

TECH



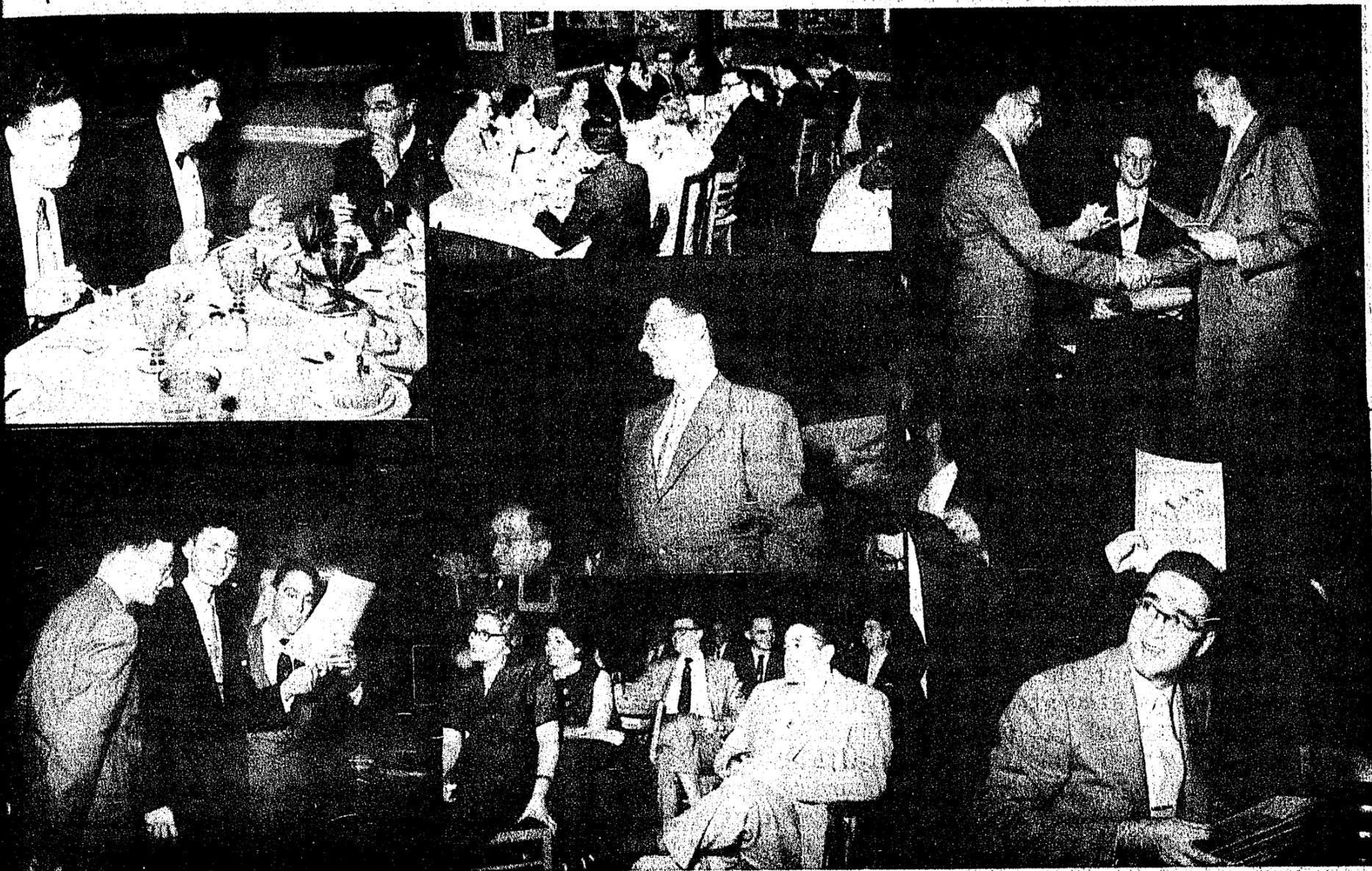
NEWS

SCHOOL OF TECHNOLOGY

Vol. 5

Thursday, Dec. 16, 1954

By Student Fees



Personalities galore throughout the score.



WHEN OVER 100 GREAT MINDS MEET

With a background of soft lights and intriguing paintings in Beta Pi members and their guests dined in regal splendor at the Washington Square Inn on Saturday evening, Dec. 4. The evening's activities began at 7:30 P.M. when 26 men were formally initiated into the society in a sober, impressive ceremony. Among those to be awarded membership in the foremost national engineering honor society were Mr. Fred Bertino, E.E., of the class of 1938, now director of a naval research

program, and Professor Herbert Taub, '40, of the Electrical Engineering Department. Following a delicious roast turkey dinner, engraved certificates of membership and "Bents" (keys) were distributed. The absence of a guest speaker was made up for by brief messages from Mel Eisenstein, president, Professor Joseph Pistrang, CE, faculty advisor, and Professor Herbert Taub. Mr. Fred Bertino outlined the utility of a government-sponsored research program at CCNY and how it might

benefit the college. At this point, due to the late hour, some of the faculty had to leave and missed one of the evening's highlights. A superlative program of entertainment was presented by a pledge committee of 6 EE's. Included in the series of skits was a Shakespearean tragedy of a fluctuator laboratory experiment, in prose, featuring Jerry Hanfling and Bob Goodman, and an operatic version—La Destino Del Forzo by

Continued on Following Page

TECH NEWS



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The Staff Speaks . . .

Every semester about this time elections for next term's officers are held in various student bodies around the campus. Every semester the same people run and are elected. With so many of the various offices held by the same people, one would think that, even in a college of this size, executive ability is hard to find.

It is somewhat amusing to see the almost reverent attitude freshmen have toward the senior who is president of a society or editor of a publication; these notables seem like gods. It is inconceivable that the pencil they write with has an eraser on the other end.

One may excuse this attitude among freshmen. However, one would expect that, after a couple of years at college, a person matures, that he regards these leaders as equals, that he should even want to be a leader himself. And why not? Too often when something has to be done we expect a nebulous "someone" to "take care of it." Who is that "someone"? Why shouldn't YOU be the one to take care of it?

Part of the process of growing up is the gradual acceptance of responsibility. Responsibility for buying your own textbooks. Responsibility for attending classes. Responsibility for volunteering for and successfully performing extra-curricular work.

"Extra-curricular work," is an unfortunate expression. It connotes an added burden. People don't want added burdens. People don't want added work. People don't want to accept responsibility.

This is a natural attitude. It is not a mature attitude. The work has to be done. If you are interested enough to join an organization you should be interested enough to help make it tick.

Every semester about this time elections for next term's officers are held in various student bodies around the campus. Why don't YOU run for an office? Why don't YOU join a committee? The work required is a small price to pay for the training YOU receive.

TIIC Endorses

Since the Student Council deadline was extended to last Friday, TIIC notified only those candidates who had filed petitions by Thursday at 3 P.M. They interviewed candidates for the positions of Student Council President, Vice President, Treasurer, and Senior Class President. The candidates for Student Council Secretary and Junior Class President sent lists of policies and qualifications.

The following candidates won TIIC Endorsement:

Barney McCaffrey - SC President
Martin Gruberg -

Senior Class President
Meyer Baden -

TIIC felt that these candidates were suitable for the positions they were running for. Therefore, TIIC and Tech News urge you to vote for the endorsed candidates.

For a complete list of candidates and their qualifications, consult Campus and Observation Post.

Great Minds

Continued From Page One

Green--starring soprano Vio Auerbach and Michael Cooperman. The quiz show "Scoff at the Prof" featuring such "reputed" characters as Leo Katz and Jack Atkin, was followed by a dignified biblical version of the CE 111 lab manual.

Then, at 11:30 P.M., with the "kiss of the hops is better than schnops" resounding through the hall, the festivities went into full swing, to the "cool sounds" of Tom Lynch & Co. Those who were fortunate enough to bring a female companion remained to dance. Rumors have it that the last man left the new downtown retreat of Tau Beta Pi at 1:30 in the morning.

Whatever the time of departure, the general opinion of the members was that the Tau Beta Pi Initiation-Dinner-Dance was an affair that will long be remembered.

—Mel Eisenstein

ROSH FARRAGO

Many people look upon studying as a chore but actually it is their greatest aid. Proper study habits bring good grades and time for leisure as well. Poor study habits bring only a lot of extra work. The hardest part of developing good study habits is developing them.

Hints on Good Studying

- Keep good notes. They invariably mean better marks.
 - Do homework regularly and keep it up to date. However, don't study more than two courses at one sitting. Studying a few different subjects at a sitting makes the learning process more difficult.
 - Reviewing regularly enables you to see the course in a clear perspective. Also, reviewing makes the work more familiar and hence more permanent.
 - Clear up points about which you are in doubt. Many students have found, on exams, the very questions they were asking themselves only a short time before.
 - Don't try cramming before an exam to learn a new subject. However, a quick review before the test is usually valuable.
 - Practice answering old exams. Questions in most cases are divided into a few basic types which tend to be repeated from term to term. You may be fortunate enough to "happen upon" a question taken verbatim from a previous exam.
- When the Test Comes**
- Relax the night before the exam. You may fail but it prevents the jitters.
 - Before doing any questions read the information slowly and carefully. The extra few minutes may save you a lot of errors.
 - Don't spend too much time on a hard problem—unless it's the only one.
 - Write neatly. Someone has to read what you are writing.
 - Recheck the problems if you have time. The points you gain will be quite helpful.

Parents Day

The annual Parents' Day for the School of Technology shall be held this Sunday, Dec. 19, at 2:00 P.M. in the Great Hall.

Parents Day was instituted about four years ago by the Division of Student Activities to help inform parents of freshmen about college affairs.

Until this year the meeting included all three uptown schools. However, due to the nature of some of the questions raised, a separate meeting is being held for the Tech School.

The "program" will open with organ music by Richard Nealon. After introductory speeches by Pres. Buell Gallagher and Dr. Daniel Brophy, Dean of Students, parents will be taken to several rooms where, in small groups, members of the faculty shall discuss frosh problems and answer questions. Following the discussion, refreshments will be served in the college cafeteria.

Sixty-three members of the faculty shall be present, assisted by student aids.

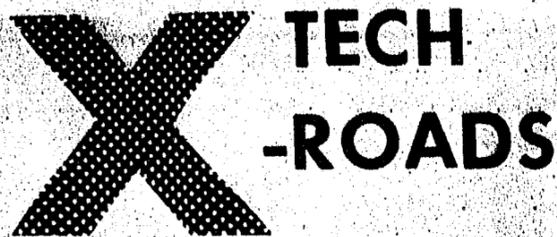
Since many of the questions may best be answered by Tech students, additional aides are requested. Student aides will meet in Room 126 Main at 1:30 P.M. prior to the assembly.

Beauty Contest

Beginning this week we are all called upon to be judges of a beauty contest. The winner of this Zeta Beta Tau-sponsored "Miss World" contest will be chosen by the number of penny votes cast for her. Ballot box stuffing is encouraged!

All money collected during this contest is donated to the World University Service (WUS). It is then channeled to all parts of the world to be used to buy food, clothing, lodging, medical care, tuition, lab equipment and books for those students who could not otherwise afford them.

As you finish reading this, go over to the nearest polling place and vote for the candidate running with TIIC-Tech News backing. Education is the most worthwhile cause to which we can contribute.



Overheard in the EE Machinery Lab: "—but where are the steam lines?"

Prof. Hem had just finished explaining a test problem when, from the rear of the room, came the words "Hey, we were right!"

Mr. Philip Milhender, itinerant engraver, left his mark on many a slide rule during his recent three-day stay. Just in case you missed this chance to have your slipstick personalized, Phil shall be back next year. He promised to send advance notice.

New look in the CE Department: Professor Kaplan's eyeglasses.

The \$64 question: Shall TIIC change its locks? Tune in next week ...

The \$65 question: Did any of the girls accept AME's challenge?

We cannot compete in the present cold war with Russia in terms of man power, declared Dr. Wilson Compton, president of the Council for Financial Aid to Education. "But we can compete in terms of brain-power and horsepower. We are inferior in numbers, but we excel in skill, resourcefulness and productivity."

Referring to the chem engineers' apparent lack of activity, Prof. Schmidt remarked, "The problem is not insoluble."

Election week
Does have its cheer;
Let's not be meek—
We want free beer.

—R. P. I.

Items for this column may be placed in the envelope on the TN bulletin board in Compton Hall, first floor.

TECH LIFE

Chi Epsilon Induction

Each term, one of the highlights of the activities in the Civil Engineering Department is the Chi Epsilon Initiation Banquet. The one held this term in the Hotel Barbizon was no exception.

This initiation was unusual in that James P. Exum of the University of Texas was also inducted. Because Mr. Exum could not travel to Texas, his installation was performed by the CCNY chapter.

The after-dinner speakers consisted of Professors Hartman, Olsen and Willig, and Mr. Exum. President Frank Agardy was toastmaster.

During his speech, Professor Hartman, Chi Epsilon faculty advisor, quoted from a letter by Michael Spronck, editor of *The Transit*, the Chi Epsilon national magazine. In his letter Mr. Spronck commended the CCNY chapter and called it one of "the best and most active" in the country. He especially commended the chapter's projects.

These projects are performed by the pledges for the CE Department. Just completed this term is a model of a grillage.

VHF - UHF

Ultra high and very high frequency was the topic under discussion at the A.I.E.E.-I.R.E. meeting of December 2. Mr. Carl Quirk of the Dumont Corporation spoke on recent developments in the transmission and reception of U.H.F. signals.

Since U.H.F., 470 to 890 megacycles, is not commercially used, the receivers available could only receive signals in normal V.H.F. band width. Converters were devised which transformed the U.H.F. 709 mc carrier signal into a V.H.F. frequency.

Various types of antennas and their use for specific applications were discussed. Due to the coupling effect of U.H.F., losses in transmission lines are very important. For this reason it is desirable to have such apparatus as converters and boosters directly connected to the antenna.

One of the problems of U.H.F. is that you need a clean line of sight between the transmitter and the receiver, analogous to a searchlight beam between the two points. Places of shadow are places of poor reception. Hence the ideal location of

transmitters is atop mountain or extremely high buildings such as the Empire State Building.

Mr. Quirk outlined the method of trouble-shooting used by the engineers and emphasized the great amount of original on-the-spot decision which are made.

Tool Engineers

Last Thursday, the tool engineers held their first meeting of the term. Temporary Chairman Herb Geissler informed the members that their constitution has been approved by Student Life and must now be approved by Student Council. They hope to be recognized by Christmas.

A committee of five was elected to coordinate the new group. The committee, Dick Anderson, Shell Chesis, Herb Geissler, Berni Lieberman, Morty Rosenberg, will enroll any who wish to join and accept the services of any who wish to help.

National dues are \$2, branch dues \$1. Students receive subscriptions to the ASTE magazine which deals with production.

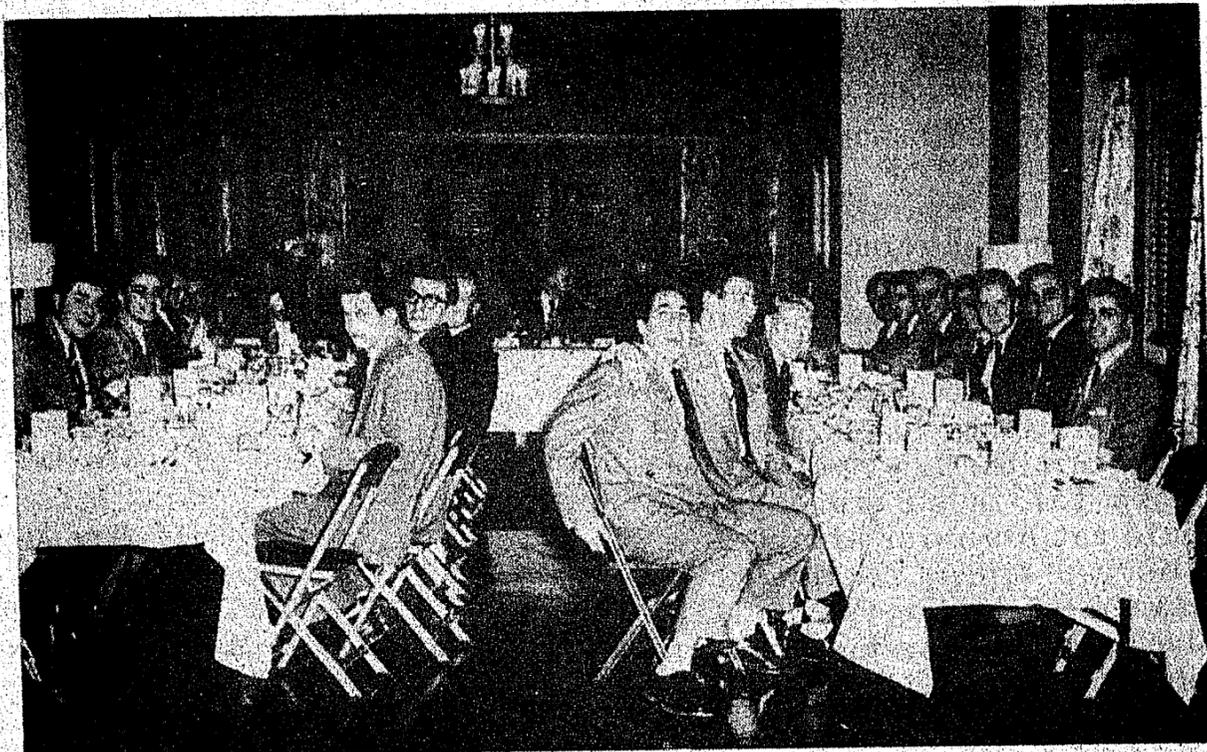
Professors Updegrove, Menkes and Nichols are some of the notables already in the adult organization.

ASME Grads

All January graduates who wish to transfer from student to associate membership in ASME should file their application immediately. See Walt Nazimowitz.

AIEE - IRE Plant Trip

Tomorrow is the last day to sign up for the trip to the RC Tube plant in Harrison, N. J. Only those names on the list will be admitted to the plant. List and directions are posted on the AIEE bulletin board at the Tech Crossroads. The trip is scheduled for Tuesday, December 28.



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COMING EVENTS

AICHE - H 103

Today - Mr. E. H. Flewollen of the Celanese Corp. of America on "Petrochemicals by Direct Oxidation of Natural Gas."

AIEE - H106

Today - Prof. Wolff of the Physics Dept. on "Radio Astronomy."

ASCE - T107

Today - Speaker from the Lincoln Arc Welding Corp. on "Welded Construction."

December 23 - Nominations

ASME - H017

Today - Films: "Jet Propulsion" and "Diesel Engines."

Dec. 23 - Elections

Dec. 30 - Plant trip to Ford Motor Co.

Tau Beta Pi

Dec. 21 - Elections

Eta Kappa Nu

Dec. 22 - Elections

Chem E. Party

The annual Chem E Department Christmas party for Chem E seniors (only) shall be held in the Marlies Laboratory on Dec. 22, at 2:00 P.M.

Seeing Stars?

Prof. Robert Wolff of the Physics Department will lecture today on Radio Astronomy at 2:15, Room H106.

Using high frequency radio waves and a receiver instead of telescope, radio astronomy aiding scientists to explore and understand the universe.

Yuh mean Engineers get a Xmas Vacation?



Eggbeaters Galore

7:00 A.M., Dec. 4: The air was crisp, the street not yet alive with the enterprise of a great city. There was, however, a group of 38 mechanical engineers ready to begin a very enjoyable day, men who were going to the Piasecki Helicopter Company in Morton, Pennsylvania.

Mr. George Carson, host for the day, met us at the gate and escorted the group to the cafeteria for coffee and doughnuts. Mr. Carson told the group that the helicopter is not an aircraft which requires only the design knowledge of an aeronautical engineer. The skills of the mechanical engineer are also needed because the helicopter is a relatively slow aircraft, prone to vibrations, and derives its lift only from rotating airfoils. After his talk, Mr. Carson introduced Mr. Shear, who gave us an idea of the different types of Piasecki helicopters and of the future of this rapidly expanding industry.

At the present time the company is pushing the tandem rotor design for the following reasons: 1) Due to the end-mounted rotors the center of gravity can have a range of 35" as opposed to a very limited range in single

rotor ships; 2) All the power output from the motor is used for lift, whereas in a single rotor ship, part of the power is used in the rear stabilizer to produce the counter-torque necessary to prevent the ship from overturning. At the present time Piasecki Helicopter is making aircraft only for the armed forces.

The Eggbeater's Future

Mr. Shear predicts that in about 10 years many helicopters will be in commercial use. Among the interested prospects are the trucking companies, airlines and bus companies. The truckers today lose a great amount of their shipping time in congested cities. A helicopter could deliver goods to the center of the city and small trucks could do the distribution. Airlines could use the helicopter for short runs. Bus companies could use the helicopter to save passengers time and relieve congestion in the cities.

We were shown around the plant and then taken to the design and development section where 420 engineers and draftsmen were laboring under fluorescent lights. On those boards were helicopters which will make their debut in the year 1970.



Small Tandem Rotor Helicopter for Naval Service

REGISTRATION (LICENCING) OF ENGINEERS

Preliminary examinations for the Professional Engineering Licence in the State of New York are being given in January and June. The next examination is scheduled for February 15, and applications must be filed before January 14, 1955, with the Bureau of Professional Education, The State Education Department, Albany 7, New York. A fee of \$15 must accompany the application (make check or money order payable to the State Education Department).

Applications are available in Dean Allan's Office.

Background

All 48 states have enacted laws which require the licencing of engineers to aid in insuring that men in responsible engineering positions are competent to act with due regard for public welfare and safety. Many states recognize professional engineering licenses granted in other states, and the New York State Licence is one of the most widely recognized.

While it is true that many can do engineering work without a licence, most chief engineers are professionally licenced. With the exception of those engaged in inter-state manufacturing industries, men in responsible control positions who approve design drawings or who are in charge of maintenance and operation of various organizations must be licenced. Registered engineers are in a position to undertake responsibilities

and be eligible for advanced supervisory positions.

To be eligible, an applicant must be at least 21 and a graduate of an approved engineering school (City College is one). He must be a citizen of the U.S. or must have legally declared his intention of becoming a citizen. Lastly, he must have endorsements of character and aptitude from three engineers or teachers who are personally acquainted with him and his record.

The granting of the licence is based on written exams conducted by the State Education Department.

Examination

Parts (1) and (2) can be taken immediately after graduation. Each part is four (4) hours long, both parts being given on the same day. They cover Structural Planning and Design in which six (6) of twelve (12) problems must be answered, and the Basic Engineering Sciences in which seven (7) of fifteen (15) problems must be answered.

The final examinations are given four to ten years later as desired by the engineer. During this time the engineer must show satisfactory engineering experience which may be done in states other than New York. The final examinations cover: first, Engineering Economics and Practice; second, five questions from one or two of the following groups—Chem. E., C. E., E. E., M. E. (All groups of eight problems.)

Odds 'n Ends

1—The final requirement is an average of 75% in the three parts combined. However, all grades must be above 65% and only one mark below 75%.

2—Failure to qualify through final examinations within two years may require the repetition of the preliminary examinations. Parts one and two are regarded as simply parts of one examination and a failure in either part is recorded as a failure in the whole examination.

3—Reference books, text books, personal notebooks, slide rules and any other aids can be used by the applicant. Usually, the questions must be answered in ink.

4—Results are not available for several months due to the volume of work involved in grading.

5—Unsuccessful candidates may take a second examination for an additional fee of \$5.

6—Regulations and sample questions can be gotten from the Bureau of Professional Education, State Education Department, 23 South St., Albany 7, New York.

7—It is best to take the examination soon after graduation to get the most benefit from academic studies.

8—PE (1), (2), and (3) are non-credit courses offered at the college as a review for the Professional Engineering Exams. The fees are \$22, \$22, and \$1 respectively.

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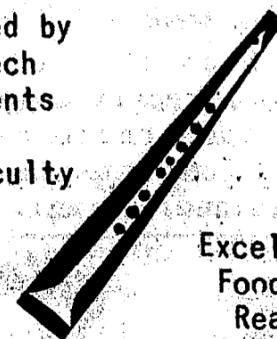


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Members and pledges in front of national habitat.



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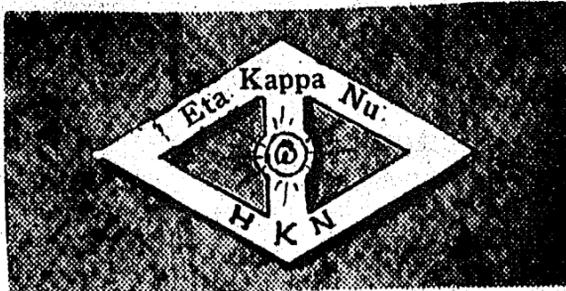
There Was Light

In recent weeks a great number of electrical engineers have been heard whispering these words in the halls of Harris and the Power Labs of the Tech building.

Hey there, you with the bulb on your shoulder. Are you afraid of the dark? What is that red diamond shaped emblem? What does the blue lettering mean? Why are you blinking to that fellow in the corner? Is this a new way to cheat on exams?

To calm these poor EE's we have done some investigation and we learned that this strange electrical object is worn by the pledges of Eta Kappa Nu, the honor electrical engineering society. The diamond-shaped object represents a bridge--electrical, that is--which is the national emblem of the society. The blue lettering on the bridge, ranging from ink to colored alphabet soup letters (taken from a bowl of freshly cooked Campbell soup), spell out Eta Kappa Nu, Beta Pi chapter.

The amazing things about these weird contraptions are the unique methods devised by the pledges to light up their bulbs. The very talented pledge hooked an R.C. oscillator to a neon bulb: he lights up better than the best of the marquees on Broadway. The maze of wiring and switches used have been hidden



Is this a new way to cheat on exams?

in the linings of jackets and sweaters and the switch may be so well hidden that the pledge himself has a very difficult time lighting up. The pledges have requested one favor of their friends: "Please don't slap us on the back, you may cause a short circuit."

The pledges of HKN are happy to say that they had a great time with their little bulbs, and that their main fear is ... what if the battery burns out?

ASCE Sees 'Skyhook' Structure

On Friday morning, Nov. 26, twenty not quite awake CEs gathered at gate B of the Terminal Bldg. of New York International Airport. They were there for the long-planned field trip.

After alighting from cars at the service end of the airport, the first thing to strike the eye was what looked like a structure in mid-air. What we were looking at was the new Lockheed aircraft hangar. The bare structure which had puzzled us was the "King Post," a truss affair.

When Lockheed Aircraft asked the Port of New York Authority for a 134x420-ft. hangar having one side completely free of columns the Authority's engineers came up with two such hangars suspended on either side of a two-story office and shop building. Columns projected above this central core act as "skyhooks" for the support of steel trusses cantilevered out 134 ft. on either side of the center frame. This bold structure is believed to be the largest suspension system ever used in a building. The upper structure is left bare since putting on a roof would furnish a great deal of unnecessary space which would have to be heated. It is a building of this sort that demonstrates engineers must not only be cold calculators, but dreamers too.

SUPPORT W.U.S. WEEK
December 16 - 23

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 Saturday, December 18, at 8:30 P.M.
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CAMPUS GRIDDLE



Slide-Rule League Bowling

Another round of the Bowling League elimination was completed Dec. 6th, as 6 teams fought to stay in the league. Since a loss of two games eliminates any team, AIEE and ASCE were dropped from the League.

Chi Epsilon, XE, succeeded in trouncing ASCE, with a total of 781-667 (top scores of 3 out of 4 players for the two games comprises the score). Paul Tedesco led XE to an easy victory with scores of 181 and 167. Helping hands: for XE, Frank Agardy, Henry Sikorski, and Lon Mejia; for ASCE, Alex Tuffano, Bill

Hurd, Flavio Franco, and Hank Epstein.

AICHe defeated AIEE 875-734

Ronnie Mini, 169 and 195, and Richard Ray, 146 and 189, led the ChE's to their first win. AIEE, due to their losses to SAE and AICHe, was dropped from the league. Helping hands: for AICHe, Gerald Kikin and Remo Agastini; for the EE's, Dave Citrin (with a high of 155), Fred Manasse, Howie Hillman and Vincent De Marco.

SAE tops ASME 899 to 830

The high man for the night was Marty Lerner, 211 and 146, for the SAE. Marty with the help of Walt Hewitt, 166 and 142, and Herb Geissler, compiled the highest total of the night. Walt Nazimowitz, 183 and 128, with Jay Bohrer, 126 and 138, and Larry Lashinsky, 144 and 111, bowled for the ASMEN.

HKN Goes Bowling

The members and pledges of Eta Kappa Nu celebrated the Thanksgiving holiday, after their regular Wednesday night meeting, by dining followed by bowling.

After eating a choice of Italian or Chinese food, the members divided into two teams: the poorer bowlers and the better bowlers. Oddly enough in the first game, the poorer bowlers turned up with an average score of 90.56 while the better bowlers averaged about 90.40. Howie Geller, vice president of HKN, upon learning this ordered a round of liquid refreshment for his "better" team in an effort to inspire them to higher scores. This added electrolyte boosted their potentials and in the next game they took a three-pin lead per man. After another charge, they pulled ahead by five pins.

It was decided that a prize of a free invitation to the initiation dinner would be given to the man with the top score. Howie Hillman, sparked by this inducement, plugged in his power supply and switched on the radar controls. He wound up with a total score of 348 for three games with a high of 138. Lennie Wertheim came in second with 346, with a high of 121. The evening proved so successful that HKN may hold another bowling party over the Christmas vacation.

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