



**WINNER'S RIBBON . . .** Roger Spencer, 9, displays his winner's ribbon after his model car won the annual Cub Scout Pinewood Derby. Looking on are his brother, David, and his father, Don Spencer. The father used his skills and colleagues at the Aerospace research lab to help achieve the victory.

## Aerodynamics Lab And Icebox Help Boy Score Win

Take an icebox, a model racing car, a 9-year-old boy, and the staff of an aerodynamics and propulsion laboratory, and you've got a winning combination.

"My sons, Roger and David, have been entering the Cub Scout Pinewood Derby for the past couple of years," explains Don Spencer, 5028 Steveann St. "This year we were determined to win."

Spencer, who heads the experimental fluid mechanics section of the aerodynamics and propulsion research lab of Aerospace Corp., explained that the process all begins with a block of wood.

**THE BOYS** and their father whittled the wood into the shape of a racing car about seven inches long and added wheels. Spencer brought his lab skills into use on the problem.

There was a five-ounce limitation on entries, so he brought the models up to the full five-ounce weight by drilling holes into the widest part of the base and filling them with lead. Since the cars were placed on tracks on a ramp, the full weight gives a higher speed on the straightway of the track.

**THE LEAD** was put in at the highest point of the car as it was placed on the incline, and the wheels were lubricated with graphite.

Spencer then turned to his colleagues at the Aerospace lab for more angles. One suggested bending the wheels so one of them didn't touch the ground. That was done.

Another came up with the topper. Since air resistance reduces speed, he suggested that some way be found to reduce the viscosity of the air around the Spencer racers.

**BY MAKING** the air flowing around the cars "thinner" than the air around the other cars, the Spencer cars would act like they were "traveling through water while the others were going through molasses." Since air is "thinner" when it is cooler, the Spencer racers

were placed in the icebox for 10 minutes before the race.

**ON THE BIG day**, the Spencer cars survived the elimination rounds and were finally pitted against each other. Roger won the race when David's car was disqualified when one of the wheels fell off.

Spencer explained that he loosened one of the joints when he bent the wheel on David's car.

And now that the victory has been won, Aerospace Lab has returned to the more mundane tasks of propulsion, energy conversion, and fluid dynamics.

### McMaster Senior Citizens Meet

McMaster Park Senior Citizens Club will hold a potluck supper at McMasters Park tomorrow at 7:30 p.m.

Slides of the recent White Elephant Sale, taken by Kent Cole, will be shown, and dancing is planned after the supper. All club members and friends are invited.

## Senator Kuchel Speech Studied by Commission

Sen. Thomas H. Kuchel of California is being considered for a Freedoms Foundation award in recognition of the speech to the California American Legion Convention in which he declared "communism respects strength, not weakness."

The senior California senator for copies of his talk at the Fresno veterans' session June 28 for appraisal by its 1962 awards jury. Two former presidents are honorary heads of the organization, Herbert Hoover as honorary president and Dwight Eisenhower as honorary chairman.

The Freedoms Foundation at Valley Forge, which annually issues citations for patriotic writings, drawings, sermons and programs, has asked

The Kuchel speech, entitled "A Strong America Shall Remain Free," reminded Americans that "the price of free-

dom is not, and never has been, cheap." The California lawmaker rejected the idea of unilateral disarmament, endorsed resumption of nuclear weapons tests, reiterated his opposition to recognition of Red China, and pledged continuing support for the North Atlantic Treaty Organization.

In his appearance at the Legion convention, Kuchel said "time is on the side of freedom in this long, dreary struggle . . . with communism."

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**THEATER PACT . . .** Signing agreement to construct a United Artists theater on the Airport Plaza Shopping Center at Crenshaw Boulevard and Pacific Coast Highway are United Artists officials and developers of the center. From left are C. C. Wilmot, treasurer, Airport Plaza, Inc.; S. M. Hassanein, and A. E. Bollengier, United Artists vice presidents; and George L. Graziadio Jr., president of Golden State Properties, Inc., parent company of Airport Plaza, Inc.

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