

GENERAL SCIENCE

Scientists of the Future

Winners of Thirteenth Annual Science Talent Search announced. Eight girls and 32 boys will come to Washington to compete in the finals for scholarships totaling \$11,000.

► THE 40 most promising young scientists in America's high schools have just been selected in the Thirteenth Annual Science Talent Search. The winners—eight girls and 32 boys—have been invited to Washington for a five-day all-expenses-paid visit Feb. 25 through March 1.

They will participate in the Science Talent Institute and compete for \$11,000 in Westinghouse Science Scholarships in the finals of the Science Talent Search conducted by Science Clubs of America, administered by SCIENCE SERVICE.

Nation-Wide Competition

The 40 trip winners, 15 to 17 years of age, were chosen by a panel of judges after a nation-wide competition in which top-ranking seniors in all the public, parochial and private schools in the continental United States were invited to participate.

Entrants, representing every state in the Union and the District of Columbia, totaled 16,344, of whom 2,409 completed the stiff science aptitude examination (see p. 74), submitted recommendations and scholarship records, and wrote a report on "My Scientific Project."

At the end of the winners' five-day stay, Feb. 25 through March 1, the judges will award the scholarships. One boy or girl will receive the \$2,800 Westinghouse Grand Science Scholarship (\$700 per year for four years). The runner-up will receive a \$2,000 Westinghouse Science Scholarship.

Westinghouse Science Scholarships, ranging in size from \$100 to \$400 and bringing the total to \$11,000, will be awarded at the discretion of the judges to the rest of the winners.

The scholarships may be used at any college, university or technical school of the winners' choice so that they may continue their training in science or engineering.

Many Areas Represented

Chosen without regard to geographic distribution, the 40 trip winners come from 32 cities in 18 states and the District of Columbia. Two of the states represented, Kentucky and Mississippi, never have had a winner in a previous Search. States represented by winners since 1942 now total 42.

Four high schools in the United States have produced more than one winner this year. Evanston (Ill.) Township High School will send two girls and one boy. Erasmus Hall High School and Midwood High School, both of Brooklyn, N. Y., will send one boy and one girl each. Two boys will

come from the Bronx High School of Science in New York City.

Fifteen of the winners this year come from schools that have never before placed winners in the annual Science Talent Search. The other 25 added new laurels to schools already honored in the past by having produced winners. Each school having a winner receives a bronze and walnut plaque to add to the school's trophy collection.

The honor of being all-time top-producer of winners goes to the Bronx High School of Science in New York City. Their 13-year total is 18 winners. Close behind is Forest Hills (N. Y.) High School with 17 winners—a total that only one other school in the USA can match.

Evanston (Ill.) Township High School, the only school in the country to produce two previous winners of Westinghouse Grand Science Scholarships, adds three winners this year to bring to eight its total for the 13-year period.

Three Brooklyn (N. Y.) schools have upped their total of winners. Brooklyn Technical High School to eight; Midwood High School to eight; and Erasmus Hall High School to six.

Five winners each have been produced in the past 13 years by: North Phoenix (Ariz.) High School and New Brunswick (N. J.) High School.

Diversified Backgrounds

Three winners have been named from Springfield (Ore.) High School. Two each have come from Webb School of California, Claremont, Calif.; Woodrow Wilson High School, Washington, D. C.; Rochester (Minn.) Senior High School; Benjamin Bosse High School, Evansville, Ind.; Nyack (N. Y.) High School; Monroe High School, Rochester, N. Y.; Troy (N. Y.); High School; Classen High School, Oklahoma City, Okla.; Salem (Ore.) Senior High School; Lebanon (Pa.) High School; South Charleston (W. Va.) High School.

All of the winners live at home and attend their local or nearby public, parochial or private secondary schools.

More than 58% of the Science Talent Search trip winners rank first, second or third in their graduating classes, which range in size from 29 to 1,040 students. Exactly 55% of the winners' fathers and 40% of their mothers attended college. A number have parents who were born or educated abroad. Two-thirds of the winners claim no scientists among their relatives, the others have one or more scientists among their close or distant relatives.

Contrary to a frequent conception about scientists, the winners are not interested in science only. While most of them spend much of their spare time in science pursuits such as science clubs and individual hobbies of a scientific nature, all of them have participated in varied extracurricular interests such as music, athletics, journalism and dramatics, and all belong to social and educational organizations outside their school work.

Many of the top 40 have already chosen the lines of study they wish to pursue. Physics and mathematics attract seven each, while six lean toward careers in engineering and four intend to study chemistry. Others plan careers in medicine, geology, astronomy, biochemistry, biology, archaeology, botany and scientific journalism.

Previous Winners Succeed

Records show that 93% of those chosen in the first six years (1942-1947) of the Science Talent Search are now science trained. Most of these 240 have their bachelor's degree; 64 have a master's degree and 42 have a M.D., Ph.D. or D.Sc. degree. Slightly over half of them have full time research jobs in industry, government or in universities and colleges. Sixteen are at present in military service.

Their scholastic accomplishments are vouched for by the fact that 75 are mem-



RADIATION BARRIER — This plastic, balloon-like suit provides a protective barrier against radiation in "hot" areas to permit examination and maintenance work in such places. The flexible plastic tunnel leading from the suit to wall entrance port provides air, and is inflated because air inside is at a lower pressure than outside.

bers of Phi Beta Kappa (scholarship); 27 in Tau Beta Pi (engineering) and 71 have been elected to Sigma Xi, (science research). Papers of importance have been published by 62 in journals concerned with their field of work. At present 104 of the 240 are married and have a total of 65 children. Twenty-two of the women who were winners now devote full time to homemaking and child care.

Honorable Mentions Awards

In addition to the 40 trip winners, who will attend the Science Talent Institute in Washington, an Honorable Mentions list of 260 in the Thirteenth Annual Science Talent Search will be announced Feb. 4. These high ranking contestants will be recommended to colleges and universities for their aptitude in science.

If they are as fortunate as those previously included in the Honorable Mentions list, they will receive offers of scholarships from many institutions of higher education seeking students with talent in science.

State Talent Searches

Through an arrangement with Science Clubs of America 25 states and the District of Columbia are conducting state Science Talent Searches concurrently with the national competition. Nine of them have produced winners this year. In these 26 areas all entries in the national Science Talent Search will be turned over to state judging committees.

From their entries they will choose state winners and award scholarships to various colleges and universities within the state. Cooperating states are : Alabama, Arkansas, Connecticut, District of Columbia, Georgia, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia and Wisconsin.

The Annual Science Talent Search is conducted by Science Clubs of America, administered by SCIENCE SERVICE. Scholarships are provided and the Science Talent Search made financially possible by the Westinghouse Educational Foundation, an organization endowed by the Westinghouse Electric Corporation, for the purpose of promoting education and science.

Science Clubs of America is the international organization for science groups, in schools and out. Today more than 15,000 clubs are affiliated here and abroad, with a membership of more than one-third of a million young people. All are encouraged to participate in the Search and the National Science Fair.

Complete details of the national and the 26 State Science Searches are available from Science Clubs of America, 1719 N St., N.W., Washington 6, D. C.

Science News Letter, January 30, 1954

Actual elimination of *tuberculosis* from the world is a foreseeable possibility, UNESCO reports.

GENERAL SCIENCE

STS Winners Selected

* Indicates girls

H. S. indicates High School

Phoenix

*Lee, Susan Huderle 16 North Phoenix H. S.

Bakersfield Claremont

ARIZONA
Egger, Maurice David 17 Bakersfield H. S.
Muffler, Leroy John Patrick 16 Webb School of California

Fairfield Westport

CALIFORNIA
CONNECTIONICUT
Izzarelli, Anthony William 17 Fairfield College Prep.
Wolk, Coleman Peter 17 Staples H. S.

Washington

DISTRICT OF COLUMBIA
*Kreek, Mary Jeanne 16 Woodrow Wilson H. S.

Evanston

ILLINOIS
*Gansz, Carol Jean 17 Evanston Township H. S.
*Rountree, Janet Caryl 16 Evanston Township H. S.
Ward, Harold Nathaniel 17 Evanston Township H. S.

Evansville

INDIANA
Scherer, Kirby Vaughn, Jr. 17 Benjamin Bosse H. S.

Middletown

KENTUCKY
Hayward, Gary Gillette 17 Eastern H. S.

Baltimore Bethesda

MARYLAND
Schmidt, Victor Adolf 17 Milford Mill H. S.
Haught, Alan Frederic 17 Bethesda-Chevy Chase H. S.

Minneapolis Rochester

MINNESOTA
Scanlon, Edward Patrick 17 DeLaSalle H. S.
Stroebel, Charles Frederick 17 Rochester Senior H. S.

Greenwood

MISSISSIPPI
Cooper, William Samuel, Jr. 17 Greenwood H. S.

Dover

NEW HAMPSHIRE
Dade, Everett Clarence 16 Dover H. S.

New Brunswick Nutley

NEW JERSEY
Rodden, Robert James 17 New Brunswick H. S.
French, Bevan Meredith 16 Nutley H. S.

Brooklyn

NEW YORK
Brumer, Armand 15 Boys H. S.
Phillips, William 16 Brooklyn Technical H. S.
*Burlant, Marguerite 16 Erasmus Hall H. S.
Levy, Richard Jay 16 Erasmus Hall H. S.
Bumby, Richard Thomas 16 Midwood H. S.
*Landisman, Laurel Sydney 17 Midwood H. S.
Hoff, Marcian Edward, Jr. 16 Churchville-Chili Central School
Stillman, Richard Comstock 16 Forest Hills H. S.
Baum, Paul Frank 17 Bronx H. S. of Science
Sandy, Frank 17 Bronx H. S. of Science
Davidson, Eric Harris 16 Nyack H. S.
*Merchant, Carolyn 17 Monroe H. S.
Carragan, William Dillard 16 Troy H. S.

Churchville Forest Hills New York

Nyack Rochester Troy

Oklahoma City

OKLAHOMA
Tech, Jack Laurence 17 Classen H. S.

Salem Springfield

OREGON
Crothers, Donald Morris 17 Salem Senior H. S.
Simons, David Ralph 17 Springfield H. S.

Allentown Lebanon

PENNSYLVANIA
*Oberly, Lorraine Theresa 17 Parkland H. S.
Seltzer, James Edward 17 Lebanon H. S.

Wichita Falls

TEXAS
Cyprus, Joel Howard 17 Wichita Falls Senior H. S.

Kirkland

WASHINGTON
Fiddler, Richard Walter 17 Lake Washington H. S.

South Charleston

WEST VIRGINIA
Berry, George Belmont, Jr. 17 South Charleston H. S.