HONORS GROUP
IN
THE 34th ANNUAL
Science Talent Search®
for the Westinghouse Science Scholarships and Awards
1975

SCIENCE CLUBS OF AMERICA
Administered By Science Service
1719 N STREET N.W. WASHINGTON, D. C. 20036
The Meaning of Honors in the Science Talent Search

The achieving of Honors in the Science Talent Search is an evidence of ability and interest in science and engineering 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 200 Honors, 40 are being chosen as Winners of the Washington trip. Among these $167, 000 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 February 1, 1975, 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 list in this pamphlet should be accepted as an equivalent certification.

Judging in this competition was without regard to sex. Listed are 69 girls and 225 boys. Of the Honors Group 60.7% 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 and engineers 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 discovered to have high science talent.

This selection of students with research ability in science and engineering has become an institution and tradition due to approval from the academic community 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 and engineering 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 researches in the Westinghouse Research Laboratories. Science and education are grateful for the financial support of the thirty-four Science Talent Searches by the Westinghouse Educational Foundation, an organization endowed by the Westinghouse Electric Corporation for the promotion of science and engineering.

Science Service, engaged in the interpretation and public understanding of science on a broad front, is proud of administering the annual Science Talent Search. From the newspapers, educators, scientists and engineers of America there has been enthusiastic cooperation in this annual activity which means so much to high school seniors interested in science and engineering.

FOR RELEASE: WEDNESDAY AFTERNOON, JANUARY 22, 1975

Honors Group
in the Thirty-fourth Annual Science Talent Search

HOME ADDRESS is underlined  AGE of winner follows name  Title of project report submitted is on next line

ALABAMA

Birmingham

Mashburn, Jay Parker 17 Homewood H.S. 448 Crest Dr. 35209
Mapping of Heat Rise Within an Ultrasonic Beam
Day, Dennis Faye 17 Austin H.S. 1512 15 Ave. S.W. 35601
Production of Starch Through Artificial Photosynthesis in Escherichia coli
Gronows, Susan Elaine 17 Austin H.S. 1502 Garth Ave. S.W. 35601
Study of Beta-Glucuronidase Enzyme Production Due to Brevundimonas Arthritis and the Anti-Inflammatory Effects of Catecholamines
Lyons, Jeffrey Howard 17 Fort Payne H.S. 401 18 St. S.W. 35967
A Quantitative Study of the Bromate-Bromide Reaction
Lundberg, Eloise Karin 17 Huntsville H.S. 123 Noble Dr. 35802
Isolating and Identifying Antibiotics
Nadin, Alexander Garry 17 Randolph School 890 Jacqueline Dr. 35802
Analysis of Heat Pipe Design Characteristics and Their Effect on Performance
Walker, William Flynn 18 Randolph School 1600 Drake Ave. S.W. 35802
Biomedical Applications of Holographic Nondestructive Testing

FORT PAYNE

Huntsville

ALASKA

Anchorage

Agosti, Tam Elizabeth 17 West Anchorage H.S. 2324 Loussac Dr. 99503
Arthrobacter in Arctic Oil Soaps and the Microbial Oxidation of Crude Oil Residue by Certain Arthrobacter Species

Springdale

ARKANSAS

Springdale

VAUGHAN, Patrick Lee 18 Springdale H.S. 504 Maple Dr. 72764
Decay of the Latent Image in Photographic Emulsion

CALIFORNIA

Alhambra

Fang, Melting Laura 17 Alhambra H.S. 1401 Stonewall St., Monterey Park 91754
In vivo Staining of Canorhabditis elegans

Corning

Babb, Thomas Andrew 17 Corning Union H.S. R. 1, Box 251-F 96021
Petroleum Degradation: A Comparative Study of Two Microbes Using Diesel Fuel and Pure Hydrocarbons
Brooks, Donald Jefery 17 Costa Mesa H.S. 2291 Comstock St., Costa Mesa 92627
Optical Analysis of Porey Structures

Costa Mesa

Freemont

Convergence of Iterative Sequences

Glendale

Morrison, Robert Darsie 18 Glendale H.S. 1231 N. Howard 91207
Design of a Fully Programmable Computer

La Jolla

Marchak, Daniel Robert 17 La Jolla H.S. 430 Rethebin Way 92037
Model System for Facilitated Diffusion of Glucose Across Cell Membranes

Los Angeles

Los Angeles

Los Altos

Davis, Ronald Peter 17 Los Altos H.S. 25800 La Rama Lane, Los Altos
Occurrence of Mammata in Dictyostelium discoideum

los Altos
McKenna, Charles Edward 17 Griffin H.S. 1113 Zebulon Rd. 30223
The Wolden Shale: Faultal Interpretation of a Fossiliferous Silurian Formation

HAWAII

Alea
Chieng, Todd N. 17 Alea H.S. 99-1242 Napauani Rd. 96701
Probe Into Regulation of the Armyworm
Dacanay, Samuel 15 Alea H.S. 99-369 Kulawa Pl. 96701
Controlled Symmetry: The Key to Control of Subterranean Termites?
Kakazu, Harry Kenji 17 Alea H.S. 99-551 Hokuani St. 96701
Degeneration of Akoos by Decay of Chironomus hoffmannianus
Honolulu
Zeitlin, Scott O. 17 Kalani F.S. 5130 Ophir St. 96211
Amino-Terminal Amino Acid Sequence of Spirulina maxima Peredoxin
Iwamoto, Elaine Midori 17 Pearl City H.S. 96701
Antibacterial Properties of a Soft Coral

IDAHO

Pocatello
Willey, Robyn Lea 16 Pocatello Sr. H.S. 1352 E. Lewis 83201
Some Factors Affecting the Germination of Helicotris alopecuroideus

ILLINOIS

Chicago
Suszczyn, Susan Marie 17 Lourdes H.S. 3909 W. 60 Pl. 60629
An Expedition in Speech Synthesis
Yore, Brenda Eileen 17 Lourdes H.S. 5445 S. Kedal Credit 60625
Concentrations of Metal In Plants Crown in Container Studied
Fonte, Robert Thomas 17 Weber H.S. 3311 W. Shakespeare Av. 60657
Gas-Liquid Chromatography System for Chlorinated Compounds
Petrick, Michael Aaron 17 York Community H.S. 838 Parkside 60626
Construction of a Modular Interpreter for a Computer Language
Granite
Lear, Gary Lee 17 Granite City Sr. H.S. 12 Wanda 62040
Electroluminescence as a Possible Replacement for Color Television Picture Tubes
Highland Park
Stone, Thomas William 17 Highland Park H.S. 3261 University Ave. 60035
Holographic Recordings on Low Resolution Photographic Emulsions

INDIANA

Carmel
Evans, Joseph Mark 17 Carmel H.S. 10225 Westfield Blvd., Indianapolis 46232
Separation of A Allelotype in Rabbits - Globulin
Evansville
Schultz, Edward Varg 17 North H.S. 3004 Bedley Ct. 47711
Isolation and Identification of an Antibacterial Substance Found in the Wheat Seed and a General Procedure for Further Extractions
White, Robert Scott 17 North H.S. 1700 N. Villa Dr. 47711
Laser Holography: Stress Patterns and Multiple Images
	
Indianapolis
Khan, Rohit 17 Lawrence Central H.S. 6267 Colebrooke Dr. 46220
Effect of a Solute on the Change in Entropy of Water
Pender, Jay William 18 North Central H.S. 6250 Allisonville Rd. 46220
A Mechanistic Study of the Dehydration of Aldehydes
Sereby, Andrew William 18 Sycamore Memorial H.S. 7242 Whitehall Dr. 46225
Anisotropic Properties of Plastic
Williams, Thomas Watson, Jr. 18 Shortridge H.S. 1351 N. Arsenal Ave. 46218
Syntheses and Analyses of Two Nickel Derivatives of Sparfentos

Kentland
Castonig, Steven John 17 South Newton H.S. 203 S. Fourth St. 47851
Temperature and Plant populations in Eutrophic Waters
Schwarz, Willard Anthony 17 Lawrenceburg H.S. 945 W. 47205
Mass and Energy Relations Between Electrons and Protons

IOWA

Bettenfeld
Light, Robert Allan 17 Bettendorf H.S. 212 Beckett Rd. 52722
Quantitative Study of the Factors Which Determine Strength in Wood
Stamper, Patricia Frances 17 Kueper H.S. 113 S. 14 St. 51401
Control of Needle Blight on Pines

KENTUCKY

Louisville
McCoy, John Millard 17 Waggener H.S. 420 Wallace Ave. 40207
Construction of a Digital Computer System and Its Application to the Study of Boolean Algebra and Probability
Owenton
Arnold, Joy Charlene 17 Owen County H.S. 410 W. Seminary St. 40359
Correlation of Dental Pulp Tissue Shrinking with Human Age Estimation

LOUISIANA

Lafayette
Brignac, Donald Veron 17 Lafayette H.S. 953 Second St. 70501
Blood Protein Level in Crayfish During the Intermittent Cycle
Martinez, Kenneth Wayne 17 St. John Vianney Preparatory School
ERAC II: An Automatic Program for Performing Interaction of Some Practical Operations
Sanderford, H. Britton 17 St. John Vianney Preparatory School
The TOC TP-5: A Multi-Processing, Distributed Architecture, Time-Share Computer

MAINE

Bangor
Binette, Leon Erwin 17 Bangor H.S. 105 Jackson St. 04401
Fibrillation of the Muscles of the Wrist Muscles During Flight

MARYLAND

Bethesda
Grant, Jonathan Edwin 17 Bethesda Chevy Chase H.S. 2682 East West Hwy., 20815
Possible Lethal and Mutagenic Effects of Radio Waves on Mutated Strains of Salmonella typhimurium
Douglas, David John 17 Walter Johnson H.S. 7020 Braddock Lane 20043
Effects of Human Binding Diseases on the Level of Prolactin in the Bloodstream
Marks, Henry Jacob 17 Walt Whitman H.S. 6201 Robinwood Rd. 20043
Detection of Hemoglobin Variants by Hemoglobin Electrophoresis

Camp Springs
Barkey, Stuart Austin 17 Crossland Sr. H.S. 5409 Ludlow Dr. 20031
A BASIC Interpreter for the IBM 1130

Pottomac
Wei, Sha Ching 17 Winston Churchill H.S. 10402 Great Arbor Dr. 20854
Liquid Leads to Liquid Surfaces
White, Mark Rex 18 Winston Churchill H.S. 8507 Buxton Rd. 20854
Formula for Finding Square Roots of Complex Numbers and 2 x 2 Matrices

Springfield
Gray, Peter Lawrence 17 Springfield H.S. 12516 Haydn Dr. 2094
Mutations Affecting the Killer Character of Saccharomyces cerevisiae

MASSACHUSETTS

Andover
Maranto, Anthony Rosario 17 Phillips Academy 1628 N. Parkside Ave., Chromosomal and Anatomical Origins of Phototaxis in Drosophila melanogaster

Chicago, Illinois 60639
Boca Raton, Alan Leonard 17 Martin Van Buren H.S. 224-07 Manor Rd. 11427
Does the Reproduction of Cilia Depend on Cytoplasmic Inheritance?
Zimmerman, Thomas Gabrielle 17 Martin Van Buren H.S. 216-15 Hartland Dr.
Directional Radiation Detectors
Avon, Fashing 11544
Worcester, Harold David 15 Brighton H.S. 45 Woodlawn Rd. 14207
Computer Simulation and Statistical Analysis of Las Vegas Solitaire
Roslyn, Kenneth Barry 17 Roslyn HS. 34 Rockhill Rd. Roslyn Heights
Effect of Color Upon Recognition Thresholds
Syosset, Andrew Jay 17 Syosset HS. 2 Conover Dr. 11797
Design and Modification of Electronic Equipment and Computer Programming for Analysis of the Human Brain's Activities During Sleep
Watertown, Bonadio Allan Robert 17 Watertown HS. 373 East Ave. 13601
Three Dimensional Perspective Simulation Via Computerized On Line Display
West Seneca, Martin Augustus 17 West Seneca East Sr. H.S. 52 Rondelay Dr.
Design and Construction of a Large Scale Digital Computer System
Cheektowaga 14227

North Carolina
Raleigh, Jones Herman Stanley 1 Wake Christian Academy Route 2, Wendell 27591
Speech Synthesis
Villani, Beverly Barbee 17 Wake Christian Academy Route 1, Box 123,
Effect of Temperature Shock on the Production of Hemidesmus in Drosophila melanogaster and Detection by Paper Chromatography
Garner 27591

North Dakota
St. Thomas, Heuchert Joan Carol 17 St. Thomas Public H.S. St. Thomas 58276
Plant Growth and Hormone Distribution as Influenced by Centripetal Force

Valley City, Bhagra Maninderpal 16 Valley City HS. 1470 N. Central Ave. 58072
Investigations in Control of Dental Plaque

Williston, Dominik Allen Keith 17 Williston Sr. H.S. P.O. Box 212 58801
Effects of Voltage on the Spattering Rate of Cu

Ohio
Berea, Hill Esther Laura 17 Berea H.S. 81 Manning Dr. 44017
A Possible Growth Inhibitor Produced in Light-Treated Fertilized Soybeans
Cincinnati, White Alice Bonner 17 Mariemont H.S. 3711 Petoskey 45227
Calculation of Two-Dimensional Probabilities for Hydrogen Atomic Orbitals and 3p Molecular Orbitals From Schroedinger Wave Functions

Columbus, Kolarick William Michael 17 Whitehall-Yearling H.S. 605 Ross Rd. 43213
In the Low Temperature-Presure Hydrogen-Oxygen Fuel Cell Practical?

Cuyahoga Falls, Priebes Alan R. 17 Cuyahoga Falls H.S. 1800 Silver Lake Ave. 44223
Calculation of Refractive Indices of Organic Liquids

Georgetown, Mooney Jon Wendell 17 Georgetown H.S. 205 E. North St. 45121
A Solid Waste Classification System Based Around the Air Classifier

Parma Heights, Munch Michael Scott 17 Valley Forge H.S. 11187 Blossom Ave. 44130
Viscosimetric Properties of Polymer Resins in Dilute Solutions

Rocky River, Potokski Cynthia Lee 17 Magnifico H.S. 4215 Akron Ave., Cleveland
Optical Rotatory Dispersion Spectrophotometry

Shaker Heights, Black Keith Lanier 17 Shaker Heights Sr. H.S. 23403 McCall St. 44120
Transformation Induced by Extracerebral Cardiopulmonary Bypass During Open Heart Surgery

Sidney, Guschting David Walter 18 Lehman H.S. R.R. 1 45365
Flat Plate Collector of Solar Energy

SOLON
Nilsson, Jack 17 Solon H.S. 6848 Green Ridge Ave. 44135
Differential and Integration of a Four-Dimensional System
Hayden, Cynthia Louise 17 Catholic Central H.S. 806 Buena Vista Blvd.
Calcium Oxalate Crystals

Toledo, Maris, Lisa Jane 17 McCollay H.S. 3604 Beverly Dr. 43614
Effects of Specific Stimulants-Hormonal Miter Figurate on the Mortality and Morality of Aedes vexans
Athens, George Calvin, Jr. 17 St. John's H.S. 3303 Buckeye St. 43403
The Study of the Metabolism of 5-Hydroxytryptamine in Male Mice East, Thomas Delbert IV 18 St. John's H.S. 5041 Gillingham, Sylvania
The Use of Gallium Arsenide Lasers in Pulse Cephalometry and Time Division Multiplication
Moysehan, Humphrey Joseph 17 St. John's H.S. 3961 Woodhurst Dr. 43614
Comparison of An Optical Geoniometer and a Geoniometer Incorporating a Laser
Stoffregen, Jayne Elin 18 St. Ursula Academy 916 W. Wayne St., Maumee
Effects of Sodium Salicylate, Serpasil Aprezone, Cefalolin-D and Lanoxin on the Chromosomes of Human Lymphocytes in Vitro

Oklahoma
Oklahoma City, Nuckolls, Charles William 18 Heritage Hall School 5420 N.W. Grand Blvd.
Quantitation of Porphyrins, Phosphate, and Adenosine Triphosphate in Tissue Mouse Fibroblasts as a Function of Cell Density
Ponca City, Behar, Kevin Lee 17 Ponca City Sr. H.S. 117 May Ave., R.R. 6 74601
Investigation of the Contractile Response of S. scuritvus Through the Effects of ACh and ULP Impulses on Membrane Permeability
Seminole, Cummings, Sharon Kay 17 Seminole H.S. P.O. Box 1625 74685
The Isolation, Immunemunochromic, and Chemical Characterizations of the Lipoprotein Fractions

Oregon
Beaverton, Slife Gary Arthur 18 Buxton H.S. 11955 S.W. Lanewood, Portland 97225
LENSES: A Program to Aid in Optical Design
Bend, Bailey Kirk Alan 17 Bend Sr. H.S. P.O. Box 3187, Sun River 97751
Design and Construction of an Analog Speech Bandwidth Compression System
Salem, Batten Bruce Loyd 16 Curves A. Sprague H.S. 1060 Laurel Ave. S. 97302
Study of the Robertson Formation, Grant County, Oregon

Pennsylvania
Allentown, Schaefer, Jane Marie 17 Central Catholic H.S. 2510 Gordon St. 18104
Qualitative and Microscopical Aspects of Freezing Foods
Armdale, Sanders, Charlene Carol 11 Lower Merion H.S. 420 Hidden River Rd.
Sleep-Learning vs Day-Learning
Shallit, Jeffrey Osvald 17 Lower Merion H.S. 619 Greybourne Rd.
The Use of Algae as Indicators of Environmental Variables
Devin, Gowan, Patrick William 17 Devon Preparatory School 39 Greenlaw Rd.
An Investigation of the RHonucleases of Triticum periphrasms
Dubois Hill, David Reed 17 Dallas Area H.S. 215 Hillcrest Dr. 19801
Identification of Striped Bass Races by Analysis of the Cephalic Spine on the Scales
Ebensburg, Furing, Michael James 17 Bishop Carroll H.S. College Heights, Loretto
Precipice Sedimentary History of Fostil Pond
Conemaugh Island, Rachel Island
Hazelton
Ballard, Marvin Joseph 17 Bishop Basley H.S. 516 Winters Ave., West
The Lascher Color Test, is It Valid? Hazelton 18201

Liitzy
Busch, Richard Monroe 17 Warwick Sr. H.S. 908 W. Marion St. 17543
Ochotanche curinus: A New Dallmantis from the Ordovician Formation of Central Pennsylvania

Neilliey
Leinwaite, David Todd 17 Manheim Twp. H.S. 48 Peach Lane, Lancaster
Spectrophotometric Determination of the Temperatures
17601
Effect on the Rate of Reaction in the Oxidation of I-Propanol and Isopropanol by Chronic Acid

RHODE ISLAND
Cranston
Bloom, Paul Michael 17 Cranston H.S. East 111 Roger Williams Cir. 02905
Correspondence Between First Heart Bound Vibrations and the Rise of the Carotid Pulse Tracing

Newport
Street, Harold Francis 11 Roger Williams H.S. 450 Broadway 02840
Factors Affecting the Emission of Codium fragile

SOUTH CAROLINA
Greenville
Walker, Mark Stephen 17 Bob Jones Academy 208 Melbourne Lane 29607
End of Carbon Monoxide Pollution From Automobile Exhaust

Spartanburg
Chap, Manoj Vratajal 16 Spartanburg H.S. 180 S. Pine St. 29302
Water Globsules That Float on Water

TENNESSEE
Waverly
Dansmore, Teresa June 17 Waverly Central H.S. 134 Circle Dr. 37185
The Rates of Kistel Examination Days of Three Enzymes
In Myocardial Infarctions

Edwards, Richard Everett, Jr. 17 Waverly Central H.S. 107 Wilton Way
Effects of an Electroelectric Field on the Temperature of a Hestated Host

Rawlings, Celia Lu Rae 17 Waverly Central H.S. Box 50, Rt. 1, Hurricane
Effect of Anaplasmosis on the Production of Vanilmandelic Acid

Taylor, Terry Milton 18 Waverly Central H.S. Rt. 1, Box 59, Denver 37054
Development of a Model NMR Generator and Effects of Electrostatic Fields on its Performance

TEXAS
Fort Worth
Lynch, Colleen Teresa 17 Western Hills H.S. R. R. 1, Box 174, Aledo 76008
Production of Petroleum Products From Oil Shale

Houston
Fausye, Michael Thomas 17 Memorial Sr. H.S. 8808 Chatworth 77024
Mutagenic Effects of Activated 2-AAF

Glaser, Thomas Mark 17 Memorial Sr. H.S. 12011 Homewood Lane 77024
Effect of the Temperature on the Growth and Viability of Escherichia coli

Port Neches
Young, Vicki Elizabeth 17 Port Neches-Groves H.S. 5326 Capital, Groves
Cardiac Serum Protein Values Established on the 77319

San Antonio
Doned, Henry Cline 17 Keystone School 204 Ridgeway 78209
Derivation of New Derivative Formulas for Rational Functions

Kruoglauer, James Glenn 17 Keystone School 10715 Lost Hillton Lane 78230
Effects of a Magnetic Field Upon Chromosome Aberrations in Drosophila

Meining, Richard Paul 17 Keystone School Rt. 1, Box 70, Meman 78124
Gas Chromatography-Mass Spectrometry Analysis

Schulenburg
Deterling, Keith Alan 17 Schuylkill H.S. 204 South St. 78996
Transfuents After Saturation With Oxygen and Carbon Monoxide

Vertical Gradient of Gravity in a Tall Building

UTAH
Zayton
Robinson, Dennis Eugene 17 Layton H.S. 5388A Yorktown, Hill A.F. Base
p2 Levels of Whole Blood and Fluorescein-Polygla

Salt Lake City
Grey, Goathard Carson 17 Olympus H.S. 1787 S. Woodside Dr. 84117
Aerodynamics and Geometry of Rocket Nozzles

VIRGINIA
Abingdon
Mattson, Tom Best 17 Abingdon H.S. Route 7 24210
Study of Behavior and Circulation in Lithothamnion floricus

Arlington
Schwede, Monica Aastrid 18 Washington-Lee H.S. 2518 N. Quincy St. 22207
Air Pollutants and Mortality in Washington, D.C.

Baldwin, Robert William 17 Yorktown H.S. 5412 N. 26th St. 22207
Variations on The Tower of Hanoi

Hale, Robert Alan 17 Yorktown H.S. 2621 N. Lexington St. 22207
Impact of Urbanization on the Climate of the Washington, D.C. Area

Ashland
Clay, Hollis Anne 17 Patrick Henry H.S. 130 Hanover Ave. 23005
Development of Marula vesicae Gametophyte and Sporephore in Concentrations of Lithium Carbonate

Bristol
Johnson, Ivy Joy 17 Liberty H.S. 533 Baltimore Ave. 24523
Search for New Substances for the Identification of Blood Antigens

Parker, Dennis William 17 John S. Battle H.S. Rt. 1, Parkwood Estates Genetic Effect of Zinc, Sevin, and Piano

Fairfax
Thomas, Juli William, Jr. 17 W.T. Woodson H.S. 3701 Prince William Dr.
Oxidation of Hydrogen Chloride by Potassium Permanganate 22030

Floyd
Tolbert, Ann Ray 17 Floyd County H.S. Route 24091
Monarch Butterflies

Henrico
Gordon, Glen Shalag 17 Henrico H.S. 1448 Aldenham Lane, Reston 22090
Changes in Ecologies as Exhibited by Solar Mass

McLean
Thompson, Valerie Lynn 17 McLean H.S. 1807 Great Falls St. 22101
Converting the Ecological Balance of Coastal North Carolina

Middleton
Parcien, Kevin Douglas 18 Midlothian H.S. 11630 Edenderry Dr., Richmond
Synthesis of Dimethylaminomethylcarbinol Using Gas Chromatography and Mass Spectrometry

Portsmouth
Laguer, Kathrin Jan 17 Chilhowie H.S. 4105 Manor Ave. 23703
Effect of Rainfall on the Biological Clock and its Effect on Human Mental Efficiency

Springfield
Sueur, Terrance Lee 17 West Springfield H.S. 6127 Bardu Ave. 22152
Effect of Metal Ions on the Kinetics of the Enzyme Acrel Cholinesterase

Williamsburg
Quintmeier, Peter Charles 17 Walsingham Academy 210 Kingswood Dr.
Experimental Analysis of Hemoglobin Disorders 23185

WASHINGTON
Bellevue
Gretjahn, Douglas Bryan 17 Bellevue Sr. H.S. 3442 82 Ave. N.E. 98004
Relationship Between a Sunspot's Distance From the Solar Equator and the Rotation Period Involved

Des Moines
Chaffee, Thomas Morris 17 Mt. Rainier H.S. 20040 4 Ave., S.W., Seattle
An Investigation into the Structure and Composition of Copper Sulfate

Clement, Robin Kim 18 M. Rainier H.S. 1605 S. 208th, Seattle 98188
Investigation of Composition and Structure of Potassium Sulfate

Lacey
Hows, Gary Alan 18 Timberline H.S. Rt. 12, Box 501, Olympia 98503
Bacterial Resistance to Antibiotics: A Study Through the Use of Penicillin Detection in Milk

Renton
Stewart, Brent Kevin 17 Monroe H.S. 1050 Shelton Ave., N.E. 98055
Determination of the Electron's Cross Section Using Photoelectric and Scattering Principles

Riceland
Cleveland, Robert Mark 17 Stanwood H.S. 402 Sierra 98252
Digital Simulation of River Plankton Population Dynamics

Spokane
Sidow, William Karl 17 Joel E. Ferris H.S., Pullman
Thyroid and Propylthiouracil Induced Cardiac Alterations in the Dog

Barne, David Russell 18 Lewis and Clark H.S. S. 1303 Adams St. 99204
Barbechocanin and Cardiac Arrhythmias: A Possible Mg2+- Link?

Mottler, Frederick Clark 18 Washington H.S. 310 Tule Lake Rd., 98444
Construction of a Small Digital Computer System
<table>
<thead>
<tr>
<th>Location</th>
<th>Student Name</th>
<th>School Name</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
<th>Project Title</th>
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</thead>
<tbody>
<tr>
<td>Walla Walla</td>
<td>Baim, Michael Allen</td>
<td>Walla Walla H.S.</td>
<td>1604 Howard St.</td>
<td>New Berlin</td>
<td>53151</td>
<td></td>
<td>Proposed System for Containing Oil Spills With Polymer Foam</td>
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<td>Brookfield</td>
<td>Herdeman, James Robert</td>
<td>Brookfield Central H.S.</td>
<td>12908 W. Graham St., New Berlin</td>
<td>53151</td>
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<td>Functional Responses of Solar Cells in Respect to the Angle of Incidence and Illumination</td>
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<td>Greendale</td>
<td>Damiani, Stephen Mario</td>
<td>Greendale H.S.</td>
<td>5907 Dawson Ct.</td>
<td>53129</td>
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<td>Selected Mexican and Mexican Motif Parallel</td>
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<td>Wausau</td>
<td>Erdmann, Debra Sue</td>
<td>Wausau West H.S.</td>
<td>1401 Cherry St.</td>
<td>54401</td>
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<td></td>
<td>Effects of Silt on Kaneoheponi</td>
</tr>
<tr>
<td>Wauwatosa</td>
<td>Sommerer, John Curtis</td>
<td>Wauwatosa West H.S.</td>
<td>545 N. 114 St.</td>
<td>53226</td>
<td></td>
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<td>Mapping the Color Sensitivity of the Human Eye</td>
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<td>Cheyenne</td>
<td>Lowe, Thomas Allen</td>
<td>Cheyenne Central H.S.</td>
<td>720 Pike St.</td>
<td>82001</td>
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<td></td>
<td>Method for Identifying Limestone Rocks by Comparing Densities</td>
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</tbody>
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Washington Trip Winners
of the
Thirty-fourth Annual Science Talent Search®
for the Westinghouse Science Scholarships and Awards

The forty Washington trip winners of the 34th Annual Science Talent Search, among whom $67,500 of Westinghouse Science Scholarships and Awards will be distributed, represent about 7.8% of those who completed entries in this scientific and educational competition.

Designed to discover and develop scientific and engineering ability among high school seniors, the Science Talent Search is conducted annually for the Westinghouse Science Scholarships and Awards by Science Service, 1719 N Street, N.W., Washington, DC 20036.

Ten girls and 30 boys are being invited to Washington, DC, for an all-expense paid trip February 26 through March 3, 1976, 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 $5,000 ($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 15 to 18 years of age and come from 35 cities in 19 states. They were picked by the judges from among 14,521 contestants of whom 1,118 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.
Washington Trip Winners

HOME ADDRESS follows name of school
AGE of winner follows name

CALIFORNIA

Alhambra
Fang, Meiling Laura 17 Alhambra H.S. 1401 Stonewell St., Monterey Park 91754

La Jolla
Marchak, Daniel Robert 17 La Jolla H.S. 430 Retheim Way 92037

San Jose
Craig, Julia Ann 17 Leigh H.S. 15320 Blossom Hill Rd., Los Gatos 95030

Santa Barbara
Kikuchi, Derrick Thomas 16 San Marcos H.S. 3742 Brenner Dr. 93105

Santa Monica
Nagano, Christopher Dike 18 Santa Monica H.S. 931 Centinela Ave. 90403

FLORIDA

Cocoa
Pillas, Lorraine Alice 17 Cocoa H.S. 1046 Bellefonte Dr. 32922

Coral Gables
Abe, Kathy Reese 17 Coral Gables Sr. H.S. 1290 Mariposa Ct. 33134

Tallahassee
Foch, Richard James 17 Aucott H.S. 270 S. Christmas Hills Rd. 32380

GEORGIA

Griffin
McKemie, Charles Edward 17 Griffin H.S. 1113 Zebulon Rd. 30223

HAWAII

Alea
Ching, Wendell Yuk Wing 17 Alea H.S. 99-1242 Napuanani Rd. 96701

Honolulu
Zeitlin, Scott Clof 17 Kalani H.S. 5418 Opihi St. 96821

ILLINOIS

Skokie
Dubin, Joel Ira 18 Niles Twp. West H.S. 5327 W. Crain St. 60076
Khrasch, Evan David 17 Niles Twp. West H.S. 7043 N. Keeler Ave., Lincolnwood 60646

St. Louis
Louisana
Lutcher
Brignac, Donald Veron 17 Lutcher H.S. 933 Second St. 70071
New Orleans
Sanderford, H. Britton 17 St John Vianney Preparatory School 221 Beverly Dr., Metairie 70001

MARYLAND

Silver Spring
Marans, Jon Stephen 17 Springbrook H.S. 12120 Kerwood Rd. 20904

MASSACHUSETTS

Andover
Marano, Anthony Rosario 17 Phillips Academy 1628 N. Parkway Ave., Andover, MA 01810

Holden
Howard, Christopher Geurin 17 Wachusett Reg. H.S. Box 111, North Holden 01522

Taunton
Rounds, Joyce Diane 17 Taunton H.S. 235 Alfred Lord Blvd. 02780

MICHIGAN

Detroit
Gover, Keith Bowen 17 Redford Union H.S. 15580 Meadowbrook 48239

MISSOURI

Palmyra
Logan, Julie Ann 17 Palmyra H.S. R.R. 1, Taylor 63471

NEW JERSEY

Ridgewood
Geller, Alan Stuart 16 Ridgewood H.S. 19 Garfield Pl. 07450

NEW YORK

Bayside
Heller, Howard Hamilton 16 Benjamin N. Cardozo H.S. 50-08 232 St., Bayside 11364

Brooklyn
Jacobson, Barry Allen 17 Benjamin N. Cardozo H.S. 46-20 216 St. 11361

Dix Hills
Lander, Arthur Douglas 16 John Dewey H.S. 926 E. 55 St. 11224

Huntington
Aupperle, Kenneth Robert 17 Half Hollow Hills H.S. 24 Arrowwood Lane, Melville 11746

Sakson, Stephanie Lee 17 John Glenn H.S. 51 Arkansas Ave., East Northport 11731