THE BEAVER

Some Notes on Student Life

Straw Vote

SHORTLY BEFORE THEIR final exams, Caltech seniors taking History 5—the required senior course in public affairs—were presented with sample ballots to discover their preferences among the present presidential hopefuls. The results were as follows:

19	
17	
4	·
4	
2	
2	
0	
0	
0	
2	(write-ins)
	17 4 2 2 0 0 0 0

As for the candidate preferred as the Republican nominee—with the voting restricted to a Taft-Eisenhower choice, the results were conclusive:

Eiser	hower	68
Taft		4

Possible pairs of November opponents received the following votes:

Republican			Democrat	
Eisenhower	66	vs. Kefauver	14	
Warren	65	Kefauver		
Taft		Kefauver	55	
Warren	63	Stevenson	15	
Taft	2 0	Stevenson	59	

The eighty men who voted constitute about one-half the senior class. If we assume they are representative of the other half, and if we further assume that their four years here have been as enlightening as the Division of Humanities has, on other occasions, claimed—then we can be certain that Ike's the man. At any rate, these results illustrate the maxim that elections often consist more of voting against someone than for anyone.

Awards Assembly

The annual spring Awards Assembly this year held no surprises. Top scholastic honors among the student houses went to Dabney, which won the Goldsworthy



PRATT & WHITNEY AIRCRAFT, leading aircraft engine designer and manufacturer has been a firm advocate of "creative engineering" for all of its 27 years in business. Operating as it does in a highly technical field, the company has never veered from the basic policy that engineering excellence is the key to success.

This has meant extraordinary emphasis on engineering, the formation of an engineering-minded administration, and the spending of millions of dollars of company funds to build the most complete research and development laboratories in the field.

Such an approach has enabled Pratt & Whitney to gain a top reputation for piston and jet engine development. Only recently the company became one of the few in the country to be awarded a U. S. Government contract for the development of a nuclear powered aircraft engine.

Long range opportunities to put your own ideas to work doing creative engineering are open now. Find out how you can fit into this great engineering organization. Consult your placement counselor or write to Frank W. Powers, Engineering Department at-

PRATE & WHITNEY AIRCRAFT DIVISION OF UNITED AIRCRAFT CORPORATION EAST HARTFORD, CONNECTICUT



When the manufacturer of this crop-dusting helicopter wanted to transmit power from the accessory gear box to the insecticide pump, mounted some distance away, he chose an S.S.White flexible shaft to do the job. As the diagram shows, the shaft provides a simple one-piece coupling that can be readily run around intervening struts and frames.

* * *

Many of the problems you'll face in industry will involve the application of power drives and remote control with the emphasis on low cost. That's why it will pay you to become familiar with S.S.White flexible shafts, because these "Metal Muscles"[®] represent the low-cost way to transmit power and remote control.

SEND FOR THIS FREE FLEXIBLE SHAFT BOOKLET...

Bulletin 5008 contains basic flexible shaft data and facts and shows how to select and apply flexible shafts. Write for a copy.





THE BEAVER . . . CONTINUED

Scholarship Trophy. Throop Club was second, followed by Blacker, Fleming, and Ricketts, in that order. This is the fourth consecutive year that Dabney has topped the other houses scholastically, having won the trophy every year since it was first awarded in 1949.

Athletic Trophies

As predicted in this column exactly one year ago, the two athletic trophies went to Fleming House. The Interhouse Trophy, awarded for supremacy in intramural competition for the year, returned to Fleming after a one-year leave of absence to Throop Club. The closeness of the race is indicated by the fact that no one of the five houses won more than two of the nine intramural sports. Final standings were as follows:

Fleming		20
Blacker]	14
Dabney		107
Throop]	$1051/_{2}$
Ricketts		841/2

Details of the riot incited by the members of Fleming House to celebrate their cinching the trophy after defeating Ricketts in football found their way into a number of newspapers in the Los Angeles area, and will long be treasured in the memories of Fleming men, even those who should know better.

The competition for the Varsity Rating Trophy, awarded on the basis of numbers of men participating on intercollegiate teams, was anything but close. For the tenth consecutive year, Fleming won the trophy, having 53.5% of its members on intercollegiate teams this year. Final standings were as follows:

Fleming	
Throop	
Blacker	
Ricketts	
Dabney	

Inasmuch as it is impossible to participate on an intercollegiate team and an interhouse team at the same time, and since lettermen in a given intercollegiate sport are ineligible to participate in that same sport on the intramural level, Fleming's winning both trophies is all the more remarkable.

Sophomore Tests

Student readers of the Catalogue of the California Institute often feel that it is a great example of sciencefiction writing. Many of its statements were upheld, however, by the recent 1952 National College Sophomore Testing Program. A series of examinations was given to 11,700 sophomores in various colleges. The tests were designed to measure objectively some of the men's abilities and interests in major areas of college study. The table below compares the average percentiles of Tech sophomores with those of the male sophomores who took the tests.

ENGLISH	National percentile of all male students tested	Tech Percentile
A. Mechanics of Expression	45	75
B. Effectiveness of Expression	45	82
Vocabulary	50	85
Speed of Comprehension	55	82
Level of Comprehension	50	88
C. Total Reading Comprehensi	on 55	88
Total English (A+B+C).	50	82
GENERAL CULTURE		
History and Social Studies	50	88
Literature	55	65
Science	50	96
Fine Arts		85
Mathematics	55	97
Total	50	94
CONTEMPORARY AFFAIRS		
Public Affairs	50	82
Science and Medicine	50	92
Literature and Fine Arts	50	82
Total	50	88

Note that the Tech sophomores are significantly above the national average for male students in every area tested—especially (as would be expected), though not exclusively, in science and mathematics.

Clean Sweep

Waheed Khan Ghauri, a senior civil engineering student who came to Tech four years ago from Lahore, Pakistan, is never at a loss for words—in at least two languages. At a student paper contest recently, sponsored by the American Society of Civil Engineers' regional conference in San Diego, Waheed's speech on cloud seeding and artificial rainfall took first place among participants from about a dozen major colleges in this area. One week later, Waheed took first prize in the annual Mary A. Earle McKinney Prize contest in English at Tech, with his paper and speech on "What I Believe." A few weeks after *that*, he was named winner of the annual Conger Peace Prize contest for his oration, "Asia and World Peace." Waheed always has been a good man to have on your side in a bull session.

Old Story

Readers of this column (and I hope there are some that are still with me) may be surprised to find no criticisms this month. You might think nothing bad had happened to Caltech. But it has. This June we lost a fine senior class. The traditional question all seniors ask before they leave has been asked many times this year: "What in the world's going to happen to this school when we leave?" The answer, of course, is still the same: nothing.

-Al Haber '53



MOTORS

ANY RPM at your finger tips. Gives magic speed control to your machine. The U. S. Varidrive Motor gives your machine any and all speeds *instantly* over a 10 to 1 ratio. It definitely increases output. It helps you produce better quality work. 2 to 10,000 rpm; 1/4 to 50 hp. Mail Coupon for 16-page Catalog.

U.S. ELECTRICAL MOTORS Inc.

(Box 2058) Los Angeles 54, Calif., or Milford, Conn.