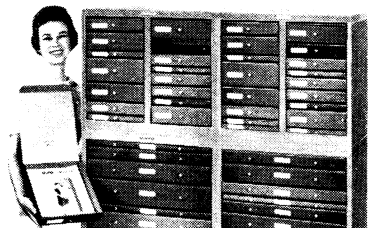


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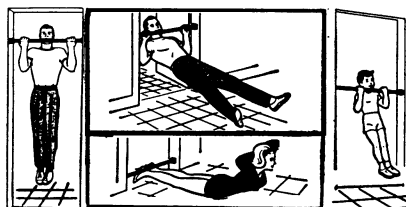
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the number of significant jumps in understanding peaks 20 to 30 years before the innovation. For example, the bulk of experiments in reproductive physiology, hormone research and steroid chemistry that lie behind development of oral contraceptives were performed between 1930 and 1940, though at the time no one was actually aiming

toward a birth control pill.

"Innovations for the next generations depend on today's nonmission research," the study concludes, calling for greater Federal expenditures. "If the increase in sophistication is to be maintained, the breadth and depth of research to be supported must also be increased.

TALENT SEARCH

Then there were forty

Forty of the nation's most scientifically acute young people have emerged at the top of the 28th annual Science Talent Search, sponsored by Westinghouse Electric Corporation and administered by Science Service.

The 29 male and 11 female high school students will share \$67,500 in scholarships and awards and an all-expenses-paid trip to Washington, D.C., where 10 of them will receive four-year Westinghouse Science Scholarships totaling \$60,000. The remaining 30 will receive Westinghouse Science Awards of \$250 each. The 10 scholarships consist of one of \$10,000, two of \$8,000, three of \$6,000 and four of \$4,000.

The 40 students, high school seniors ranging in age from 16 to 18, were picked by the judges and evaluators from among 21,951 contestants, of whom 2,361 qualified for final selection by taking a science aptitude examination, obtaining recommendations and writing a report on their science projects. The projects were in fields including biology, chemistry, physics, astronomy and mathematics and ranged from the role of X-rays in dentistry to a study of the evolution of the universe and the influence of extreme cold on amplifier circuits with special micro-electronic components.

The Science Talent Search is designed to discover and develop scientific ability among high school seniors and is conducted annually for the Westinghouse Science Scholarships and Awards by the Science Clubs of America.

The 40 finalists, by state:

• Alabama—Andrea Jane Yates, Austin High School, Decatur.

• California—William Francis Gannon III, Albany H.S., Albany; Lynne Dianne Calónico, Presentation H.S., Berkeley; J. Edward Jackson III, John F. Kennedy H.S., Richmond, and Allan Dale Pekary, Santa Monica H.S., Santa Monica.

• Florida—John Douglas Whittaker, Nova H.S., Fort Lauderdale and William Thomas Mason III, and Christopher Dean Patrinely of Terry Parker H.S., Jacksonville.

• Idaho—Jennie Marie Orr, Coeur

D'Alene Senior H.S., Cour D'Alene.

• Illinois—Richard Norman Weinberg, Bowen H.S., Chicago; Howard Mark Lederman, Roger C. Sullivan H.S., Chicago, and Leslie Robert Cohen of Niles Township H.S. North, and Willy C. Shih of Niles Township H.S., West, Skokie.

• Indiana—James Oscar Scamahorn, Brebeuf Jesuit Preparatory School, Indianapolis.

• Maryland—Justin Craig Schaffert, Springbrook H.S., Silver Spring.

• Massachusetts—Paul Whiting Maloney, North Quincy H.S., North Quincy.

• New Jersey—David Allan Wright, Pascack Valley H.S., Hillsdale.

• New York—Claude A. Raifaizen, Bayside H.S., Bayside; Demetrio Mena Jr., Thomas Jefferson H.S., Brooklyn; Jason Hsu, Forest Hills H.S., Forest Hills; Jeffrey Lawrence Hawryluk, Jamaica H.S., Jamaica; Bret Berner and Barbara Jean Rosenberg of Bronx H.S. of Science, New York; Lida Joan Morawetz, Hunter College H.S., New York; Marilyn Ann Finn, Mother Cabrini H.S., New York, and Robert Joseph Cava, Martin Van Buren H.S., Queens Village.

• Ohio—Anna Tsing Lowenhaupt, Walnut Hills H.S., Cincinnati, and Jill Ann Markwood, Lancaster H.S., Lancaster.

• Oklahoma—Clarence Lapierce Wiley, Manual H.S., Muskogee.

• Pennsylvania—Barbara Ann Bar-on, Haverford Township H.S., Haverford; James Allen Isenberg, Plymouth-Whitemarsh H.S., Plymouth Meeting, and Michael Avery Kearney, Washington H.S., Washington.

• Texas—Gary Ray Rylander, Stephen Austin H.S., Austin; Lane Palmer Hughston, Hillcrest H.S., Dallas; Gordon James Freeman, Arlington Heights H.S., Fort Worth, and Lane Allen Fusilier, Stephen F. Austin H.S., Port Arthur.

• Virginia—Jack Richard Woodside Jr., W.T. Woodson H.S., Fairfax; Joseph Bell Jordan Jr., McLean H.S., McLean, and Susan Irene Bromberg, Churchland H.S., Portsmouth.

• Washington—Bonnie Gale Cardwell, Joel E. Ferris H.S., Spokane. ◇

