

**PROBLEM**—You are designing a cabinet-type oil heater. The oil and air metering valve has to be placed at the bottom. You now want to provide a manual control for the valve located on the cabinet front where it is easy to see and to operate. How would you do it?

**THE SIMPLE ANSWER**—Use an S.S.White remote control flexible shaft to connect the dial to the valve or to a rod running to the valve. The latter method was used in the heater illustrated below. The flexible shaft will provide smooth, sensitive control and will allow you to put the dial anywhere you want it.

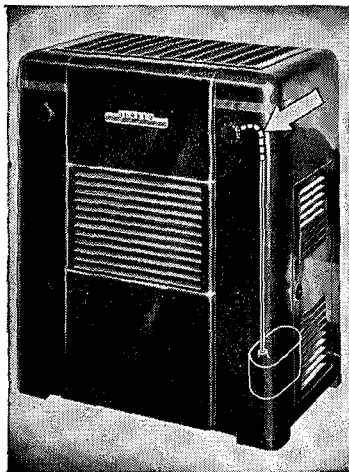


Photo courtesy of Quaker Mfg. Co., Chicago, Ill.

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This is just one of hundreds of power drive and remote control problems to which S.S.White flexible shafts are the simple answer. That's why every engineer should be familiar with the range and scope of these "Metal Muscles" for mechanical bodies.

\*Trademark Reg. U.S. Pat. Off and elsewhere

WRITE FOR BULLETIN 5008

It gives essential facts and engineering data about flexible shafts and their application. A copy is yours free for asking. Write today.



**THE S.S. White INDUSTRIAL DIVISION**  
**DENTAL MFG. CO.**



Dept. C, 10 East 40th St.  
 NEW YORK 16, N. Y.

## Membership

ON JANUARY 1, 1952 membership in the Caltech Alumni Association had reached an all-time high of 2575. The figure represents 44% of the total number of alumni eligible for membership.

By way of comparison, at this time last year the Alumni Association had 2300 members—or 40% of those eligible. The past year has not only seen an increase in the number of members but in the percentage of those eligible for membership as well. From 1945 to 1951 the percentage of those eligible was dropping steadily. In 1951-52, however, this downward trend has been reversed.

## Washington Chapter Meeting

PRESIDENT LEE A. DUBRIDGE will address the Washington, D. C., Chapter of the Caltech Alumni Association at a meeting to be held on February 1 in the Red Room of the 2400 Hotel in Washington. Reservations may be made with Charles Cutler, Secretary-Treasurer of the Chapter. His address: Kirkland, Fleming, Green, Martin and Ellis, 16th and K Streets, N.W. Phone Sterling 3200.

## Sacramento Chapter Meeting

THE SACRAMENTO CHAPTER of the Caltech Alumni Association gathered at the home of George Fleming for an evening meeting on December 8, 1951, at which Captain James Deyr, U. S. Air Force, showed pictures taken by himself in Japan and Korea. Present were: Paul Jurach and (with their wives) Tracy Atherton, John Bailey, William Berry, George Fleming, Gunner Gramatky, Fred Groat, Howard Hopson, Wayne MacRostie, Henry Nies, Edgar Price, Richard Silberstein, and W. Layton Stanton.

The Sacramento Chapter also has a regular monthly informal luncheon meeting which all alumni are cordially invited to attend.

Time: Noon, the first Friday of each month.

Place: University Club.

—Richard Silberstein '41  
 Secretary-Treasurer

## Alumni Dinner Dance

THE ALUMNI ASSOCIATION holds its 16th Annual Dinner Dance on Saturday, February 9, at the Oakmont Country Club. Laverne Boyer and his Orchestra are supplying the music. Dinner's at 8, dancing at 9. Reservations should be in at the Alumni Office at Caltech by February 4. Dinner is \$3.50 per person. Charge for the dance is \$1 per person. These charges include tax and tips.