award	Name	School	Title
Seaborg Award	All expense trip to attend Stockholm International Youth Science Seminar and Nobel Prize Ceremony	Henny Admoni	John L. Miller Great Neck North High School	<i>Counting Features: quantifying discrete parts in visual object identification</i>
Behavior Sciences	Best in Category	Henny Admoni	John L. Miller Great Neck North High School	<i>Counting Features: quantifying discrete parts in visual object identification</i>
	First	Henny Admoni	John L. Miller Great Neck North High School	<i>Counting Features: quantifying discrete parts in visual object identification</i>
	Second	Jarett Goldman	Syosset High School	<i>Modeling Presidential Character: Institutional and Non-Institutional Factors</i>
	Third	Michael Sloyer	Roslyn High School	<i>The Effect of Visual Images and Power Phrases on Contributions to a Hunger Prevention Charity</i>
Biochemistry	Third	Josh Silverman	North Shore High School	<i>SmartGen: A New Approach to the Identification of Effective siRNAs for RNAi Gene Therapy</i>
Botany	Second	Michelle Louie	Kings Park High School	<i>Functional Genomics: An Optimized Method for Fluorescent Tagging of Full-Length Gene Products of Unknown Function from Arabidopsis thaliana</i>
	Fourth	Carol Eisenstat	Bellmore John F. Kennedy High School	<i>The Effects of Cytoskeletal Disrupting Agents in Gossypium hirsutum</i>

Chemistry	Award	Name	School	Title
	Third	Kunal Shah	Manhasset High School	<i>Controlling the Growth of Carbon Nanotube</i>
Computer Science	Award	Name	School	Title
	Third	Bruce Halperin	Half Hollow Hills High School East	<i>An Extension of the Dining Cryptographers Protocol to Multiparty, Simultaneous Sender-Recipient Anonymous Communication</i>
Engineering	Award	Name	School	Title
	Second	Mitchell Fourman	Ward Melville High School	<i>Supercritical Fluids: A Novel Procedure for Increasing the Compatibility and Applications of Polymer Blend</i>
Mathematics	Award	Name	School	Title
	Second	Brett Harrison	Half Hollow Hills High School West	<i>A Proof of Seymour's Conjecture for All Oriented Graph</i>
	Fourth	Jason Pellegrino	Manhasset High School	<i>Analysis of Metformin's Effect on Brain Insulin Receptors</i>
Microbiology	Award	Name	School	Title
	Second	Daniel Choi	Syosset High School	<i>DNA Microarray Analysis of Shewanella oneidensis MR-1 Grown in a Microbial Fuel Cell</i>
Physics	Award	Name	School	Title
	First	Yiyi Deng	Ward Melville High School	<i>A Novel Technique for the Quantification of Trapping Force in Optical Tweezer</i>
Zoology	Award	Name	School	Title
	First	Marla Diakow	Paul D. Schreiber High School	<i>The Utilization of Rare SNPs within the Canine Genome as a Means of Breed Identification</i>

Teams	Award	Name	School	Title
	First	Nikhil Gupta and Amrit Das	Manhasset High School	<i>The Effects of Exogenously Applied Taxol and Oryzalin on Cotton Fiber Quality in G. hirsutum, Variety MD51</i>
	Second	Ashish Bakshi and Eshin Jolly	Manhasset High School	<i>Designing a System for Versatile Semi-Autonomous Robots</i>
	Third	Eric Mansfield and Ezra Katz	Smithtown High School	<i>Development of Porous Hyaluronan Scaffolds for Wound Healing Applications</i>
		Sean Mehra and Jeffrey Reitman	Jericho High School	<i>Using Nanoparticles to Enhance Polymer Properties for Improved Commercial Applications: Space Lubricants to Nanolithography</i>
	Fourth	Storm Liebling, Dustin Liebling, and Kevin Zarrabi	Smithtown High School	<i>The In-Vitro Inhibition of Human Neutrophil Elastase by Ursolic Acid- Implications for Treatment of Cystic Fibrosis</i>