

EDT TO INCLUDE MANAGEMENT IN TRAINING COURSES

Having registered some 3,000 students, the Engineering Defense Training Committee, headed by Prof. J. I. Yellott, has completed enrollment for various courses offered under the engineering, science, and management defense training program. At present 40 different courses have been broken up into approximately 125 sections of from 20 to 50 persons per section.

Since the beginning of the EDT program last year, IIT has trained a greater number of persons than any other institutions in the nation, with the exception of the University of Pennsylvania. The defense training operations in this district are not confined to the campuses of Armour and Lewis; there are large classes operating in Joliet and Waukegan as well as on the premises of several of the larger industries of the Chicago area.

Within the next few months the committee expects to launch a huge safety program to train about 2,000 men. This program will be administered by the defense training committee and given under the joint sponsorship of Illinois institute, the national committee for the conservation of manpower in defense industries, and the Greater Chicago Safety Council.

Gamma Theta—

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Pinsky, business manager; and Rocco deStefano, secretary.

Since its inception in 1939, Gamma Theta has proven itself a very necessary and important honorary fraternity. It awards recognition to those prominent in the field of dramatics. The prime functions of this body are to select, supervise, and sponsor the work of the players guild.

In addition to electing the above officers, several important points were cleared up. It was definitely decided that there would be a faculty director this year. For the last two years, the directors have been selected from the student members themselves and their work has been excellent.

However, the work is a bit too strenuous for a student still striving to receive his diploma. Another important statement issued regards the first production which will be produced during the second week of the new semester in February.

The group will hold another meeting this Wednesday at five

Capt. Monell—

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nent parts of the a gas mask at various points of assembly in addition to the completed product, was a part of the OPM Small Business Men's Clinic at the Stevens hotel last month.

Four Types Discussed

Captain Monell explained that there are four types of masks in use by the army at the present time. They are: (1) "training," issued to selectees and recruits because of a rather sturdy construction; (2) "service," issued to all divisions which are being equipped for field service; (3) "diaphragm," issued to men who must give orders, since it is so constructed that the intensity of the voice is scarcely diminished and is clearly audible at the usual speaking distances; (4) "optical," issued to men who must use optical instruments in line of duty. The last type has provision for the installation of specially ground lenses and is used principally in the navy.

Outstanding Features

All the masks, with the exception of the optical type, are fitted with plastic eye-pieces instead of glass, causing a saving of several dollars per mask by simplifying construction. The masks are a remarkable improvement over the ones used in the World War in that they have no inconvenient nose clamps or mouth-insertion breathing tubes.

The War Department feels that these masks are the best in the world at present because they are the only ones containing soda lime in addition to charcoal in the canister. The soda lime tends to maintain and increase the life of the canister by reactivating the charcoal.

100% Inspection

These gas masks are one of the few complex products that undergo a one hundred per cent inspection. As a result of this close inspection, which includes a reaction test under simulated field conditions, every mask is certain to have a life-span of at least six months under any probable field conditions.

Captain Monell found IIT quite familiar, as he attended Lewis institute as a student and instructor in mathematics and chemistry from 1931 to 1938.

o'clock for the purpose of selecting a play. It is hoped that a satisfactory mystery-comedy might be discovered. When the play is selected, casting will begin immediately. This will be a good thing for potential thespians interested in appearing before the footlights to bear in mind.

TWO PLEDGED TO SALAMANDER AT F.P.E.S. MEETING

Featuring a film in technicolor presented by the Cordox Corp., the F.P.E.S. meeting, held on the fourth floor of main, Friday, November 7, was received with much enthusiasm.

Opening the meeting, Professor Finnegan gave a short summary of the requirements for admission to Salamander, F.P.E. honorary society. Robert Creagan, president of the society, presented pledge pins to Robert Bechtolt, the only member from the junior class, and to Robert Kerney, senior.

Modern Equipment Shown

Richard Taylor, president of F.P.E.S., introduced H. E. Ryerson of the Cordox Corp. who presented the film on modern methods of fire extinguishing with carbon dioxide. The film contained interesting data on the effectiveness of extinguishing different types of fires. Fires which can be most effectively extinguished with carbon dioxide are those of an oil and electrical nature. Carbon dioxide, being heavier than air, does not allow oxygen to reach the inflammable substance thus quenching the blaze. The film also showed various field experiments carried on in combating conflagrations.

Cafeteria—

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promised to gradually appear on the daily menu.

Stress is also being placed upon better coffee, tea and cokes, and lower milk prices.

The cafeteria committee especially expressed its appreciation of the prompt and whole-hearted cooperation it has received from Mrs. Thompson. Appointed at the close of the boycott by the ITSA, and consisting of student leaders from every department of the engineering college, the committee is as follows:

Co-ops. Bill Werninghaus
Civils Norman Lettvin
Architects Ed Farrell
Chemicals Morgan Fitch
Fire Protects. Bob Bechtolt
Electricals Tom Brown
Mechanicals Pete Zemaitis

All interested students, faculty members, and office workers are urgently requested to express any ideas that they may have on the improvement of cafeteria food to the members of this committee so that the changes urged by it may be as representative of the cafeteria patrons as possible.

Metal Fatigue Study Conducted By Ratzel For Welding Research

Elmer Ratzel, C.E. '41, is now research assistant in the new Diesel laboratory working on one of the most interesting projects—the study of the behavior of metals under fatigue. This project, sponsored by the Welding Research Committee of New York, is one of the few investigations at the Institute sponsored by outside organizations.

An Outstanding Undergrad

Prof. Joseph Marin, chairman of the committee, stated that Ratzel had been a great credit to the school as an undergraduate. He was president of Chi Epsilon, honorary civil engineering fraternity, as well as president of the orchestra. After graduation Ratzel was employed by the Illinois Bell Telephone company until he received this part time assistantship through the \$1250 fund set aside for this project.

Other members of the Welding Research Committee, besides Chairman Marin, are Colonel Jenks of the War department and Prof. Sayre of Union college. These men have developed the fatigue testing machine and if the experiments should prove successful, a whole battery of these machines will be installed. Prof. Marin recently attended the Welding Society convention in Philadelphia for the purpose of furthering the development of these researches.

Atom Smasher—

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in revealing realities, which would otherwise have been undiscovered.

Located in the physics building on the south campus, the electrostatic generator designed by Dr. Kanne will probably be completed by next summer. The machine is housed in a tank eleven feet long and four and one-half feet in diameter. A pressure of 150 pounds per square inch is maintained in order that the entire apparatus may be built on a smaller scale.

Radio-activity, a forerunner of atom-smashing was first disclosed by Becquerel at the end of the 19th century. In 1919, atoms were first smashed by radio-active elements. Results of suggestions to uses of a greater amount of lower energy particles in place of radio-active elements, were first observed in 1932. Since this date, higher voltages have been obtained which consequently resulted in the observation of a wide variety of new nuclear phenomena.

An invitation to attend the meeting has been extended to all persons who desire to absorb more detailed information on the subject of atom-smashing.

'POP' CONCERTS

Tickets for the November 22 "Pop" concert at Orchestra hall are now available at the co-op office, 107 Chapin hall. Price: 68 cents each. Sales deadline: Friday, 6 p.m.

Tickets for the entire B series extending through April 1942 will continue to be available at the co-op office to students and faculty members of IIT.

All seats are reserved and regularly sell for 83 cents. The concerts will be on Saturday evenings and will feature the Chicago Symphony orchestra.

Make the Best Of It . . .

By Bernard Chertow

Well, boys, the secret is out? Yessir, in bold relief, too. Vicki Baum tells all, that's what it amounts to. Vicki Baum, writer of prize-winning stories tells how she does it. Vicki Baum, the girl who sank to the bottom when she tried to swim, and whose hands froze as she tried to play the harp on the stage, tells how she not only overcame all this but rose to heights of recognition. The method, relaxation; the secret, how to relax.

It seems that when Vicki was a small girl she couldn't succeed in her swimming or in her music because she didn't know how to follow her instructors' advice and relax. But one day, while she was playing in the park, she met an old man who in one short sentence gave her the secret of success. This old man, who Vicki called "Uncle Pieter", had been a famous clown in his youth. Naturally, at the start of his career he had suffered many broken bones, but after he picked up the trade secrets he was able to take the most breath-taking falls without so much as a strained ligament. He was old now and wished to pass on his legacy so he whispered to our little Vicki, "Be like an old sock; an old sock never suffers broken bones." It doesn't look like much advice when you first read it, but look again, friends, and learn. Not only is the observation astute, it is metaphoric perfection.

But maybe you don't even know what an old sock goes through, so let's investigate this together. First we get an old sock. Where? Well, today's Tuesday, so that makes the pair we have on three or four days old, depending on whether we took our bath before or after supper Saturday. I guess that's old enough, a sock and toss it to the ceiling. If it sticks just open the window and leave the room with the knowledge that your remaining sock is just what you've been looking for. Now take it off, remove the garter, and drop the sock to the floor. Note how limply it falls, how it literally crumples as it hits, setting up no resistance for the portions of it that have not yet reached the ground. No stresses, no strains, just perfect relaxation.

Now to get back to that "would-have-been-tense" situation had you not learned this great "how-to-be-a-sock" act. You are the head engineer on a new defense plant and you just finished the only explosion-proof structure in the country. You're telling the government man what a true genius you are for perfecting such a design when a workman runs in and tells you the structure just blew up. Do you hit the ceiling and stay there like the first sock? Uh-uh. You collapse like the second one.

There is only one trouble with this "Uncle Pieter's Relaxing Technique". You know how an old sock smells? Well, my guess is that when Pieter gave this advice to Vicki he was over-relaxed.

GENERAL ASSEMBLY

Wednesday, November 12, 10:10 a.m. Speaker to be Rear Admiral Edward A. Evans, commanding officer, Illinois Area, United States Naval Reserve.

Genius Of Frederick Stock Leads Chicago Symphony Orchestra To Fifty-First Anniversary

Now, while Chicago Symphony Orchestra is celebrating its fifty-first anniversary, it is the appropriate moment to remind Chicagoans what they owe to its present conductor. Like most organizations of its kind, the Chicago Symphony Orchestra has had a stormy career, and the man mostly responsible for keeping the organization on its course is Dr. Frederick Stock.

Dr. Stock played viola under that genius, Theodore Thomas, and it was under such tutelage that he gained the fine experience and inspiration which was to enable him to build the Chicago organization to its present stature. He watched Thomas suffer under the insulting barrage of criticism which emanated from all directions and in great volubility from

the financial backers of the orchestra, down to the editors of newspapers, who undoubtedly knew how to run their papers, but had about as much aesthetic appreciation as a sardine. It was under these circumstances that Dr. Stock acquired his experience. Theodore Thomas died a broken old man, but never did he lower his artistic standards to placate the influential backers, who were interested solely in financial returns at the expense of good music.

Dr. Stock was the perfect man to follow Thomas. Since he took over, he has almost single handedly raised the standards of Chicago music appreciation and musicianship from a low point to the place where Chicago is considered one of the great music centers of the world.

This was not an easy task. But no worthwhile job is easy. Stock, like Thomas, has found it necessary to be firm in his insistence that only good music be played. His unshakable belief that the people's appreciation of the best in music should be developed, as against the belief that the public should be given what they want regardless of its quality, has finally been substantiated throughout the years. As a result, Dr. Stock has introduced all of the finest in music to Chicago.

Yes, Chicago was fortunate in having such a man as Theodore Thomas lay the foundation of musical culture here, and it was equally fortunate in having Dr. Stock pick up where Thomas left off.