NEVADA: (See Arizona-Nevada)

NEW MEXICO: New Mexico Insitute of Mining and Technology, M. Jimmie Killingsworth, Assistant Professor of English, New Mexico Institute of Mining and Technology, Socorro 87801

NORTH DAKOTA: North Dakota Academy of Science, Dr. Donald R. Scoby, Professor of Biology, North Dakota State University, Fargo 58105

OHIO: Ohio Academy of Science, Lynn Edward Elfner, Executive Officer, 445 King Ave., Columbus 43201

OKLAHOMA: Oklahoma Northeastern State University, Dr. Joe M. Anderson, Professor of Botany, Division of Natural Science and Mathematics, Northeastern Oklahoma State University, Tahlequah 74464

OREGON: Oregon Museum of Science and Industry, Bruce Hansen, Coordinator of Research, Oregon Museum of Science and Industry, 4015 SW Canyon Road, Portland 97221

PENNSYLVANIA: Pennsylvania Academy of Science, Dr. Kurt C. Schreiber, Professor, Department of Chemistry, Graduate School of Arts and Sciences, Duquesne University, Pittsburgh 15282

TEXAS: Science Teachers Association of Texas, Dr. Virginia Rawlins, Assistant Professor of Physics, North Texas State University, Denton 76203

UTAH: Utah Academy of Sciences, Arts and Letters (Junior Academy Division), Richard S. Peterson, State Specialist in Science Education, Utah State Office of Education, 250 East 500 South, Salt Lake City 84111

VERMONT: The University of Vermont, Dr. George C. Crooks, Professor Emeritus of Chemistry, Cook Physical Science Hall, University of Vermont, Burlington 05405

VIRGINIA: Virginia Science Talent Search, Mrs. Joyce K. Peterson, Chairman, Science Department, Swanson Ind. School, 5800 N. Washington Blvd., Arlington 22205

WASHINGTON: Washington State Science Talent Search, Donald G. Dietrich, Professor of Chemistry, Central Washington University, Ellensburg 98926

WEST VIRGINIA: West Virginia Academy of Science, Joseph F. Glencoe, Jr., Department of Biology, West Virginia Wesleyan College, Buckhannon 26201

WISCONSIN: Wisconsin State Science Talent Search, James Merkel, Assistant Professor of Physics and Astronomy, University of Wisconsin, Eau Claire 54701

WYOMING: (See Colorado-Wyoming)

THE 42nd ANNUAL

Science Talent Search®

for the

Westinghouse Science Scholarships and Awards

1983 HONORS GROUP

Administered by SCIENCE SERVICE
1719 N Street N.W., Washington, D. C. 20036

FOR RELEASE: WEDNESDAY, JANUARY 19, 1983

The Science Talent Search was the pioneering endeavor to discover at the high school senior year level those who have the potential 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 been 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.

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 forty-two Science Talent Searches by the Westinghouse Electric Corporation and the Westinghouse Educational Foundation.

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 that means so much to high school seniors interested in science and engineering.

1983 Honors Group

The achieving of Honors in the Science Talent Search is an evidence of ability and interest in science and engineering which should 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. Each of those winning honors is being furnished with multiple certifications intended to accompany applications for college admissions and for scholarships, but a listing in this pamphlet should be accepted as an equivalent certificate. Listed are 102 girls and 198 boys.

From this list of 300 Honors, 40 are being chosen as Winners of the Washington trip. Among these, $89,500 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 29, 1983, and it will be sent upon request accompanied by a self-addressed stamped envelope.

(age follows name; home address underlined)

ALABAMA

Birmingham

Hagel, Lana Marie 17 Huffman H.S. 976 N. Martinwood Dr. 35235 Is Thermochemical Splitting of Co_2 and H_2O Possible in Praseodymium Compounds?

Childersburg

Mount, Gregory Thomas 18 Childersburg H.S. 1014 Desoto Ave. 35044 Determining the Equivalence of Two Knots by a Combination of Group Theory and Crossover Analyzation

Florence

Smalley, David Dayton 17 Bradshaw H.S. Route 7, Box 49 35630 Chemical Defense Mechanisms in the Yucca Thripps, Bagnalliella yuccae

Homewood

Le, Tien Minh 16 Homewood H.S. 240 Kent Ln. 35209 Stimulation of Hypothiocyanite Ion Generation

Huntsville

Huckabee, Laura Leigh 17 Huntsville H.S. 1100 McClung Ave. 35801 Fabrication of a 73.8MH_z Interferometer and Determination of Parameters Through Observation

Montgomery

Grant, Matthew 17 Robert E. Lee H.S. 565 Clayton St. 36104 Balancing Chemical Equations Using a Computer

Tuskegee

Baker, Clark Darnell 17 Tuskegee Institute H.S. 807 S. Church St. 36083 In vitro Plant Tissue Culturization of Impomoea batatas

ARIZONA

Phoenix

Flynn, Patrick Joseph 17 Bourgade Catholic H.S. 4522 W. Waltann Ln., Phoenix 85306 Spoilers for Roll Control

ARKANSAS

Floral

Sample, Rebecca Sue 16 Floral H.S. Box 8 72534 Closure in Visual Perception as Determined by Computer-Generated Figures

CALIFORNIA

Alhambra

Hong, Tsai-Chun 17 Alhambra H.S. 1620 West Hellman Ave. 91803 Hemoglobin-Carbonic Anhydrase Interaction

Kao, Audiey H. 17 Alhambra H.S. 1551 Arriba Dr., Monterey Park 91754 Study of the Nicotinic Acetylcholine Receptor Using a Photoisomerizable Competitive Antagonist

Komachi, Kelly 17 Alhambra H.S. 1385 Stonewell St., Monterey Park 91754 The Orbit of Thia (405)

Mannino, Christina Marie 18 Alhambra H.S. 501 Story Place, Alhambra 91801 Flow Cytometric Evaluation of Cell Size and Nucleic Acid Content During Inhibition of Proliferation

Benicia

Chan, Jason 17 Benicia H.S. 1298 W. K St. 94510 Effects of Steroids on Binding of Low Density Lipoproteins to Cultured Aortic Smooth Muscle Cells

Beverly Hills

Mitchell, Craig Robert 17 Beverly Hills H.S. 8900 Burton Way #304 90211 Effects of Choline and Methionine on Methylation of Nicotinamide and Production of Leg and Heart Muscle Creatine

Burlingame

Pak, Wilson Chunyong 17 Burlingame H.S. 55 Robertsway, Hillsborough 94010 Experimental Solid-State Nitinol Heat Engine and the Thermodynamic Considerations of This Engine Based on Thermoelastic Martensitic Transformation and the Shape Memory Effect

Fresno

Woody, William Edward 17 Clovis West H.S. 8038 North Mariposa 93710 Algorithm for a Computer Based General Purpose Theorem Prover

Long Beach

Powell, Anthony Michael 17 Long Beach Polytechnic H.S. 1510 Ramillo Ave. 90815 Correlation Between Height and Expression of the Bone Tumor Osteosarcoma in Canis familiaris

Roseville

De Rosa, Steven James 18 Roseville H.S. 309 Diamond Oaks Rd. 95678 Construction of a Microprocessor-Controlled Robot

San Diego — Wolf II, Erich William 18 Gompers Secondary School 5577 Honors Dr. 92122 Early Clinical Diagnosis of Progressive Dementia Using Long-Latency Visually Evoked Potentials

Wood, Wendy Allison 17 Gompers Secondary School 6215 Lake Leven Dr. 92119 Solutions to Second Order Differential Equations Using Continued Fractions

San Jose — Kopp, Alvin Benedict 17 Willow Glen H.S. 1362 Robsheal Dr. 95125 Nuclear Plant Data Bank Microprocessor Conversion

San Marino — Hsu, Katharine Chia Rae 16 San Marino H.S. 2955 Gainsborough Dr. 91108 Differentiation Antigens of Normal and Leukemic Lymphoid Cells

Song — Cheng, Huei 18 San Marino H.S. 2000 Del Mar Ave. 91108 Effect of Temperature and Duration of Storage on Lymphocyte DNA Extraction From Blood

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CONNECTICUT

Guilford — Thurberg, Beth Linda 17 Guilford H.S. 30 Alden Dr. 06437 Ciliate Protozoans Commensal on the Gills of Long Island Crustaceans: A Scanning Electron Microscope Study

Hamden — Ellison, Glenn David 17 Hamden H.S. 69 Haverford St. 06517 On the Summation of Certain Power Series

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Monroe — Anderson, Matthew Linley 17 Masuk H.S. 37 Deerfield Ln. 06468 Effects of Inorganic Additive on Selected Material Properties of Polymethylmethacrylate

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DELAWARE

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Sebok, Angelia Lee 17 John Dickinson H.S. 1107 Elderon Dr. 19808 Effects of Birth Order on Grade Point Average

DISTRICT OF COLUMBIA

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FLORIDA

Candler — Kuntz, Heather Colleen 17 Lake Weir H.S. 1245 S.E. 95th St., Ocala 32674 Fluctuations in Precipitation Acidity at an Inland Site on the Florida Peninsula

Cocoa — Voss, Timothy Allen 17 Cocoa H.S. 2453 Dianne Dr. 32922 A Multiprocessor Z80A Based Microcomputer for the STD-BUS

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Wagner, Marion Susanne 17 Coral Springs H.S. 4100 N.W. 101 Dr. 33065 Effect of a Diurnal Academic Pause on the Enhancement of Information Retention

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Lynch, William Thomas 17 Cardinal Gibbons H.S. 1472 SW 14th St., Boca Raton 33432 Effects of Vitamin E, Vitamin B_{12}, Sodium Thiocyanate, Pectin, and Lecithin on Regeneration in Planaria

Geertz, Caroline Isabel 17 Nova H.S. 2549 Nassau Lane 33312 Eye Structure and Feeding Habits of Caridean Shrimp

Koenig, James Harlan 17 Nova H.S. 4734 Jefferson St., Hollywood 33021 Employing 4-Hydroxyclomiphene Isomerization Quantification and Tamoxifen, Rabbit Liver Microsomal Metabolism to Improve Estrogen Dependent Breast Cancer Treatment

Singer, Steven Mitchell 16 Nova H.S. 922 S. Southlake Dr., Hollywood 33019 Cleaning and Disinfecting Capabilities of Commonly Used Surface Disinfectants

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Scott, Elizabeth Ann 17 D.U. Fletcher Sr. H.S. 1606 Arrowhead Trail 32233 Does the Mucus Membrane on Migil cephalus, menidia and Lutinanus Protect Against Disease: Phase I and II

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Giacomelli, Sue Ellen 17 St. Bede Academy 918 E. Cleveland St., Ladd 61329 Black Magic

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IOWA

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KANSAS

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Ghogawala, Zoher 17 Shawnee Mission West H.S. 6301 W. 83rd St., Overland Park 66204 Sinking Simulated Crude Oil Spills with Silicone-Coated White Sand

LOUISIANA

Galliano — Orgeron, Corey John 17 South Lafourche H.S. P.O. Box 332, Cut Off 70345 Can Ethanol Distilled From Nymphoeane ordorata Fuel an Engine?

MARYLAND

Bethesda — Kim, Claire Jean 17 Holton Arms School 7713 Maryknoll Court 20817 Mechanisms of Growth Arrest at a Unique R (restriction) Point in Phenotypically Normal Mouse Cell Lines

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Greenbelt — Goldstein, Harold William 17 Eleanor Roosevelt Sr. H.S. 8806 Gramercy Ln., Laurel 20708 Effects of Work on the News on Physiological Responses

Silver Spring — Bennett, Jefferson Ernest 17 Springbrook H.S. 421 Scott Dr. 20904 Properties of a Degradative Product of Prostaglandin E_2

Yeoh, Jaya G. 17 Springbrook H.S. 12 Schindler Ct. 20903 Treatment of Sickle Cell Anemia: Liposome Mediated Transfer of Heparin into Sickle Erythrocytes

Upper Marlboro — Dudley, Erastus Christopher 17 Queen Anne School 10041 Worrell Ave., Glenn Dale 20769 Factors That Affect Drilling Predation on Miocene Mollusks

MASSACHUSETTS

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Orange — Skrabis, Kristin Ellen 17 Ralph C. Mahar Reg. H.S. 26 East Myrtle St. 01364 Biological and Environmental Effects of Volcanism on Acid Rain

MICHIGAN

Ann Arbor — Evans, William Joseph 17 Huron H.S. 810 Oxford 48104 Synthesis of Potential Antifilarial Aromatic and Heteroaromatic Imidazoles Employing Methoxycarbonylisothiocyanate and a Novel Cyclodesulfurization Reaction

Birmingham — Cherney, Christopher Paul 17 Detroit Country Day School 485 Wishbone Dr., Bloomfield Hills 48013 Negative Air Ion Effect on Blood Platelet Aggregation

Rynne, Sean Frederick 17 Detroit Country Day School 4982 Hardwoods Dr., West Bloomfield 48033 Photochemical System for the Storage of Solar Energy

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MISSISSIPPI

Hattiesburg — Holifield, Robert Walton 18 Oak Grove H.S. 100 West Lakeside 39401 Flight: A Study of Low Cost Instrumentation with Which Valid Aerodynamic Research can be Investigated

MISSOURI

Maryville — Bruening, Merlin Lloyd 18 Maryville R-II H.S. 1624 Village "O" Dr. 64468 Differential Anthocyanin Synthesis in Geranium Leaves

St. Joseph — Stober, Dianne Renee 18 Central H.S. 911 N. 22nd St. 64505 Determination and Identification of a Natural Chemical Repellent of Acheta domesticus

St. Louis — Lasch, Michael Andrew 18 St. Louis Univ. H.S. 3824 Rue De Renard, Florissant 63034 Antigenic Determinants of ApoB in Plasma of Several Animal Species

MONTANA

Kalispell — Walterskirchen, Mark Joseph 17 Flathead H.S. 340 7th St. East 59901 Antifungal Activity of Griseofulvin and Ketoconazole Alone and in Combination Against Griseofulvin-Resistant Dermatophytes

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NEW JERSEY

Clermont — Freese, Peter Michael 17 Middle Twp. H.S. RD #1, Box 316 08210 Design and Analysis of a Basic Compiler

Long Branch — Woolwich, Stephanie Joan 17 Long Branch H.S. 473 Marvin Dr. 07740 Determination of Post-Neuter Changes in Endocrine, Metabolic and Behavioral Processes and Their Subsequent Interrelationships in the Canine Species

North Caldwell — Sodowick, Bradford Charin 17 West Essex Reg. H.S. 109 W. Greenbrook Rd. 07006 Acetylcholine Effects on the Mammalian Heart: Modulation by pH

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NEW MEXICO

Albuquerque — Martinez, Adrianna Shamala 17 St. Pius X H.S. 5308 Kettle Rd., N.W. 87120 Morphological, Biochemical and Antigenic Changes in Normal Human Fibroblasts During In vitro Cellular Aging

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Trauth, Laura Louise 17 Moriarty H.S. Star Route, Box 321-D, Tijeras 87059 Alligator and Crocodile Tooth Microstructures and Their Potential Use for Evaluating Higher Systematics

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NEW YORK

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Grill, Ronnie Michelle 18 Baldwin Sr. H.S. 955 Mildred Dr. 11510 Escape Response of Snails (Littorina littoria) to Crabs (Carcinus maenas)

Bayside — Levine, Maurice Brian 17 Bayside H.S. 15-60 216 St. 11360 Calcium and Cell Lysis of Trypanosomatid Parasites In vitro

Cowen, Lenore Jennifer 15 Benjamin N. Cardozo H.S. 164-22 75 Ave., Flushing 11366 Double Point Curves

Fong, Chun Ki 18 Benjamin N. Cardozo H.S. 98-15 Horace Harding Expwy. 6k., Corona 11368 Intra Angular Reflection

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	TEXAS
Austin	Zoch, Patricia Kay 17 Lyndon B. Johnson H.S. 7205 Fred Morse Dr. 78723
Houston	Spears, Jr., Larry Gene 17 Cypress Creek H.S. 10503 Greencreek Dr., Houston 77070
	VIRGINIA
McLean	Morgan, Douglas Stephen 18 McLean H.S. 6510 Truman Lane, Falls Church 22043
	WISCONSIN
Madison	Scherb, Ekaterina 17 James Madison Memorial H.S. 6326 Landfall Dr. 53705
	PUERTO RICO
Caguas	Colon, Marcelo 17 Antonio S. Pedreira H.S. Bo. Jaguas Bz-280, Gurabo 00658

SCIENCE SERVICE, INC. - 1719 N Street, N.W. - Washington, D.C. 20036

Washington Trip Winners of the Forty-second Annual Science Talent Search® for the Westinghouse Science Scholarships and Awards

The forty Washington trip winners of the 42nd Annual Science Talent Search, among whom $89,500 of Westinghouse Science Scholarships and Awards will be distributed, represent about 5% 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.

Eighteen girls and 22 boys are being invited to Washington, DC for an all-expense paid trip March 3-7, 1983, 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 $12,000 ($3,000 per year), two $10,000 ($2,500 per year), three $7,500 ($1,875 per year), four $5,000 ($1,250 per year). The remaining 30 contestants will be given Westinghouse Science Awards of $500 each.

The trip winners are 16 to 18 years of age and come from 32 cities in 16 states and Puerto Rico. They were picked by the judges from among 13,239 contestants of whom 824 completed their entries by writing a report on their science project, submitting personal data and teacher recommendations. Completed entries were received from 49 states, the District of Columbia and Puerto Rico.

Washington Trip Winners

HOME ADDRESS follows name of school AGE of winner follows name

	ALABAMA
Huntsville	Huckabee, Laura Leigh 17 Huntsville H.S. 1100 McClung Ave. 35801
	FLORIDA
Coral Springs	Stanford, Terri Lynn 17 Coral Springs H.S. 10351 N.W. 44 St. 33065
Jacksonville	Simms, Judith Seline 17 Wolfson Sr. H.S. 3835 Coronado Rd., 32217
Melbourne	Boyd III, James Marion 17 Melbourne H.S. 121 Ormond Ave., Indialantic 32903
North Miami Beach	Umlas, Shari-Lynn 17 North Miami Beach H.S. 19800 N.E. 23rd Ave. 33180
	ILLINOIS
Chicago	Podlasek, Carol Ann 17 Lourdes H.S. 5417 S. Oak Park Ave., Chicago 60638
	INDIANA
Lafayette	Ewalt, Celeste Aline 17 Central Catholic H.S. 3002 South St. 47904
	KANSAS
Shawnee Mission	Ghogawala, Zoher 17 Shawnee Mission West H.S. 6301 W. 83rd St., Overland Park 66204
	MARYLAND
Ellicott City	Hyman, Michael Irvin 17 Centennial H.S. 11500 Homewood Rd. 21043
	MASSACHUSETTS
Dover	Leung, Jr., Arthur Tung Tak 17 Dover-Sherborn H.S. 106 Centre St. 02030
	MICHIGAN
Ann Arbor	Evans, William Joseph 17 Huron H.S. 810 Oxford 48104
Birmingham	Rynne, Sean Frederick 17 Detroit Country Day School 4982 Hardwoods Dr., West Bloomfield 48033
	MINNESOTA
Rochester	Leonard, Silva Kristine 17 Mayo H.S. 719 Fifth St., S.W. 55901
	NEBRASKA
Omaha	Webb, Michael Fritz 18 Northwest H.S. 5745 N. 79th Ave. 68134
	NEW MEXICO
Moriarty	DeFreitas, Michael Francis 17 Moriarty H.S. P.O. Box 147, Edgewood 87015
	NEW YORK
Bayside	Lazoff, Howard Allen 17 Benjamin N. Cardozo H.S. 75-34 Bell Blvd. 11364
	Romani, Victoria Gissele 17 Benjamin N. Cardozo H.S. 39-58 Glenwood St., New York 11363
Dobbs Ferry	Koide, Eric Akira 17 Dobbs Ferry H.S. 134 Lefurgy Ave. 10522
Hastings-on-Hudson	Schiffer, Michelle Helene 17 Hastings H.S. 31 Jordan Rd. 10706
Jamaica	Li, Hon-Keung 17 Hillcrest H.S. 41-81 Frame Pl. #2A, Flushing 11355
Latham	Gomez, Caroline Maria 17 Shaker H.S. 513 Columbia St. Ext., Cohoes 12047
Mexico	Murray, Amy Miok 17 Mexico Academy and Central School 5865 Liberty St. 13114
New Rochelle	Levy, Gina Rosalind 17 New Rochelle H.S. 296 Lyncroft Rd. 10804
New York	Chen, Ling Ping 17 Bronx H.S. of Science 194-09 50 Ave., New York 11365
	Chiang, William 16 Bronx H.S. of Science 541 West 211 St., #44A 10034