

GENERAL SCIENCE

Top Scholarship Increased

Most promising young scientist with research ability in the Eighth Annual Science Talent Search will receive \$2,800. Total of \$11,000 in scholarships will be awarded.

➤ A HIGH SCHOOL senior will be named in 1949 as the most promising young scientist with research ability in America and will receive a scholarship of \$2,800 to continue his education.

This increased top scholarship in the Eighth Annual Science Talent Search for the Westinghouse Science Scholarships was announced by Watson Davis, director of Science Service, which administers the Science Talent Search annually through Science Clubs of America.

This \$2,800 Westinghouse Grand Science Scholarship is the largest ever given in the annual Science Talent Search. Thirty-nine other Westinghouse Science Scholarships ranging in size from \$100 to \$2,000 will also be awarded. This makes a total of \$11,000 in scholarships for seniors in public, private and parochial secondary schools throughout the United States. The competition is now open and will close midnight, December 27, 1948.

Preparing for Entry

Boys and girls, planning to compete in the Eighth Annual Science Talent Search, are already beginning serious preparation of their entries. They must take a three-hour science aptitude examination in their home school, submit scholastic records and recommendations and write an essay of about 1,000 words on "My Scientific Project." The latter requirement will take up much of the leisure time of thousands of 'teen agers this summer as they plan and carry through their experiments and research in libraries, workshops, laboratories and out of doors. Since projects may cover any phase of science they will range through the whole gamut of science from aeronautics to zoology.

Approximately 16,000 high school seniors are expected to enter the Eighth Annual Science Talent Search. About 3,500 will complete the rigid requirements. From these, 300 will be selected by the judges and named for Honorable Mention. All will be recommended to the colleges, universities or technical schools of their choice and are assured offers of financial assistance for further study from institutions seeking students

of outstanding science ability.

The top 40 boys and girls will be invited to Washington, D. C. for the five-day Science Talent Institute next spring. They will meet and talk with nationally known scientists, visit places of scientific interest and learn of new developments in science. At the end of the five days the judges will announce the winners of Westinghouse Science Scholarships ranging from \$100 to \$2,000 and will name the best young scientist in the United States to receive the Westinghouse Grand Science Scholarship of \$2,800. The 40 winners may use their Westinghouse Scholarships at any college, university or technical school they choose.

States Hold Competitions

High school seniors in some states will have a double chance to win scholarships through state Science Talent Searches run concurrently with the national competition and by special arrangement between Academies of Science and Science Clubs of America. Eleven states carried out this plan in 1948 and two more will be added for the Eighth Annual Science Talent Search. States which now hold competitions are Alabama, Georgia, Illinois, Indiana, Iowa, Louisiana, Minnesota, Montana, Pennsylvania, Tennessee, and Virginia. For the Eighth Science Talent Search, Michigan and Wisconsin will also participate.

The judges of the Science Talent Search are: Dr. Harlow Shapley, director of the Harvard College Observatory and president of Science Service; Dr. Rex E. Buxton, Washington psychiatrist; Dr. Harold A. Edgerton, vice president of Richardson, Bellows, Henry & Co.; and Dr. Stuart H. Britt, manager of Research and Merchandising, McCann-Erickson, Inc. The latter two have designed the science aptitude examination for the annual Science Talent Searches.

The Science Talent Search is conducted by Science Clubs of America, administered by Science Service. It is made financially possible by the Westinghouse Educational Foundation of the Westinghouse Electric Corporation.

Science News Letter, June 12, 1948



GIANT TRANSFORMER—Rated at 110,000 kilovolt-amperes, this powerful machine can handle enough power to fill all the electrical needs of an average city of 200,000 persons.

ELECTRONICS

New 140-Ton Transformer Will Be in Operation Soon

➤ A GIANT electrical transformer, claimed to be the most powerful ever built in this country and capable of turning out 150,000 horsepower of electrical energy, will soon be at work in a steam generating station of the Buffalo Niagara Electric corporation, it was revealed.

The transformer, which weighs 142 tons, was built by Westinghouse Electric Corporation, and is featured by its so-called form-fit tank design. This new type of design decreases the weight by about 20% of what would be necessary in older designs. It is rectangular in shape, and closely fits the core and coil assembly.

The giant will be used to take power at 13,200 volts and build up this voltage to 115,000 volts to be fed into the systems transmission network. The great heat generated in the core and coils will be removed by an oil-cooling system in which the oil itself is cooled by circulating air forced through the radiators by propeller-like fans.

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The *Caddo Indian* linguistic stock was probably the most used in what is now Oklahoma when white men first visited the region.