

Intel Science Talent Search

The Science Talent Search was created to discover and encourage high school seniors who demonstrated exceptional ability in science and engineering. Over the years the Science Talent Search has become an institution, a prestigious tradition widely approved and supported by the academic and scientific communities. Many of the young scientists discovered by the Search have gone on to distinguished careers, including five who have won Nobel prizes.

Science Service, a nonprofit organization whose mission is to advance the understanding and appreciation of science through publications and educational programs, has administered the Intel Science Talent Search since its inception in 1942. Educators, scientists, engineers and journalists across America have enthusiastically cooperated in this annual activity -- a pinnacle event for high school seniors focused on science and engineering.

2004 Semifinalists

The Semifinalists of the 63rd Science Talent Search were chosen from among 1652 entrants representing 527 high schools in 46 states, the District of Columbia, Guam, Puerto Rico and two overseas schools. From this group of 300 Semifinalists, 40 Finalists will be chosen to attend the Science Talent Institute in Washington, D.C. from March 11-16, 2004. During their trip to Washington, the Finalists will participate in a final judging process and share in \$530,000 in scholarships.

Each of the 300 students named a Semifinalist in the Intel Science Talent Search will receive a \$1,000 award for their outstanding science research. These awards will be mailed to the Semifinalists after the Science Talent Institute in March.

Additionally, to recognize excellence in teaching and school support of individual student research, every school will receive an award of \$1,000 for each Semifinalist named in the Intel Science Talent Search. This award must be used to further excellence in science, math and engineering education at the recipient school. In the case of home schooling, the awards will be given to the affiliated school or school district of the home school. The award will be mailed to the school in late Spring, upon completion and return of the School Award Program voucher.

Many colleges and universities regard the Semifinalist award to be evidence of exceptional scientific promise. Each Semifinalist is furnished with certificates of this accomplishment, which may be sent with their applications for college admission and scholarships. A listing in this booklet, as well as at www.sciserv.org/sts, should be accepted as equivalent certification of the honor.

The 40 Finalists will be announced January 28, 2004 and published in the January 31, 2004 edition of *Science News* magazine. A copy will be sent upon request.

This listing of Science Talent Search Semifinalists is compiled by Science Service based on information provided by each student. Each student's name, age, city of school and project title follow. If the student's city of residence differs from that of her/his school, it will be noted.

ARIZONA

Mesa

Dobson High School

Thongkham, Dean Wong (17)

The Effects of Early Stage Development on the Competition Between Populus deltoides and Tamarisk chinensis

ARKANSAS

Little Rock

Pulaski Academy

Kim, Han (17)

Graphite-Epoxy Coatings for Thermal Actuation of Smart Materials

CALIFORNIA

Alhambra

Alhambra High School

Hsu, Richard (17)

Investigating a Novel Lifespan Gene in Drosophila melanogaster

Arcata

Arcata High School

Smith, Teiwaz Taliesen (16), Willow Creek

Hydrofoam: Using Foam to Control the Combustion Rate of Hydrogen

Carson

California Academy of Mathematics & Science

Chen, Samuel Lo (17), Torrance

The Role of the PI-3 Kinase/AKT/GSK3 Regulatory Signaling Pathway in the Initiation of Meiosis Through Regulation of GSK3 β Activity

Fresno

Clovis West High School

Banerjee, Sudeep (17)

A Taxonomic Reassessment of the Phaeophyceae (Brown Algae) Orders Ectocarpales and Scytosiphonales Based on Ribosomal Small Subunit (18S) DNA Sequences

Suri, Arjun Anand (17)

Modeling of Predicted Tyrosine Sulfation Sites in Seven-Transmembrane Receptors

Fullerton

Troy High School

Moy, Ryan Hideki (17)

Equilibrium Constants of Hydrated H₂SO₄, NH₃·H₂SO₄, and SO₃·NH₃ Clusters from Density Functional Theory Calculations

Shih, Angela Ra-ann (17), Yorba Linda

Theoretical Mechanisms and Kinetics for the Reaction of Dimethyl Sulfide and Ozone in Water Vapor

Tao, Li (17), Brea

Probing the Acidity of Functional Groups in Organic Compounds with Water, Ammonia, or Hydrogen Fluoride: A Computational Study Using Density Functional Theory

Hillsborough

Crystal Springs Uplands School

Nachbaur, Moriah Katherine (17), Redwood City

Translatability of Gene Function Between Plant Species: From Arabidopsis thaliana to Nicotiana tabacum

Englewood

Cherry Creek High School

Saccomano, Lisa Marie (17)

Determination of the Embryogenesis of OAVS: A Study of Abnormal Otic Development

CONNECTICUT

Cheshire

Cheshire High School

Chen, James Xiao (17)

Development of a Cellular Disease Model for Bipolar Disorder Through Knockdown of Bcl-2 Gene Expression in Human SH-SY5Y Cells Using RNA Interference Technology

Kent

Kent School

Di Pasquale, Matthew Mario (19), Westport

Single Electron Devices Using Gold Nanoparticle Monolayers

New Haven

Hopkins School

Cullen, Esme B. (17), Madison

Microarray Analysis of Borrelia burgdorferi Gene Expression in MyD88-Deficient Mice

New Milford

New Milford High School

Glukhovskiy, Lisa Doreen (17)

A Rapid, Accurate Method of Determining the Distance to Near-Earth Asteroids

Westport

Staples High School

Beckoff, Steven (17)

Chronic Social Stress Alters Glucocorticoid Receptor mRNA in the Rat Hippocampus

Eisman, Aaron Seth (17)

Lightcurve of Asteroid 21652 1999 OQ2

Sobelman, Robert Benjamin (17)

Optimization of Chemical Vapor Deposition for the Synthesis of Carbon Nanotubes

DELAWARE

Bear

Caravel Academy

Manrai, Arjun Kumar (17), Newark

STOC: A Novel Methodology Incorporating Optimization for Clustering Multidimensional Normalized Microarray Data

DISTRICT OF COLUMBIA

Washington

Benjamin Banneker High School

Munteanu, Andrei (17)

A Novel Algorithm for Computing the Minimum Distance Between Two Elliptical Orbits

Saint Albans School

Nabel, Christopher S. (17)

Yersinia Effector Protein YopJ Induces Apoptosis with Intracellular and Extracellular Stimulation of the NF- κ B Transduction Pathway

FLORIDA

Altamonte Springs

Lake Brantley High School

Zelkowitz, Rachel Lauren (18), Longwood
Comparative Investigation of Replication Processes in Wild-type and Mutant Strains of Cabbage Leaf Curl Virus: A Two-Year Study

Davie

Nova High School

Krishnan, Jai Kumar (17)
Improving Photocatalytic Water Treatment in Space

Fort Myers

Canterbury School

Borden, Timothy Calvin (18)
The Implications of the Global Movement of Bacteria in African Dust Storms on Terrestrial Ecosystems: A Four-Year Study

Ft. Lauderdale

Pine Crest School

Shampain, Kimberly Lauren (17), Weston
The Anti-MBP Response in Multiple Sclerosis and Acute Disseminated Encephalomyelitis

Key Biscayne

MAST Academy

Simo, Monica (17), Miami
The Effect of Tropical Cyclones on Global Tropical Rainfall

Lecanto

Lecanto High School

Shah, Nisha (17)
The Development of an Enriched Microsatellite Library for the Genetic Analysis of Briareum asbestinum

Pompano Beach

Blanche Ely High School

Golden, Zarabeth L. (17), Lighthouse Point
Improving Cognitive Function After Chronic Brain Injury with Hyperbaric Oxygen Treatment

Tampa

Hillsborough High School

Wise, Aaron Michael (17)
Strengthening Ni/Au Nanorods for Use in a Bio-Motor

Vero Beach

Saint Edward's School

Bhalla, Rajat (17), Port St Lucie
Antioxidant Protein Expression During Hypoxia-Reoxygenation in Glycera dibranchiata Coelomocytes: Implications for Ischemia-induced Oxidative Stress

GEORGIA

Athens

Cedar Shoals High School

Alexeev, Boris (16)
Minimal Deterministic Finite Automata (DFAs) for Testing Divisibility

Marietta

Wheeler High School

Solomon, Benjamin (18)
Analysis of SX Phoenixis Variable Star CY Aquarii Using Differential Photometry

HAWAII

Hilo

Waikeke High School

Zimmerman, Kolea C.K. (17), Volcano

Crude Extracts of Polyporaceae Fungi Repel Formosan Subterranean Termites: An Ecological Evaluation

ILLINOIS

Aurora

Illinois Mathematics & Science Academy

Wang, Peter Pei (17), Naperville

Translocation of Protein Kinase A to Focal Adhesions Causes Cytoskeletal Reorganization and Anoikis

Xu, Bobby Xiaoke (17), Naperville

A Novel Method for Localization of Neural Sources in the Human Brain

Evanston

Evanston Township High School

Flaxman, Seth (18)

Heat Conduction in a Body Subject to an Oscillating Heat Source

Macomb

Macomb High School

Thottumkara, Arun Poothatta (17)

Synthesis and Oxidative Transformations Using Novel Water-Soluble Hypervalent Iodine Reagents

INDIANA

Evansville

Signature School

Kraft, Emily Michele (17)

The Effect of Heating Elements on the Production and Residue Build-up of Acrylamide

Greencastle

Greencastle High School

Newman, Zachary Louis (17)

Measuring the Photovoltage Responses of Halobacterium salinarum Membranes Containing Light Sensitive Proteins

South Bend

John Adams High School

Kamat, Neha Prashant (17), Granger

Ecotoxicological Effects of "Green Chemistry" Solvents on Daphnia magna

Lavanture, Douglas George (17), Bristol

Maximizing Power Density in Direct-Methanol Fuel Cells: The Construction of a Novel Design of a Multiple Fuel Cell Unit

Terre Haute

Terre Haute South Vigo High School

Chi, Ann (17)

H₂ and C₂H₄ Elimination Pathways in the Y + C₂H₆ Reaction

IOWA

Mediapolis

Mediapolis High School

Collier, Rachael Theresa (17), Burlington

Comparative Bioassay of Bt Corn Pollen and Limestone Road Dust Environmental Contaminants on Monarch Larvae Growth and Development

KANSAS

Prairie Village

Shawnee Mission East High School

Sarma, Arup (17), Overland Park

Word Co-occurrence Analysis: A Novel Approach to Speech Recognition Error Correction

KENTUCKY

Lexington

Paul Laurence Dunbar High School

Soleimani-Meigooni, David Nima (17)

A Novel Method of Enhancing Prostate Cancer Radiosensitivity by Natural Compound Curcumin

LOUISIANA

Shreveport

Caddo Parish Magnet High School

Philips, Rebecca Catherine (17)

Effects of Copper Suppression on Invasion and Metastasis of Prostate Cancer

MARYLAND

Bethesda

Walt Whitman High School

Marberg, Eric Paul (17)

Electrostatic Deflection of Highly Charged Ions Within the Beam Line of the Electron Beam Ion Trap

Clarksville

River Hill High School

Zhu, Jiang Wei (17), Columbia

Peripheral Blood T Cells: Remodeled Internal Morphology of Microvilli and Nucleus-Mitochondria Polarization in Response to Chemokine Stimulation

Columbia

Wilde Lake High School

Cheong, Colleen Melissa (16)

A Variant in the Uncoupling Protein 2 May Be Associated with an Increased Risk for Type 2 Diabetes Mellitus

The Learning Community International

Thakur, Gaurav Subhash (17), Rockville

Analysis of Generalized Factorial Functions

Cumberland

Allegany High School

Hang, Qilei (18)

Optimization of the Location for Two Drawpoint Holes in Conical Stockpiles

Edgewater

South River High School

Frey, Erin Lynn (17), Gambrills

Water on Mars: Where Was It, Where Is It Now?

Frederick

Frederick High School

Tarasov, Vladimir Sergeevich (17)

Molecular Genetics Characterization and Subspecies Determination of Captive Tigers (Panthera tigris)

Governor Thomas Johnson High School

Levashov, Michael Yurievich (17)

Computer Simulation of the Convergent Evolution of DNA Binding Sites as in the λ cI/Cro Control System

Rockville

Charles E. Smith Jewish Day School

Kimchi, Itamar (17), Potomac

Salt Partitioning in Multi-Lamellar Phosphatidylcholine Lipid Bilayer Dispersions

Silver Spring

Montgomery Blair High School

Anahtar, Melis Nuray (17), Bethesda

Microfluidic Device for Rapid Isolation of Pure Leukocyte Populations

Anand, Easha (17), Potomac

Interactions Between the Amyloid Precursor Protein and the NMDA Receptor: A Possible Biophysical Basis for Alzheimer's Disease

Bhaskar, Aditi Seth (17), Gaithersburg

The Relationship Between Outer Radiation Belt Psi Database Variables

Chung, Elena Yin-yin (17), Rockville

A Novel Prebiotic Route to Pyrimidine Synthesis: A Hydrothermal Threshold to the RNA World

Cohen, Lauren Joyce (18), Gaithersburg

Novel Algorithms for Surface Plasmon Resonance Data Processing in a Parallel Multitask Environment

Hu, Han (17)

Cross-Country Empirical Analysis of Scarcity of Long-Term Credit in Developing Countries and Factors Affecting Countries' Access to Such Credit

McManigle, John Edward (18), Rockville

Using Immunocytochemistry to Study the Effect of Estrogen on Amyloid Protein in Brain Cells

Shang, Jessica K. (16)

Element Partitioning Between Olivine and Melt at 1400-1450°C

Stern, Joshua Gallant (17)

Water Indicators in Sirenum Terra and Around the Argyre Impact Basin, Mars

Su, Gordon L. (17)

The Effects of Economic Globalization on Income Inequality in Post-Mao China

Wang, Xinlei (17), North Potomac

Development of a Siderophore-based Optical Array Biosensor for Detection of Pathogenic Bacteria

Wolf, Elliott (18), Takoma Park

The Use of Racial Profiling by the Maryland State Police in Drug Interdiction, 1995-2002

Yan, Kenneth (18), Potomac
Identification of New Targets for HIV-1 Antivirals Using a Model Retrovirus in Yeast

Rockville High School

Vira, Shaleen Naren (17)
A Novel Mechanism to Compare Protein Binding vs. Folding to Aid in Mitigating the Effects of Autoimmune Diseases via Development of a Biotinylated Mutant β 2microglobulin

MASSACHUSETTS

Brookline

Maimonides School

Levin, Andrei Joseph (17), Newton
Mouse Homologs of Human Retroposed Genes

Concord

Middlesex School

Kruzel, Sean Paul (17), Canterbury, NH
Localizing Fluid Flow in Microfluidic Channels to Locally Stimulate Biological Neural Networks

Falmouth

Falmouth Academy

Allen, Rachel (17), Cataumet
Depuration Rates of Quahogs from Estuaries with Different Signatures of Nitrogen

Lexington

Lexington High School

Lo, Andrew Kwok-Wai (18)
Do D014N Mutation in Endostatin Correlate with a Higher Incidence of Prostate Cancer?

Tse, Monica Y. (17)
Attraction of the Plant Parasitic Nematode Meloidogyne hapla to Nitric Oxide from Medicago truncatula Roots

North Attleboro

North Attleboro High School

Hedberg, Herbert Mason (17)
An Efficient, Functional Telomerase Activity Assay

MICHIGAN

Bloomfield Hills

Cranbrook Kingswood School

Chen, Yuyin (17), West Bloomfield
Removing All Edges from the Complete Graph and the Complete Bipartite Graph

Okemos

Okemos High School

Lu, Yao (17)
Porous Silicon-Based Biosensor for Detection of Salmonella

Wang, Shuyu (17), East Lansing
Statistical Mechanics of DNA Bending

MINNESOTA

Coon Rapids

Coon Rapids High School

Doan, Thai Thanh (17)
Rhizobium Inoculation of Wheat: A Surrogate Host for Rhizobia for Slowly Establishing Prairie Legumes

Minneapolis

Breck School

Mitchell, William Stuart (18)

Suzuki Coupling: Aqueous and Anhydrous Synthesis of Ferrocene-Capped Thiophene

Yock, Adam Douglas (18), Edina

Sun and Shade Acclimation of the Photosynthetic Apparatus in Moss

Plymouth

Wavzata High School

Zhou, Ning (16)

Quantitative Trait Loci Modulating Corpus Callosum Size in Mouse Brain

Saint Paul

Saint Paul Academy & Summit School

Ali, Nicole (16), Mendota Heights

Bone Morphogenetic Protein Antagonists Twisted Gastrulation and Chordin Can Aid Primitive Human Hematopoietic Cell Expansion ex vivo

MISSOURI

Chesterfield

Parkway Central High School

Vinjamoori, Anant (17)

Proteasomal Stress Response: Analysis of Proteasome Activity Using a Newly Developed Lentiviral Reporter

Columbia

David H. Hickman High School

Hsiau, Timothy Hwei-Chung (17)

Ion Channel and Pump Function in Planarian Regeneration

Faucett

Mid-Buchanan High School

Sass, Jennifer Rose (18), Agency

The Effects of Simulated Microgravity on the Memory Retention of Dugesia tigrina: Phase II

Saint Louis

Ladue Horton Watkins High School

Chu, YunXiang (18)

Novel Nonpeptide Inhibitors of Caspase-3 for Neurodegenerative Diseases

MONTANA

Missoula

Lovola-Sacred Heart High School

Hammen, Christopher Richard (18)

Enhancing the Tensile Properties of Composite Materials by Synthesis of Polyvalent Tethers

NEW HAMPSHIRE

Hanover

Hanover High School

Lubin, Amos Benjamin (17), Norwich, VT

Timelike Hypersurfaces in de Sitter Space

NEW JERSEY

Lincroft

High Technology High School

Marino, Garrett Peter (17), Hazlet

A Model for Steady Flow Through a Long Collapsible Tube

Montville**Montville Township High School**

Park, Jin-Hyung (17)

*The Role of Cadherins in Olfactory Axon Guidance***Somerville****Immaculata High School**

Germino, Elizabeth Anne (17), Califon

*Functional Analysis of Yeast Gene *NOPI4****NEW YORK****Albany****Academy of the Holy Names**

D'Ascoli, Jennifer Anne (17), Niskayuna

*Blueberry Pie: Friend or Foe?***Armonk****Byram Hills High School**

Cheng, Jemmie Dean (17)

Structural Characterization of the NR1H Nuclear Receptor Family by Homology Modeling and Ligand Docking

Cholankeril, George Thomas (18)

*A Comparative Analysis of *lvh* Genes in Legionella*

Richelson, Silas Isaac (17)

The Primal Catalanian Conjecture Generalized to Quadratic Fields

Sherman, Marc Chritopher (17), Bedford

Standard Automated Perimetry, Applanation Tonometry and Scanning Laser Polarimetry in Glaucoma Subjects with Abnormal Peripheral Visual Fields

Stauffer, Julian Alexander (18), Bedford

Planar Graphs and Their Applications to Chemistry

Wolfson, Jayne Frances (17)

*An Exposition of the Cognitive Development in Toddlers Using Pretend Play***Bedford****Fox Lane High School**

Barish, Robert David (17)

A Novel Three-Dimensional DNA Motif for Programmable Self-Assembly of Nanostructures

Boehmer, Keeley Justin (17), Mount Kisco

Consequences of Changing Jet Direction in Quasar CTA 102

Kulawik, Chris E. (17), Mount Kisco

A Two-State DNA Nanomechanical Motor Powered by the Reversible Hybridization of a Unique DNA Strand Trigger

Russo, Amanda (17), Dobbs Ferry

*The Use of Gene Therapy in Treating Arthritis***Bellmore****John F. Kennedy High School**

Denman, Gayle Jennifer (17), Merrick

Radiation-Force Elastography with Reflected Ultrasound Beams

John F. Kennedy High School, cont'd.

Eisenstat, Carol Margaret (17), Merrick

The Effects of Cytoskeletal Disrupting Agents in Gossypium hirsutum

Friedman, Julie Lynn (18), Merrick

A Study of Plant Protein Interactions Involved in Abscisic Acid Signaling

Goldman, Samantha Beth (17), Merrick

Children's Selection of Sweet and High-Fat Foods Is Influenced by Their Inherited Sensitivity to 6-n Propylthiouracil (PROP): Results from a Twin Study

Wellington C. Mepham High School

Davison, Miles Ernest (17)

The Effect of Visual Presentation Attractiveness on Perceived Information Accuracy

Jackson, Benjamin Foster (17), North Bellmore

The Altruistic Behavior of Rabbis Toward Jewish and Non-Jewish Partners in a Hypothetical Impunity Game

Sorrentino, Jessica Ann (17), North Bellmore

The Effects of Ephedrine on the Viability of Rat Hippocampal Astrocytes

Bergen

Byron-Bergen High School

Lippa, Nadine Marianna (17)

Single Dye Molecule Fluorescence in a Liquid Crystal Host

Brewster

Brewster High School

Shedletsky, Anna-Katrina (17)

Disease Propagation Through Connective Paths: Application of the Small World Theory to Epidemic Modeling

Bronx

The Bronx High School of Science

Dama, Sravanthi (17), Jamaica

The Effect of TIMP-4 on Tumor Necrosis Factor Alpha (TNF α) Involvement in Rheumatoid Arthritis

Eng, Whitney (17), Brooklyn

A Comparison of Oyster Growth and Survival Rates in Two Regions of the Hudson River Estuary Around Pier 26 vs. a Monitored Indoor Facility

Hu, JunMei (17), Rego Park

Possible Regulation by TrkB of Angiogenesis in Wilms Tumor

Ma, Lenong (17), Flushing

The Dual Role of Radial Glial Cells as Scaffolds and Neuronal Progenitors in the Adult Canary Brain

Shum, Simon (17), Brooklyn

Identification of an Acyl-CoA Binding Site in a Hydroxysteroid Dehydrogenase

Yu, Jessica Samantha (17), Bayside

The Effects of Space Flight on Bone Development in Embryonic Quail

Brooklyn

Edward R. Murrow High School

Karabash, Dmitriy (18)

Solution Structure of Markov-like Diophantine Equations

Edward R. Murrow High School, cont'd.

Litwack, Evan Marc (17)

Socialization and the Hijab: The Implications of the Hijab on Female Muslim Adolescent Self-Bifurcation and Sex-Role Identity

Pincas, Daniel Andrew (17)

The Effect of Sibship Size, Sibship Density, Ordinal Position, and Sibling Support on Educational Achievement in Adolescents

Tran, Shirley (17)

The Effect of Tai Chi Exercise on Psychological Stress and Life Satisfaction

Midwood High School

Azbel, Lyuba (17), Staten Island

How Do the Deaf Read? The Paradox of Performing a Phonemic Task Without Sound

Kolod, Elizabeth Rose (17)

How Does Learning Sign Language Affect Perception?

Lau, Kenneth (17)

Adenosine A_{2A} Receptor Stimulation Modulates Matrix Metalloproteinase Activity in Hepatic Fibrosis

Miskiewicz, Hayley Beth (17)

Nucleoporins and the Nuclear Envelope in Alzheimer's Disease: A First Look

Storm, Shaye Perry (17)

Age Determination and Size Reconstruction of North Atlantic Codfish (Gadus morhua) from Akurvík, NW Iceland

Tannenbaum, Lindsey Blair (17)

What is the Relationship Between Apoptosis and Nuclear Changes in Alzheimer's Disease?

Carle Place

Carle Place High School

Mulvey, Laura Ann (17), Westbury

Interplay of Genes Regulated by Estrogen and Diindolylmethane

Carmel

Carmel High School

Auster, Craig Louis (17)

Uncovering the African American Experience in the Hudson Valley: The Guinea Community Archaeology Project

Garrad, James Richard (17), Patterson

The Effects of Seizures on Neuropeptide Y Expression in the Spinal Cord

Piscionere, Jennifer Anne (17)

Using a Photometric Subtraction Technique to Probe the Deep Lens Survey for Evidence of Active Galactic Nuclei

Cedarhurst

Lawrence High School

Sussman, Gene (17), Lawrence

AKT₂ Kinase Activation and It's Relation to Cellular Stress and Chemoresistance in Ovarian Cancer

Commack**Commack High School**

Broomfield, Elizabeth Lauren (17), Dix Hills

Overcoming the Diffraction Limit: Alkanethiol Chain Length Dependence of Plasmon Resonance in Encapsulated Gold Nanoparticles

Fink, Sarah Jocelyn (17)

Design and Synthesis of Novel Taxoid-Fatty Acid Conjugates as Tumor Specific Anticancer Agents

Cortlandt Manor**Walter Panas High School**

Kulkarni, Saken Subhash (17)

The Electronic Properties of Carbon Nanotube Field Effect Transistors

Croton-on-Hudson**Croton-Harmon High School**

Goldberg, Allyson Molly (17)

The Effects of Manipulating Body Core Temperature on Performance and Naps in Humans

Dix Hills**Half Hollow Hills High School East**

Axelrad, Jordan Eric (17), Melville

Effect of the Environmental Contaminants, Phosphorus, Cadmium Sulfate, and Pyrethrum on Neuroimmunomodulation in Mytilus edulis

Halperin, Bruce David (16)

An Extension of the Dining Cryptographers Protocol to Multiparty, Simultaneous Sender-Recipient Anonymous Communication

Yen, Felicia Yuen-Lee (17)

Molecular Analysis of Breast Cancer by cDNA Microarrays: Developing a Better Diagnosis and a Potential Cure

East Setauket**Ward Melville High School**

Braverman, Jennifer Anne (17)

A Novel Method of "On-On" Cell Patterning on Polymer Surfaces

Deng, Yiyi (17), Setauket

A Novel Technique for the Quantification of Trapping Force in Optical Tweezers

Jiang, Xiaodong Jessica (17), Stony Brook

Synthesis of Fe-Cr Core/Shell Nanoparticles in Pluronic[®] by Thermal Decomposition

Petersen, Eric William (17), Setauket

DNA Electrophoresis on Micro-Patterned Surfaces

Polyakov, Oleg Yurievich (17)

A Femtosecunda Optical Magnetometer Suitable for Applications in Multi-channel Magnetic Imaging

Ray-Mazumder, Nikhilesh (18), Setauket

Successful Transfection Using Functionalized Gold Nanoparticles

Reznik, Eduard (16)

New Exact Solutions to Einstein's Equations

Tang, Xiaojing (17), Stony Brook

Development of a Novel Ibuprofen Film for the Prevention of Postoperative Atrial Fibrillation

Ward Melville High School, cont'd.

Tingue, Christopher Walter (17), Stony Brook

A Ground-Penetrating Radar Survey of the Ashley Schiff Preserve, Stony Brook, New York

Wang, Kevin Yibo (17), Stony Brook

A Novel Simulation Method for Protein Structure Prediction

Yin, Nan (17), Stony Brook

Design and Development of a High Power, High Repetition Rate Eye-Safe Laser Utilizing Intra-Cavity Optical Parametric Oscillation Technology

Endicott

Union Endicott High School

Galkowski, David Michael (17)

The Effects of Sapphire Substrate on Single Wall Carbon Nanotubes Grown Using Chemical Vapor Deposition

Flushing

Townsend Harris High School

Trzcinka, Paulina (17), Rego Park

Questions Without Words: Human Movement Planning and Decision Making

Fresh Meadows

St. Francis Preparatory School

Bubnik, Michelle G. (17), Bayside

ADHD Subtype Differences on Objective Measures in Preschoolers

Laszkowska, Marlena (17), Middle Village

Disruption of the Interaction Between the Apolipoprotein E and Amyloid Beta ($A\beta$) as a Potential Therapeutic Target for Alzheimer's Disease

Glen Head

North Shore High School

Afshari, Sharagim (17), Roslyn Harbor

Let's Play Ball: Domain-Specific Knowledge in Active Memory Performance and Reasoning Abilities of Children

Great Neck

Great Neck South High School

Chou, Sharon Hsiao-Wei (18)

Design of Drug Release Profile Using Polyelectrolyte Complexes

John L. Miller-Great Neck North High School

Admoni, Henny (17)

Counting Features: Quantifying Discrete Parts in Visual Object Identification

Birnbaum, Jonathan Adam (17)

A Comparison of Flow Through Monoleaflet and Bileaflet Mechanical Heart Valves Utilizing in vitro Digital Particle Imaging Velocimetry and Computational Fluid Dynamics

Chiang, Katherine Shang (17)

A Novel Study of Oceanic Bacterial Activity: α -Proteobacteria Enrichment in Aerosols and the Microlayer

Desai, Maanit (17)

A Simplified Method for Characterizing Complex Media by the Coherent Backscattering of Light

Li, Jason G. (17)

A Numerical Analysis of Gravitational Lensing Events Involving Large Tidal Radius or D25 Isophote Local Group Galaxies

John L. Miller-Great Neck North High School, cont'd.

Mishchenko, Svyatoslav Sergeevich (17)

A Novel High-Yield Recombinant Protein Expression System

North Shore Hebrew Academy High School

Debbi, Eytan Magen (17)

A New Method for Producing Derivatives of 3,3'-Diindolylmethane for the Possible Treatment of Systemic Lupus Erythematosus

Greenlawn

Harborfields High School

Clare, Andrew Scott (17), Huntington Station

Sonic Boom Prediction: A New Empirical Formulation and Animated Graphical Model

Guilderland Center

Guilderland Central High School

Hartman, Katherine (17), Schenectady

Multicolor Photometry of the RR Lyrae Star CQ Bootis

Hewlett

George W. Hewlett High School

Mann, Marisa Sara (17), Woodmere

Regulation of the Phytochrome Gene Family in Ceratopteris richardii

Hewlett Bay Park

Stella K. Abraham High School for Girls

Forman, Michelle (17), Lawrence

Nanostructured Thin Films for Hydrogen Storage

Jericho

Jericho High School

Ivans, Allison Michele (17)

Introversion and Anxiety Among High Achieving High School Students: An Empirical Analysis

Price, Jeremy Gordon (18)

Cell Culture Studies as a Model of the Interaction Between Two Inflammatory Diseases: Periodontitis and Coronary Artery Disease

Shum, Justine (17), Syosset

Studies of the Reactivity of Copper-Zinc Superoxide Dismutase and Hydrogen Peroxide

Kings Park

Kings Park High School

Louie, Michelle (17), Fort Salonga

Functional Genomics: An Optimized Method for Fluorescent Tagging of Full-length Gene Products of Unknown Function from Arabidopsis thaliana

Lake Ronkonkoma

Sachem North High School

Michta, Maria Lynn (17), Nesconset

Radio Detection of Meteors

Lynbrook

Lynbrook High School

Bivona, Lauren Kathleen (17)

The Correlation Between the Overall Reading Experience of Youngsters and Their Mathematical Ability and Comprehension in the Upper Elementary Grades

Manhasset

Manhasset High School

Amend, Gregory Michael (17)

The Effect Sea Star Coelomocytes Have on Asteroidea Regeneration in vivo and Lumbricus terrestris Brain Cellular Proliferation in vitro

Manhasset High School, cont'd.

Breyre, Amelia Madeleine (17)
Soybean Aphid Host Plant Specificity

Pellegrino, Jason Scott (17)
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