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Prof. Yellot Reports 1000 Men Selected For Defense Classes

Yesterday marked the completion of one week's study for the one thousand metropolitan Chicagoans enrolled in the special defense classes now being taught at IIT. These classes in special engineering subjects are being sponsored by the government, are tuition-free and consist of short-term, highly-specialized courses for men who have had basic specialized training. According to advices from Washington the program at this school is the largest carried on by any engineering school in the United States.

Over 5,000 Apply for Courses

Professor J. I. Yellot, director of the mechanical engineering curriculum, reports that the 1,000 men who qualified for the courses were selected from over 5,000 applicants. These men came to the Institute from all over Chicago and its suburbs for the necessary personal interview prior to being enrolled in the course. A total of forty-five separate sections for the sixteen courses originally planned have been established to meet the needs of the demands. Professor Yellot re-emphasizes that, "... these courses are strictly upon a college level and not of the vocational or trade school type. They do not in any way interfere with the regular college-credit evening sessions work currently offered by the Institute for persons studying for a degree."

Administrators of the courses remarked that the spirit with which the applicants came to the Institute was very encouraging. Out of the entire group of 5,000 only three or four stated their only desire to take the courses listed was because the tuition was free.

Design Courses Most Popular

Most popular of the courses and in greatest demand by industry and by interested persons has been for the design of tools, fixtures and dies. Eight sections of this course have been established, all of which are being given on the south side campus, where drafting space has been made available on Wednesday evenings and Saturday afternoons.

Another of the popular courses has been that of management, including foremanship. Eighteen sections have been established in this field, nine of which are in foremanship. "It is interesting to note in this connection," says Prof. Yellot, "that requests for foremanship courses have come from foremans' clubs. These requests have and will be

(continued in next column)

DEFENSE ENROLLEES



handled in cooperation with the Chicago Branch of the National Metal Trades Association of which Howard Goodman, vice-president of Goodman Manufacturing Company, is president."

To Meet Shortage

It has also been learned that additional classes for about two hundred persons are already being planned and will start on or

about February 1. These courses, together with the ones now in progress, have been instituted by the United States government to meet an anticipated shortage of engineers and skilled technical men. This has been highly commended by industry and it is felt that they will become important cogs in the nation's vast defensive machinery.

Little things help to keep telephone rates low



Developing better apparatus of many kinds at lower cost is a continuous process in the Bell System. It plays a major part in making your telephone service the finest and cheapest in the world. Here is one of many cases in point:

Above you see two telephone loading coils—one old, one new. Such coils are spaced at regular intervals along telephone circuits. They reduce electrical losses... help to bring your voice through clearly, strongly over long distances.

Through the years, engineers at Bell Telephone Laboratories have succeeded in making these coils smaller and smaller. In so doing, they have greatly reduced the cost per coil, which... multiplied by the millions in use... has helped to keep the cost of out-of-town service low.

Why not telephone home at least once a week? Long Distance rates to most points are lowest any night after 7 P. M. and all day Sunday.



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Announce C.A.A. Course —

On or about February first the spring C.A.A. course will start at the Lewis division as announced by Professor Paul G. Andres, of the electrical engineering department and coordinator of the program at the west side campus. A limited number of vacancies are yet to be filled, and applications are now available in room 343 at Lewis from one to three o'clock daily.

Ground school requirements will be fulfilled under the instruction of the same professors who have taught them in the past—24 hours of navigation and 24 hours of aircraft operation under E. C. Shuman and 24 hours of meteorology under Dr. M. Alden Countryman. Technical features of aircraft are handled by both L. T. Anderson and Mr. Andres. Ground school classes will meet two evenings a week, and flight training will be under the supervision of Mr. Henry Douglas and Mr. Harold Harbican at Elmhurst Airport.

Junior Formal —

The destination of all high-spirited students of Illinois Tech on Friday evening, Feb. 28, will be the Chicago Towers Club to attend the Institute's most exclusive affair of the year—the Junior Formal. Ray Herbeck and his outstanding orchestra have been tentatively engaged for the evening, and an excellent swing quartette has been contacted to fill in the lulls created by intermissions.

As at all Junior Formals in the past, the food served will be of the highest quality, and attending couples will be given a choice of two menus—either meat or fish.

Priced at \$5.50, the engraved bids will go on sale this Friday and will be available on an "easy payment" plan. Small payments will be taken on the bids at a table set up on the Student Union lobby each Monday and Friday morning. For the convenience of those unable to procure formal clothes for the evening, arrangements are now being made by members of the Junior Social Committee for the renting of tuxedos or tails at the school.

Stanley, Inventor Of Power Distributor, In Armour Movie

Besides being haunted, the sound movie shown A.I.E.E. last Friday, January 10, had its title at the end instead of the usual beginning. The young current-controllers and their guests came to the meeting with the idea that a transformer was a prosaic object. Intermingled with the ectoplasm was an exposition of the private life of the G.E. power distribution transformer that gave all those present a concept of the working of these devices.

As the inventor of the first A.C. power distributing system in 1886, William Stanley undoubtedly has the right to appear in a movie on transformers, even if only in spirit. Besides the transparent Mr. Stanley, there were several members of the transformer production department of G.E.

After the first attempts in Massachusetts, Stanley built a plant in 1891 to manufacture his transformers. He then merged his interests with the then-tiny General Electric Company.

As modestly as possible, the G.E. engineers showed how they increased the efficiency of the modern transformer four times over its wasteful predecessor. Those present were conducted on a tour of the research laboratories at Schenectady, where special alloys are developed to increase even further the utility and efficiency of the transformers. It was shown where testing is carried on, as well as strict supervision, from the steel mills to the finished transformer.

Lightning surges presented a problem that was solved with the picturesque 10,000,000 volt lightning machine. The sight of these mighty surges was impressive. The elimination of moisture from the windings was another weighty problem that was "licked" by the General Electric engineers.

After a rather lengthy peek at the tailoring of the transformer's working clothes, the by-now-fascinated E.E.'s got the title of the movie—*There is a Difference*—as a climax.

Acting as sort of a newsreel, Benjamin Cole, E.I.E.E. president, reminded the juicers of the pending IIT-Lewis paper competition between the electrical engineering departments. Because of the keen spirit of competition between these two branches, some noteworthy results are expected.