

Rules and Regulations

THE TWELFTH ANNUAL SCIENCE TALENT SEARCH CONDUCTED BY
SCIENCE CLUBS OF AMERICA, FOR THE WESTINGHOUSE SCIENCE SCHOLARSHIPS

ELIGIBILITY

Any boy or girl who is in his last year in an accredited secondary school (public, private, parochial) in continental United States, who is expected by the certifying school official to complete college entrance qualifications before October 1, 1953, and who has not competed in any previous Science Talent Search is eligible to enter this competition.

Age—There are no age limits in this competition.

Science Clubs of America—It is not necessary to be a member of Science Clubs of America to enter this competition, although creative activity in a science club will aid a contestant's record.

REQUIREMENTS

Each completed entry in the Science Talent Search must consist of these three:

1. A completed science aptitude examination, certified by student and teacher.
2. A personal data blank and secondary school record, filled out by the teachers and principal.
3. A report of about 1,000 words on "My Scientific Project," by the student. It should tell what the contestant is doing or plans to do in science in the way of experimentation or other research activity. It should be original, creative and interpretative in character.

Science Talent Search science aptitude examinations and personal data—secondary school record blanks are furnished free of charge to any school official who requests them and who pledges to administer them in accordance with instructions.

Each contestant must take the Science Talent Search examination administered in his school on or after Monday, December 8, 1952.

All entries must reach the offices of Science Clubs of America, 1719 N Street, N.W., Washington 6, D. C., not later than midnight, Saturday, December 27, 1952.

AWARDS

Forty contestants with highest talent as judged by a judging committee on the basis of Science Talent Search examination, scholastic and personal records, reports and any other information assembled by the judges, will be awarded invitations to the Science Talent Institute and all-expense trips (transportation, hotel and other arranged expenses paid) to the place the Institute is to be held, and return. It is planned to hold the Science Talent Institute February 26-March 2, 1953, at Washington, D. C., unless in the judgment of Science Service it should be held elsewhere or at another time. All contestants invited to the Science Talent Institute will receive the Gold Emblem of Science Clubs of America.

One contestant coming to the Science Talent Institute will be selected by a board of judges to receive a four-year Westinghouse Grand Science Scholarship of \$2,800 (\$700 per year). An alternate will be named.

Another contestant coming to the Science Talent Institute will be selected by a board of judges to receive a four-year Westinghouse Grand Science Scholarship of \$2,000 (\$500 per year). An alternate will be named.

Eight additional contestants coming to the Science Talent Institute will be selected by a board of judges to receive four-year Westinghouse Scholarships of \$400 each (\$100 per year). Three alternates will be named.

Additional Westinghouse Scholarship awards totaling \$3,000 will be awarded at the discretion of the judges.

Honorable mentions will be awarded.

Committees of judges designated by Science Service will judge the contest, and the decision of these judges shall be final in all cases.

Conditions of Scholarships

Each scholarship may be applied toward a course in science or engineering at a degree-granting institution of higher education selected by the winner and approved by a Scholarship Committee named by Science Service. Science and engineering courses that may be pursued are those encompassed in the fields of activity of the National Academy of Sciences and the National Research Council.

Should any winner be unable for any reason to enter upon the use of a scholarship, the highest ranking alternate named by the judges shall become entitled to receive it under the same conditions as applicable to the original winner and the original winner shall thereupon have no further rights in the scholarship.

The use of a scholarship shall begin within a year of the date of award.

One-half of each year's scholarship will be paid at the time of entering upon each year's college work and one-half at the middle of each collegiate year, but payments may be accelerated at the discretion of the Scholarship Committee.

In the event that the holder withdraws from collegiate work, or if continued use of the scholarship award is disapproved by the Scholarship Committee upon report from the college that progress is deemed unsatisfactory to the college, the right of the scholarship holder to receive any further payments shall be forthwith terminated.

The approval or disapproval and decision of the Scholarship Committee shall in all its respects be final.

1953

FILE COPY

THE WINNERS AND HONORABLE MENTIONS IN THE TWELFTH ANNUAL SCIENCE TALENT SEARCH

SCIENCE CLUBS OF AMERICA

SCA
1719 N STREET NW • WASHINGTON 6 DC

DEDICATED TO THE DEVELOPMENT OF SCIENCE TALENT
ADMINISTERED BY SCIENCE SERVICE the Institution for
the Popularization of Science WATSON DAVIS, DIRECTOR



**THE WINNERS
AND HONORABLE MENTIONS
IN THE TWELFTH ANNUAL
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THE ANNUAL SCIENCE TALENT SEARCH

Never before has the world had greater need of the investigative turn of mind, the inquiring attitude and the love of fact that is exemplified in scientific research.

Science is important in defense of our freedom and the preservation of our way of life.

The Science Talent Search has succeeded far beyond our hopes. To the top 300 contestants in each of the first eleven years there have come many thousands of dollars in scholarships from colleges and universities throughout the nation, supplementing the Westinghouse Science Scholarships distributed among those who were invited and came to Washington.

With approval from the educational world and with the winners of the first eleven Science Talent Searches making creditable records in colleges, universities and professional positions, this attempt at picking those with research ability in science has become an institution and a tradition. Those selected in such rigorous competition have a great responsibility.

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 in 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 first twelve 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 more than 15,000 science clubs and one-third of a million members affiliated with Science Clubs of America.

THE TWELFTH ANNUAL SCIENCE TALENT SEARCH WASHINGTON TRIP WINNERS

Three hundred boys and girls, who are believed to have unusual potential scientific ability, have been selected from the 1953 senior classes of the United States secondary schools and have been awarded honors in the Twelfth Annual Science Talent Search.

Nine girls and 31 boys (proportion determined by ratio of boys and girls entering the contest) are being invited to Washington, D.C., for an all-expense trip February 26 through March 2, 1953, to attend the Science Talent Institute. Here one boy or girl will be awarded the \$2,800 Westinghouse Grand Science Scholarship. Other scholarships, bringing the total to \$11,000, will range from \$100 to \$2,000. They will be awarded at the discretion of the judges.

The trip winners are 15 to 18 years of age and come from 32 cities in 20 states. They were picked by the judges from among 14,260 contestants of whom 2,264 completed their entries by taking a science aptitude examination, obtaining recommendations and writing a report on "My Scientific Project". Entries were received from every state.

About 53% of the 40 Twelfth Annual Science Talent Search winners ranked first, second, or third in their graduating classes. 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 22% of the entries this year, the same as last year.

WASHINGTON TRIP WINNERS

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

ARIZONA

Phoenix *Spannophl, Karen Mateel 16 North Phoenix H.S. 2829 N. 29th St.

CALIFORNIA

Los Angeles Brayton, Paul Richard 17 James A. Garfield H.S. 5647 Repetto Ave. 22
Pasadena Clark, Dennis Richard 18 University H.S. 1912 Thayer Ave. 25
Pasadena Willis, John Steele 18 Pasadena City College H.S. 1302B E. Villa St. 4

CONNECTICUT

Lakeville French, Thayer Carlton 17 The Hotchkiss School 804 Ohio River Blvd. Sewickley, Pa.

GEORGIA

Atlanta *Wright, Nancy Eleanor 17 Brown H.S. 256 Altoona Pl. S.W.
Chamblee Menhinick, Edward Fulton 17 Chamblee H.S. Womack Rd., Dunwoody

ILLINOIS

Evanston Tangora, Martin Charles 16 Evanston Township H.S. 2047 Orrington Ave.
Glen Ellyn Reynolds, John Charles 17 Glenbard Township H.S. 640 Forest Ave.

INDIANA

Bloomington *Hopf, Barbara Erika Gertrude 16 University H.S. 512 S. Swain St.
Valparaiso Swarner, David Reynolds 15 Valparaiso H.S. R.R.#3, Box 472

MASSACHUSETTS

Weston Phillips, Edward Alan 15 Weston H.S. Mt. Taber Rd., Lincoln

MINNESOTA

Rochester Moffet, Alan Theodore 16 Rochester Senior H.S. 1325 8th St., S.W.

MISSOURI

Independence Larson, James Daniel 17 William Chrisman H.S. 10011 E. 35th St. Terrace, Kansas City

NEW HAMPSHIRE

Exeter Mumford, David Bryant 15 The Phillips Exeter Academy Summerland Key, Fla.

NEW JERSEY

Grandford Isles, David Frederick 17 Grandford H.S. 10 Arlington Rd.
Highland Park Sosin, David Elliott 17 Highland Park H.S. 12 N. 8th Ave.

NEW YORK

Brooklyn Minsky, Paul Henry 16 Brooklyn Technical H.S. 925 Prospect Pl. 13
*Forman, Merle Regina 16 Erasmus Hall H.S. 10 Artye Rd. 18
*Gross, Charles Gordon 16 Erasmus Hall H.S. 328 E. 4th St. 18
Rushin, Robert Leonard 15 Lafayette H.S. 1514 W. 11th St. 4
Resnikoff, Howard Lenard 15 Abraham Lincoln H.S. 3126 Carey Island Ave. 35
Shore, Robert Avery 16 Midwood H.S. 2624 Ave. L 10
Pearlmutter, Arthur Edward 16 Forest Hills H.S. 66-09 110th St. 75
Forest Hills Strax, Norman 17 Great Neck H.S. 10 Somerset Dr.
Great Neck *Duchane, Emma Marie 16 Hunter College H.S. 437 E. 85 St. 28
New York *Hokawa, Etsuyo 17 Hunter College H.S. 219 E. 40 St. 16
*Russ, Joanna Ruth 15 Wm. H. Taft H.S. 620 Thwaites Pl. 67

Painted Post 18 Cassidy, Harry Joseph 18 Painted Post H.S. 148 Steuben St.
 Scarsdale 17 Harle, Kenneth Jeremy 17 Scarsdale H.S. 45 Lawrence Rd.
 Totterville 16 Lubin, Jonathan Darby 16 Totterville H.S. 2 Shurtle Ave., Staten Island 12
 White Plains 16 Pirone, Dominick Joseph 16 Archbishop Shephard H.S. 108 N. Columbus Ave., Mt. Vernon

OHIO

Mansfield 17 Kirtley, Mary Elizabeth 17 Mansfield Senior H.S. 602 Crescent Rd.

OKLAHOMA

Tulsa 17 Claytor, Richard Nelson 17 Central H.S. 1819 W. Cameron St. 6

OREGON

Portland 16 Wolfe, Jack Albert 16 Franklin H.S. 4530 S.E. Clinton St. 6

PENNSYLVANIA

Allentown 17 Schroyer, Laurence Frederick 17 Allentown H.S. 724 N. 19th St.

SOUTH DAKOTA

Vermillion 17 Winter, John Mack, Jr. 17 Vermillion H.S. 205 S. Pine St.

TEXAS

Austin 17 Barnes, Virgil Everett, Jr. 17 Austin H.S. 207 E. 33rd St. 5

VIRGINIA

Norfolk 15 Mitchell, Merle Almazetta 15 Booker T. Washington H.S. 7849 Ogden St. 5

WISCONSIN

Oshkosh 16 Grant, Michael Peter 16 Oshkosh H.S. 189 Lake Dr.

TWELFTH ANNUAL SCIENCE TALENT SEARCH

HONORABLE MENTIONS

In addition to the 40 chosen to come to Washington, 260 students have such promise that the judges recommended that they be awarded Honorable Mention in the Twelfth Annual Science Talent Search and their ranking be brought to public attention and, particularly, that colleges and universities be informed.

All boys and girls awarded Honorable Mention, as well as the Washington trip winners of the Twelfth Annual Science Talent Search, are considered so outstanding that any institution of higher learning would be justified in considering their abilities carefully.

Dr. Harold A. Edgerton, who, with Dr. Stewart H. Britt, developed and carried out the selection technique, declares that all of the Honorable Mentions as well as the trip winners, represent a group of high school seniors of outstanding ability whose high school records indicate that they are top-notch producers. Their activities and interests reflect an active interest in some field of science.

Of the Honorable Mentions in the Twelfth Annual Science Talent Search, 40% of the boys and 54% of the girls were first, second or third in their high school classes. All of the boys and girls have studied science and/or mathematics for four years or more in high school. All have participated in a wide variety of extra-curricular activities and hobbies. Among the 260 who won Honorable Mention, 178 belong to Science Clubs of America. The proportion of boys and girls in this list is determined by the ratio of boys and girls entering the contest. Listed are 57 girls and 203 boys.

HONORABLE MENTIONS

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

ARIZONA

Mesa 18 Schnebly, Paul Flake 18 Mesa H.S. 149 E. Second Ave.
 Phoenix 17 Wiley, Hazel Louise 17 North Phoenix H.S. 514 E. Hayward St.
 Tucson 17 Prescott, Donald 17 Phoenix Union H.S. Rt. 1, Box 538
 Tucson 17 Hayden, Julian Dodge, Jr. 16 Tucson Senior H.S. 3931 Paseo Dorado
 Tucson 16 Hayden, Julian Dodge, Jr. 16 Tucson Senior H.S. 4239 East Bellevue Ave. 13

CALIFORNIA

Bakersfield 17 Smith, Charles James 17 Bakersfield H.S. 13 Holly Rd.
 Berkeley 17 Robertson, Richard Gordon 17 Berkeley H.S. 567 Vistamont Ave. 8
 Beverly Hills 16 Rosowsky, Andre 16 Beverly Hills H.S. 628 N. Alpine Dr.
 Coronado 17 High, Darrell Fowler 17 Coronado H.S. 529 Palm Ave. 18
 Los Angeles 17 Kayabara, Janice Teruyo 17 Dorsey H.S. 2812 S. Bronson Ave. 18
 Modesto 16 Neville, Donald Edward 16 St. Agnes H.S. 11725 W. Adams Blvd. 18
 Modesto 17 Glover, Leon Conrad, Jr. 17 Modesto H.S. 145 Corson Ave.
 Modesto 16 Tyler, James Bruce 16 Modesto H.S. Rt. 5, Box 419
 Ontario 17 Osborne, Barry Lee 17 Chaffey Union H.S. 167 S. Campus Ave., Upland
 Riverside 17 Wood, David Beiden 17 Polytechnic H.S. 24275 Highway 60, Sunnymead
 Rosemead 17 Anderson, Steven Clement 16 Rosemead H.S. 3633 N. Temple City Blvd.
 San Francisco 17 Gaikey, Michael Dean 17 Lowell H.S. 130 Lumado Way 27
 Santa Barbara 17 Moretti, Peter Mark 17 Catholic H.S. 1822 32nd Ave. 22
 Santa Monica 18 Albrecht, Peter 18 St. Monica's H.S. 21 E. Quinto St.
 Santa Monica 17 Cowen, Gilbert Edwin 17 St. Monica's H.S. 428 Euclid St.

COLORADO

Denver 16 Geyer, David Warren 16 East H.S. 1133 Steele St. 6

CONNECTICUT

New Haven 17 Flexer, Abraham Sidney 17 Hillhouse H.S. 101 Gilbert Ave. 11

DELAWARE

Newark 17 Skinner, Charles Kimball 17 Newark H.S. 74 Amstel Ave.

DISTRICT OF COLUMBIA

Washington 17 Reeves, Lorella Mae 17 Anacostia H.S. 2115 Branch Ave., S.E. 20
 *Beardsley, Irene Adelaide 17 Woodrow Wilson H.S. 3215 Van Hazen St. 15

FLORIDA

Crawfordville 17 Moses, Ray Napoleon, Jr. 17 Crawfordville H.S. Box 111
 Miami 17 Boudreau, Alan John 17 Miami Senior H.S. 1619 N.W. 10 St. 35

GEORGIA

Atlanta 17 Keaton, Robert Winn 17 Brown H.S. 1645 Olympian Way, S.W.
 *Samples, Rena Jeanette 17 Brown H.S. 440 Peoples St.
 Bookout, Henry Wade, Jr. 17 North Fulton H.S. 2706 Lenox Rd., N.E. 5
 Edwards, Joseph Lee, Jr. 17 Northside H.S. 2406 Woodward Way, N.W.
 *Morton, Palmyra Jean 17 Sylvan Hills H.S. 1977 Brewer Blvd., S.W.
 Abercrombie, Stanley Earl, Jr. 17 La Grange H.S. 1307 Vernon Rd.

IDAHO

Twin Falls 17 Giberson, Margaret Marie 17 Twin Falls H.S. 167 W. Addison Ave., W.
 Huchies, John Whittson, Jr. 17 Twin Falls H.S. 403 2nd Ave., N.

ILLINOIS

Arlington Hts. Cumminsford, Robert Glen 17 Township H.S. 17 N. Belmont Ave.
 Pearson, Robert Edward 17 Township H.S. 503 N. Haddon St.
 Chicago *McCabe, Mary Ann 17 The Immaculate H.S. 715 Belmont Ave. 14
 Berman, Barry Louis 16 Von Steuben H.S. 4952 N. Hamlin Ave. 25
 Goroff, Iza Raphael 17 Von Steuben H.S. 5817 N. Central Park 45
 Waltman, William Beggs 17 Maine Township H.S. 807 S. Chester Ave.,
 Park Ridge
 Evanston Conner, Roger William 16 Evanston Township H.S. 2619 Central St.
 Cox, Richard Severin 15 Evanston Township H.S. 2611 Hartzell St.
 Franklin Park Netzel, Daniel Anthony 18 Leyden Community H.S. 2419 Maple St.
 Granite City Pohler, Peter Norris 16 Granite City Senior H.S. Granite City
 Engineer Depot
 Highland Park Rosin, Robert Fisher 16 Highland Park H.S. 680 Sheridan Rd.
 Maywood Schmidt, Clarence Anton 17 Proviso Township H.S. 2009 S. 13th Ave.
 Oak Park Brandenburg, Richard George 17 Oak Park and River Forest H.S.
 225 S. Taylor Ave.
 Tohey, Stephen Winter 17 Oak Park and River Forest H.S.
 1102 N. Taylor Ave.
 Vandalia Elnditz, Bertwin Elmer 18 Vandalia Community H.S. RR #1, Shobonier
 INDIANA
 Bluffton Hammond, David Todd 18 P.A. Allen H.S. 633 S. Marion St.
 Connersville Rose, Gerald Clinton 17 Connersville Senior H.S. 615 W. 21st St.
 Culver Marshall, J. Howard, III 16 Culver Military Academy Apt. 429, Westchester
 House, Ft. Worth, Texas
 Fort Wayne Letsinger, Robert Martin 17 Elmhurst H.S. 1202 Lower Huntington Rd. 8
 Indianapolis Cowan, Michael Anthony 17 Cathedral H.S. 8015 E. 21st St. 44
 Lebanon Murphy, John Fletcher 17 Lebanon Senior H.S. Country Club Park
 *Shurt, Patricia Ann 17 Marion Senior H.S. 1309 W. Fifth St.
 Marion Waterhouse, Bert Randall 17 Isaac C. Elston H.S. RR #3, Box 497
 Michigan City Nowacki, David Thomas 17 Central H.S. 1034 1/2 Western Ave.
 South Bend *Broemmelstiek, Carol Leona 17 St. Joseph's Academy 734 Drine Ave.
 Terre Haute Dunn, Lathmer Edward 17 Garfield H.S. 300 N. 17th St.
 IOWA
 Clinton Smith, Don Ward 18 Clinton H.S. 256 Thorwaldsen Pl.
 Dubuque *Nagel, Dorothy Anna 17 St. Joseph Academy 1293 Bluff St.
 KANSAS
 Chanute Brigden, Robert Bruce 17 Chanute Senior H.S. 523 N. Evergreen St.
 Lawrence Robb, Joseph Warren 17 Liberty Memorial H.S. 1601 Kentucky St.
 KENTUCKY
 Owensboro Stoothoff, Robert Hutchinson 17 Owensboro Senior H.S. 2100 Griffith Pl., E.
 MARYLAND
 Hyattsville Conley, James Woodworth 17 Northwestern H.S. 4406 Colesville Rd.
 MASSACHUSETTS
 Brookline Farakas, Richard Franklin 16 Brookline H.S. 234 Tappan St. 46
 Jamaica Plain *Swendeman, Nancy Ann 17 St. Thomas Aquinas H.S. 22 Sedgwick St. 30
 MICHIGAN
 Detroit Klimke, Thomas Francis, Jr. 17 Holy Redeemer H.S. 3600 Clipport Ave. 10
 Dowagiac Garwood, Donald Charles 16 Dowagiac Central H.S. RR #4, Cassopolis
 Ferndale Wilanan, Wayne Alfred 17 Lincoln H.S. 430 W. Lewiston St. 20
 Kalamazoo Cookson, Lawrence Upjohn 17 Central H.S. 2134 Sheffield Dr. 40
 Mount Clemens *Pierston, Patricia Lovonne 17 Mount Clemens H.S. 19624 Coleman St.
 Utica Johnson, Norman Jeremy 17 Utica H.S. 7711 McClellan St.

MINNESOTA

Perham *Cauphey, Barbara Ann 17 Perham H.S. Perham
 St. Paul Hansen, Gordon Jerome 18 Harding H.S. 888 Lake St. 6

MISSISSIPPI

Greenwood Searwright, James Lemuel 16 Greenwood H.S. 303 E. Jefferson St.
 Houston *Powell, Betty Sue 18 Houston H.S. RFD #3, Vardaman

MONTANA

Great Falls Eggleston, Jerry Wilson 17 Great Falls H.S. 812 2nd St., S.W.
 Shelby Lingertelt, Joe Edward 17 Shelby H.S. 210 1st Ave., S.

NEBRASKA

Omaha *Roberts, Marcia Ann 17 Central H.S. 5725 Mayberry St. 6
 Exeter Loeb, John Nichols 17 The Phillips Exeter Academy 950 Park Ave.,
 New York 28, N.Y.

NEW HAMPSHIRE

Atlantic City Braunsstein, Ralph Martin 18 Atlantic City H.S. 2 S. Baton Rouge Ave.
 Chatham Bowers, Henry Myers 17 Chatham H.S. 44 Broadview Terr.
 Garfield *Luciani, Virginia Rose 17 Garfield H.S. 60 Bloomingdale Ave.
 Princeton Almgren, David Wright 17 Princeton H.S. 4 Southern Way
 Succasunna Eaton, Philip Eugene 16 Roxbury H.S. Country Club Estates, Budd Lake
 Teaneck Sacerdote, Albert Mauro 16 Teaneck H.S. 676 W. Englewood Ave.

NEW JERSEY

Albuquerque Stevens, John Oliver 17 Albuquerque H.S. Star Rt., Box 170, Alameda

NEW MEXICO

Brooklyn Conway, John Michael 16 Bishop Loughlin Memorial H.S. 31-16 35th Ave.,
 Long Island City 6
 Smith, Henry Peter 17 Bishop Loughlin Memorial H.S. 155 Davis Ave.,
 White Plains
 Fleischner, Gerald Marvin 17 Boys H.S. 8 Vernon Ave. 6
 Abramson, Paul 17 Brooklyn Technical H.S. 1234 Lincoln Pl. 13
 Coburn, Mathias Michael 16 Brooklyn Technical H.S. 859 E. 10th St. 30
 Feldman, Martin 17 Brooklyn Technical H.S. 1717 Carroll St. 13
 Goepfert, Robert Harold 17 Brooklyn Technical H.S. 104-33 89th Ave.,
 Richmond Hill 18
 Golub, Sherman Leonard 17 Brooklyn Technical H.S. 2038 59th St. 4
 Gottlieb, Lawrence Howard 17 Brooklyn Technical H.S. 26-20 141st St.,
 Flushing 54
 Kent, William 16 Brooklyn Technical H.S. 23-83 27th St., Long Island City 5
 Meyers, Robert David 16 Brooklyn Technical H.S. 1301 Ave. K 30
 Mushrow, Jeremy Israel 17 Brooklyn Technical H.S. 59 W. 71st St. 23
 Ruckertstuh, Robert Fred 17 Brooklyn Technical H.S. 266 Troy Ave. 13
 Schechter, Edward Gerson 16 Brooklyn Technical H.S. 5501 11th Ave. 19
 Schorster, Daniel 17 Brooklyn Technical H.S. 3619 Bedford Ave. 10
 Segel, Irwin Harvey 17 Brooklyn Technical H.S. 201 Hamilton Ave.,
 Staten Island 1
 Steinberg, Donald H. 17 Brooklyn Technical H.S. 6309 23rd Ave. 4
 Vogel, Joseph Louis, Jr. 17 Brooklyn Technical H.S. 84-29 Lefferts Blvd.,
 Kew Gardens 15
 Falb, Peter Lawrence 16 Erasmus Hall H.S. 55 Lenox Rd. 26
 *Geist, Suzanne 17 Erasmus Hall H.S. 419 E. 2nd St. 18
 *Helfman, Esther 17 Erasmus Hall H.S. 57 Clara St. 18
 *Lorberblatt, Phyllis Ann 15 Erasmus Hall H.S. 915 Washington Ave. 25
 Marcus, Michael Barry 16 Erasmus Hall H.S. 811 Ave. C 18

*Nipomnich, Carol Ruth 17 Erasmus Hall H.S. 77 E. 35th St. 3
 Haines, Leonard 16 Thomas Jefferson H.S. 730 New Jersey Ave. 7
 Stea, David 16 James Madison H.S. 1764 E. 22nd St. 29
 Abel, Jacob Michael 16 Midwood H.S. 1072 E. 10th St. 30
 Dubey, Joseph M. 17 Midwood H.S. 2810 Ave. I 10
 Goldman, Michael Arthur 13 5116 Ave. K 34
 Lefter, Daniel Isaac 17 Midwood H.S. 41 Eastern Parkway 17
 Morse, Robert Michael 17 Midwood H.S. 956 E. 14th St. 30
 Polisky, Keldon Alan 16 Midwood H.S. 663 Rucby Rd. 30
 *Starfield, Phoebe Dorothy 16 Midwood H.S. 1136 E. 12th St. 30
 *Dembinski, Dorothy Cecelia 17 St. Angela Hall Academy 408 3rd St. 15
 *Gille, Anna Louise 17 Kensington H.S. 173 Puyllis Ave. 15
 Stecker, Elton Herman, Jr. 17 Dunkirk H.S. 620 Deer St.
 Offhaus, Richard Charles, Jr. 17 East Aurora H.S. 659 Main St.
 Palmer, James Price 17 East Aurora H.S. Chair Factory Rd., Elma
 Bodley, Nicholas 16 Columbia H.S. Elliot Rd.
 *Wilcox, Lois Elizabeth 17 Farmingdale H.S. 235 Grant Ave.
 Korn, Michael George 16 Far Rockaway H.S. 250 Beach 137 St.,
 Belle Harbor 94
 Thornton, Edward Ralph 17 Fayetteville Central H.S. Church Hill Lane
 Moos, Henry Warren 16 Sewanhaka H.S. 517 N. 6th St., New Hyde Park
 Toomre, Alar 16 Sewanhaka H.S. 1040 Tulip Ave., Franklin Square
 Besso, Victor Rene 16 Forest Hills H.S. 99-49 66th Ave., Rego Park 74
 *Jospe, Susanne 17 Forest Hills H.S. 62-56 Austin St., Rego Park 74
 Sprey, Pierre Michel 15 Forest Hills H.S. 84-18 126th St., Kew Gardens 15
 Strauss, Herbert Leopold 16 Forest Hills H.S. 117-01 Park Lane S.,
 Kew Gardens 15
 *Rountree, Julianne Mott 17 Garden City H.S. 153 Wellington Rd.
 Wright, Stewart Rex 17 Garden City H.S. 148 Klidare Rd.
 Hand, Clifford Warren 17 Geneva H.S. 652 W. North St.
 Effros, Edward George 17 Great Neck H.S. 100 Maple Dr.
 Lefteris, Peter 17 R.L. Simpson H.S. East Shore Rd., Halettsville
 *Murray, Suzanne Una 17 Kenmore Senior H.S. 169 Knowlton Ave. 17
 *Parker, Barbara Ann 17 Kenmore Senior H.S. 353 Arcone Dr. 23
 *Robinson, Charlotte Marie 16 Kenmore Senior H.S. 196 Wendel Ave. 23
 *Sunner, Marjorie Elizabeth 17 Kenmore Senior H.S. 44 McCorkay Dr. 17
 Vaughn, James Charles 17 Kenmore Senior H.S. 129 Delaware Rd. 17
 *Wakins, Nancy Lee 17 Kenmore Senior H.S. 74 Harding Ave. 17
 Cavell, Richard Joseph 16 W.C. Bryant H.S. 32-08 69th St., Jackson Hts. 77
 *Fox, Evelyn 16 W.C. Bryant H.S. 43-05 63rd St., Woodside 77
 *Jenkins, Barbara 16 W.C. Bryant H.S. 35-21 79th St., Jackson Hts. 72
 Currie, Douglas George 17 Lynbrook H.S. 3 Squirrel Dr., E. Rockaway
 *Fudge, Molly Weston 17 Manlius H.S. RD #1
 Miller, Willis James, Jr. 17 The Manlius School 192 W. Ostrander Ave.,
 Syracuse
 Schiavone, Frank Joseph 17 Newburgh Free Academy 24 Bonkard Ave.
 Cowen, Arthur 18 New Rochelle H.S. 81 Colonial Pl.
 Fried, Jerry Howard 17 New Rochelle H.S. 46 Rockland Pl.
 Gallo, Charles Francis, Jr. 17 New Rochelle H.S. 22 Allard Ave.
 *George, Allaire Ann 17 New Rochelle H.S. 24 Brady Ave.
 Lewis, Donald Joel 17 New Rochelle H.S. 100 Woodlawn Ave.
 Orloff, Leslie Mark 17 New Rochelle H.S. 40 Vaughn Ave.
 Sweedler, Michael Jon 17 New Rochelle H.S. 87 Kingsbury Rd.
 *Ponewczynski, Mary Ann 16 Acad. of Mt. St. Ursula 1148 Clay Ave. 56
 Bobrow, Daniel Curesko 17 Bronx H.S. of Science 104-21 191st St.,
 Hollis 12
 Cohen, Donald Davis 17 Bronx H.S. of Science 520 W. 188th St. 33
 *Diamond, Cora Ann 15 Bronx H.S. of Science 975 Walton Ave. 52
 Kagen, Lawrence 17 Bronx H.S. of Science 124 Ft. George Ave. 33
 Pinski, Gabriel 15 Bronx H.S. of Science 231 W. 92nd St. 25
 *Katala, Eva Irene 16 Evander Childs H.S. 3227 Bainbridge Ave. 67
 Kadantof, Leo Philip 16 De Witt Clinton H.S. 110 Seaman Ave. 34

Weisberg, Jack 17 De Witt Clinton H.S. 2326 Valentine Ave. 58
 McCabe, John Patrick 17 Cardinal Hayes H.S. 531 E. 148th St. 55
 *Blau, Sheila Ann 15 Hunter College H.S. 644 Ocean Parkway, Brooklyn 30
 Cohen, Richard Lewis 16 Elisabeth Irwin H.S. 2028 Mermald Ave.,
 Brooklyn 24
 *Rochkind, Nancy 16 James Monroe H.S. 1590 E. 172nd St. 72
 Storms, Edgar Ernest 17 James Monroe H.S. 960 E. 179th St. 60
 Buxbaum, Paul Joseph 15 Stuyvesant H.S. 73-53 Utopia Parkway, Queens 66
 Chi, Emilie Chungtien 17 Stuyvesant H.S. 315 W. 97th St. 25
 Gelober, Ludwig 17 Stuyvesant H.S. 83-10 35th Ave., Queens 72
 Goldberg, David Arthur 16 Stuyvesant H.S. 465 Crown St., Brooklyn 25
 Korrnuth, Steven Edward 17 Stuyvesant H.S. 3502 Hill Ave. 67
 Rosov, Robert John 17 Stuyvesant H.S. 66-30 64th St., Brooklyn 27
 *Chalfetz, Elaine 16 W.H. Taft H.S. 2720 Grand Concourse 58
 *Manlow, Marcia 17 W.H. Taft H.S. 1280 Sheridan Ave. 56
 Fischer, Josef Elliot 15 Talmudical Academy 47 Balford Pl. 25
 Sharon, Isaac Jacob 16 Talmudical Academy 66 Ft. Washington Ave. 32
 Taub, Robert Norman 16 Talmudical Academy 2867 W. 30th St. 24
 Kroger, Harry, Jr. 16 Richmond Hill H.S. 87-34 95th St., Woodhaven 21
 Knapp, Raymond Wallace 17 Rhinebeck Central H.S. 60 South St.
 Bryce, Donald Hewitt 17 Charlotte H.S. 91 Kingsley Rd. 12
 Singer, Frederick Lawrence 16 South Side H.S. 234 N. Forest Ave.
 *Anderson, Karen Gail 17 Rome Free Academy 154 Riverview Parkway, N.
 *Blum, Doris Gwendolyn 17 Roslyn H.S. 103 Wagon Rd.
 Fritsch, Charles Michael 16 Tottenville H.S. 94 Monticello Terr., S.I. 8
 Smith, William Edward 16 Catholic Central H.S. 17 Oak St., Coboes
 Iacovino, John Arthur 16 T.R. Proctor H.S. Box 152, 205 Cosby Manor Rd.
 *Rosenberg, Beverly Edith 16 Utica Free Academy 1657 Howard Ave. 3
 Dwyer, Jonathan Buckley 15 Stephen H.S. 133 E. Lincoln Ave., Mt. Vernon
 Zombeck, Martin Vincent 16 Roosevelt H.S. 46 Rosstter Ave. 2
 NORTH CAROLINA
 Hogan, Moreland Hellin, Jr. 17 Christ School 240 Mulberry Dr.,
 New Orleans 20, La.
 OHIO
 Fremont
 Kanglaski, Jan, Jr. 17 Ross H.S. 200 1/2 E. State St.
 Petome, Edward Albert 17 Ross H.S. 340 Herster St.
 *Idle, Marian Jane 17 Mansfield Senior H.S. 612 Barnard Ave.
 Caruthers, Peter Ambler 17 Middletown H.S. 500 Euclid St.
 Carleton, Robert Geoffrey 17 Shelby H.S. 37 E. Gaylord St.
 Lindner, Lewis Arthur 17 Devilbiss H.S. 3522 Wyckoffe Parkway 13
 OKLAHOMA
 Walker, Rufus Floyd, Jr. 17 Ada H.S. 220 W. 18th St.
 OREGON
 Corvallis
 *Bonesteale, Barbara Jane 17 Corvallis H.S. 515 N. 34th St.
 Pfund, Kemmer James 17 Gresham Union H.S. 18530 S.E. Yamhill St.,
 Portland 16
 Klamath Falls
 *Frederickson, Lewis Arthur 18 Klamath Union H.S. 202 Washington St.
 Olson, Lloyd Clarence 18 McMinnville H.S. RR #2, Box 136, Dayton
 PENNSYLVANIA
 Allentown
 Bird, Stephen J. 17 Allentown H.S. Star Route
 *La Bold, Diana Lou 17 Allentown H.S. 804 N. 7th St.
 Howells, Roger Alan 17 Parkland H.S. RR #1, Orefield
 Covell, Carl John 17 Lower Merion Senior H.S. 112 Kenilworth Rd., Merion
 Dohan, Curtis Francis, Jr. 17 Lower Merion Senior H.S. 80 Princeton Rd.,
 Bala-Cynwyd
 Ardmore
 Cutler, William Herbert 16 Edgewood H.S. 140 Cherry Valley Rd.,
 Forest Hills, Pittsburgh 21
 Edgewood
 Fry, Edward Fort 17 The Haverford School 229 Glenn Rd., Ardmore
 Haverford

Hershey
Johnstown
Philadelphia

Davies, Kenneth Thomas Reed 18 Milton Hershey School #15 Union, M.H.S.
Karakashian, Stephen 16 Johnstown Central Senior H.S. 446 Franklin St.
Roshon, John Allen 17 Johnstown Central Senior H.S. 1149 Solomon St.
Walter, Henry Franklin 17 Johnstown Central Senior H.S. 305 Highland Ave.
Schelter, Joseph Lawrence, Jr. 17 La Salle H.S. 5 Snowden Rd.,
Bala-Cynwyd

*Harvey, Elizabeth Anne 17 Little Flower Catholic H.S. for Girls
6421 N. Fairhill St. 20
*Walsh, Rosemarie Ann 17 West Philadelphia Catholic Girls H.S.
441 S. 62nd St. 43

Pittsburgh
Red Lion

*Wood, Alice Caroline 17 West View H.S. RR #4, Box 324 9
*Grove, Jo Anne 17 Red Lion H.S. RR #1

SOUTH DAKOTA

Custer

*Price, Sherill Sandra 18 Custer H.S. Custer State Park, Hermosa

TENNESSEE

Nashville

Elliot, Robert Daryl 17 Isaac Litton H.S. 415 Bushnell St. 6

TEXAS

Austin
Denton
El Paso
Monahans

Manuel, Thomas Asbury 17 Austin H.S. 1202 W. 22 1/2 St. 5
Norman, Daniel 17 Austin H.S. 2005 Exposition St.
Carrio, Charles James 17 Denton Senior H.S. 1922 Chestnut St.
Cooley, Clifford Ewing 17 Denton Senior H.S. 900 Egan St.
Flyt, Lewis James 18 Denton Senior H.S. 312 Marietta St.
Stubblefield, Travis Elton 17 Denton Senior H.S. 918 Egan St.
Miller, George Edison, Jr. 17 S.F. Austin H.S. 3100 Douglas St.
*Hall, Patsy Carolyn 16 Monahans H.S. 610 Hayes St.

UTAH

Mt. Pleasant

Hessel, Eugene Andrew, Jr. 16 Wasatch Academy 2717 Forrest Ave.,
Berkeley, California

VIRGINIA

Arlington
Buckingham
Fishersville
Norfolk
Richmond
Salem

Rudolph, Rosser A., Jr. 17 Washington-Lee H.S. 2017 N. Illinois 10
Charlton, Harvey Johnson 18 Buckingham Central H.S. Dithwyn
Desper, Paul Carlton 16 Wilson Memorial H.S. RR #3, Staunton
*Anderson, Margaret Sue 17 Norview H.S. 129 Rodgers Ave. 2
Hayes, James Alvan 17 B.T. Washington H.S. 720 Park Ave. 12
Johnson, Francis Wendell 17 Hermitage H.S. RR #12, Box 246 22
O'Beirne, Kenneth Alvin 18 Andrew Lewis H.S. Baptist Orphanage, Box 190

WASHINGTON

Anacortes
Spokane

McLean, James Frederick 18 Anacortes Senior H.S. 1519 6th St.
Bateman, Terry Spencer 17 Lewis and Clark H.S. W. 135 - 31st Ave. 42
Stover, Robert Franklin 17 Lewis and Clark H.S. S. 3026 Manito Blvd. 36

WEST VIRGINIA

Morgantown
S. Charleston

Anderson, James Bernard 17 Morgantown H.S. 720 Ridgeway Ave.
Hicks, Donald Lee 17 S. Charleston H.S. 4808 Country Club Blvd. 3

WISCONSIN

La Crosse
Madison
Marshfield
Milwaukee
Waukesha
Wisconsin Rapids

Sharp, Terry Earl 17 Central H.S. 211 S. 23rd St.
Brettingen, David Lowell 18 West H.S. 45 S. Meadow Lane 5
Laffey, James Michael Patrick 17 Columbus H.S. 218 Fifth Ave. Antigo
Re Voyt, Jack Ronald 18 Columbus H.S. 211 N. Cedar Ave.
Deysach, Lawrence George 16 Marquette University H.S. 2639 N. 86th St. 10
Schaffter, Rudolph Charles 17 Riverside H.S. 2624 N. Murray Ave. 11
Soulon, Thomas Kay 17 Waukesha H.S. 227 N. James St.
*Pandow, Helen Therese 17 Lincoln H.S. 473 Two Mile Ave.

STATE SCIENCE TALENT SEARCHES

Since 1946 State Science Talent Searches have been held concurrently with the national competition by special arrangement with Science Clubs of America. The organizations sponsoring State Science Searches in 1953 follow with the director of each indicated.

Alabama: Alabama Academy of Science

Dr. James L. Kassner, Prof. of Chemistry, University of Alabama, University
Arkansas: Arkansas Academy of Science

Mr. John A. Dougherty, Institute of Science and Technology, University of Arkansas, Fayetteville

*Connecticut
District of Columbia: Washington Academy of Sciences

Dr. A.T. McPherson, Associate Director, National Bureau of Standards, Washington 25

Georgia: Georgia Academy of Science
Mrs. Helen Camp Richardson, Science Teacher, Bass H.S., 1080 Euclid Ave., N.E., Atlanta

Illinois: Illinois State Academy of Science
Dr. Frank H. Reed, State Geological Survey, Natural Resources Building, Urbana

Indiana: Indiana Academy of Science
Mr. Ralph W. Lellier, Asst. Prof. of Physics and Education, Purdue University, Lafayette

Iowa: Iowa Academy of Science
Dr. F. E. Brown, Professor of Chemistry, Iowa State College, Ames

Kansas: Kansas Academy of Science
Dr. W. J. Baumgartner, Dept. of Zoology, University of Kansas (ret'd)

1209 Ohio St., Lawrence
Louisiana: Louisiana Academy of Sciences
Mrs. A.S. Gates, Science Teacher, Baton Rouge High School, Baton Rouge

*Maine
*Massachusetts
Michigan: Michigan Academy of Sciences, Arts, and Letters

Dr. C. N. McCarty, Department of Chemistry, Michigan State College, East Lansing

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

Montana: Montana State College
Mr. Adrien L. Hess, Asst. Prof. of Mathematics, Montana State College, Bozeman

*New Hampshire
Pennsylvania: Pennsylvania Academy of Science
Dr. Robert B. Gordon, State Teachers College, West Chester

*Rhode Island
South Carolina: South Carolina Academy of Science
Mr. W. H. Ward, Dir., Extension Division, University of South Carolina, Columbia 1

South Dakota: South Dakota Academy of Science
Dr. Elmer R. Johnson, Assoc. Prof. of Chemistry, South Dakota State College, Brookings

Tennessee: Tennessee Academy of Science
Mr. James L. Major, Chemistry and Physics teacher, Clarksville H.S., Clarksville

Texas: Texas Academy of Science
Mr. Wayne Taylor, Science Teacher, Denton H.S., Denton

*Vermont
Virginia: Virginia Academy of Science

Dr. Edward R. Dyer, Jr., Prof. of Astronomy, University of Virginia, Charlottesville

West Virginia: West Virginia Academy of Science
Dr. S. Benton Talbot, Dept. of Biology, Davis and Elkins College, Elkins

Wisconsin: Wisconsin Academy of Sciences, Arts, and Letters
Dr. S. F. Darling, Prof. of Chemistry, Lawrence College, Appleton

*New England (all six New England States included): New England Science Council
Dr. Fletcher G. Watson, Assoc. Prof., Graduate School of Education,

Harvard University, Lawrence Hall, Kirkland St., Cambridge 38, Mass.

THE BEST WAY TO KEEP INFORMED ON THE SCIENCE
TALENT SEARCH IS TO BELONG TO SCIENCE CLUBS OF AMERICA

Rules and Regulations

THE TWELFTH ANNUAL SCIENCE TALENT SEARCH CONDUCTED BY SCIENCE CLUBS OF AMERICA, FOR THE WESTINGHOUSE SCOLARSHIPS

ELIGIBILITY

Any boy or girl who is in his last year in an accredited secondary school (public, private, parochial) in continental United States, who is expected by the certifying school official to complete college entrance qualifications before October 1, 1933, and who has not competed in any previous Science Talent Search is eligible to enter this competition.

Age—There are no age limits in this competition.

Science Clubs of America—It is not necessary to be a member of Science Clubs of America to enter this competition, although creative activity in a science club will aid a contestant's record.

REQUIREMENTS

Each completed entry in the Science Talent Search must consist of these three:

1. A completed science aptitude examination, certified by student and teacher.
 2. A personal data blank and secondary school record, filled out by the teachers and principal.
 3. A report of about 1,000 words on "My Scientific Project," by the student. It should tell what the contestant is doing or plans to do in science in the way of experimentation or other research activity. It should be original, creative and interpretive in character.
- Science Talent Search science aptitude examinations and personal data—secondary school record blanks are furnished free of charge to any school official who requests them and who pledges to administer them in accordance with instructions.

Each contestant must take the Science Talent Search examination administered in his school on or after Monday, December 8, 1932.

All entries must reach the office of Science Clubs of America, 1719 N Street, N.W., Washington 6, D. C., not later than midnight, Saturday, December 27, 1932.

AWARDS

Forty contestants with highest talent as judged by a judging committee on the basis of Science Talent Search examination, scholastic and personal records, reports and any other information assembled by the judges, will be awarded invitations to the Science Talent Institute and all-expense trips (transportation, hotel and other arranged expenses paid) to the place the Institute is to be held, and return. It is planned to hold the Science Talent Institute February 26-March 2, 1933, at Washington, D. C., unless in the judgment of Science Service is should be held elsewhere or at another time. All contestants invited to the Science Talent Institute will receive the Gold Emblem of Science Clubs of America.

One contestant coming to the Science Talent Institute will be selected by a board of judges to receive a four-year Westinghouse Grand Science Scholarship of \$2,800 (\$700 per year). An alternate will be named.

Another contestant coming to the Science Talent Institute will be selected by a board of judges to receive a four-year Westinghouse Grand Science Scholarship of \$2,000 (\$500 per year). An alternate will be named.

Eight additional contestants coming to the Science Talent Institute will be selected by a board of judges to receive four-year Westinghouse Scholarships of \$400 each (\$100 per year). Three alternates will be named.

Additional Westinghouse Scholarship awards totaling \$3,000 will be awarded at the discretion of the judges.

Honorable mentions will be awarded.

Committees of judges designated by Science Service will judge the entries, and the decision of these judges shall be final in all cases.

Conditions of Scholarships

Each scholarship may be applied toward a course in science or engineering at a degree-granting institution of higher education selected by the winner and approved by a Scholarship Committee named by Science Service. Science and engineering courses that may be pursued are those encompassed in the fields of activity of the National Academy of Sciences and the National Research Council.

Should any winner be unable for any reason to enter upon the use of a scholarship, the highest ranking alternate named by the judges shall become entitled to receive it under the same conditions as applicable to the original winner and the original winner shall thereupon have no further rights in the scholarship.

The use of a scholarship shall begin within a year of the date of award.

One-half of each year's scholarship will be paid at the time of entering upon each year's college work and one-half at the middle of each collegiate year, but payments may be accelerated at the discretion of the Scholarship Committee. In the event that the holder withdraws from collegiate work, or if continued use of the scholarship award is disapproved by the Scholarship Committee upon report from the college that progress is deemed unsatisfactory to the college, the right of the scholarship holder to receive any further payments shall be forthwith terminated.

The approval or disapproval and decision of the Scholarship Committee shall in all its respects be final.