



Charles Duggan

LISEF 2006 Grand Award Winners

All **First Place** Winners Win an All Expense Paid Trip to ISEF 2006

	Award	Name	School	Title
Behavioral Sciences	Best in Category	Christina Tu	Roslyn High School	<i>Is Math Just For Boys? Gender Differences In Dropout Rates And Attitudes Of Advanced High School Mathematics Students</i>
	First	Allison Dender	Plainview-Old Bethpage JFK High School	<i>The Cognitive And Emotional Factors That Impact An Individual</i>
		Michael Hofer	Roslyn High School	<i>The Effect Of Framing And Described Task Difficulty On Expectations And Performance</i>
		Michael Katz	John F. Kennedy HS (Bellmore)	<i>The Impact Of Attack Ads On Public Perceptions During The 2000 Presidential Campaign</i>
		Christina Tu	Roslyn High School	<i>Is Math Just For Boys? Gender Differences In Dropout Rates And Attitudes Of Advanced High School Mathematics Students</i>
		Samantha Fishbein	Roslyn High School	<i>When Don't Means do: the Impact of Anti-smoking Advertising</i>
	Second	Rachel Goldstein	Half Hollow Hills High School West	<i>An Association Between Dopamine and Serotonin System Related Genetic Polymorphisms in College Students</i>
		Alexander Hughes	South Side High School	<i>The Effects of Erroneous Feedback on Self-efficacy and Performance Under Social Cognitive Theory</i>
		Jennifer Maisel	Syosset High School	<i>TeleSapien: A Novel Approach to Widespread Information Access</i>
	Third	Austin Cohen	Roslyn High School	<i>Correlation Between Religiosity/Spirituality and</i>

				<i>Psoriasis Severity and Global Life Impact</i>
		Pauline Meyers	Roslyn High School	<i>A Study To Remember: The Effect Of Deeper Processing And Rehearsal On Immediate And Delayed Recall Of Vocabulary</i>
		Carmiel Schickler	Paul D. Schreiber High School	<i>Creating a Conflict Alert System: Leadership Change, Violence and the Cycle of Relative Power</i>
		Scott Ulberg	John F. Kennedy High School (Bellmore)	<i>The Effects of Problem Difficulty on Group Decision Making</i>
	Honorable Mention	Andrew Forrest	Roslyn High School	<i>To Vote or Not to Vote? An Exploration of the Factors Contributing to the</i>
		Evan Goldinger	Lynbrook High School	<i>A Study of the Effect of the Appearance of a Suspected Criminal on the Identification by an Eye Witness in a Target-Absent Line-Up</i>
		Sohani Khan	W. T. Clarke High School	<i>The Effects of Home Schooling on the Social Development of Students</i>
		Eric Lieberman	Great Neck North High School	<i>The Evolution of Our economic biases: evidence from capuchin-monkey trading behavior</i>
		Leah Libresco	The Wheatley School	<i>At the Head of the Class: Classroom Dynamics in Secondary Math Education</i>
		Daniel Rocco	South Side High School	<i>Group Memory versus Individual Recall</i>
Brittany Russo	Sanford H. Calhoun School	<i>Seeing Through The Ears</i>		
Biochemistry	Award	Name	School	Title
	Best in Category	Faith Chang	Syosset High School	<i>Tumor Suppressor Gene Dbc2 Plays An Important Role In Protein Transport</i>
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	First	Yuting Chiang	The Wheatley School	<i>Investigating The Role Of Nup98/96 In Drosophila</i>

				<i>Spermatogenesis</i>
	Second	Amy Richards	Kings Park High School	<i>Metalloproteinase Inhibitors, Catechins From Green Tea, Block Anthrax Lethal Factor In Vitro</i>
		Ilana Yurkiewicz	Lawrence High School	<i>Role of DNA Methylation in Epigenetic Inactivation of Betaig-h3 Gene in Lung Tumors</i>
	Third	Julian Hershowitz	Jericho High School	<i>New Insight into Prions using Computational Study of the Aggregation of the GNNQQNY Peptide.</i>
		Dana Zalkin	Great Neck North High School	<i>Analysis of the Histone Variant MacroH2A: Interacting Proteins and Post-Translational Modifications</i>
	Honorable Mention	Catherine Kelso	Ward MelvilleHigh School	<i>Unusual Structures of RNA and Damaged DNA Probed Through Molecular Simulation</i>
		Margherita McNair	Ward MelvilleHigh School	<i>In vitro Genetic Analysis of the Activation Pathway of the Adenovirus Proteinase</i>
		Kristie Rupp	Smithtown High School West	<i>Assessing the Importance of 2 Serine and 1 Threonine Residues in the Function of HOP1 Phosphorylation during Meiotic Recombination</i>
		Krysten Sciacca	Syosset High School	<i>The Effect of Cocoa and Green Tea Polyphenols and Cigarette Smoke on Oxidative Stress</i>
	Botany/ Microbiology/ Zoology Sciences	Award	Name	School
Best in Category Botany		Alan Chou	Great Neck South High School	<i>A Novel System to Study Multiple Double Strand Breaks in Arabidopsis</i>
Best in Category Microbiology		Jennifer Schindler	Oceanside High School	<i>Functional Characterization Of The Legionella Vip Proteins</i>
Best in Category Zoology		Sindhura Kunaparaju	Elmont Memorial High School	<i>Analysis Of Planarian Regeneration With Applications Of Mimosa Pudica Extract</i>
First		Sindhura	Elmont Memorial	<i>Analysis Of Planarian</i>

		Kunaparaju	High School	<i>Regeneration With Applications Of Mimosa Pudica Extract</i>	
		Jennifer Schindler	Oceanside High School	<i>Functional Characterization Of The Legionella Vip Proteins</i>	
	Second	Alan Chou	Great Neck South High School	<i>A Novel System to Study Multiple Double Strand Breaks in Arabidopsis</i>	
		Zach Hollander	Great Neck North High School	<i>Sources of Variation in growth, form, and survival in Dwarf and normal stature ptich pines, Pinus rigida in transplant experiments.</i>	
	Third	Julian Hershowitz	Jericho High School	<i>New Insight into Prions using Computational Study of the Aggregation of the GNNQQNY Peptide.</i>	
		Dana Zalkin	Great Neck North High School	<i>Analysis of the Histone Variant MacroH2A: Interacting Proteins and Post-Translational Modifications</i>	
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		Krysten Sciacca	Syosset High School	<i>The Effect of Cocoa and Green Tea Polyphenols and Cigarette Smoke on Oxidative Stress</i>	
	Chemistry	Award	Name	School	Title
		Best in Category	Michael Ding	Glen Cove High School	<i>Dna Electrophoresis On Nano-Sized Membrane Surfaces</i>
		First	Michael Ding	Glen Cove High School	<i>Dna Electrophoresis On Nano-Sized Membrane</i>

				<i>Surfaces</i>
	Second	Nicholas Werle	Paul D. Schreiber High School	<i>Template-Free Synthesis of Nanocrystalline ZSM-5</i>
	Third	Eugerie Narcisse	Uniondale High School	<i>A Novel Method of Low-cost Electrocatalytic Thin Film Manufacture for Fuel Cells Using POSS Nanoparticles</i>
	Honorable Mention	Sean Feiner	Farmingdale High School	<i>Synthesis and Isolation of Several Disting Porphyrins for Cerium Sandwich Constructions and Crystal Functions</i>
		Stephen Ko	Ward Melville High School	<i>Modifications to jet properties in a strongly interacting Quark Gluon Plasma (sQGP)</i>
		Irina Zaitseva	Centereach High School	<i>Stability of Sunscreen to UV Radiation and Reduction of Photocatalytic Activity of Titanium Dioxide</i>
Computer Science/ Mathematics	Award	Name	School	Title
	Best in Category Computer Science	David Golub	Paul D. Schreiber High School	<i>Finding and Orienting the Normals to a Cloud of Points</i>
	Best in Category Mathematics	Brett Harrison	Half Hollow Hills HS West	<i>On the Reducibility of Cyclotomic Polynomials over Finite Fields</i>
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	Second	Kunaal Sharma	Half Hollow Hills HS East	<i>On The Factorization of Cyclic Cubic Polynomials mod p</i>
	Third	David Golub	Paul D. Schreiber High School	<i>Finding and Orienting the Normals to a Cloud of Points</i>
	Honorable Mention	John Krauss	Paul D. Schreiber High School	<i>Cyber-Crime Forensics of Archived Instant Messages</i>
		John Schulman	Great Neck South High School	<i>On Kahler-Einstein Supermanifolds</i>
Earth Science/ Environmental Sciences	Award	Name	School	Title
	Best in Category Earth Science	Paul Park	Massapequa High School	<i>Friction Limited Landslide Model: An Analysis of Historic Landslides in the Central Idaho Batholith</i>
	Best in Category Environmental	Nicole Khezri	Great Neck North High School	<i>Examining the Feasibility of Utilizing Dinoflagellates</i>

	Science			<i>(Pyrocystis fusiformis) As a Bioassay to Test Metal Toxicity Levels</i>
	First	Nicole Khezri	Great Neck North High School	<i>Examining the Feasibility of Utilizing Dinoflagellates (Pyrocystis fusiformis) As a Bioassay to Test Metal Toxicity Levels</i>
	Second	Paul Park	Massapequa High School	<i>Friction Limited Landslide Model: An Analysis of Historic Landslides in the Central Idaho Batholith</i>
	Third	Jana Hirsch	Ward Melville High School	<i>The Seismic Signature of Ocean Surf as It Relates to Wave Energy and Coastal Erosion</i>
	Honorable Mention	Miguel Bustos	Uniondale High School	<i>Rescuing Our Natural Waters From The Silent Destroyer: Fighting Eutrophication Globally Through The Electrical Attraction Of Phosphate And Nitrate</i>
Engineering	Award	Name	School	Title
	Best in Category	Benjamin Chang	Sewanhaka High School	<i>Query by Humming</i>
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	Second	Jonathan Kao	Ward Melville High School	<i>A MEMS-Based Bio-Inspired Micro-rotor Powered by an Oscillating Microbubble</i>
	Third	Fauzia Shaikh	Half Hollow Hills HS East	<i>The Metallization of Ethylene Vinyl Acetate Polymer Thin Films using Supercritical Carbon Dioxide and Nanoparticles</i>
	Honorable Mention	Nicole Brenner	Lawrence High School	<i>Preparation and characterization of a SuperParamagnetic Polymer nanocomposite for Biomedical Applications</i>
		Evan Lazer	Northport High School	<i>A Study of the Effectiveness of Quantitative Ultrasound for Assessing Bone Health</i>
Medicine &	Award	Name	School	Title

Health	Best in Category	Manish Shaha	Great Neck North High School	<i>Analysis of Squamos Cell Carcinoma Related Oncogene's Functional Role in E3 Ligase Ubiquitination Pathway</i>
	First	Manish Shaha	Great Neck North High School	<i>Analysis of Squamos Cell Carcinoma Related Oncogene's Functional Role in E3 Ligase Ubiquitination Pathway</i>
		Zachary Soloman	Long Beach High School	<i>Incorporation and Maximization of Synthetic Penicillin Production in Transgenic Lemna minor</i>
		Melissa Sussman	Lawrence High School	<i>A New Target to Fight Breast Cancer : hHb1-DN</i>
	Second	Rita Iyer	The Wheatley School	<i>Regulation of the estrogen receptor-alpha and the urokinase-type plasminogen activator gene expression by ginger extract in human mcf-7 breast cancer cells</i>
		Alexander Kim	Syosset High School	<i>A Method to Improve Tonal Differentiation</i>
		Kayla Towey	Smithtown High School	<i>Short Term Glycation Inhibits the Protective Effect of Fibronectin on Cell Viability and Migration</i>
	Third	Amanda Chusid	Lynbrook High School	<i>Is There An Association Between Sociability In Mice And Mutations In The Serotonin Transporter Gene (slc6a4)?</i>
		Emily Sorg	Paul D. Schreiber High School	<i>Characterizing Mouse CD99L2 Adhesion</i>
		Cory Tschabrunn	Bay Shore High School	<i>The Accuracy of Magnetic Resonance Imaging Compared to Traditional DSA.</i>
	Honorable Mention	Anusha Kambhampaty	Half Hollow Hills HS East	<i>The Effect of Mild Hypothermia on Inflammatory Cytokine Expression and Release</i>
		Jared Kirzner	John F. Kennedy High School (Bellmore)	<i>Calcium Intake at a Buffet Lunch: Associations with child</i>

				<i>body composition and age</i>
		Praneet Korrapati	Half Hollow Hills HS East	<i>Development and Validation of a New Prostate Cancer Diagnostic Marker</i>
		Kathryn Podobinski	Paul D. Schreiber High School	<i>Neonatal Finite Element Mesh</i>
		Allison Saltzman	John F. Kennedy High School (Bellmore)	<i>Determining the role of p42/22 and p38 on the effect of IFN-gamma on a2a signaling</i>
		Ariel Somekh	Great Neck North High School	<i>The Association Of Palladin With Actin In Breast Cancer Metastasis</i>
Physics/ Space Sciences	Award	Name	School	Title
	Best in Category Physics	Jason Strauss	North Shore Hebrew High School	<i>The Nautical Ramjet- An Alternative Approach</i>
	Best in Category Space Science	Joshua Seidman	W. C. Mephram	<i>The Search For Cosmic Ray Induced Lightning Strokes</i>
	First	Jason Strauss	North Shore Hebrew High School	<i>The Nautical Ramjet- An Alternative Approach</i>
	Second	Amol Jain	Herricks High School	<i>Development of an Optical Orbital Angular Momentum Sorter</i>
	Third	Mathew George	Massapequa High School	<i>A Probabilistic Approach to Identifying Hubs in Scale-Free Networks</i>
	Honorable Mention	Sean McCormack	Jericho High School	<i>The Electrical Transport of DNA Across Periodic Crosspattern Surfaces</i>
		Stephen Schiraldi	Half Hollow Hills HS East	<i>Exploration of Electromagnetic Properties of Cadmium Nuclei via Intermediate-Energy Coulomb Excitation</i>
		Joshua Seidman	W. C. Mephram	<i>The Search For Cosmic Ray Induced Lightning Strokes</i>
Teams	Award	Name	School	Title
	Best in Team Category	Mary Martha Douglas and Alison Liu	Manhasset High School	<i>The Effects of CNS Stimulants and SSRIs on the Formation of Conditioned Long-Term Memory in Sleep Deprived Wildtype Drosophila</i>

	First	Kamalakar Atluri and Dhruv Vasishtha	Herricks High School	<i>L-Dopa as a Substitute for Endogenous Morphine for Humans</i>
		Ashish Bakshi and Wilfred Wong	Manhasset High School	<i>Polycaprolactone-Chitosan Nanocomposite Biomaterials for Wound Healing and Tissue Engineering</i>
		Mary Martha Douglas and Alison Liu	Manhasset High School	<i>The Effects of CNS Stimulants and SSRIs on the Formation of Conditioned Long-Term Memory in Sleep Deprived Wildtype Drosophila</i>
		Miki Duruz and Kara Morgenstern	Long Beach High School	<i>Self-Sanitizing Plastic Surfaces</i>
		Benjamin Pollack and Abhinav Khanna	Plainview Old Bethpage JFK High School	<i>Sexual Selection in Drosophila: A Behavioral, Morphological, and Geographic Study</i>
		Christopher Pynn and Zimra Ahdout	Half Hollow Hills High School West	<i>The Effects of Supercritical Carbon Dioxide on the Dynamics of Crystalline Polymer Blends</i>
		Whitney Quackenbush and Erin Dagostino	Manhasset High School	<i>The Effects of Variations in Dietary Fat Intake Using Caenorhabditis elegans as a Model Organism for Fat Storage</i>
		Aashish Shah and Anastasia Efthymiou	Half Hollow Hills High School West	<i>Detection of Creatine Phosphokinase Using Polyaniline Nylon-6 Film</i>
	Second	Dev Anand and Vinay Krishnan	The Wheatley School	<i>A Physical Model for Compatibilization of Polymer Blends Using Functional Clays.</i>
		Cayla Bergman and Jason Rosenblatt	Plainview-Old Bethpage JFK High School	<i>Reading Development</i>
		John Kucharczyk and Michael Arsiotis	Manhasset High School	<i>The Effects of Low Cost Aerodynamic Improvements on the Fuel Efficiency of 18 Wheelers.</i>
		Bonnie Lam and Lana	Jericho High School	<i>The Inhibition of the Mouse and Human 5-ht3</i>

		Castor		<i>Receptors by Ondansetron</i>
Teams	Third	Vikas Anand and Esther Kwak	Jericho High School	<i>Controlled Release of Lidocaine Using Pluronic Copolymers and Curdlan</i>
		Kristin Hall and Crystalee Forbes	Smithtown High School East	<i>Direct Observation of the Mechanical Behaviors of Normal and Transformed Keratinocytes on Varying Collagen Substrates</i>
		Adam Johnson and Daryl Koopersmith	Paul D. Schreiber High School	<i>N-Free Variation On The Riemann Zeta Function: A New Relation Between Zeta(N) And Zeta(N²)</i>
		Marisol Ryu and chris Kostoulas	Manhasset High School	<i>Construction of beneficial PGPR Pseudomonas Strains for the Phytoremediation of Heavy Metal and PAH Contaminated Soils</i>
	Honorable Mention	Chuan Hao Chen and Jeff Qiu	Manhasset High School	<i>The Effect of Myristic, Oleic, and Linoleic Fatty Acids on the Fat Storage and Metabolism of nhr-49 Strain of Caenorhabditis elegans.</i>
		Rafael Holzer and Rachel Rosenfeld	Rambam Mesivta	<i>The Effect of Nanoparticles on Selective Gas Permeability of Thin Film Membranes Using Supercritical Fluids</i>
		Taylor Oshan and Charles Warshaw	W. C. Mephram High School	<i>The effects of heatsink composition on computer performance</i>
		David Rosengarten and Robert Rothbaum	Great Neck North High School	<i>Sand Transport Across a Gravel Bed: An Experimental Flume Study of Spatial and Temporal Trends in Particle Size and Sediment Volume as a Function of Flow and Bed Conditions</i>
		Emily Sbiroli and Kerrie Ashe	Locust Valley High School	<i>Uranium Incorporation into Natural Carbonates</i>
		Michele Waters and Jeffrey Rodriguez	Freeport High School	<i>Alternative Methods of Generating Electricity: Voltaic, Solar, and Microbial Fuel Cells</i>

		Debbie Yee and Victor Wang	Great Neck North High School	<i>The Effect of Polymer Thin Film Thickness on Melting Point: A Comparison of Different Techniques</i>
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