

FRESHMAN CLASS OFFICERS PRESENT PLANS FOR YEAR

Look out sophomores! The freshman are coming! Last Friday, March 7, the Armour freshman class met to form a well organized class under the leadership of their president, Harry Anderson.

Introduction of the freshman class officers was the main reason for the meeting. Each officer upon being presented explained his duties and what was being done along those lines. Outlined plans for the freshman dance, work of the social chairman, were presented. The freshman dance is to be held at the Edgewater Beach Hotel. Dancing, informally, will be done to the music of Jack Russell's orchestra. The committees in charge, both at Lewis and Armour, have high hopes of making their dance a stupendous start for the class of '44.

Backs Heads Rush Committee

Also, plans for Junior Week have commenced to the degree that a committee of strategy has been formed with Ulysses Backas at the head. On Saint Patrick's day, it is hoped that all freshman will buy green hats, as the custom has been, so that the class of '44 will learn to know each other and will be able to organize enough to give the sophomores a good licking during Junior Week. Junior Week is May 6-10. So freshman, talk it up and get organized, cause if you don't . . . ?

Officers of the Armour freshmen class that spoke at the meeting are: president, Harry Anderson; vice-president, Robert Lamons; treasurer, William Dunlap; secretary, Robert Howard; Social chairman, Michael Coccia; I.T.S.A. representative, Donald Mahok, and member of the Student Union Board, Charles Prizer.

Junior Engineer Exam Announced By Civil Service

Because of the increasing need for engineers in national defense work, the United States Civil Service commission has again announced an examination to fill junior engineer positions in any branch of engineering.

The starting salary for these positions is \$2000 a year minus a three and one half percent retirement fund deduction. The applications will now be rated as received at the Commission's office in Washington until December 31, 1941. Qualified persons who do not have eligible ratings under previous junior engineer examinations held by the Commissions within the past year, are urged to file their applications at once.

Appointees will perform professional engineering work including assisting in experimental research, design or testing of machinery, and testing and inspection of engineering materials.

To be eligible for competition the appointee must have completed a four year engineering course, with the exception that senior students will be admitted under certain conditions. They will not have to take a written test. Instead the applicants will be given additional credit for graduate study in engineering or for engineering experience.

Further information and application forms may be obtained from the secretary of the Board of U. S. Civil Service Examiners at any first or second class post office, or from the U.S. Civil Service Commission, Washington, D.C.

IIT ACQUIRES STEAM TURBINE FOR MECH DEPT.

Through the good graces of the Pyle National Company, Armour has acquired a new super steam turbine. This was made possible by a permanent loan from the company. This single-wheel turbine with two stage expansion contains two of the most modern instruments now in existence: the new Weston temperature gauge, which operates on the principle of the bi-metallic helical coil, and the Frahm vibrating-reed tachometer. The generator is composed of a number of resistances in parallel controlled by a panel switch board. This turbine was installed last week and is now ready for testing.

New Course for Seniors

The course in which this turbine will be used will cover fifteen weeks of lectures to be given by Dr. Yellot and Trumpler. The students will be able to perform a complete test on the turbine in one afternoon. This course is to be added to the regular curriculum for senior mechanicals.

A.S.M.E. Sees 'Oil' Film; Plan Smoker Apr. 4

A twenty-five minute motion picture on the topic "Oil" was shown at the A.S.M.E. meeting last Friday in place of the addresses by three student speakers that was previously scheduled. The movies treated a phase of the oil industry which concerns the lubrication of moving, mechanical parts and those uses of oils which interest mechanical engineers.

An announcement of a smoker which is to be held on Friday, April 4, from 8 to 12 p.m. in the lounge of the Student Union was made. Tickets for the smoker are now available at the price of forty-five cents each. Movies, refreshments, musical entertainment and an interesting speech are on the program for the evening.

Prof. Roesch made a brief speech concerning the forthcoming A.S.M.E. convention at Detroit. He urged the members of the society to prepare speeches dealing with general mechanical problems, the best of which would be entered in competition at the convention.

Goodman Concert Gives Excellent Opportunity To Students Of IIT

(Continued from Page One)
down the house" at the Goodman concert a year ago.



Robert Mead

Here is the program:

Concert Overture	Hadley
Orchestra	
"Pirima" Chorus from "Tannhauser"	Wagner
Just You	Burlough
When All Is Still	Alles
Glee Club	
Russian Sailors' Dance	Gilere
The Patriot	Prior
Hungarian Dance No. 5	Brahms
Orchestra	
Music When Soft Voices Die	Matthews
The Lost Chord	Sullivan
On the Road to Mandalay	Speaks
Glee Club and Orchestra	
INTERMISSION	
Cossack Love Song	Kountz
Volga Boatman	Russlan
The Sleigh	Kountz
Glee Club	
Clare de Lune	Debussy
Praeludium and Allegro	Pugnani-Kreisler
Southern Suite	Nicodi
Orchestra	
Archer's Dance	Borodin
Clouds	Charles
Old Favorites	Herbert
Combined Clubs	



Gus Mustakas

Opening the program is a modern, vivacious overture, which is followed by a modest and harmon-

ious trio of selections by the glee club. The orchestra then counters with the furious "Russian Sailors' Dance," and continues with two other brilliant selections.

In partial contrast, then, the glee club offers a melodiously calm selection, which is followed by a baritone solo on a universal



Robert Hemman

favorite, "The Road to Mandalay." Both organizations combine triumphantly to conclude the first half with the beautiful "Lost Chord."

A trio of surprises follows the second curtain in three Russian



Roy Hrubes

numbers by the glee club. This is complemented by a combination of a string orchestra and Debussy. Then comes a brilliant violin solo, and the interesting "Southern Suite."

RENTAL LIBRARY IS PLANNED FOR CULTURE SEEKERS

In an attempt to satisfy a rapidly growing demand for the latest and most popular novels, biographies, and light scientific books, Miss Nell Steele, head of the Armour Library, has tentatively suggested a scheme for a new rental collection.

Books for Varied Tastes

While the Armour Library is necessarily a specialized library, its policy has always been to purchase a generous selection of modern fiction and titles in travel, biography, etc. The purchase of duplicate copies in sufficient numbers to supply all immediate demands has, however, been found impossible. It seems that the tastes of Armour students for the "six best" have been in no way dulled by their steady diet of heavy technical reading. Often the reserve lists on some books are so long that it means waiting months for them.

Therefore, asks Miss Steele of the students, "Are you interested enough in new books while they are new to support a rental collection in the library?"

In considering a rental collection, Miss Steele explained that it is in no way designed to replace the present policy of purchasing books for so called "cultural and recreational reading." If it is preferred by the student to wait for the library copy, instead of securing it immediately for a small fee, he may still do so.

Acquire New Books

It is planned that as soon as a book has been paid for in rental fees it will be transferred to the general library collection, from which it may be obtained without cost. This problem of stretching budgets to purchase the latest works at a time when the reader wants them is a familiar one to all libraries. The proposed solution for the Armour library has for years been successfully practiced in the largest libraries in the country.

Those who are willing to pay a small fee and have a book sooner will find a box on the Library desk where may be left not only comments on the rental plan but suggestions as to books of immediate interest. The library does not propose to purchase any thing and every thing for rental, but the student's preferences will color the selection.

COPELAND DELVES INTO MYSTERIES OF MICROSCOPE

Electrons hurtling through space at a velocity of 18,000 ft. per second is the subject of study of Dr. Copeland and his electronic classes. The electron microscope being developed by Dr. Copeland utilizes these electrons for the study of their behavior in electrostatic fields.

The electron microscope consists mainly of three parts; a vacuum producing mechanism, a large size voltmeter, and a long sectioned glass tube. The vacuum is essential as the speed of the electrons will be effected by it. One out of 10,000,000 molecules of air is left in the tube before the filament is heated at one end. Residual air will become ionized and have a focusing effect on the fluorescent screen at the other end of the tube.

Metal plates are placed between the sections of glass and a potential difference is set up across these plates. This potential difference causes the electrons being produced by thermionic emission to move through the tube at a rapidly increasing rate. As the electrons strike the fluorescent screen the image is produced. By this method 2,500 volts is the greatest potential attainable with this apparatus, as it is still in the experimental stage.

An instrument of this type will be effective in studying biological substances. More thorough study of cancer tissues and tissues infected with other diseases will be made by the use of this microscope. The number of lines which distort the image on a television screen will be decreased by the aid of the experimentation being carried on with the electron microscope.

Dr. Copeland, a well known physicist on the faculty at I.I.T., believes that the electron microscope will eventually be used extensively throughout the field of biological science and in the rapidly growing industry of television.

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