HONORS GROUP

IN

THE 26th ANNUAL

Science Talent Search

for the

Westinghouse Science Scholarships

and Awards

1967

FILE COPY

SCIENCE CLUBS OF AMERICA

Administered By Science Service

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

Hawaii: Inter-Society Science Education Council and Hawaiian Academy of Science
Edwin Y. H. Chinn, Program Spec., Science, State Dept. of Education, Box 2300,
Honolulu 96804

Idaho: Idaho Academy of Science
Richard Kay, Supvr., Science and Mathematics, State Dept. of Education, Statehouse,
Boise 83701

Illinois: Illinois Academy of Science
Dr. Charles K. Hunt, Chemistry Dept., University of Illinois, Chicago 60680

Indiana: Indiana Academy of Science
Virgil R. Tims, Coord. for School Science, Indiana University, Bloomington 47401

Iowa: Iowa Academy of Science
Dr. Joe D. Woods, Dept. of Chemistry, Drake University, Des Moines 50311

Kansas: Kansas Academy of Sciences
Dr. S. Winston Crum, Physical Sciences Div., Kansas State Teachers College, Emporia

Kentucky: Kentucky Academy of Science
68802

Louisiana: University of Western Louisiana
Dr. James R. Oliver, Dean, Graduate School, University of Western Louisiana, Lafayette 70503

Maine: Society of Sigma Xi and University of Maine
Dr. George T. Davis, Dept. of Education, University of Maine, Orono 04473

Maryland: Maryland Academy of Sciences
Nigel O'Con, Wolf, Dir., Maryland Academy of Sciences, 9 W. Mulberry St., Baltimore

Michigan: Michigan Junior Academy of Sciences, Arts and Letters
21201

Dr. C. L. Scholener, Dept. of Natural Science, E 186 Holmes Hall, Michigan State
University, East Lansing 48824

Minnesota: Minnesota Academy of Science
Dr. Arthur F. Nelson, Dept. of Chemistry, St. Cloud State College, St. Cloud 56301

Mississippi: Mississippi Academy of Sciences, Inc.
Dr. Clyde G. Sheely, Chemistry Dept., Box 574, Mississippi State University, State
College 39762

Missouri: Missouri Science Talent Search
Joseph W. Goerner, Dept. of Chemistry, School of the Ozarks, Point Lookout 65726

Montana: Montana State College
Dr. Adrien L. Hean, Mathematics Dept., Montana State University, Bozeman 59715

Nebraska: Nebraska Academy of Sciences, Inc.
Dr. James A. Rutledge, Dept. of Secondary Education, University of Nebraska, Lincoln

New Hampshire: Northern New England Academy of Science
Dr. R. L. Bickie, Dept. of Entomology, University of New Hampshire, Durham 03824

New Mexico: Eastern New Mexico University
Dr. William D. Pitt, Dept. of Geology, Eastern New Mexico University, Portales 88130

North Carolina: North Carolina Academy of Science
Dr. Herbert Speece, Math and Science Education Dept., North Carolina State University,
Raleigh 27607

North Dakota: North Dakota Academy of Science
Dr. Fred H. Sands, Dept. of Chemistry, North Dakota State University, Fargo 58102

Oklahoma: Oklahoma Science Talent Search
Robert Fite, Arts and Science Extension, Oklahoma State University, Stillwater 74074

Oregon: Oregon Museum of Science and Industry
Dr. Raymond K. Barrett, Educ. Dir., Oregon Museum of Science and Industry,
4015 S.W. Canyon Blvd., Portland 97221

Pennsylvania: Pennsylvania Academy of Science
Dr. William A. Urcie of, Dept. of Biology, Mouni Mercy College, Pittsburgh 15213

Rhode Island: Rhode Island Schools' Science Fair Committee
George W. Gallipaux, Jr., Barrington High School, Barrington 02806

South Carolina: South Carolina Academy of Science
Charles F. Jumper, Dept. of Chemistry, The Citadel, Charleston 29409

South Dakota: South Dakota State College
Dr. Elmer R. Johnson, Dept. of Chemistry, South Dakota State University, Brookings

Tennessee: Tennessee Academy of Science
James L. Major, Clarksville High School, Clarksville 37040

Texas: Texas State Science Talent Search
Dr. Robert W. Higgins, Chemistry Dept., Texas Woman's University, Denton 76204

Utah: Utah Junior Academy of Sciences, Arts and Letters and Utah State Science Talent Search
Dr. Edward B. Peterson, State Supvr. of Sci. Educ., 138 East South Temple, Salt Lake City

Virginia: Virginia Academy of Science
Edgar V. Russell, Jr., Dept. of Chemistry, Virginia Polytechnic Institute, Blacksburg

Washington: Washington State Science Talent Search Committee
Dr. Hugh W. Johnston, Chemistry Dept., Whitworth College, Spokane 99201

West Virginia: West Virginia Academy of Science
Wm. H. Gillespie, Instructor, West Virginia University, Morgantown 26506

Wyoming: (See Colorado-Wyoming)
The Meaning of Honors in the Science Talent Search

The achieving of Honors in the Science Talent Search, earned by approximately 10% of those who compete annually in the Science Talent Search, is an evidence of scientific ability and interest which can be taken into account 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 record in the colleges and universities to which they have been admitted.

From the list of 300 honor awards, 40 are being chosen as winners of the Washington trip. Among these $34, $25 in scholarships and $65 will be distributed to all universities and colleges of the United States utilizing a list furnished by the American Council on Education.

Each of those winning honors is being furnished with multiple certificates intended to accompany applications for college admittance to the schools. 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 83 girls and 117 boys. The girls determine their own chances in the Science Talent Search in accordance with the number that enter. Of the Honors Group, 76% of the boys and 89% of the girls rank in the upper 5% of their high school classes.

The Annual Science Talent Search

The Science Talent Search was the pioneering endeavor to discover at the senior high school year level those who have the potentialities to become the scientific leaders 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, supporting 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 the "pure research" of importance equal to the fundamental researches made in the Westinghouse Laboratories. Science and education are grateful for the financial support of the twenty-five 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 newspaper men, educators and scientists of America there has been enthusiastic cooperation in this annual activity that means so much to nearly 50 high school seniors interested in science. The Science Talent Search is a continuing opportunity and responsibility of the more than 28,000 science groups and more than 750,000 members affiliated with Science Clubs of America.

FOR RELEASE: WEDNESDAY AFTERNOON, JANUARY 25, 1967

Honors Group
in the Twenty-sixth Annual Science Talent Search

- indicates girl
H. S. indicates High School
AGE of winner follows name
Title of project report submitted is on next line

ALABAMA

Decatur
Franks, Jerry Don 18 Decatur H.S. 1508 Buena Vista Cir., S.W. 35601
Obtaining the Clinical Picture of a Laboratory Strain of Mice With a Hereditary Retinitis Pigmentosa

Huntsville
Leigh, Harold Walter 18 S. R. Butler H.S. 802 Brickett Rd. 35803
Analysis of Factors Affecting Energy Transfer Efficiency in an Expanding Bridge System

ARIZONA

Phoenix
- Chavolla, David Joe 17 Altamira H.S. 3543 W. Campbell Ave. 85019
Study of Aedisotropic Mutants and Amino Acid Synthesis in Eshcherichia coli

Clu, Ronald 17 West Phoenix H.S. 935 W. Avalon 85013
Quantitative Investigation of the Hydrogenation of Benzene Using an Electrical Corona as a Catalyst

Issina, Sam Frank 17 West Phoenix H.S. 918 W. Pecotit Rd. 85013
Search for Living Air Pollutants

*Marlin, Deborah Frances 17 Xavier H.S. 323 W. Flynn Lane 85013

TUCSON

Hosch, Richard Alan 17 Catalina H.S. 2402 E. Laster 85719
Influence of Lieben Extracts on Plant Structure and Growth

Leavitt, Mark Keith 17 Tucson H.S. 1722 E. 7th St. 85719
Development and Analysis of a Directional Antenna System

*McDonald, Lee Hunt 18 Tucson H.S. 3461 E. 3rd St. 85716
Photographic Study of Variables Stars

Yuma
Jackson, Philip Halton, Jr. 17 Yuma H.S. 1215 9th Ave. 85344
Approach to the Four Colour Problem

ARKANSAS

Little Rock
- Whitfield, Edward Leroy 17 Central H.S. 2114 Rings St., 72206
Transformations of a Line in a Plane

CALIFORNIA

Anaheim
Carlson, Robert Martin 17 La Mirada H.S. 1711 Nida Ave. 92804
Determination of the Mechanism by Which Sea Anemones Concentrate Hydrochloric Acid

Atherton
Lutsberger, Jeffery Bruce 17 Menlo-Atherton H.S. 254 Oak Grove Ave. 94025
Mushroom-Chlorophyll Studies in Mice

Robertson, James McJannet 16 Menlo-Atherton H.S. 5 Randall Pl.
Determination of 1.721 Mev Gamma Ray Absorption Coefficient of Au and C12 13

*Rowe, Lindsay Jo 17 Menlo-Atherton H.S. 1020 Del Norte Ave., Menlo Park 94025
Drug Modification of Photob RedirectTo

Berkeley
*Keene, Mary Monica 17 Presentation H.S. 144 York Ave. 94708
Anesthesia in Two Species of Inbred Mice

*Keith, Mary Monica 17 Presentation H.S. 144 York Ave. 94708
Effects of Environmental Red Lighting on Sexual Activity in Male Mice

*Miller, Elwood Martin 17 Presentation H.S. 724 San Luis Rd. 94707
Development and Analysis of a Directional Antenna System

Beverly Hills
Cooper, James Ray, Jr. 17 Beverly Hills H.S. 90212
Incorporation of the Proximity-Prey Relationship Between Gambusia affinis, the Mosquito, and the Mosquito, the Chain-Pickerel

* indicates girl
HOME ADDRESS is underlined
H. S. indicates High School
AGE of winner follows name
Title of project report submitted is on next line
Fisher, Robert Scott 17 Nova H.S. 5353 S.W. 3rd Ct. 33314
Forte, G.S. 2050 W. 8th St. 33726

Lauderdale
Birch, Robert L. S. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Miami
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Miami Beach
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

North Miami
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

South Beach
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Orlando
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Palm Bay
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Palm Beach
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Pacific City
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Tallahassee
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Winter Park
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Wiske, Ronald 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

**Florida**

*Schwartz, Eugene Louise 17 Woodrow Wilson H.S. 2611 Moreland Pk. Musical Scales: Their Formation and Use N.W. 20015

Weinman, Daniel Philip 17 Woodrow Wilson H.S. 2923 McKinley St. N.W. **The “L” Series** 20015

**FLORIDA**

Fort Lauderdale
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Jacksonville
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Melbourne
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Orlando
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Palm Bay
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Palm Beach
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Tallahassee
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

Winter Park
Braithwaite, Warren H. 17 Nova H.S. 5353 S.W. 3rd Ct. 33314

**GEORGIA**

*Garrard, Jack Eugene Jr. 18 Henry Grady H.S. 796 Amsterdam How Do Amiss Affec...* 30306

*Ascher, N.E. 30306

*Hopkins, Leonard W. 17 Columbia H.S. 419 W. 15th St. 30306

*Adams, W. C. 30306

*Collins, E.M. 30306

*Brooks, W. E. 30306

*Johnson, E.M. 30306

*Campbell, W. E. 30306

*Graves, W. E. 30306

*Kirkland, W. E. 30306

*McKee, W. E. 30306

*Paulson, W. E. 30306

*Ray, W. E. 30306

*Smith, W. E. 30306

*Stewart, W. E. 30306

*Taylor, W. E. 30306

*Wright, W. E. 30306

*Wood, W. E. 30306

**HAWAII**

*Hong, Carol Lee 17 Kalani I.S. 1588 Kamoku St. 96821

*Effect of Photoperiod, Temperature and Salinity on the Metabolism of Leucadendron debile (DNA) 20015

**IDAHO**

*Boise, Tim Patrick 16 Capital H.S. 8323 S. 15th St. 83702

*Inhibitory Effects of Salpichrome on Bacteria 20015

**ILLINOIS**

*Redmane, George 15 Lane Technical H.S. 3306 W. Crystal 60651

*Sulfin Requirements of Chlorella 20015

*Leone, Roberta 17 Lake View H.S. 1642 N. Buford 60651

*Photoreduction of Freshwater Dihydroxylation 20015

*Yavapai, George 15 Lane Technical H.S. 3306 W. Crystal 60651

*New Definitions for Alternate Relations 20015
Elgin
Ashley, Richard Arthur 16 Evanston Twp. H.S. 1724 Osborn 60202
Homologous Series in Dynamic
Rearranged Formulae

Evanson
Drake, Kenneth Franklin, Jr. 17 Evanston Twp. H.S. 2396 Harrison St.
Solvatochromic Effects in Polymers of the "Cubic" Antenna

Evanson
Dew, David Alan 17 Evanston Twp. H.S. 815 Ridge Toc.
An Investigation of the Mechanism of Reaction of 2-Iodoacetate and Iodoacetate

Evanson
Reed, Brian Philip 17 Mette H.S. 7102 W. Kelso St. 60204
Effects of Chlorophoresin and L-Histidinase on Euglena and Tetrahymena

Evanson
Miller, Julie Ann 16 Oak Park River Forest H.S. 823 Woodbine 60002
Survival Rate of Thioridone on Algal Nutriton

Evanson
Binder, Steven Ross 17 Niles Twp. H.S. North 3373 22nd Ave.
Preparation of Bidentate Surface Complexes of the Type M(II) Complexes

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An Algorithm for Determining Relaxed Polynomials

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Weiss, Alan Louis 16 Niles Twp. H.S. North 5806 N. Kenyon Ave.
Recombination in the RNA Bacteriophage, MS-2

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Ko, Carol Sharon 17 Niles Twp. H.S. West 4046 Columbia Ave.
Time of Birth by Parabolic Curve Fitting

Evanson
Spillman, William Morgan 16 Niles Twp. H.S. West 7016 N. Kenton Ave.
Particles in a Cloud Chamber With a Helmholtz Coil

Evanson
Johnson, Gary 16 Horace Mann H.S. 200 Taft St. 60644
Programming a Three-Bit Digital Computer and Its Application to Digital Control

Evanson
Dawson, Dennis Wade 18 Olive M. H. T. H.S. 3233 137th St. 60633
Evolutionary Mechanisms in the Contact Binary SS Cygni

Evanson
Guzmán, Charles Peter 17 Olive M. H. T. H.S. 8818 Maryland Ave. 46323
Atomic Radius Determination by Proton Precession

Marshalltown
Halverson, Valerie Sue 17 Marshalltown Sr. H.S. 206 S. 8th St. 50158
Antiviral Agent (ASA) Produced Against Tobacco Mosaic Virus (TMV) by Animal Host

Newton
Byth, Christine Marie 17 Newton H.S. 1013 S. 14th Ave. 62308
Effects of Crowding on Two Inbred Strains of Mice

Waterloo
Preston, Jeremy Thomas 17 East H.S. 43 Franklin, 50703
Analytical Techniques of the First 2 Interferes in the Power of

Wichita
Wier, Stuart Kirkland 17 Southeast H.S. 1459 Willow Lake 67208
Mechanics of Sand Dome Formation

Kentucky
Stark, Deborah Leigh 18 Marine S. Wagenker H.S. 10490 Foxboro Dr., Anchorage, 40223

Louisiana
Lafayette
Juliet, Edith Elizabeth 17 Mount Carmel H.S. 1250 Louise, 70501
Inhibitors of the Maturase (II) - Polynucleotide Phosphotransferase

New Orleans
Jackson, Joan Laura 17 Benjamin Franklin H.S. 4831 Magazine St., Changes in Stable Carbohydrates in the White Clover Seedling

Maryland
Baltimore
Felser, Gary Jay 17 Pikeville Sr. H.S. 7502 Lisburn Rd. 21206
A Microscopic Simulation of X-ray Diffraction

Bethesda
Weise, Theodor B. 17 Bethesda-Chevy Chase H.S. 5510 Upsala, Extension of Operations

Silver Spring
Lagarias, Jeffrey C. 17 Brookland Park H.S. 3003 Smith Mill Rd., 20904
An Investigation of the Terms of the Fibonacci Series

Massachusetts
Bolton
Arpil, Ronald 17 Nashoba Reg. H.S. 12549 Main St., Shelbyville, 40404

Boston
Baro, Robert Victor 17 Boston Latin H.S. 10 Washington Rd. 2036
Computer Techniques Applied to the Processing of Metallographic Data to Produce Simplified Graphical Results

Braintree
Frey, Janet Teresa 17 Archbishop Williams H.S. 15 Minuteman Ln., W. Quincy, 02366
Decay of the Interfered Intensities

Holden
Effects of Carbohydrates on the Growth of Penicillin Mould

Natick
Tires, John Karl 17 Natick H.S. 17 Main Ave., 01760
Variables Affecting Laminar Stream Stability

New Britain
Harrington, Andrew Neal 17 New Britain H.S. 34 Emerson Rd., 01722

Newport
Elwood, Leonard Peter 17 Newport H.S. 17 South St., Newport
Effects of Stress on the Course of Enzyme Kinetics and Its Application to the Processing of Metallographic Data to Produce Simplified Graphical Results

New Bedford
Reverence
Cecil, Joseph Carl 17 Revere H.S. 300 Main St., 02151
Growth Kinetics and Biophysical Adaptability of Two Photosynthetic Bacteria, Rhodopseudomonas rubrum and Rhodopseudomonas sphaeroides

Sharon
Prouse, Joyce Ann 17 Sharon H.S. 100 Bullard St., 02067
Gas Chromatographic Analysis

Windsor
Strickland, Leonard 17 St. Joseph H.S. 10 Madison Ave., 02607
Enzymic Hydrolysis of the Fibrinolytic Proteins with Alpha and Beta Chain Activation

Iowa
Thissen, David Michael 17 Iowav H.S. 318 7th Ave., 50501
Study of Calcium Isotope Diode

Le Mars
Bryant, Richard Lee 17 Le Mars Community H.S. R.R. 1, Akron, 51001
Theory of Energy Release in Solar Flares

- 7 -
Springfield
Karez, Anita Marie 17 Cathedral H.S. 80 Boulay Cir., Fairview 01044
Emotional Maturity and Prejudice in Adolescents

"Phelan, Elizabeth Margaret 17 Cathedral H.S. 377 Dwight Rd., 01108 Incidence, Characteristics, and Indemnity of Dermo-Optical Perception

Elloghoud, George Miltiades 17 Technical H.S. 17 Beaman Tert., 01108 Possible Role of Anosia in Chemoporphyaxis
Against Ignoring Radiation

Westwood
*Frittsch, Jene Frances 17 Westwood H.S. 71 Mayfair Dr., 08000
Study of Fluid Viscosity Using an Air Bubble Method

MICHIGAN
Ann Arbor
Copsey, James Dorr 17 Ann Arbor H.S. 2109 Coopler, 48104
Ion Propulsion

Donabedian, Hal 17 Ann Arbor H.S. 1739 Irvingwood Dr., 48104
Osmo-Regulation, Oxygen Consumption, and Weight Fluctuations in Cuttlefish

Kummer, Frederic Joseph 17 Ann Arbor H.S. 3029 Vineyard Dr., 48104
The N-dimensional Quadratic Triangle

Radon, Leon Berk 16 Ann Arbor H.S. 2544 Tecumseh, 48104
Mathematical Analysis of the Shape of Galaxies

Yonca, Robert Rogers 17 Ann Arbor H.S. 2080 Newport Rd., 48103
Determining the Muzzle Velocity of an Air Rifle and Finding Its Relation to the Chamber Pressure

Birmingham
Mercure, Peter Kip 17 W. R. Groves H.S. 30051 Bremwood, Southfield
Determination and Analysis in Gas Chromatography 48075

Myers, Stephen Lee 18 W. R. Groves H.S. 6790 East Dartmoor, 48010
Heat Tolerance in Drosophila

Detroit
Florkowski, David Robert 17 Cass Technical H.S. 8051 Chatham, 48223
Changes in Shape of the Lunitarian of 185243 R. Lyrae

Buckingham, James Allan 17 Redford H.S. 15741 Beaverville, 48223
Effects on Unborn Mice of Cigarette Smoke Administered to Their Mothers

Kalamazoo
Limoge, Robert Frank 18 Kalamazoo Central H.S. 1307 Warren Pl., A Computer-Designed Microlaser Optical System 49007

MINNESOTA
Duluth
Liefeld, David Ronald 17 Duluth H.S. 111 1st Ave., S.E., 55812
Characterization of the Bis-(5-Chloro-2-Hydroxyphenyl)-Methane and Its Components

St. Paul
*Virbueno, Martha Helen 17 Alexander Ramsey Sr. H.S. 1787 Shyriver Synthesis of Sucrose by Formaldehyde and Acetone, W., 55112
Polymerization of Oligosaccharides

MISSISSIPPI
Pensacola
Griffith, James Lamont 16 Pensacola H.S. Rt. 2, Box 74, 32574
DNA - Ladder of Life

KANSAS CITY
Sims, Fred William 17 Southwest H.S. 6437 Morningside Dr., 64113
Loss of the Antiparous Activity of Decoxygenate Hormone

Lancaster
*Kerby, Frank Cee 17 Shuyter R-1 H.S. 63541 Development of White Shorthorn Hereditary Genetics

Roxwood
Lilley, Lyle Edward 17 Roxwood H.S. 304 Sycamore Rd., 66302
Atmospheric Electricity: Its Relation to Rain Drops

OMAHA
Standler, Ronald Bruce 17 Benson H.S. 5032 Maple St., 68104
Some Concepts of Infinity

*Fitzwater, Mary Ann Eiler 18 Notre Dame Academy 2750 Martin Ave., Leawood When Amberlite IRA-120 is Used in the Methanol Series of Alcohols with Zinc Iodide as the Solvent 66112

NEW JERSEY
Rochester
*Pinkham, Nancy Ethel 17 Spaulding H.S. R.F.D. 1, Salmon Falls Rd., Somerville Hemopoesis in the Spleen and Bone Marrow of 03830 Pregnant Mice

Atlantic City
Retley, William David 17 Atlantic City H.S. 511 N. Dudley Ave., Ventnor Project Mercury Redstone: A Study of the Effects of Rocket Flight on White Mice 08409

Bend Brook
*Margules, Lynn 17 Bound Brook H.S. 638 Harvard St., 08805 Relationship Between the Circumferential Ring and Coordination in Astaxanthin 07490

Long Branch
Finger, Thomas Emanuel 17 Long Branch H.S. 302 Lake Rd., Elberon Effect of Lacatic Acid on Muscle Contractions 07740

Metuchen
*Petrides, Marion 17 Metuchen H.S. 505 Woodfield Dr., 08840 Effects of Alkaloids on the Cholesterol Metabolism Oxidation of 5-Aminoc-2, 3-Dihydro-1, 4-Psilocybin 00025

Westwood
*Richmond, Marilyn Maxine 17 Westwood H.S. 322 Wilson Ave., 07675 Study of Three Mutations in the Mouse Which Produce Disproportionately Dwarfed Mice 07675

NEW MEXICO
Roswell
Pitter, Jeffrey Louis 17 Roswell H.S. 2401 Tavlor Ave., 88201 Stratigraphy and Paleontology of the Upper Guadalupian Series, Eddy County, New Mexico 88201

NEW YORK
Brooklyn
Baker, Louis 16 Abraham Lincoln H.S. 3069 Brighthope Pl., 11235 A Load and Go Forwardsra Computer for a Small Digital Computer

Gold, Iris Walter 16 Abraham Lincoln H.S. 3152 Brighthope Rd., 11235 Effects of Light Adaptation Upon the Photoreceptor Evoked Optic Tract Potentials in Cats

Spitzen, Jay Michael 17 Abraham Lincoln H.S. 200 Cobin Pl., 11235 Implementation of ALGOL on a Small Digital Computer

Cohen, Leonard 16 Canarsie H.S. 1403 E. 92nd St., 11235 Inhibitory Effects of Pesticide on Dihydrillsarcocystis Cerebrocoenosis in Mice

Huskin, Bernard Lewis 17 Erasmus Hall H.S. 384 E. 2nd St., 11218 Investigation of the Relationship Between Radio Waves From the Sun and Radio Waves From Jupiter

Felt, Paul Lynne 16 Erasmus Hall H.S. 18 Maple St., 11232 Phylogenic Relationships in Panorma Using Chromatographic Techniques

Goodman, Martin Harris 16 Erasmus Hall H.S. 295 Carroll St., 11232 Effects of Radio Frequency Energy on the Pigment Production and Growth Rate of Euglena gracilis

Leslie, Barbara Denise 16 Erasmus Hall H.S. 290 E. 19th St., 11232 Transformation of Tetracycline Resistance From Group A Streptococci to Known Transformable Streptococci

Sieg, Karl Joseph 17 Erasmus Hall H.S. 330 West 24th St., 11232 Chromatographic Study of Protein in Regenerating Fishbone

Spnit, Rose Deborah 16 Erasmus Hall H.S. 70 Daniel Rd., 11228 Effects of Radioactive Phosphorus on the Heat Resistance of Pluto Beans Plants

Wengor, Rebecca Beth 16 Erasmus Hall H.S. 734 Ocean Ave., 11232 Effects of Radioactive Porphyrin on Polycystic Ovarian Disease

Schumaker, Charles France 16 James Madison H.S. 1718 E. 26th St., 11229 Trophic Reaction of Eye Mutilant of Drosophila to Different Waves of Light

Schwarze, Janet Harriet 17 James Madison H.S. 2304 Ocean Ave., 11229 Automatic System
Bonagura, Vincent Robert 17 Lafayette H.S. 1516 W. 5th St. 11204
What is the pH Factor’s Effect on the Salvinia Water Plant With Regard to Growth?
Chizen, Harlan Jay 15 Lafayette H.S. 7402 Bay Parkway 12204
Biochemical Separation of Potassium Hydrogen Levoo-Tartrate
Firstenberg, Arthur Robert 16 Midwood H.S. 2155 Glenwood Rd. 12120
Preliminary Experiments on the Effects of Lysine on the Electrolytic Properties of the Muscle Cell
*Kaplan, Bonnie Mar 16 Midwood H.S. 929 New Lots Ave. 11208
Frychothermal Acetylcholinesterase Assays on Mice With Auto-Immune Hemolytic Anemia
Jaffe, Lynn Claude 16 Yeshiva of Flatbush H.S. 5507 11th Ave. 11219

Buffalo
Marx, Norman Louis 17 N. Hold School 21 High Ct., Snyder 14226
Inhibition of Leucocyte Migration by Old Tuberculosis as an Inductor of Tuberculosis
Crotton-Rudolph, *Bass, Emily 17 Crotton-Rudolph, H.S. Flinner Farm 10529
Effect of Gamma Rays on the Rate of Germination of Brassica oleracea, Dalia verticillata, and Hibiscus esculentus
Weir, Charles 17 Deer Park H.S. 2726 W. 31st St. 11239
Medial Properties of Finite Dimensional Hyper-Tetrahedrons
Bell, Gregory Charles 17 Deer Park H.S. 242 Grand Blvd. 11279
Synthesis of Organ-Amino-Methyl Derivatives
Far Rockaway
Rothenstein, Jay Richard 16 Far Rockaway H.S. 256 Beach 128th St.
A NOBOL Program to Solve Rockaway Park 11625
Trigeminal Identities
Ruff, Robert Louis 16 Far Rockaway H.S. 150 Beach 137th St., Bette
Effect of an Additional Stimulus Upon a Conditioned Reflex in a Parakeet
Flushing
Haseltine, Donald Steven 17 Francis Lewis H.S. 47-36 193rd St. 11358
Relation Between Carotid Pressure and Idiopathic Acute Cardiac Acrease of Cholecystitis
Forest Hills
Epte, Philip 17 Forest Hills H.S. 62-12 66th Ave., Forest Hills, Queens 11374
Studies on Bacterial Oxidation Reduction Potentials
Lerner, Corey Elliot 15 Forest Hills H.S. 63-84 Saunders St., Rego Park
Theory of Cathode Movement as an Explanation
Franklin Square
Matsos, Jeffrey 16 H. Frank Carey H.S. 365 June Pl., W. Hempstead 11552
A Frequency Band Selection Memory System
Ithaca
Qumma, Helen Elizabeth 16 Ithaca H.S. 122 Warren Rd. 14850
A Gene–Hormone Relation in Mice
Jamaica
Bricker, Preston C. 16 Jamaica H.S. 75-29 167th St. Flushing 11366
Thermoelectricity in Insects
*DeBlasio, Marta Ann 16 Jamaica H.S. 144-62 Charter Blvd. 11435
Relation Between Gastric and Atmospheric Pressure
Goldberg, Paul Bernard 16 Jamaica H.S. 86-70 Francis Lewis Blvd.
Aminophyllin Induced Stimulation of the Nervous System
Rotbart, M.L. 11427
Formation in R-hand/Crude
Lester, John D. 17 Jamaica H.S. 83-08 Brevado St. Kew Gardens 11415
Consideration of Families of Contours on One Parameter
Marder, Alan Mark 16 Jamaica H.S. 153-36 78th Ave., Flushing 11367
Investigations Into the Electrochemical Properties of Metallic Oxides
Mordell, Victor Mary 16 Jamaica H.S. 143-50 River Ave. 11435
Effects of Light Stimuli on Organic Metabolism
Schnabl, Robert B. 16 Jamaica H.S. 141-10 College Ave. 11435
*Studer, Laura Ruth 16 Jamaica H.S. 81-19 141st St. Kew Gardens
Consideration of Criteria for the Commissure
Weilburg, Dorothy L. 17 Jamaica H.S. 150-50 78th Rd., Flushing
Critical Points of Rational Polynomial Functions
Zeisler, Steven H. 16 Jamaica H.S. 84-16 159th St., 11432
Catastrophic State in the Cepstrum

Levittown
*Hraban, Geraldine Susan 16 Division Avenue H.S. 227 Division Ave. 11756
A New Mathematics
Fink, Richard Charles 16 Long Island City H.S. 43-07 39th Pl. 11104
Gravimetric Determination of Silver Halide Emulsions

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Carson, Ronald Jay 17 Herricks Sr. H.S. 147 Birchwood Dr. 11040
Effect of Ionic Charge and Radius on an Ultrasonic Sound Field in Solution
Higgins, Ellen Theresa 17 Aquinas H.S. 3060 Albany Crescent 10462
Influence of Oral Contraceptive Pills on the Depth Perception of White Mice
Bates, Michael Gardner 17 Bronx H.S. of Science 54 Riverside Dr. 10024
Some Considerations Evolving From an Investigation of Multiphase Systems
New York
Beter, Eric Ira 16 Bronx H.S. of Science 355 E. 201st St. 10248
Evaluation and Application of the Relative Concentrations of Newer Formed DNA and RNA in Asbestos Tumor Cells
Borowitz, Michael Joseph 15 Bronx H.S. of Science 900 W. 190th St. 10040
A Multiple-Stage Analysis of Wrist Fracture for the Diagnosis of Fractures and Some of Its Generalizations
Fellgenbaum, Leonard A. 17 Bronx H.S. of Science 2745 River Ave. 10468
Elimination of the Eyepoint in the E, gratiai
Geis, Stephen Stern 17 Bronx H.S. of Science 2540 River Ave. 10022
A Guess at Some Major-Valued Logic Systems
Gottman, Naomi Shulman 16 Bronx H.S. of Science 585 West End Ave. 10024
Application of the Theory of Games to the Game of Kyle 10024
Heimann, Peter 17 Bronx H.S. of Science 154-55 24th Ave., Whitestone 11364
Permutations in Card Shuffling
Housman, Judith Susan 16 Bronx H.S. of Science 300 C. Grand St. 10022
Variations on the Four-Color Map Theorem
Jankowski, Richard 16 Bronx H.S. of Science 145-49 25th Dr., Flushing 11357
An Investigation of the Derivation of Several Algebraic Inequalities
Katz, Jonathan Isaac 16 Bronx H.S. of Science 157 W. 86th St. 10024
Linear Topology of the Plane
Lever, Richard Gary 17 Bronx H.S. of Science 420 E. 79th St. 10021
Opposition of Tyrosin and Inulin in Intermolecular Glucose Metabolism
Mertins, Robert J. 17 Bronx H.S. of Science 418-414 24th Ave., Flushing 10024
Mathematical Systems With Closure, Associativity, and One-Ranked Identities and Inverses
Sattin, Robert Gary 16 Bronx H.S. of Science 561 Vermilyea Ave. 10034
Wilson’s Theorem and Prime Pairs
Steinberg, Albert Frank 16 Bronx H.S. of Science 40-49 74th St. 11373
Comparison of the Growth Retardation Effects of Cortisone and Danazol
Stivack, Paul S. 17 Bronx H.S. of Science 2870 Broadway 10457
An Investigation of Patterns of Primatc Grooming Throughout Three Series
Swick, Todd Jay 16 Bronx H.S. of Science 116 E. Mosholu Parkway 10458
An Intracellular Extravascular Glucose Transport System
*Levin, Betty Jean 16 Hunter College H.S. 315 Ave. C, 10009
Effects of Avoidance Stimuli on the Swain Albino Mouse
Schleifer, Steven Jay 16 Ramaz School 530 E. 80th St. 10028
Comparative Study of Several Methods of Determining the Melodee Dopaminergic and Its Isomers
Brightman, Kenneth Seaton 17 Rhode’s Preparatory School 580 E. 77th St. 10021
Biochemical Aspects of Embryo Differentiation
DiBartolomeo, Dennis Leonard 17 Stuyvesant H.S. 107-28 127th St., Flushing 11377
Staining of the Nerve Fiber of the Visual System
Sneddon, Mark Brian 15 Stuyvesant H.S. 80-30, 221st St. 11437
A Functional Test of the Visual Pathways of the Rat
Weir, Robert E. 18 Yeshiva University H.S. 133 W. 85th St. 10024
On the Catenary Equation of a Wire
*Blumenfeld, Susan H. 17 Oceanside Sr. H.S. 2651 Clyde Ave. C, 11572
Effects of Adenosine Triphosphate on Muscle Contraction
Phillips, Douglas Richard 17 Oceanside Sr. H.S. 321 Niles St. 11572
Qualitative and Semi-Quantitative Determination of the
Amino Acids, Amines, and Sugars in Rosa Sp.,
Chrysanthemum Sp., and Colossus Sp.

Poughkeepsie Rom, Allen P. 17 Arlington L.S. 2 Highpoint Dr. 12603
Selective Inhibition of the Xiphophorus luteolus
Moorehead, Gerard Carl 17 Arlington H.S. 17 Titusville Hts. 12603
Index Fossils Used to Determine Origin of Local Fossils

Investigation of the Action of Penicillin on Bacteria

Jericho, Richard Steven 17 Martin Van Buren H.S. 221-15 Maple Rd.
Electron Paramagnetic Resonance of Nickel

Staten Island Strom, Brian Leslie 17 Martin Van Buren H.S. 261-01 68th Ave., Floral
The Dual-Frequency Depolarization of

Williamsburg Wilczek, Frank Anthony 15 Martin Van Buren H.S. 254-41 75th Ave.
An Investigation Into Certain Systems Between Semigroups and Groups

Yarmouth, Joseph Sigmund 15 Martin Van Buren H.S. 212-12 73rd Ave.
Investigation of the Motion of a Pendulum

Rochester
*Duffy, Mary Catherine 17 Nazareth Academy 62 Council St. 14505
Perspective of Dzusian Triangles After

*Kriegstein, Henry John 17 Rostyn H.S. 20 Fair Dr. 11576
Conditioned Aversive Properties of Intracranial Self-Stimulation

*Kriegstein, Arnold Richard 17 Rostyn H.S. 20 Fair Dr. 11576
Base-pair Variations of Remeronic Dehydrogenase

*Springville, Andrew McKay 17 Griffith Institute and Central School R.D. 1,
Raising Leopard Frogs Under

*Syosset, Joseph Andrew 16 Syosset H.S. 9 Coventry Rd. 11791
Larval and Solar Relationships

NORTH CAROLINA

Salisbury
*Bruce, Carol Ann 17 East Rowan H.S. Box 163, Faith 28041
Probabilities, Growth, and Properties Produced by Microorganisms

*Holmes, John A. 18 East Rowan H.S. Box 235, Rockwell 28073
Ammoniotic and Embryonic Metazoa by Modified Van Dyke and

*Ridgway, Helen Rae 18 East Rowan H.S. Rt. 1, Box 16, Rockwell
Activity of Proximate Enzymes on a

*Shee, Linda Laugwiler 17 East Rowan H.S. 107 N. Main St. Granite
Activity of Proximate Enzymes on a

Winston-Salem Penny, John Britton, Jr. 15 Beech H.S. Box 54, Candler 27294
Research on RNA and Memory

NORTH DAKOTA

Cavalier
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A Comparison of Solar Radio Emission at 215 and 1329 MHz

Minot
Etinger, Delane Ray 17 Minot Sr. H.S. 517 18th Ave. S.W. 58701
Investigations of Inorganic and Organic Reactions

CINCINNATI

Braun, Robin Ray 17 Princeton H.S. 690 Smiley Ave. 45246
Reaction of Nitroso compounds With Organic Compounds

Schmidt, Dennis Warren 17 Western Hills H.S. 45211
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Rorschach Test and its Use in

Marietta
Ash, Robert Clarence 17 Marietta H.S. Rt. 2, 45750
Radiation Induced Aplastic Anemia

Parma
Neccatal, James Richard 17 Parma Sr. H.S. 4010 Longwood Ave. 44134
Modification of Stirling's Formula

Rocky River
*Hwang, Tien W. 17 Parma H.S. 2111 Albertville Ave. 44134
Properties of the Methane Blue Ferrous Iron System

*Mayer, Elizabeth Ann 17 Magnificat H.S. 861 Beech Ave. Cleveland
An Investigation of Random Movement on the

*Spakowski, Barbara Joan 16 Magnificat H.S. 28580 Beulach Ridges
An Intensive Study of Semiconductors

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Growth of Patterns of Salmo nella Species as

Verum
*Jeffrey, Diane Louise 18 Verum H.S. 504 W. Liberty Ave. 44089
Associated with Pathogenicity in Chickens

Warren
*Karr, Donald Edward 17 John F. Kennedy H.S. 594 Fairmount, N.E.
Determination Flow Velocities of Solids in Suspension

West Carrollton
*Jones, Christine Ann 17 West Carrollton Sr. H.S. 2040 W. Alexander-Chillicothe
Investigation of the Turner-Diopole Principle in Aerococcus Juventus

*Whitehall, Sharon Elaine 11 Whitehall-Yearling H.S. 483 Beaver Ave.
Effect of Soil Type and Properties on

Worthington
*Bauer, Mark Carl 17 Worthington H.S. 218 Colonial Ave. 43085
Investigations of Focusing Probes Using Transverse Sound Waves

OKLAHOMA

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Bilirubin Metabolism of the Trace Minerals

Stillwater
Drumm, Robert Michael 17 C. E. Donah H.S. 601 N. Skyline Pl. 73104
Computer Research in the Algebra of the Fibonacci Series

OREGON

Eugene
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Rear Earth Separation

St. Helens
*Leifer, Nancy Ann 18 St. Helens Sr. H.S. Rt. 2, Box 478 97051
Morphometric Analysis of the Mustelidae Rodent California and Other Intertidal Species

PENNSYLVANIA

Coronet
*Sickle, Christine Antoinette 17 Our Lady of the Sacred Heart H.S.
The Group 1408 Coronet Hts. Rd. 15108
Baileys, John Edward 17 DuBois Area Sr. H.S. 86 D. 15801
Growth Behavior of Hammers (Muscicota domesticus)

Kingston
*Hage, Mary Doris Rose 17 Central Catholic H.S. 232 2nd Ave
Expansion of the Musculus Strip

Latorre
*Sadler, John Joseph 17 Greater Latrobe H.S. 220 W. 1st St. 15650
Kinetics of Erythrocytic Catalysis of Cobalt

*Planesaks, Barbara Lynn 17 St. Xavier Academy Box 31, Lauffolein
Design and Construction of an Apparatus to Detect Explosive Gases

Philadelphia
Colten, Mark Richard 16 Central H.S. 443 Greenwood Ave. Wynnewood
Investigation of the Behavior of Vacancies

During Temperature Change

Festh, Donald Stephen 17 Central H.S. 8134 High School Rd. 19117
Effects of 360 KEP Protons on Silicon Planar Transistors

Landau, Steven Edward 16 Central H.S. 2424 N. 34th St. 19311
Observing the Correlation of the Eye Under Polarized Light

Weinstein, Stanley David 17 Central H.S. 7218 E. York St. 19119
Theory and the Circle

Plymouth
*Verbalis, Joseph George 17 Plymouth Area H.S. 423 E. Main St. 18651
Effects of a Continuous Dielectric Flow on the

Formation of Bubbles Following Electrosparking
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Wyoming: Wyoming Academy of Science
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The forty Washington trip winners of the 26th Annual Science Talent Search, among whom $34,250 of Westinghouse Science Scholarships and Awards will be distributed, represent about 1 1/2% of those who completed entries in this scientific and educational competition.

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, administered by Science Service, 1719 N Street, N.W., Washington, D.C. 20036.

Eleven girls and 29 boys (proportion determined by ratio of boys and girls completing entries) are being invited to Washington, D.C., for an all-expense trip March 1 through 6, 1987, to attend the Science Talent Institute. Here five winners will be selected by the board of judges to receive one of the following Westinghouse Science Scholarships: $7,500 ($1,500 a year), $6,000 ($1,500 a year), and $5,000 ($1,250 a year), $4,000 ($1,000 a year), $3,000 ($750 a year). The remaining 35 contestants will be given Westinghouse Science Awards of $500 each.

The trip winners are 15 to 18 years of age and come from 33 cities in 17 states and the District of Columbia. They were picked by the judges from among 23,829 contestants of whom 2,625 completed their entries by taking a science aptitude examination, obtaining recommendations and writing a report on their science project. Completed entries were received from 50 states and the District of Columbia.

Of the 40 Twenty-sixth Annual Science Talent Search Winners, 32 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 27.7% of the entries this year.
Washington Trip Winners

*indicates girl
H.S. indicates High School
HOME ADDRESS follows name of school
AGE of winner follows name

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Roy, Linda Jo 18 Menlo-Alberton H.S. 1020 Del Norte Ave., Menlo Park 24025

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