

## ENGINEERING

# Modern Roads are Threat

MANY ROADS and highways traveled today by drivers of fashionable low-slung cars pose a safety threat in the form of reduced visibility.

Today the average driver's eyes are less than four feet above the pavement, Clyde E. Lee, assistant professor of civil engineering at the University of Texas, told the Highway Research Board meeting in Washington, D. C.

But many well-traveled roads have been designed by highway experts using the 4.5 feet previously recommended as the average height of the driver's eyes above the pavement.

The threat to motorist safety can be corrected through minor changes in road design if the designer recognizes that drivers' eyes are not as high as they used to be, Mr. Lee said.

K. A. Stonex, assistant director of General Motors Proving Grounds, Milford, Mich., suggested guard rails be eliminated where possible to improve new highway safety.

He also suggested the side slopes be gentle, smooth and clear of obstacles, and be built of firm material.

To cut down chances for bad skids, fine bituminous mixtures can be given a sand additive. Profs. Jack E. Stephens of the University of Connecticut and William H.

Goetz of Purdue University reported that mixtures made with sand having rounded particles gave the best overall anti-skid performances. Mixtures made with sand having particles with sharp points at first gave higher skid resistance, but these sharp edges soon wore off.

Science News Letter, February 20, 1960

## GENERAL SCIENCE

## Reference Citations In Science News Letter

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## GENERAL SCIENCE

# New Schools Win in STS

EIGHTEEN high schools scattered across the country have joined the distinguished ranks of those that have produced top winners in the Science Talent Search.

First-time schools placing winners in the 19th Science Talent Search are: Hall High School, Little Rock, Ark.; Helix High School, La Mesa, Calif.; Stamford, Conn., High School; Coral Gables, Fla., High School; Gainesville, Fla., High School; Marywood School, Evanston, Ill.; Winchester, Mass., High School; St. James, Minn., High School; St. Louis Park, Minn., High School; Carthage, Mo., High School; A. L. Johnson Regional High School, Clark, N. J.; Lawrenceville, N. J., School; Patchogue, N. Y., Senior High School; Martin Van Buren High School, Queens Village, N. Y.; Kenmore East Senior High School, Tonawanda, N. Y.; Chapel Hill, N. C., High School; Central Catholic High School, Allentown, Pa.; Spring Branch Senior High School, Houston, Tex.

Among the schools producing winners this year, the leader in total winners during the 19 years of the Science Talent Search for the Westinghouse Science Scholarships and Awards is Bronx High School of Science, New York, with 22 top winners. Another New York school, Stuyvesant High School, is second with 20 winners.

Evanston Township High School, Evanston, Ill., and Erasmus Hall High School, Brooklyn, N. Y., are tied with totals of 14.

Midwood High School, Brooklyn, N. Y., now has placed 13. Six consecutive winners are credited to Columbus High School of Marshfield, Wis. Over the years, North Phoenix High School, Phoenix, Ariz., and Newton High School, Newtonville, Mass., have produced six winners each.

Tied with five each are Princeton, N. J., High School and University High School, Bloomington, Ind., followed closely by another tie between Tucson, Ariz., High School and Woodrow Wilson High School, Washington, D. C., which have had four winners each.

Benjamin Bosse High School of Evansville, Ind.; Classen High School, Oklahoma City, and Stonewall Jackson High School, Charleston, W. Va., each have three winners now. Two winners each have come from Fairfax High School, Los Angeles; East Senior High School, Rockford, Ill.; Technical High School, Springfield, Mass.; Croton-Harmon High School, Croton-on-Hudson, N. Y.; Newport News, Va., High School; and St. Mary High School, Cheyenne, Wyo.

See SNL, 77; 86, Feb. 6, 1960.

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