



Bent Dedicated To Dean Hem

By ELAINE BOGAL

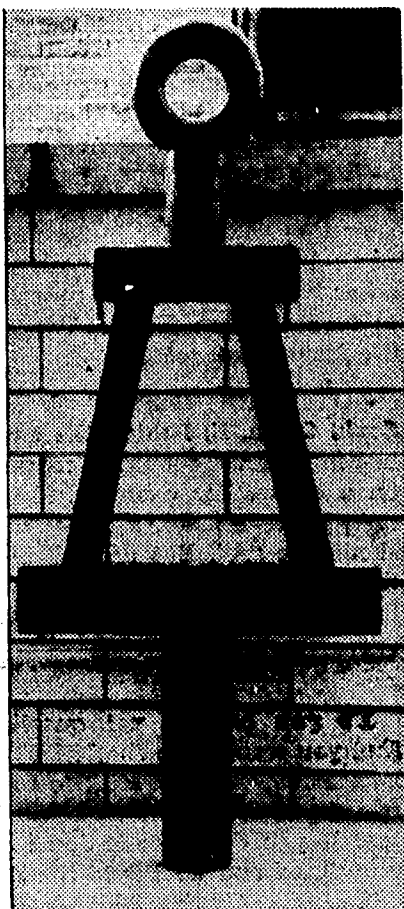
A bronze casting of the Bent, symbol of the national engineering society, Tau Beta Pi, was dedicated last Thursday to the memory of the late Dean Lawrence W. Hem of the School of Engineering and Architecture.

Barry Freedman, President of the society officiated at the ceremonies on the rear terrace of Steinman Hall where the Bent has been since last Spring. Guest speakers were Dean William Allen (Engineering and Architecture), Dean John R. White (Engineering and Architecture), Professor Undergrove and Professor Bischof, both of the Mechanical Engineering Department. Also present was Dean Hem's widow, Mrs. Edna Hem and his son, Mr. J. Hem.

Dean Hem, who was a Professor of Mechanical Engineering at City College was instrumental in the formation of the New York Eta Chapter of Tau Beta Pi in 1940 and was faculty advisor from that time until his death. It is hoped that "Dean Hem's" memory will serve as a goal to the engineering students of the future.

Tau Beta Pi is the leading Engineering Honor Society in the United States. It was founded in 1885 at Lehigh University for those men who had conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates in Engineering, or by their attainments in the field of Engineering, and to foster a spirit of liberal culture in the engineering colleges of America.

Juniors and Seniors in the top



Tau Beta Pi Bent

eight and fifth of their classes respectively in the School of Engineering and Architecture are eligible for election under rigid standards of scholarship, character, leadership, and service to the school.

ASME Signs New Members

By ROBERT BOGURSKY

There was standing room only at the October 8 membership and election meeting of the student chapter of the American Society of Mechanical Engineers. An active membership drive resulted in M.E.'s overflowing into the corridor outside Room S102. The promise of an interesting and informative year prompted the signing up of 45 new members.

The new officers, elected for the Fall term, are President, Walter Jandrasits ('65); Vice-President, Joel Nesson ('65); Treasurer, James McKeown ('65); Corresponding Secretary, Martin Berger ('65); Recording Secretary, Robert Bogursky ('65); and Publicity Chairman, Harold Michels ('65).

President Walter Jandrasits indicated that in the future it would be beneficial to combine A.S.M.E. meetings with those of the student chapters of the American Institute of Aeronautics and Astronautics and the Society of Automotive Engineers. In this way, students who are members of more than one of these organizations, as many M.E.'s are, would be able to attend all their meetings simultaneously, while the increased size of the resulting group would attract more lecturers from industry.

During the 12-2 break tomorrow, AIAA, ASME and SAE will meet separately to discuss the above proposal and plan the term's activities. Members and students wishing to join should consult these organizations' bulletin boards near the Mechanical Engineering Office in Steinman Hall for the location of these meetings.

Top Students Urged To Continue Studies

By JOSEPH BOCK

Students in the top third of their class were informed of the many fellowships and other opportunities available to them if they attend a graduate school. At a meeting of students in the top third of the class, and attended by the deans of the School of Engineering and Architecture and the Engineering Department heads, upperclassmen were urged to apply for graduate study.

Dean William Allen (Engineering and Architecture) stated in an address that, "many fellowships go begging and it is important that students know about them. Far more foreign students seek and obtain fellowships than our own American students." He believes that "shortly there will be a need for people in engineering teaching, and the only way to go into this is to go to graduate school."

Dean Hyman (Graduate Studies) pointed out that "it would be far more sensible for one to invest in himself than to invest a few thousand dollars in a car immediately after graduation as is usually done."

Dean White remarked that "many institutions actually come to us and ask us to send people."

Although it would have been impossible to name all the opportunities available, the students were informed about the major ones and were also told where to go for further information.

Because many students were confused by the new National Science Foundation fellowship system Dean Hyman explained it,



Dean Hyman

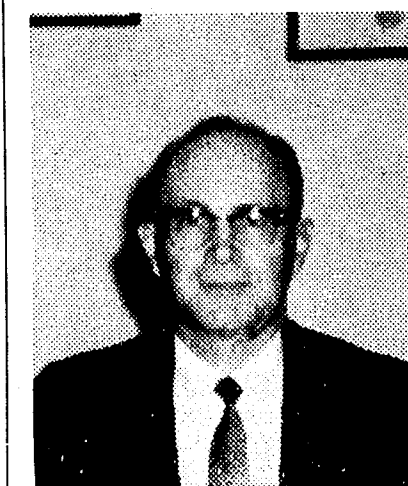
noting that the new system makes for a more even allocation of fellowships among schools. "I don't want to mention any names," he said jokingly, "but one of the schools that seemed to be getting all the fellowships had the initials M.I.T."

The students were urged to consult with the deans and advisers for graduate study in their respective departments.

ASCE Hosts Conference On Underground Planning

By NATALIE COHEN and BRIAN COHEN

"We have the finest engineering building and the most advanced programs and studies in the nation," in the words of Dean Allen. This fact made it possible for City College to be host for a conference of the "Permanent International Committee on Underground Planning and Construction." Present at the meeting were a group of American Civil Engineers inter-



Dean Allen

ested in underground construction, and one hundred officials from Belgium, Brazil, France, Israel, Poland, Scotland, Spain and the United States. The conference was conducted in English and when language difficulties arose Professor Jacques E. Ben-

veniste of the Department of Civil Engineering acted as a translator. Signs throughout the building were written in Spanish and French. Arrangements were made by Professor Richard Colten.

The meeting began with welcome addresses by Buell G. Gallagher, President of City College, Professor William Dean (School of Engineering and Architecture), and Joseph S. Ward, President of the Metropolitan Section of the American Society of Civil Engineers (ASCE). In addition to these talks, the program consisted of speeches by Mr. Dupeuble on "The Tunnel of Roseland" and a film in English; Mr. Londe and Mr. Martin on "Safeguarding the Temples of Abu Simbel; Mr. Boue on "The Tunnel under Mont Blanc" and a film in French; Mr. John Stewart on "The Clyde Tunnel" in Glasgow; and Mr. Edouard Utudjian on "The Channel Tunnel" and "the Restoration of the

(Continued on Page 4)

IAESTE Offers Training Abroad

By FRANCINE CURNOS

On-the-job training in foreign countries is being offered to students of engineering and science by the International Association for the Exchange of Students for Technical Experience (IAESTE). The greatest number of placements is available in the field of engineering. Fewer jobs are available to students of architecture, chemistry and physics.

The purpose of the program is to train advanced university students of engineering and the natural sciences in the industrial techniques of other nations, and to establish good will among these potential leaders and their host institutions.

Students participating in the program leave the United States about June 15 for the twelve week period to be spent abroad. IAESTE charters a plane which goes directly to Holland. The cost is \$300 a round trip which must be paid for by the student. The student must also pay any additional transportation costs from

there. Once working the company pays the student enough money to cover room and board expenses. Usually about eight weeks are spent at work and the remaining time may be used as desired.

IAESTE is a non-profit organization and the program is one of reciprocal exchange. The number of American students IAESTE can send abroad is equal to the number of foreign student trainees that can be placed in the United States. In January the applications from schools all over the United States are tabulated. Rep-

(Continued on Page 4)

Anti-Tuition Campaigning Continues

On Saturday, October 24, 1964, students from five of the City Colleges will hold the second of three district level anti-tuition campaigns.

Students will canvass the district of Assemblyman Robert F. Kelly (Rep.); and will hand out literature urging the residents of that district to remember that their assemblyman "voted against action to protect free tuition."

This term's district level campaigns are an outgrowth of the Spring campaign organized by City College Student Government in conjunction with CUNY Council. At that time, City University students canvassed four assembly districts and one senatorial district in Manhattan, Queens, and Staten Island.

"The Republican Legislators were shocked by the number of interested students that the City Colleges could turn out for their

(Continued on Page 4)



TECH NEWS

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MAIL DEPARTMENT LETTERS

Dear Sir,

I read with interest the article about the tutoring program for freshmen that is being coordinated by Dean White and the engineering honor societies. The members of Sigma Alpha, the honorary service society at City College, have been helping other students to "see the light" in all subjects for many years now. We do not feel that the other societies are competing with us; there is always more than enough business for all. Application forms are available in room 152 Finley and in the Sigma Alpha office in 340 Finley.

Sincerely,
Peter Weissman
Sigma Alpha,
Vice Chancellor

Dear Sir:

Last week an interesting search began in the Architecture Department. Many students were wondering why the fifth year design students were snooping in all classrooms, closets, and storage rooms in Gothals. They were looking for work submitted to the Department and retained for exhibitions throughout the college. (Have you seen any architectural exhibitions lately?)

After extensive investigation it was determined that most of the material retained was disposed of by the Department ostensibly due to lack of storage space. During registration week the student projects were carted off to the junk pile. It, however, never occurred to the Department to return work no longer needed for public display.

It requires much work and expense to complete architectural projects.

One group disposed of consisted of models and illustrated drawings of an urban renewal project which required a few thousand hours to complete — all that remains are ashes in the city incinerator. What is disturbing is that it did not occur to the Department to ask the students if they wished their work returned. A work of art submitted by a student remains his property even if retained by the Department for display purposes. PROJECTS SHOULD, THEREFORE, BE RETURNED — NOT BURNED.

Does the Department think that in the future a student will allow the school to retain his work if this is the result? They must realize that they hurt themselves as much as the students when they act in such a manner. THIS SITUATION MUST NOT RE-OCCUR.

Name Withheld by Request

TELELOGY, ETC.

By BOB TUTELMAN

My nose leads on
And I follow.
Guided through infinite plains
By veined canyons
Of chance and convention.
The valley
(If, indeed, there is a valley)
Lies ahead, obscured.
And I must
Ludicrously
Play out this fruitless farce,
The more comic
For my straight face.

Inquiring Technographer

By PHIL BURTON

QUESTION: Engineers are said to have a harder curriculum than others. Do you think that a special marking system for engineers is justified? WHERE ASKED: FINLEY HALL.

MYRNA KANAREK: Lower Senior, Sociology. I think if the engineers are graded in comparison with each other, their marks are relative to each other only, and that amounts to a system of their own anyway. When they enter the field, they will not be compared to English, History or Physical Education major but to each other.



Myrna Kanarek Jason Joseph

JASON JOSEPH: Upper Soph, English. No. I think that they should not have a special system. In the first place, courses are relative in degree of difficulty. Perhaps they are harder in the daily work load assigned. But on the other hand, they are not required to turn in term papers. Overall, the factors balance out.

ROY HENGERSON: Lower Soph, Chem. E. I think the engineering courses should be marked on a curve. For example, if the class average is 45, a 65 average should be "A". But an "A" in a liberal arts course should be equal to "A" in engineering. The per-

BIG CONTEST

Do you have a pet question that you would like the INQUIRING TECHNOGRAPHER to pose to some of his thousands of readers? If you do, write it down on a postcard and mail it to the INQUIRING TECHNOGRAPHER, c/o TECH NEWS. The prize for any question that is used will be the satisfaction of seeing your name in print as the submitter of the question. All entries become the property of TECH NEWS and in the event of identical questions, duplicate prizes will be awarded.



centage of students graduating with an average of "B" or better should be the same in the School of Engineering and the School of Arts and Sciences.

EDA RAK: Lower Junior, Art History. I don't think any courses should be marked on a preferential basis. If the knowledge required is that much greater for a certain course, in order to be good engineers, they must rise up to it.



Roy Hengerson



Eda Rak

ANNETTE HARCHIK: Lower Soph, Anthropology. You have choice by majoring in any field within the academic framework of the college, and are required to adhere to the standards of marking at the college. It is nonsensical to vary the standards in relation to the field. Besides, because of the standards that engineering students have to live up to, this school has maintained one of the best engineering departments in the country.



Annette Harchik Pedro Wilhelm

PEDRO WILHELM: Lower Freshman, EE. I think engineering students should have preference in marking because of the radical changes in technology and math courses. Engineering students are expected to absorb knowledge as fast as developments occur. Because of the time spent on lab courses and related courses, the engineering student should be shown some consideration by the marking system.



Council On The Loose

Student Council has overstepped its bounds once again. Passage of a motion naming Council as co-sponsor of a protest against Soviet Anti-Semitism indicates that the students' representatives have little understanding of their role.

Many were hesitant to apply the now famous "Students as Students" clause of the Student Government Constitution to condemn passage of a motion supporting school pairing. The common belief was that there existed a relationship between bussing of school children and students on the City College Campus, and now, through passage of that motion, a precedent has seemingly been set. Council now feels that it has free reign to pass judgment on any variety of issues which it is eminently unqualified to pass upon. Perhaps a presidential endorsement or a demand for unilateral disarmament will be next.

We can only reiterate what was stated in our last editorial and what was given further voice in a Campus editorial. We believe that Student Council must, according to its constitution, limit itself to issues which concern the 9000 undergraduates of City College as students. The line between student as student and student as citizen must be drawn. Ideally the student should function as both, but it is not for council to legislate good citizenship.

Service Please

The Cohen Library located on South Campus seems dedicated to the proposition that students will appreciate their education more if they are made to suffer while attaining it.

No other aspect of college life is as exasperating as taking a book from Cohen Library. The staff is inadequate to handle the number of book requests received and the result is endless delays. It is not uncommon to send a request slip in for a book, wait a half hour, and then be notified that your book is missing, or on the shelves. Another common sight is that of students lining up with request slips while a lone librarian, busily filing cards, refuses to help them.

One immediate solution to these problems would be to increase the staff of student aids and librarians, but here we are faced by City College's old stumbling block—lack of funds.

Only 13 More Days...

November 4 will be too late to do anything effective about free tuition. If we are to have success in our fight to preserve a 100 year tradition, we must work now.

The City University of New York is fighting a desperate battle which it can hope to win only through widespread support. The burden for determining the outcome of the battle rests squarely upon the shoulders of the student body of City College. Manpower is necessary to arouse an uninformed public to our needs. Victory is a must: Either we defeat the Republican representatives who oppose restoration of the free tuition mandate in the New York State constitution, or we can expect tuition within the next few years.

The outcome will be decided in the next 13 days. Students are needed to canvas electoral districts, hand out literature, drive sound trucks and fulfill other necessary duties. A large turnout may not insure victory, but a small one will guarantee defeat.

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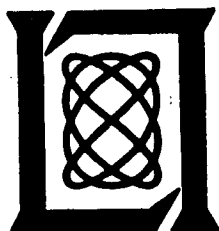
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WILL INTERVIEW APPLICANTS

OCTOBER 23

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MASSACHUSETTS

Sciences Open To Negro Women

Summer Program Indicates Group Has Vast Potential

A nation-wide campaign to recruit more Negroes, particularly women, into science, engineering and mathematics careers, was urged today by an engineering professor at City College.

"Too many Negro women are unaware of the tremendous opportunities open to them in mathematics and science, regardless of race, creed, color or sex," said Professor Cecile Froehlich. The professor based her conclusions on the results of an experimental Mathematics Enrichment Summer Program initiated last summer at City College. Dr. Froehlich served as curriculum coordinator for the program.

Ten Negro girls participated in the program designed to spur interest in mathematics for applications in career fields. It was jointly sponsored by the National Council of Negro Women and the Heineman Foundation. City College and New York University faculty members donated their services without charge.

The program offered courses in computer programming, mathematical applications in physics and engineering and included individual conference and workshop sessions.

The need for the program, Dr. Froehlich said, was initially demonstrated by surveys which showed that less than 3 per cent of American women college students majoring in the natural sciences are Negroes.

She added that one of the reasons for this small proportion is lack of awareness of opportunities in science and mathematics for Negro youth coming from small Negro colleges in the South.

Because observations indicated that there were mathematically talented girls in Southern Negro

colleges, the girls were chosen from this area. Primarily, the program aimed at providing these students with the kind of advanced work in mathematics which was not available at their own colleges.

Dr. Froehlich said that the basic purpose of the program — opening up new academic and professional horizons for those who have the necessary ability — was achieved. One participant, who had already received her bachelors degree, was immediately offered several job opportunities in programming.

In addition to attending classes five days a week, the girls took part in an organized extra-curricular program which enabled them to trade their views with students, teachers and professional people in related fields of mathematics and physics.

Classes in the non-credit courses were held both at City College's uptown center and at the YWCA at 125 Street in Manhattan. Facilities at the Computation Center of the School of Engineering and Architecture at City College, which included the use of its new IBM 7040 computer, were offered without charge.

Asked to evaluate the program afterward, one of the students commented, "by studying with you this summer, I have enlarged my vision and I can critically analyze my mathematical background and see where more emphasis should be placed."

The possibility of repeating the program next summer is now under consideration.

Faculty Profile: Prof. Pomeroy

By ARTHUR LANDESMAN

Mayor Wagner has been trying to solve the problem of what to do with artists deposed from lofts in buildings being torn down in lower Manhattan, as part of urban renewal. Professor Lee Harris Pomeroy is one of the architects working on a solution.

The basic idea is to provide sorely needed space for artists in an old warehouse which is being remodeled as part of the new Cadman Plaza development in Brooklyn. The warehouse, originally slated for demolition, is being renovated by Mr. Pomeroy to



Professor Pomeroy

exposed, in keeping with the flavor of an artist's studio. Sketches of the project were published in the January, 1963, issue of Progressive Architecture for which it received a Design Award Citation.

Another interesting project upon which Mr. Pomeroy is now working is the conversion of a large old brownstone building which will eventually house six families. Mr. Pomeroy, in renovating and redesigning the brownstone, and working closely with the five other families who, together with him, own the house cooperatively. The architectural students hope to be invited to see this new house when it is completed.

Among work recently completed by Mr. Pomeroy, or in the planning stage are a beach house on Fire Island and a new post office for an upstate New York town.

Mr. Pomeroy, the newest professor in the Department of Architecture, is a graduate of Rensselaer Polytechnic Institute where he received his Bachelor of Architecture in 1955, and of Yale University where he received his Master of Architecture degree in 1961.

Before joining the staff at C.C.N.Y. Prof. Pomeroy was associated with the Architects Collaborative in Cambridge, Mass., and with Abe Geller and William Tabler, architects in N.Y.C. He now has his own practice here in New York. He has also been a Visiting Critic of Design at Pratt Institute from 1962 to 1964. Mrs. Pomeroy teaches Greek and Latin at Hunter College.

include ceramics and woodworking shops in the basement. The lobby will contain a gallery to display works done by the tenants. One of the outstanding features of the renovation is an exterior terrace with an excellent view of the New York harbor, an ideal setting for an artist to work. On the interior, the brick structure and timber framing are left

Computation Center Offers Lecture Series

The Computation Center at The City College is equipped with an IBM 7040 computer including five magnetic tape devices, a 1402 card reader, a 1403 printer and ten keypunches. It is located on the basement level of Steinman Hall in rooms 2, 3, 4 and 5. It is intended that this machine be used for undergraduate and graduate instruction and for faculty and student research problems.

In the interest of providing instruction in the use of the computer, three series of lectures are being offered. These lectures will deal with the basic principles of computer programming using the MAD (Michigan Algorithm Decoder) language. Moreover, detailed explanations will be given on how to use card punches and prepare card decks for the solution of problems by the computer. All persons attending the lectures will have opportunities to use the computer for assigned problems.

The lectures are open to all members of the faculty and student body of the City University in both the day and evening sessions. The schedule is as follows:

SERIES I

Thursdays: October 22, 29, November 5, 12, 19
Time: 4:00 to 5:40 P.M.
Place: Shepard 306
Lecturer: Professor Ming Pei

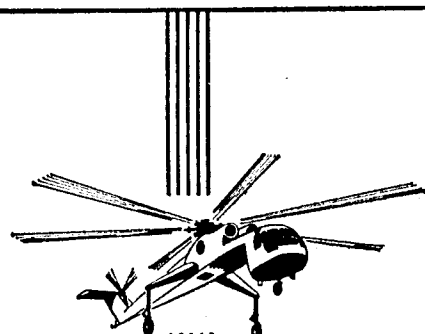
SERIES II

Mondays: November 23, 30, December 7, 14, 21
Time: 4:00 to 5:40 P.M.
Place: Shepard 306
Lecturer: Professor D. Eitzer

SERIES III

Wednesdays: November 18, 25, December 2, 9, 16
Time: 6:30 to 8:10 P.M.
Place: Steinman 123
Lecturer: Professor D. Eitzer

No advance registration or formal enrollment is necessary. Please plan to attend a complete series.



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Conference... Tuition...

(Continued from Page 1)

Basilica of the Holy Sepulcher" in Jerusalem.

A catered buffet was then served in the Heat and Power Laboratory, room T08, of the Department of Mechanical Engineers in Steinman Hall, instead of going to the cafeteria. Dean Allen's comment on this was that it was "most convenient not to push people all over the place. People who were not in time for morning session, arrived in time for lunch and the afternoon session."

The afternoon session consisted of a panel discussion on the topic, "Underground Traffic Facilities." Joseph S. Ward presided, William



Mr. Gilman

S. Smith, Chairman of the Highway Research Board discussed the relation of hard use to Highway Traffic Movement and Robert H. Gilman, Director of the Port Development of the New York Port Authority, spoke on "the Role of Underground Facilities in Traffic Planning."

The program of Friday, October 16 consisted of a visit to Rockefeller Center and the Chase Manhattan Bank. Then at the World's Fair, a meeting was called at the International Pavilion and General Motors Pavilions and there was a meeting at the Hall of Science. The final meeting of the group as a whole was a banquet at the Statler Hilton that night.



Learning about a European buffet.

25,000 EUROPEAN JOBS

Grand Duchy of Luxembourg — 25,000 jobs in Europe are available to students desiring to spend a summer abroad but could not otherwise afford it. Monthly wages range to \$300 and jobs include resort, office, child care, factory, farm and shipboard work. \$250 travel grants will be given to the first 5000 applicants. Job and travel grant applications and full details are available in a 36-page illustrated booklet which students may obtain by sending \$2 (for the booklet and airmail postage) to Dept. O, American Student Information Service, 22 Ave. de la Liberte, Luxembourg City, Grand Duchy of Luxembourg.

(Continued from Page 1)

rallies. Mr. Amann practically begged us not to send students into his Assembly District, which he had won in the 1962 elections by only 600 votes. By the end of our Spring campaign many Republican legislators seemed to be wavering, and only the pressures exerted on them by Governor Rockefeller prevented them from bolting the party on this issue." Martin Kauffman '65, Student Government treasurer, concluded that "this term's campaigns must be even more effective because the general elections are vital. This may be our best, but last chance to maintain FREE HIGHER EDUCATION."

Students should meet for the coming rally at the 133rd Street gate of the College on Saturday morning at 10:30 a.m. Boys should wear suits and ties and bring along an overcoat in case of rain. Girls should wear skirts, not slacks.

IAESTE...

(Continued from Page 1)

representatives from IAESTE locate jobs in Europe and match each job to an applicant. Last year IAESTE placed 133 students in Europe, nine of them from City College. This year 31 countries representing Europe, Asia and Africa will participate.

In the past, students who have taken part in this program have submitted very favorable reports. They find the jobs challenging, not dull routine.

Upperclassmen who wish to apply can obtain application forms from Dean John R. White (Department of Engineering and Architecture) in room A 205. The deadline for filing is December 23, 1964. A registration fee of 25 dollars must be submitted with the application. Those students whom IAESTE is able to place will be informed in March.



Club Notes

YASAS

Once again the Hellenic Society (Evening) calls to the fold all its sons and daughters. Come to the Organizational Meeting on Thursday, October 29 at 10 P.M. in Rm. 419F.

ETA KAPPA NU invites:

All those who are interested in hearing a speaker from Raytheon speak on the transition from college to industry: Wednesday, Oct. 21, at 5:15 P.M. in F424.

All those who are interested in hearing a speaker from Consolidated Edison of New York; Wednesday, Oct. 28, at 5:15 P.M. in F424.

All those who are interested in hearing a speaker from Union Carbide; Wednesday, Nov. 4, at 5:15 P.M. in F424.

Pi Tau Sigma

Pi Tau Sigma, the national mechanical engineering fraternity, will hold its meeting of eligibles for the fall term at 5:15 P.M. today in room F440.

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Our Representative Will Be On Campus October 29, 30

For interview, see your Placement Officer, or write Supervisor of College Relations, Personnel Department

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