

San Antonio	Rhines, Archie Edwin 17 John Jay H.S. <u>115 Daytona Dr.</u> <u>78227</u> Studies Involving the Isolation of Temperature Sensitive Viruses
UTAH	
Smithfield	*Unhanand, Nuchanart 17 Sky View H.S. <u>2035 N. 10th E.</u> <u>Logan 84321</u> Effects of Radiation on Plants
VIRGINIA	
Arlington	Snipes, James Carpenter 18 Wakefield H.S. <u>2112 S. Columbus St.</u> <u>22206</u> Investigation of a Sieve-Generated Sequence
Buckingham	Thompson, David Muir 18 Washington-Lee H.S. <u>102 N. Fillmore St.</u> Streamflow Regionalization by Multiple Linear Regression Techniques
Fairfax	*Benart, Kimberlee June 17 Buckingham Central H.S. <u>Rt. 2, Box 179-A</u> Investigations Into the Relation Between Angles and Stress Distribution in Hyperbolic Paraboloid Lattice Structures
Herndon	*Meloy, Debra Ann 18 W. T. Woodson H.S. <u>4202 Selkirk Dr.</u> <u>22030</u> A Visual and Radio Investigation Concerning the Nature of Jovian Decametric Emissions
Saltville	*Smith, Nancy Carol 17 Herndon H.S. <u>13113 Pt. Pleasant Dr.</u> <u>Fairfax</u> The pH-Dependence of the Infrared Spectrum of Ethylenediaminetetraacetic Acid
Vinton	*Snow, Clarissa Ann 18 R. B. Worthy H.S. <u>Box 673</u> <u>24370</u> Matched Filter Interferometry
Spokane	*Taylor, Joyce Karlene 18 Rich Valley H.S.. <u>Broadford 24316</u> Organic Acid End Products of <u>Streptococcus</u> <u>lactis</u> as Determined by Silicic Acid Chromatography
Huntington	Mayfield, David Wayne 17 William Byrd H.S. <u>1068 Blandford Ave.</u> <u>24179</u> Effects of Lifelite Filtered Light on Plants
WASHINGTON	
Green Bay	Hicks, Martin Ed 18 Joel E. Ferris H.S. <u>1919 E. 4th Ave.</u> <u>99202</u> Pesticide Alteration
WEST VIRGINIA	
Madison	Woelfel, George Frederick 17 St. Joseph Central H.S. <u>1405 Washington</u> The Isolation and Study of <u>Bdellovibrio bacteriovorus</u> <u>Bld. 25701</u>
WISCONSIN	
Sheboygan	Cattani, David Arthur 17 Southwest H.S. <u>1356 Servais St.</u> <u>54304</u> Laser Modulation Using Polarization Plane Rotation
	*Nelson, Nanette Marie 17 Southwest H.S. <u>1415 Rockdale St.</u> <u>54304</u> Nitrite Consumption as Related to Photosynthesis in <u>Chlorella pyrenoidosa</u>
	*Brown, Laura Jane 17 West H.S. <u>2817 Van Hise Ave.</u> <u>53705</u> Male-Female Population Differences in Inbred <u>Hyalophora cecropia</u>
	Huber, Steven Carl 17 South H.S. <u>1421 Parkwood Blvd.</u> <u>53081</u> Photosynthesis in Isolated <u>Digitaria sanguinalis</u> L. Mesophyll and Bundle Sheath Cells

HONORS GROUP

IN

THE 30th ANNUAL *Science Talent Search* for the Westinghouse Science Scholarships and Awards

1971



SCIENCE CLUBS OF AMERICA

Administered By Science Service

1719 N STREET N.W. WASHINGTON, D.C. 20036

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The Meaning of Honors in the Science Talent Search

The achieving of Honors in the Science Talent Search, is an evidence of science ability and interest which can be taken into consideration by colleges and universities in admissions and granting of scholarships. For this reason this Honors List is distributed to all universities and colleges of the United States utilizing a list furnished by the American Council on Education.

All boys and girls awarded Honors in the Science Talent Search are considered so outstanding that any institution of higher learning will be justified in considering their abilities carefully.

In past years members of the Honors Group have made creditable records in the colleges and universities to which they have been admitted.

From the list of 300 Honors, 40 are being chosen as Winners of the Washington trip. Among these \$67,500 in scholarships and awards will be distributed. The Winners are being announced subsequent to the distribution of this list and their names will be published in Science News of January 30, 1971, and it will be sent upon request accompanied by a self-addressed stamped envelope.

Each of those winning honors is being furnished with multiple certifications intended to accompany applications for college admissions and scholarships, but a listing in this pamphlet should be accepted as an equivalent certification.

The proportion of boys and girls in this list is determined by the ratio of boys and girls entering the contest. Listed are 90 girls and 210 boys. Of the Honors Group, 61.8% of the boys and 68.9% of the girls rank in the upper 5% in their high school classes.

The Annual Science Talent Search

The Science Talent Search was the pioneering endeavor to discover at the high school senior year level those who have the potentialities to become the research scientists of the future. It has fulfilled this function far beyond the hopes entertained when this educational project was conceived. Many millions of dollars in scholarships in colleges and universities throughout the nation, supplementing the Westinghouse Science Scholarships, have been given to those who have thus been discovered to have high science talent.

This selection of students with research ability in science has become an institution and tradition due to approval from the educational world and the creditable records of winners in colleges, universities and professional positions.

In a real sense the annual Science Talent Search is more than a scholarship contest. It is a major step toward making scientific talent available for important tasks in our civilization.

The participation of a great industrial organization in the financing of the annual Science Talent Search is a notable contribution to the advancement of science in America. This activity can be considered a support of "pure research" of importance equal to the fundamental researchers in the Westinghouse Research Laboratories. Science and education are grateful for the financial support of the thirty Science Talent Searches by the Westinghouse Educational Foundation, an organization endowed by the Westinghouse Electric Corporation for the promotion of education and science.

Science Service, engaged in the interpretation and popularization of science on a broad front, is proud of administering, through Science Clubs of America, the annual Science Talent Search. From the newspapers, educators and scientists of America there has been enthusiastic cooperation in this annual activity that means so much to high school seniors interested in science. The Science Talent Search is a continuing opportunity and responsibility of the science groups affiliated with Science Clubs of America.

FOR RELEASE: WEDNESDAY AFTERNOON, JANUARY 20, 1971

Honors Group in the Thirtieth Annual Science Talent Search[®]

* indicates girls

H. S. indicates High School

HOME ADDRESS is underlined

AGE of winner follows name

Title of project report submitted is on next line

ALABAMA

Decatur	Gilley, Richard Morris 17 Austin H.S. <u>506 Everett Dr.</u> 35601
Opp	Jones, Mark Presley 17 Opp H.S. <u>106 Moore Ave.</u> 36467
Tuscaloosa	Dockery, Jimmie Ray 17 Tuscaloosa H.S. <u>122 Short 25th Ave. E.</u> 35401

ALASKA

Anchorage	*Walther, Delores Elaine 17 East Anchorage H.S. <u>3044 Wentworth St.</u> 99504
	Comparison of Methods of Dispersion of Crude Oil Particles in Saline Aqueous Solutions
	*Silcock, Penny Sue 17 West Anchorage H.S. <u>2207 Susitna Dr.</u> 99503

Effects of Four Pollutants on Oxygen Production by Anabaena

Fairbanks Stuck, Leslie Goodloe 17 Austin E. Lathrop H.S. 1009 Pedro St. 99701

ARKANSAS

Jonesboro	Jones, Keith Allan 17 Jonesboro H.S. <u>515 Melton Dr.</u> 72401
	Experimental Hematochromatographic Analysis

CALIFORNIA

Bakersfield	Stevens, Glenn Howard 17 Foothill H.S. <u>4120 Cambridge Dr.</u> 93306
Barstow	Diophantine Equations via Continued Fractions
	Hunter, Richard Leon 18 Barstow H.S. <u>26422 Community Blvd.</u> 92311
Cupertino	Field Study of the Nocturnal Activity of <u>Dipodomys</u>
	Pohorsky, Steven 17 Homestead H.S. <u>1641 Kennewick Dr., Sunnyvale</u>
	The Number of Ways to Represent the Reciprocal <u>94087</u>
Fresno	of an Integer as the Sum of the Reciprocals of Two Integers
	Gruner, Richard Steven 17 Hoover H.S. <u>4565 E. Sierra Madre</u> 93726
	Accounting for the Relationship of the Fibonacci Sequence
Kentfield	to Nature's Mathematical Spirals
	Hannon, John Charles 17 Marin Catholic H.S. <u>150 Ridgewood Dr.</u>
	A Fortran Plotting Package for the <u>San Rafael</u> 94901
	Representation of a Function of Two Variables
Los Angeles	in Spherical Polar and Cartesian Coordinates
	Oliprant, Peter Anthony 16 Fairfax H.S. <u>8437 Clinton</u> 90048
	Patterns of Multiples in a Sequence
Miraleste	Sherman, Max Howard 16 Fairfax H.S. <u>6224 Orange St.</u> 90048
	Calculus in Regular Polygons
	Heater, John Courtenay 18 Miraleste H.S. <u>59 Eastfield, Rolling Hills</u>
	Digital Analogy to the Ancient Abacus <u>90274</u>
Oakland	*Parker, Elaine Marie 17 Lakeside H.S. <u>3815 Magee Ave.</u> 94619
	Practical Light Stimuli for Soiless Botanical Culture
	Chan, Raymond Kay 18 Oakland H.S. <u>1108 Wellington St.</u> 94602
	Airplane Wing Design

Luey, Kenneth Thomas 17 Oakland H.S. 3121 Sheffield Ave. 94602
 Analysis of Superconducting Components
 in Electric Motors
 *Bryan, Katherine Vera 16 Cubberley Sr. H.S. 3500 Louis Rd. 94303
 New Relation for Fibonacci-Like Series
 Hamaker, Henry Christopher 17 Cubberley Sr. H.S. 796 Gailen Ave.
 Human Skin Resistance to Electricity
 94303
 *Sugihara, Corinne Susan 17 Pinole Valley H.S. 2673 Doidge Ave. 94564
 Antibiotic Properties of Spices
 Pavlath, George Attila 17 Woodside Priory School 418 Boynton Ave.
 Chemically Modified Airfoil Surfaces
 Berkeley 94707
 Gayler, Ivan Carl 18 Poway H.S. 13976 Sagewood Dr. 92064
 Luminescent Flash and Intensity Depression
 of a Bioluminescent Bacterium
 Barusch, Ronald Charles 17 John F. Kennedy H.S. 651 Cypress Point Rd.
 The Photophoretic Effect
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 Flamm, David Simson 17 John F. Kennedy Sr. H.S. 1231 - 43rd Ave.
 Growth of Hydroxyapatite Crystals
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 *Asada, Bonnie Jean 17 Clairemont Sr. H.S. 3211 Geronimo Ave. 92117
 Observed Lung Capacity of Teenagers, 13-15 Years
 *Wilkerson, Mary Susan 17 Crawford H.S. 6422 University Ave. 92115
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 Electroencephalogram Study
 Cressey, Rodney John 17 Kearny Sr. H.S. 8849 Glenhaven St. 92123
 Detection and Partial Purification of a Growth
 Promoting Factor From Human Urine for
 Fibroblasts
 *Thoman, Marilyn Louise 17 Point Loma H.S. 822 Cordova 92107
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 *Baddour, Elizabeth Isabelle 17 San Diego H.S. 2454 C St. 92102
 The Influence of Handedness on the Sensory Circle
 of Weber
 San Francisco *Mullaney, Nancy Anne 17 St. Rose Academy 153 Upper Terrace 94117
 Incorporation of Ionic Bonds Into Paper Using
 Cysteine-Treated Triazinylated Fibers
 McCarthy, Thomas Robert 17 San Gabriel Mission H.S. 629 E. Norwood
 Application of Probability to Symbolic Logic
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 Palmer, Howard Edward, Jr. 17 Lynbrook H.S. 21621 Columbus Ave.
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 Treatment Plant
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 *Lethin, Darlene Linnea 17 Willow Glen H.S. 1816 Cherry Ave. 95125
 Tentacle Tolerance
 Saratoga Benzing, David Warren 17 Saratoga H.S. 20297 Ljepava Dr. 95070
 Mechanics of Equilibrium Bubbles in Liquids

COLORADO
 Craig Allen, Steven Lynn 17 Moffat County H.S. 852 Breeze St. 81625
 You Are There!
 Denver *Baker, Patty Jo 17 North H.S. 3728 Raleigh St. 80212
 How Environments Affect the Photoreactivation
 and Ultraviolet Inactivation of *Escherichia coli*
 Fort Collins Ogg, James George 18 Fort Collins H.S. 768 Eastdale Dr. 80521
 Martian Lunar Eclipse Prediction
 Fort Logan Hurley, Neil Francis 17 Mullen Preparatory School 6901 S. Adams Way
 Rubber Technology: The Processing
 Littleton 80122
 Properties of Neoprene
 Lakewood *Eccles, Sharlyn Ann 17 Alameda Sr. H.S. 6175 W. Arizona Ave. 80226
 The Effects of Thermal and Trienzyme Detergent
 Pollution on *Ceratophyllum demersum*
 and *Helix ampularis*

CONNECTICUT
 West Haven Ruggiero, Steven Thomas 17 West Haven H.S. 347 Blohm St. 06516
 Diffraction of Microwaves Through Changing Media

FLORIDA

Palo Alto	Coral Gables	Ostlund, Stellan Sven 17 Coral Gables H.S. <u>6822 Camarin St.</u> 33146 A Computer Subroutine for Contour Plotting
Pinole	Fort Lauderdale	Chinoy, Ira Hirsh 17 Nova H.S. <u>2309 Park La., Apt. 216</u> Hollywood Characterization of Flagellar Proteins in Strains of <i>Bacillus pumilus</i> and <i>Bacillus subtilis</i> <u>33021</u>
Portola Valley	Hialeah	*Sturtz, Christine Ellen 17 Nova H.S. <u>1360 S.W. 55th Ave.</u> Plantation Response of <i>Lemna minor</i> L., Cultivated in <i>vitro</i> to Eutrophication <u>33314</u>
Poway	Jacksonville	*Quiroz, Maria Elena 17 Hialeah H.S. <u>5900 W. 12th Ave.</u> 33012 Potentiating Effects of DMSO Upon the Fungicidal Action of Benlate
Richmond	Melbourne	*Cox, Brenda Marlene 17 Terry Parker H.S. <u>9100 Jasper Ave.</u> 32211 The Combined Effects of X-Irradiation and Impurities on the Optical Absorption of Calcium Fluoride
Sacramento		*Lockette, Linda Joyce 17 William M. Raines H.S. <u>2449 Doby St.</u> 32209 Effect of Fluoride on the Bonding Strength of Glass-Ceramic to Bone
San Diego	Merritt Island	DeFranco, Anthony Lawson 18 Melbourne H.S. <u>31 E. Avenue A</u> 32901 Chromosomal Ultrastructure: An Enzymatic Study on DNA-Histone Interactions
	Miami	Przybylski, Thomas Richard 17 Melbourne H.S. <u>831 Daytona Dr.</u> Renaturation: A Study of Chromatin Composition <u>Palm Bay</u> 32901
San Francisco	North Miami	Roberts, John Thomas 16 Melbourne H.S. <u>431 Oakland Ave.</u> Indialantic Nuclear Phosphoprotein: Evidences for Derepressor Action on Native Nucleoprotein <u>32901</u>
San Gabriel	Atlanta	*Hartrich, Becky Lynne 17 Merritt Island H.S. <u>2275 Bentley St.</u> 32952 A Biochemical Investigation of the Morphogenetical Activity of the Insect Juvenile Hormone
San Jose	Norcross	Perry, Roger Ronald 16 Archbishop Curley H.S. <u>302 N.E. 100th St.</u> Analysis of a Pendulum With a Barrier <u>Miami Shores</u> 33138
Saratoga	Aiea	*Martinez, Ofelia 17 Miami Sr. H.S. <u>93 N.W. 17th Pl.</u> 33125 A Study of Reaction Rates of Hemoglobin With Oxygen and Cyanide
Craig	Honolulu	Greenwald, Glenn Michael 17 North Miami Sr. H.S. <u>1510 N.W. 134th St.</u> Thermal Pollution Effect on <i>Thalassia</i> <u>Miami</u> 33167
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Fort Collins		*Beatty, Susan Warren 17 Briarcliff H.S. <u>1010 Liawen Ct., N.E.</u> 30329 The Effect of Calcium or Magnesium Deficiency on Plant Growth and Response to X-Radiation
Fort Logan		*Baughcum, Susan Denise 17 Norcross H.S. <u>Box 292, Singleton Rd.</u> 30071 Rhythmic Banding in Gels and Gases
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West Haven	Arlington Heights	Au, Burton Kung Hung 17 Aiea H.S. <u>99-850 Lalawai Dr.</u> 96701 Experiment on Dwarfing Substance Found in Little Marvel Peas
		*Kam, Darrilynn Y. I. 17 Kaimuki H.S. <u>2469 Bingham St.</u> 96814 Investigation of the Perception of Personal Distance
		*Niwa, Joyce Chiemi 17 Kalani H.S. <u>1214 Ekaha Ave.</u> 96816 The Preparation of Large Single Crystals of Sodium Zeolite A
		ILLINOIS
		*Gunter, Anne Westbrook 18 Forest View H.S. <u>1400 Blackhawk Dr.</u> Effects of Aluminum and Silver Doping Upon the Electron Trap Distribution in Cadmium Sulfide Crystals <u>Mt. Prospect</u> 60056

Chicago	Balanoff, Clement 17 James H. Bowen H.S. 9204 S. Phillips Ave. Compact and Connected Spaces 60617 *Strauss, Lynn Janice 17 James H. Bowen H.S. 8754 Euclid Ave. 60617 Anti-Bacterial Activity of Human Saliva on Escherichia coli	Park Ridge	Barakat, Samir Farouk 17 Maine Twp. H.S. East 8400 Roseview Niles Study of the Seasonal Fluctuations of Aquatic Beetle Populations of Two Temporary Ponds in Northeastern Illinois 60648
	*Smith, Pamela Eleashia 17 Farragut H.S. 718 N. St. Louis Ave. 60624 Experiments on Plant Pigments		Barsky, Arnold Milton 17 Maine Twp. H.S. East 7901 Lyons St. Effects of DDT on the Carbon Dioxide Uptake of Chlamydomonas Morton Grove 60053
	Blumenthal, Steven Harvey 17 Lane Technical H.S. 2929 W. Birchwood Temperature vs Wavelength 60645	Skokie	Berdine, Gilbert George 17 Niles Twp. H.S. North 9438 LeClaire 60076 Kinetics of First and Second Equations of Co(edda)(C03)
	Pollack, Steven Howard 17 Stephen T. Mather H.S. 6339 N. Talman Stereoscopic Photography 60645		Greenspan, Neil Sanford 17 Niles Twp. H.S. North 8819 Lowell Terrace Induction of Immunologic Tolerance to a Specific Antigen 60076
	Trevor, Dennis James 18 Mendel Catholic H.S. 14225 S. Wentworth Ave. Co(III) Covalent Bonding Interactions Riverdale 60627 Observed in Absorption Spectra	Sparta	Schiffman, David M. 17 Niles Twp. H.S. West 5004 Greenleaf 60076 Multi-Valued Logic
Chicago Heights Des Plaines	Stelzner, Michael Fred 17 St. Patrick H.S. 5544 N. Mango 60630 Irradiation Effects on Specific Linked Genes in Drosophila	Zion	Schwarz, Steven Allan 17 Niles Twp. H.S. West 8514 Major Ave. Hydrolysis of Sucrose by Yeast Invertase Morton Grove 60053
	Opila, Donald Andrew 17 Bloom Twp. H.S. 381 W. 16th St. 60411 The Photoelectric Effect		Conner, Gary Ben 17 Sparta H.S. Box 122 Evansville 62242 New Method of Representing the Light Curve of Eclipsing Binary Stars
	Baldo, Jonathan 17 Maine Twp. H.S. West 851 S. Wolf Rd. 60016 Investigation of an Unstable Gene Producing Chlorophyll Variegation in Medicago falcata		Bacevicius, John Anthony 17 Zion Benton Twp. H.S. 2910 - 9th St. High Speed Displacement Form's System Analysis Winthrop Harbor 60096
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Evanston	Hentschel, Alfred Michael 17 Evanston Twp. H.S. 909 Hamlin St. 60201 Polywater Synthesis		*Grant, Allene Kaye 17 Harrison H.S. 5816 Monroe Ave. 47715 The Electrophoretic Separation of Human Serum Lactic Dehydrogenase Isoenzymes in Determining Pathologic Alteration of Cells
	Huber, Walter Dana 17 Evanston Twp. H.S. 2509 Hastings Ave. 60201 Celestial Motions of the Jovian Planets		Purdy, Dale Richard 17 Harrison H.S. 3501 Oak Hill Rd. 47711 Effect of Time on the Absorption of 5-Diazouracil Into E. coli B/r Cells
	Lavey, Warren Gary 17 Evanston Twp. H.S. 8935 Tamara Terrace Computer Simulation of the Sociological Invasion-Succession Process 60076		Brack, Donald Eugene 17 North H.S. 435 E. Mill Rd. 47711 Communication by Laser
Franklin Park	Schreiner, Joseph Frank 16 East Leyden H.S. 4110 Wagner Ave. Construction of New Tonal Systems in Music Schiller Park 60176	Fountain City	*Longenecker, Jan Rolanda 18 Northeastern H.S. R. R. #1 47341 Development of a Simple Light Meter and Formation of the Equations: $2n = T$ and $5/3n = T$, Associated With Photomicrography
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Joliet	Preskill, John Phillip 18 Highland Park H.S. 426 Ravine Dr. 60035 Development of a General Semigroup	Hammond	DeRosa, Dennis Michael 17 Morton Sr. H.S. 6450 Kentucky 46323 Extraction and Purification of Indole-3-glycerol Phosphate Synthetase of Salmonella typhimurium
LaGrange	Johnson, Scott David 17 Joliet West H.S. 608 Bethel Dr. 60435 Polyominoes	Martinsville	*Minard, Loraine Catherine 17 Morton Sr. H.S. 3225 - 176th St. 46323 The Possibilities of Using Thermal Water as an Ameliorating Agent
	*McCarthy, Patricia Ann 17 Lyons Twp. H.S. 1001 S. Waiola 60525 How Does Indol Acetic Acid Affect Phaseolus lunatus?	New Haven	*Postel, Sandra Lee 18 Martinsville H.S. 460 E. Holden St. 46151 Human Objectivity
	Shepro, Richard Warren 17 Lyons Twp. H.S. 320 Castle Cir. LaGrange Lift Generation on Circular Cylinders by Circulation Control Park 60525		May, Clark Francis 18 New Haven H.S. 739 Park Ave. 46774 Analysis of Hilsch's Theory on the Operation of the Vortex Tube
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	*Painter, Kathleen Ann 17 La Harpe H.S. La Harpe 61450 Rolomite: Amazing New Concept in Elementary Mechanics	Carroll	Griggs, James Russell 17 Avo Ha Jr. -Sr. H.S. 300 Kimball St. Air Pollution Control: The Kinetic Approach Hancock 51536
Lombard	Snobek, Norbert Hans 17 Glenbard East H.S. 336 W. Harding 60148 Quantitative Gas Chromatography		*Strautman, Mary Jo 17 Kuemper H.S. 113 E. 14th 51401 Effects of Fertilizers on Various Tree Species
Niles	Brenner, Alan Roy 17 Notre Dame H.S. for Boys 8312 N. Odell Ave. A Study of the Rate of Reaction and the Quantum Efficiency of a Luminol-Hydrogen Peroxide System 60648	Shawnee Mission Wichita	KANSAS
North Chicago	Jingfors, Kent Tage 18 North Chicago H.S. 1919 - 16th St. 60064 Studies of Certain Displays and Calls During the Pairing Period of the Grey Heron		Mills, Russell Clarence, Jr. 16 Shawnee Mission East H.S. 5407 Mission Theory of Rotations of Coordinate Axes in N-Space Dr. 66208
Northfield	Rocek, Martin 17 New Trier West H.S. 2636 Laurel La. Wilmette 60091 Parabollexes and Anti-Parabollexes		Roberts, John Stewart 17 Wichita Southeast H.S. 104 N. Armour 67206 Study of the Physical and Spectrochemical Properties of Polywater
Oak Lawn	*Gibson, Claudette 17 Oak Lawn Comm. H.S. 9629 S. Mason Ave. 60453 The Effects of Monosodium Glutamate on Chick Embryos		
Oswego	*Wilson, Mary Jo 17 Oswego H.S. East River Rd. 60543 Numerical Taxonomy		

	KENTUCKY	
Lebanon	*Elder, Ella Ann 17 Marion County H.S. Rt. 1, Box 77 Loretto 40037 Investigation of the Osage Orange Fruit	
Lafayette	LOUISIANA	
New Iberia	*Eyster, Linda Sue 17 Lafayette H.S. 226 Monteigne Dr. 70501 Numerical Comparisons on Gastropodian Radulae	
New Orleans	Bedia, Jorge Ignacio 17 Catholic H.S. 409 Birch St. 70560 Electric Discharge Machine	
	Bennett, James Toliver 17 Benjamin Franklin Sr. H.S. 5526 Wilton Dr. A New Heterocyclic Synthesis: 6-Ethylphenanthridine 70122	
	*Wizer, Barbara Toby 16 Benjamin Franklin Sr. H.S. 4527 S. Roman St. Isolation, Purification, and Characterization of 70125 Melanin-Dispersing Hormone in the Fiddler Crab	
	MAINE	
Naples	*Burgess, Georgette Olive 17 Lake Region H.S. RFD #1 Casco 04015 A Comparison of the Periods of the Sunspot Cycle and Planetary Conjunctions	
	MARYLAND	
Bethesda	Weissler, Robert Charles 16 Bethesda-Chevy Chase H.S. 5510 Uppington Attempted Proof of the Four-Color St. Chevy Chase 20015 Theorem Using Mathematical Induction	
Hyattsville	Fishbein, Alan Jay 17 Northwestern Sr. H.S. 2510 Avalon Pl. 20783 Golf Ball Compression -- Distance of Flight	
Oxon Hill	Olson, Donald Wayne 17 Oxon Hill Sr. H.S. 126 Rolph Dr. 20021 An Analysis of the Quartz of Hot Springs, Arkansas	
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	Miller, Robert Lind 17 Springbrook H.S. 10741 Kinloch Rd. 20903 Effects of Wind Direction and Velocity on Atmospheric Turbidity	
	MASSACHUSETTS	
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Holden	Taylor, Nicholas Benedict 17 Wachusett Regional H.S. 232 Grove St. Oil Viscosity as a Function of Rate of Paxton 01612 Shear Using Stokes' Law	
Milton	*Role, Lorna Wendy 17 Milton Academy Girls' School 1021 Metropolitan Growth and Intracellular Viability of <u>Pseudomonas</u> Ave. 02186 <u>aeruginosa</u> , Following Phagocytosis by Human Leukocytes	
Sharon	Sirkin, Philip Mark 16 Sharon H.S. 18 Gorwin Dr. 02067 Experimental Procedures in Electrostatic Bonding	
Springfield	Metzidakis, Angelo Harry 17 Technical H.S. 97 Shefford St. 01107 Time-Resolved Spectrophotometric Analysis of the Iodine Clock Reaction	
	MICHIGAN	
Birmingham	Auchterlonie, Richard Carl 16 Wylie E. Groves H.S. 25945 Balsam Ion Diffusion Rates: Efficiency of Columnar Franklin 48025 Separation Determined Through Polarography	
Detroit	*Zidwick, Mary Josephine 17 Marian H.S. 2482 Brethren Dr. The Effects of Five Common Bloomfield Hills 48013 Industrial Chemicals on <u>Euglenia gracilis</u> and <u>Dugesia tigrina</u>	
	Broner, Adam 17 Cass Technical H.S. 18244 Parkside 48221 Isolation and Partial Purification of Two Extracellular Ribonucleases From the Mold <u>Mucor genevensis</u>	
	Wisner, James Nicholas 17 Catholic Central H.S. 17590 Whitcomb Fluidics 48235	
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	MINNESOTA	
	Kane, Jonathan Michael 17 Duluth East H.S. 525 N. 17th Ave. E 55812 Conic Sections From a Cone and Plane	
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	MISSISSIPPI	
	Howell, Joel Dubose 17 S. D. Lee Sr. H.S. 817 - 5th Ave. N. 39701 Effect of Ribonuclease on the Regeneration and Subsequent Modification of Behavior in <u>Stentor coeruleus</u>	
	Chamberlain, William Thomas 17 Pascagoula H.S. 1122 Del Norte The Structure of Liquid Water Cir. 39567	
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	Kimmel, Robert Raymond, Jr. 17 Lindbergh Sr. H.S. 9507 Caravan Dr. Design and Construction of the Kimmel Dry-Box 63126	
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	Krekemeier, Michael Louis 17 Central Catholic H.S. R.R. #1, Box 222 The Equilibrium Constant 68788	
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	West, Kenneth Guy 17 Mineral County H.S. 637 F St., Box 186 89415 Optically Controlled Completely Automated Vehicle	
	Gillet, Stephen Lee 17 Edward W. Clark H.S. 215 Woodley 89106 The "Arc Speaker"	
	NEW JERSEY	
	Bergenfield Dong, Mitchell Lang 18 Bergenfield H.S. 100 Porter Ave. 07621 The Biochemical Mechanism of Salt Tolerance and Developing the Edible Halophyte	
	Jersey City *Zientek, Lucy Josephine 17 St. Dominic Academy 102 W. 45th St. Evaluation of Biermann's Theory on the Bayonne 07002 Cause of Solar Magnetic Disturbances	
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Designed to discover and develop scientific ability among high school seniors, the Science Talent Search is conducted annually for the Westinghouse Science Scholarships and Awards by Science Clubs of America, a Science Service activity, 1719 N Street, N.W., Washington, D.C. 20036.

Twelve girls and 28 boys (proportion determined by ratio of boys and girls completing entries) are being invited to Washington, D.C., for an all-expense trip February 24 through March 1, 1971, to attend the Science Talent Institute. Here 10 winners will be selected by the board of judges to receive one of the following four-year Westinghouse Science Scholarships: One \$10,000 (\$2,500 per year), two \$8,000 (\$2,000 per year), three \$6,000 (\$1,500 per year), four \$4,000 (\$1,000 per year). The remaining 30 contestants will be given Westinghouse Science Awards of \$250 each.

The trip winners are 16 to 18 years of age and come from 33 cities in 15 states. They were picked by the judges from among 17,751 contestants of whom 1,110 completed their entries by writing a report on their science project, submitting personal data and teacher recommendations. Completed entries were received from 49 states and the District of Columbia.

Of the 40 Thirtieth Annual Science Talent Search Winners, 33 ranked in the top 5% of their graduating class and 17 were first, second or third. Most of the winners are members of science clubs and many of them are club presidents or other officers. Most of their clubs are affiliated with Science Clubs of America. Girls accounted for 29.8% of the entries this year.

Washington Trip Winners

* indicates girls
H.S. indicates High School

HOME ADDRESS follows name of school
AGE of winner follows name

ALASKA

Anchorage *Walther, Delores Elaine 17 East Anchorage H.S. 3044 Wentworth St.
99504

CALIFORNIA

Bakersfield Stevens, Glenn Howard 17 Foothill H.S. 4120 Cambridge Dr. 93306
Palo Alto Hanaker, Henry Christopher 17 Cubberley Sr. H.S. 796 Galen Ave. 94303

COLORADO

Fort Collins Ogg, James George 18 Fort Collins H.S. 768 Eastdale Dr. 80521

FLORIDA

Fort Lauderdale Chinoy, Ira Hirsh 17 Nova H.S. 2309 Park Ln., Apt. 216 Hollywood 33021
*Sturtz, Christine Ellen 17 Nova H.S. 1360 S.W. 55th Ave. Plantation
33314

North Miami Greenwald, Glenn Michael 17 North Miami Sr. H.S. 1510 N.W. 134th St.
Miami 33167

ILLINOIS

Arlington Heights *Gunter, Anne Westbrook 18 Forest View H.S. 1400 Blackhawk Dr.
Mt. Prospect 60056

Des Plaines Baldo, Jonathan 17 Maine Twp. H.S. West 651 S. Wolf Rd. 60016
Evanston Lavey, Warren Gary 17 Evanston Twp. H.S. 8935 Tamara Terrace
Skokie 60076

LaGrange Van Aken, James Hugh 17 Lyons Twp. H.S. 5003 Grand Ave., Western
Springs 60558

Oswego *Wilson, Mary Jo 17 Oswego H.S. East River Rd. 60543
Skokie Greenspan, Neil Sanford 17 Niles Twp. H.S. North 8819 Lowell Terrace
60076

NEW JERSEY

Dong, Mitchell Lang 18 Bergenfield H.S. 100 Porter Ave. 07621

NEW MEXICO

Hoskins, Edward Joseph 17 Las Cruces H.S. 410 E. Farney Rd. 88001

NEW YORK

Kenigsberg, David Reuben 17 Benjamin N. Cardozo H.S. 249-21 Thornhill
Ave. Little Neck 11362

Ling, Wensor 17 Francis Lewis H.S. 163-03 Sanford Ave. 11358
Raps Mitchell Steven 16 Francis Lewis H.S. 67-38A 190th La. Fresh
Meadows 11365

Feldman, Gary Aphraim 16 Forest Hills H.S. 98-51 64th Ave.
Rego Park 11374

Tilevitz, Orrin Eliot 16 Forest Hills H.S. 67-28 Juno St. 11375

*Klapholz, Sue 17 Jamaica H.S. 82-61 166th St. 11432

Brady, Robert Andrew 17 Bronx H.S. of Science 216 E. 96th St. 10028
Gruber, Samson David 16 Bronx H.S. of Science 1160 Park Ave. 10028

*Jernazian, Marie Susan 17 Bronx H.S. of Science 157 E. 28th St. 10016
*Lo, Cecilia Wen-Ya 16 Bronx H.S. of Science 94-21 58th Ave., Flushing
11373

Lo, Martin Wen-Yu 18 Bronx H.S. of Science 94-21 58th Ave., Flushing
11373

NORTH CAROLINA

Heath, Lenwood Scott, Jr. 17 North Pitt H.S. Route 2, Box 185
Robersonville 27871

OHIO

Collins, Tucker Otis 18 Bay H.S. 27030 Bruce Rd. 44140

*Bockenstedt, Paula Louise 16 Wayne H.S. 5780 Benedict Rd. 45424