Heads tallied; upper classes

The combined junior and senior classes are twice as large as the freshman and sophomore classes, it was revealed by registration released Tuesday by Raymond D. Meade, registrar.

Senior class enrollment, largest in Tech history, leads with a total of 1,025 followed by the junior class with 868. Sophomores and freshmen lag with 495 and 457 respectively.

Heavy veteran enrollment in 1946 accounts for the bulge in upperclass size, according to Meade. Pent-up educational demands rocketed registration to capacity levels. Fifth term admits for junior colleges reached 72. Fifty-seven of the incoming freshmen enrolled at the linstitute of Design.

The moving up of the large vet

the senior class.
Other registration figures released are: Day undergraduate enrollment, 2,890; graduate day, 2,15;
total day, 3,105; evening total,
3,879; total school, day and evening, 6,984.
Fred Travis, director of admissions, reports that 314 new students have been admitted. The

advanced students.
Fifth term admits for junior colleges reached 72. Fifty-seven of the incoming freshmen enrolled at the Institute of Design.
The moving up of the large veteran classes has swelled the size of the graduate school. Day and even in g graduate registration showed an increase of 77.

Day undergraduate registration has dropped 456 this year. This pares enrollment down to the proposed normal of 3,000 full-time day

except.at.the graduate level where an increase is expected.

The size of junior and senior classes, plus the admission of a big fifth-term group, poses many administrative and teaching problems, faculty sources say. They add that the overbalance also accounts in part for the business-like character of the student body and the nurnorted indifference towards. the purported indifference towards extra-curricular activities.



CALCULATOR AT WORK: George Wilson, former associate engineer on Calculator, reads meters at console while engineers from Wisconsin Electric Power Co. set up power circuits and record data.

ower problems solved with Network Calculator By Hal Bergen

Behind the facade of meter-dials and switches to be found in an air-conditioned room on the second floor, Main building, lies a complicated maze of electrical apparatus whose sole function is to implement a process well-known to engineering students.

Here is located the A-C Network Here is located the A-C Network Calculator, a device to facilitate the solution of difficult electrical and physical systems by the process of substitution. This installation, valued at over \$100,000, is designed so that a measureable electrical equivalent circuit can be tup to represent the conditions of the problem under study.

of the problem under study.

The need for such calculators became apparent as the power systems of the nation grew from local direct current networks to large complex alternating current systems spanning huge geo-graphic areas. However, indivi-dual enterprises could not use dual enterprises could not use expensive equipment of this na-ture throughout the year and thus the cost to any one firm would have been prohibitive. This indicated the advisability of a cooperative ownership of one cal-

Furthermore, the time required to assemble pertinent data on the problem under consideration is much longer than that actually needed for the calculator operation itself. Thus many companies found

it expedient to lease time on a cal-It expectent to lease time on a cal-culator for a minimum of time after they had gathered the necessary in-formation. So it was that a central agency was needed to coordinate the use of a calculator shared by

the use of a calculator shared by many groups.
Illinois Tech was the logical site for the calculator because of its central location, proximity to district offices of many manufacturers and availability of technical personnel for consultation. Eighteen organizations now share the calculator which was installed in June, 1945.

The study of alectrical versus

The study of electrical transmission systems is effected by actual construction in the calcuactual construction in the calculator of a miniature network under study. By using a single phase to represent three phases and a higher than normal frequency, the size and complexity of the installation is reduced somewhat.

The IIT Network Calculator is a valuable time-saver in the solving of complex problems whose solu-tions might otherwise be pro-hibitively costly.

J. Paul Sheedy* Switched to Wildroot Cream-Oil Because He Flunked The Finger-Nail Test



TNI5 may look like your roommate, but don't be deceived. The Schmo in this picture has lots more brains. He has the Wildroot Cream-Oil concession in a side show. And incidentally, if you'd like to age men who get ahead, with women of course, start grooming your dome with Wildroot Cream-Oil. It's the non-alcoholic hair tonic containing soothing Lanolin. Grooms you hair neatly and naturally without that plastered-down look. Relieves annoying dryness and removes embarrassing loose dandruff. Helps you pass the Finger-Nail Test. Get a tube or bottle of Wildroot Cream-Oil hair tonic at your drug counter today. Don't swipe your roommate's . . . if may be unsanitary. Besides, he's liable to grunt and growl if you do. And next time you visit your barber, have him give you a professional application.

* of 327 Burroughs Dr., Snyder, N. Y.

Wildroot Company, Inc., Buffalo 11, N.Y.



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