

TECH



NEWS

SCHOOL OF TECHNOLOGY

OL. VI NO. 1

THURSDAY, FEBRUARY 14, 1957

By Student Fees

Deputy Mayor To Talk At Forum

Student activities during the month of February will be climaxed by an illuminating talk on the subject "Engineering Problems and Projects of New York City" by leading municipal government officials.

Tech Interfraternity Intersociety Council (TIIC) sponsored event, the meeting will take place on Thursday, February 28 in Townsend Harris Auditorium at 12:00 p.m., and will be addressed by the Honorable John J. Theobald, P.E., Deputy Mayor, City of New York, John C. Riedel, former Chief Engineer of the Board of Estimate, and Philip Bweck, Deputy Chief Engineer, New York Transit Authority. It is to be noted that Dr. Theobald, who taught hydraulics, waterway, and sewerage courses, was a member of the Civil Engineering Department at C.C.N.Y. several years ago. After the talk, a panel consisting of representatives of city agencies employing engineers, will answer questions asked by students.

(CONTINUED ON PAGE 9)

Engineering Day Program Outlined

Arthur Zussman, EE '58, publicity man for Engineer's Day, has announced that demonstrators are needed for E-Day. Usually, each of the member organizations sponsor and carry out exhibitions in their own departments. Upper classmen are preferred and those interested should contact their department chairman or the officers of their respective engineering societies. Last year's enjoyable demonstration program will be repeated - while several other E-Day events have been enriched and extended. On Friday, April 5, there will be a student-faculty tea. On Saturday, April 6, demonstration festivities will be followed by an E-Day ball, to be held in the Finley Center Grand Ballroom, at which time the winner of the Miss E-Day Contest will be announced. Besides extending invitations to people from industry and high school seniors, as has been done previously, pre-engineering students from Hunter, Queens and Brooklyn colleges will be invited also.

Stahl Reviews TIIC Program

The activities under the Tech Interfraternity Intersociety Council (TIIC) sponsorship this coming term are as interesting as they are numerous. Headed by Dave Stahl



DAVID STAHL, TIIC PRES.

and Ed Ungar, the new president and vice-president respectively, TIIC is embarking on several new programs but are still planning to keep the already successful ones, such as the Slide Rule Basketball League.

Two symposiums have been planned for the coming semester. The first, occurring on Feb. 28, will include discussions of Civil Service job opportunities by John Theobald and other prominent New Yorkers. Near the end of the term, men from industry will discuss the facets of business management.

The Personal Development Program (formerly LDP) will have three important meetings this coming semester. An all-day

(CONTINUED ON PAGE 5)

BRENNER VACATES PERSONNEL POST



Mr. Brenner

The Placement Office announces the resignation of Mr. Saul Brenner, former Assistant Placement Director, which became effective February 8. He has accepted a position with the Polarad Electronics Corporation as Personnel Manager.

Mr. Brenner received his Bachelor of Arts degree at City College in 1952 and joined the Placement Office in October 1954, after serving in Korea. His initial position at the College was that of Acting Director of Placement during the absence of the former Director, Mr. John Bonforte. Mr. Brenner's primary interest was the placement of graduating seniors. He held numerous orientation lectures for them in which he briefed them on such items as obtaining information about the company prior to their interview, proper dress at interviews, and many other points pertinent to obtaining employment. Extra-curricular activities, Mr. Brenner felt, ranked with grades and personality in importance.

Mr. Brenner had also been instrumental in developing a rather extensive program for summer employment and had encouraged many firms to interview and accept summer employees.

Mr. Schnaebeler, Director of Placement, said, "I am very unhappy to lose Mr.

(CONTINUED ON PAGE 5)

BUY VECTOR...

Tech News

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DAY SESSION

K. Abend, M. Berger, F. Edelstein, S. Fenick, L. Gastwirt, N. Goldman, G. Kramer, R. Liebman, C. Markowitz, S. Max, K. Muenz, J. Oppenheim, R. Rifkin, M. Rizzo, M. Rosenberg, F. Ruf, B. Schlein, S. Sellinger, R. Sheldon, S. Sklar, M. Sternberg, N. Stochel, B. Streifer, G. Turrian, W. Weber, R. Weinberg.

EVENING SESSION

N. Voulgaris, J. Bolakia, M. Block, J. Eschuk, C. Halkias, L. Miller, R. O'Malley, D. Simpson, V. Siouris.

Composition & Printing by
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Tech Topics

One of the great assets of golden youth is its ability to rebound from disaster and face the future with hope, determination and enthusiasm. This is quite aptly demonstrated by many of us, as students, at the beginning of each semester. It is with a fortitude that would surprise the heartiest campaigner that we are able to muster such great strength after leaving behind us a wake of chaos and tragedy. If we probe deeply enough into our memory we can probably recall those final hectic days of the semester when we were struck by the fact that some work would have to be done.

You had promised yourself that all the work that should have been done during the term was to be made up over the Christmas vacation - eleven whole days (why that's enough to cover two terms work). Of course you had to figure on going out New Year's Eve and its after effects - - also one more day of rest. All these contingencies taken care of, a schedule was mapped out (it took

at least two and a half hours to do that); it accounted for every minute of your day (and night). Miraculously enough, you found it provided you with twelve hours of study time and you still had eight hours left over for sleep. Four hours were allotted for

"miscellaneous." You figured you could probably cut miscellaneous down to three hours, thus increasing the time for study to thirteen hours per day. It was astounding, but you found yourself with over one hundred hours to devote to a mere five subjects. Actually, you knew that you didn't need more than six or seven hours to catch up in every course; why, it was just a matter of learning some new stuff that you missed back at the midterm-- the rest was just rehashing old stuff. Everything really wasn't bad. You could afford to relax a bit-- so-o-o, Sunday, you watched television (very educational on Sunday), Monday you went skating; Tuesday, you relaxed; Wednesday you tried hard; Thursday, you visited a friend; Friday, a friend visited you; Saturday you tried hard; Sunday, (getting panicky), you went to the Forty-Second Street Public Library for concentrated work; Monday, New Year's Eve; Tuesday, New Year's Day and the Rose Bowl; Wednesday, you were back in school and crying.

Now the pressure was on and another schedule was constructed rather hastily. Miscellany now cut down to a bare minimum-- twenty minutes a day). This time it simply said: "Monday- STUDY! Tuesday-STUDY! etc. etc." But it was rather difficult to study since you found yourself trying to prepare for an exam which had been postponed by the instructor for six weeks since the midterm. Your remarks about him weren't exactly as complimentary as they were six weeks ago, when that "swell guy" inaugurated the first of his five postponements.

With three exams staring you in the face on the first day of end term week, you finally sobered up and began studying (the big guns had turned). After wheeling and dealing through a labyrinth of circuits, structures and equations, you arrived at the conclusion, 3 a.m. Monday morning, that it is quite impossible to complete the term's work in a certain three credit course in time for its final at 8 a.m. of the same day. It was at this point that you decided to try and learn "principles" to get you through (it's not really difficult at three in the morning).

The next three days were a living nightmare and, no matter what the outcome, you vowed it never would happen again. You proved by practical experimentation that it was your adrenal glands and not NoDoz that pulled you through seventy-two hours with nine hours of sleep.

In any case, we look to the future with confidence and know full well that it shall never happen again, never!



STUDY COURSE GIVEN

"A voluntary, non-credit course in remedial reading and effective study will be offered this term. The class will meet twice a week for eight weeks. Regular attendance and some home study will be required. No fee will be charged for the course. Interested students should report to an organizational meeting to be held today in Room 217 Finley Hall. Upper classmen are asked to report at 12:30 P.M. and freshmen at 1:15 P.M. Students should bring an extra program card to this meeting to facilitate arrangement of convenient class hours."

INDUSTRIAL FAIR

Ed Unger, V.P. of THIC, announced that an industrial Fair may occur during the Fall '57 semester. The format will be similar to that of the E-Day affair. However men from industry, and not the student body, will conduct the exhibits.

VECTOR CALLS

Vector, the engineering magazine, is presently accepting technical papers for publication in the March issue. Typewritten articles will be accepted until February 21. For further information contact Phil Spiegel or Stanley Small, co-editors of the publication, at the Vector office in Room F 329A.

"FINAL" PLUNGE

Timothy Kirby, CH. E June - '57, has succumbed to the charms of Miss Dolores Desmond. The former Miss Desmond became Mrs. Kirby on Jan. 19th.

FACULTY PROMOTIONS

A total of 45 members of the City College faculty have received promotions, including six engineering teachers.

Promoted from associate professor to professor are: Percy L. Apfelbaum (Chemistry); Harold V. Walsh (Drafting); William W. Brotherton and Paul Hartman (Civil Engineering); and George N. Garrison (Mathematics).

From assistant professor to associate professor: Chester B. Kremer (Chemistry); Henry S. Myers (Chemical Engineering); James R. Steven (Civil Engineering); Harold A. Rothbart (Mechanical Engineering); Henry Malin and Jesse J. Powell (Mathematics); and William T. Hunt, Jr. (Electrical Engineering).

From instructor to assistant professor: Hiram Hart and Harry Lustig (Physics).

Roaming Through The Stacks



LILY AND LANCE

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you sit there slaving over a hot lab
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don't you wish you had the nerve to
e something out of the ordinary just
e if you get caught? If that's the case
switch to chemical engineering where
nited vistas stagger the imagination.

ant Design, Ch. E. 198, taken in the
semester, is a course where from 3
students join forces to completely
gn a plant and by the end of the term
produce a bound volume (or two or
e) to show how, where, and why it will
uilt. However, there seems to be an
itten law which says that within the
ten pages anything goes.

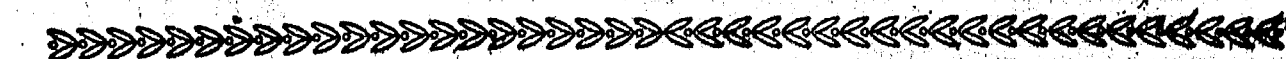
a rather impressive, somber-looking
entitled, "Butadiene from Butylene".
e is a page that is headed, "Typical
Exchanger." It unfolds to the mag-
ent length of 61 and 1/2 magnificent
es of Lily St Cyr brandishing a sword
little else. However, Lily is over-
sed when compared to "Miss Synthetic
erine of 1955" (subtitled "Ain't She
t"), a sugary young thing reclining in
altogether on a tiger skin in a plant
gn produced January 1956.

to be outdone, "Glyoxal", (June
yields a blond nude, with a red
et backdrop, called "Golden Dreams"
a lucid explanation "... And at this
stage the Glyoxal is just going into
make tank..."

is same erudite thesis has a rather
le and haunting dedication, "... to
men who are fated to die in the ex-
on which will occur should this plant
uilt; to their widows and orphans; to
foreman who will end his days in
on for criminal negligence should this
be built..."

In "Oil Shell Retorting," the dedication
reads, "We are highly indebted to inmate
#346087 at the Lynchfield Home for the
Feeble-minded; only two weeks ago he was
a member of our squad." However, per-
haps the most touching and sincere dedica-
tion of them all appears in "Acetone from
Isopropanol". It is a stirring plea to the
late Prof. White, former chairman of the
Ch. E. Dept. It reads "To George Edwin
White, without whose instance, neither
this nor any other plant design would
EVEN HAVE BEEN CONTEMPLATED."
Lance Sterling

Feb. 10-16 is National Engineering Week.



no need to
fish around

Say friend, have you been hankering for the longest time to
join a spirited organization? Are you anchored to a pillar of
confusion? Can't you decide on the right one?

Stop "fishing around" pal! Cast off that yoke of uncertainty
and diffidence; reel in the thought that a dedicated and en-
lightened group does exist on this campus in search of new
members to complete its staff.

Steer your energies and talents through useful channels;
"hook-up" with TECH NEWS, the only newspaper at the
college which numbers members from the Day and Evening
Sessions; the Schools of Liberal Arts and Science, Technology,
and Education; and both sexes (yes, we have six comely
females on our staff).

There still are openings in such fascinating divisions as news, features, art, editing,
stenography, photography and business. Why not stroll down to the TECH NEWS office,
F335, today and ask for Ralph (Duckie) Mednick, who will be more than delighted to
acquaint you with the paper.

SUMMER PROGRAM TAKING SHAPE

The summer job program is progressing,
with more and more companies pledging to
come to the college to interview students.
The Placement Office, under the leadership
of Mr. Frank W. Schnaebele, is now en-
gaged in writing to those companies which
have not as yet responded to our summer
job program.

Most of the students applying for summer
jobs have received instruction, but for those
who haven't there will be another orienta-
tion assembly on February 18, at 4:30 pm
in the Townsend Harris Auditorium.

Juniors and Lower Seniors are naturally
in a better position to meet the require-
ments for a summer job although there are
many firms seeking Upper Sophomores.
Since there has been a heavy turn out of
about five hundred students, interviews will
be limited to only three per student. Natur-
ally, a qualified person may write to any
company on his own.

The Placement Office has stated that
since more companies are pledging them-
selves to come to the campus, it will issue
in the near future a supplement to the
original list of companies coming to C.C.
N.Y.

**LORENZO MAY WATCHMAKER
AND JEWELER**

SPECIAL RATES FOR STUDENTS

1623 AMSTERDAM AVENUE
NEAR 140TH STREET

Contest for Miss E-Day

You are a voluptuous example of feminine pulchritude standing in a darkened room, breathing heavily, as you see hundreds of attentive eyes trying to probe into your very soul. There are several other girls standing nearby as you await the long overdue word. During those fate-filled minutes your mind wanders back to that day several months ago when, while walking through the cafeteria, you spotted a slide rule on the floor. You picked it up and read aloud the name you saw on it, Joe Smith, ME'58. He came towards you to retrieve his crutch, and it was love at first sight. He had a K & E, and you had a 36-24-34. Then he entered you in the Miss E-Day Contest; you became a finalist and as a result, a guest at the E-Day Student-Faculty Tea yesterday, April 5th. This morning you and the other finalists were given a guided tour through the Tech School, seeing exhibits and demonstrations that were viewed by over one thousand people from industry, from other colleges, and from our own CCNY. Now here it is April 6th, 1957 and here you are at the E-Day Ball awaiting the judges' decision. A decision that is to mean many valuable prizes, the envy of every other female on campus, and a deepening of Joe Smith's (and every other Joe's) love for you if you win.

The M.C. steps toward the microphone. The resonant tones of his voice echo across the hall. "I take great pleasure... the winner is" You've won; you're Miss E-Day of 1957! Good, now you can get rid of that uncouth Joe Smith.

MISS E-DAY OF 1975

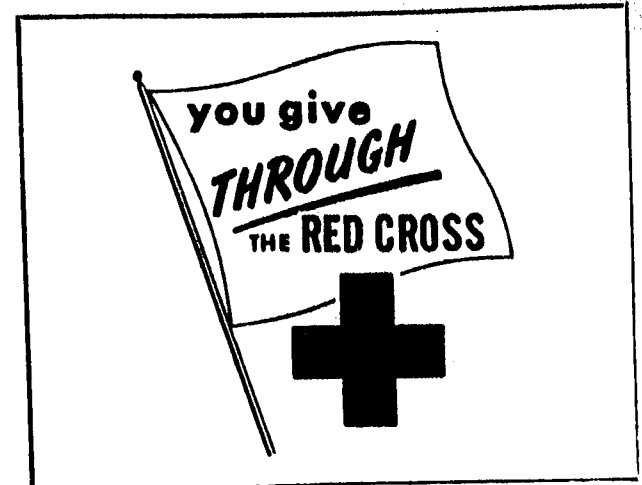


This little story should be taken in a jocular vein, of course. However, the new Miss E-Day Contest is the real thing and is being sponsored by TECH NEWS in cooperation with the Tech Interfraternity Intersociety Council (TIIC) and the E-Day Committee.

The pictures of two finalists will be printed in each of the next three issues of TECH NEWS. On Saturday, April 6th, Miss E-Day will be selected from among the six finalists. Valuable prizes and the esteem of the college awaits the winner, so why not enter your sweetheart in the contest today.

- The rules of the contest are simple:
1. Candidates may be entered by any CCNY student or society.
 2. CCNY Day and Evening Session female students are eligible.
 3. Information blanks are available in the TECH NEWS office, F335.

Robert Weinberg



THE CITY OF NEW YORK

Invites You To

A Meeting

Thursday, February 28, 1957

Speaker : Hon. John J. Theobald, P.E., Deputy Mayor, City of New York.

John C. Riedel, former Chief Engineer, Board of Estimate.

Philip Brueck, Deputy Chief Engineer, N.Y.C. Transit Authority.

Subject : Engineering Problems and Projects of New York City Government.

Panel : Following the talks, a panel consisting of representatives from 20 city agencies will answer questions.

Time : 12 Noon

Place Townsend Harris Hall Auditorium
Amsterdam Avenue & 139 Street

An Employment Interview

Friday, March 1, 1957

Time: 9.15 A.M. - 4.30 P.M.

Place: Grand Ballroom
Finley Student Center
133 Street & Convent Avenue

See the Placement Officer for an interview appointment!

Jobs available upon graduation

No written examination for graduates

File an application by March 7, 1957

For applications and additional information consult your Placement Officer or write or call the

DEPARTMENT OF PERSONNEL

299 Broadway, New York 7, New York CO 7-8880, extension 32 or 107

Saturday session will be by invitation only. Very enlightening and will take place.

As usual, the force behind the event include a student and demonstration on April 6th.

TIIC has an Office of Public Relations to publicize events, the Placement Office, the formation of which will be an interesting and greater part of activities according to the idea of thoughts of greater number of eradicating line that separates from the rest of this operation engineering and development activities and

Brenner as welfare of CCNY he had been producing the success of looking for office. He sure we'll has summary have come Mr. Brenner day. The advancement reason for with the P Mr. Brenner serve the active in the He enjoyed back upon the tious satisfaction says Mr. Brenner of it."

TIIC & STAHL

(CONTINUED FROM PAGE 1)

Saturday session, where participation will be by invitation only, should prove to be very enlightening. Two further meetings will take place on Thursday, at 5:00 p.m.

As usual, TIIC will be the driving force behind Engineer's Day. The activities include a student-faculty tea, on April 5th, and demonstrations and the Engineers' Ball on April 6th.

TIIC has also formed the Placement Office Publicity Committee which will publicize events and offerings emanating from the Placement Office. Also anticipated is the formation of a TIIC Publicity Committee which will announce TIIC events and other interesting, related occurrences.

This semester, there will be a greater participation in Student Council activities and student affairs by TIIC, according to Dave Stahl. This is geared to the idea of presenting the opinions and thoughts of the Engineering School to a greater number of the student body, and of eradicating the invisible but existing line that separates the engineering students from the rest of the college. Of course, if this operation is to have any success, the engineering students must shed their apathy and develop a greater concern for college activities and school politics.

BRENNER ...

(CONTINUED FROM PAGE 1)

Brenner as he had a sincere interest in the welfare of City College students. Moreover, he had been of great assistance in introducing the work of the Placement Office to me. I know Mr. Brenner will make a success of his new venture and I will be looking forward to his dealings with this office. He is really a great guy, and I'm sure we'll all miss him." Mr. Schnaebele has summarized the feelings of all who have come in contact with Mr. Brenner.

Mr. Brenner's new position began Monday. The opportunity for "future growth advancement in private industry" was his reason for leaving. Though his position with the Placement Office is terminated, Mr. Brenner indicated he will continue to serve the college community by becoming active in the Alumni Placement Committee. He enjoyed meeting students and looks back upon two and a half years with gratuitous satisfaction. "It was a lot of work," says Mr. Brenner, "But I enjoyed every bit of it."

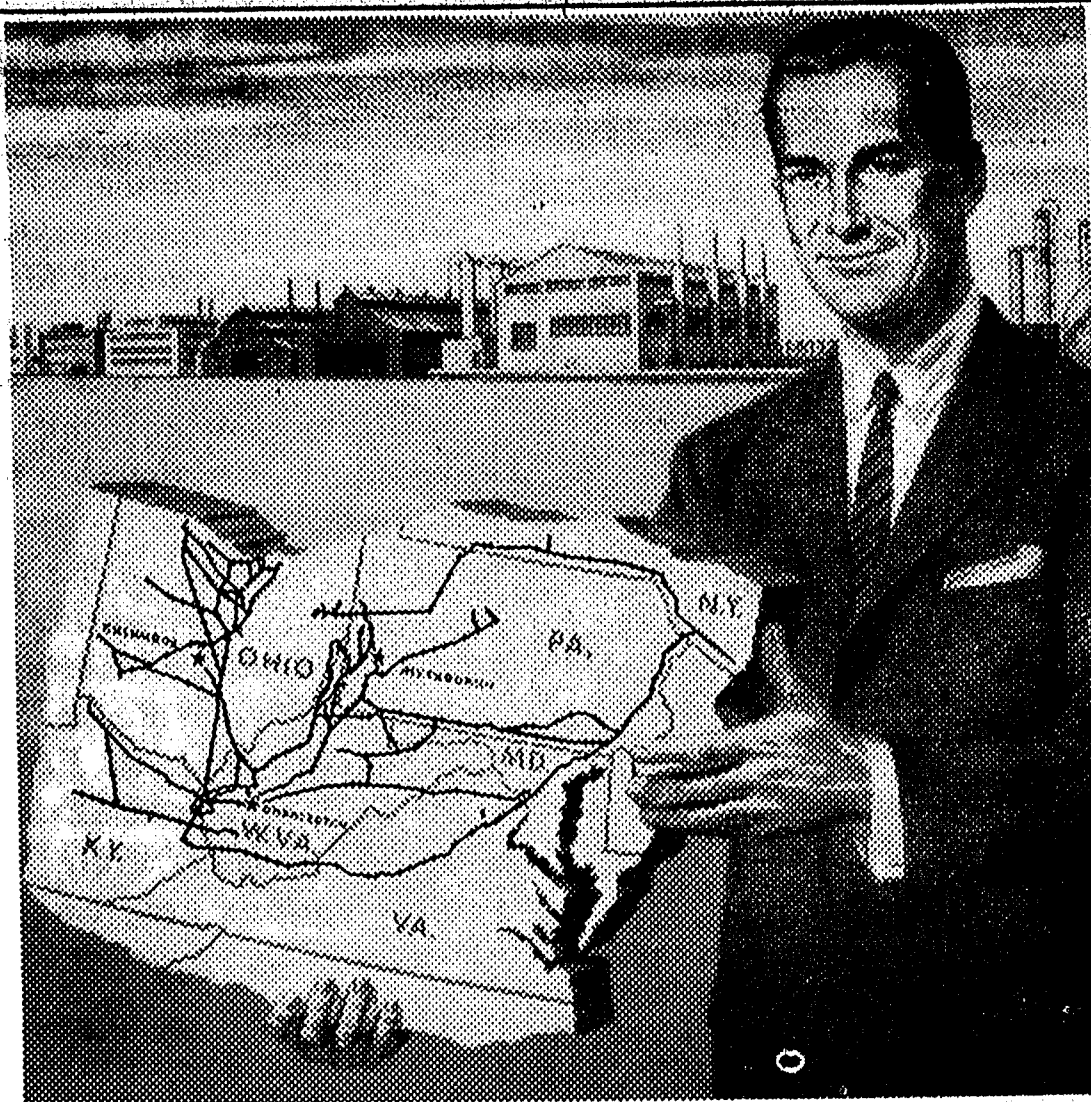
Ken Abend EE '58

John's City College

Barber Shop 75c

4 Barbers - No Waiting

1616 AMSTERDAM AVENUE
OPPOSITE CITY COLLEGE



Here's a perfect place
... to build your career!

The Columbia Gas System offers you, as an engineer, the perfect place to grow. The seven states Columbia serves with natural gas—Ohio, Pennsylvania, New York, Maryland, West Virginia, Virginia and Kentucky—comprise one of the fastest growing areas in the country. And natural gas is one of the fastest growing industries in the U.S.

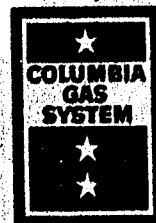
This growth combination means many rewarding careers ahead for young men with ideas.

Variety in your job, promotion from within, an individualized training program—tailored to fit you—and liberal employee benefits, are some of the things Columbia Gas offers.

If you are a chemical, civil, electrical, mechanical, welding, petroleum, or general engineer, our representative would like to talk to you during his visit to your campus soon.

(On campus interview date March 15)

THE COLUMBIA



GAS SYSTEM

120 EAST 41ST STREET • NEW YORK 17, N. Y.

"...Hell on Wheels" -REGISTRATION

Huddled together as if there were safety in numbers, the crowd anxiously awaits the next move, chatting amiably but knowing full well that danger is imminent. A sudden hush falls over the audience as a rather huge gentleman boldly strides forward and with chalk in hand unsympathetically ruins that "perfect" program. Thus, another registration has begun.

Those who went through this registration can at least be thankful that the Tech School now does its registering in the Great Hall and not in Room S105 where it was held until September, 1955. According to Irving Kritzman, EE '57 one of the tallymen, "It was Hell on bicycle wheels." Very often S105 would be filled to overflowing and the familiar cry of "You can't do this to me," resounded through the halls.

But back in 1946, registration for the entire uptown college, Liberal Arts and Tech was held in one room, indicating how greatly Tech registration has increased in the last 10 years. At present, roughly 3 of every 7 students at CCNY are in the School of Technology.

No matter how trying it may become, registration is certainly not without its lighter moments. Herb Schorr, EE '57, one of those who calls out your classes to the tallymen, fondly recalls the time an enthusiastic freshman was so grateful he was through that "... he kissed me, I just didn't know what to do."

Or when a very energetic chap demanded they return his white registration card because he had a conflict and when finding this could not be done, he grabbed the card and sprinted away only to be cornered in the cafeteria.

Almost legendary is the case of the nervous sophomore who somehow managed to pick up the previous term's schedule of classes and almost went the distance unmolested past the shocked workers.

There's always someone who thinks he can beat the system and register early; but for sheer gaul, nerve and quick thinking it would be difficult to top the co-ed who snatched somebody else's baby and insisted that her classes be opened because she was a mother!

SAMUELS JOINS PLACEMENT OFFICE

The placement office announced the appointment of Mr. Ivan Samuels as assistant director. No newcomer to the College, Mr. Samuels has a baccalaureate in Arts and was the president of A.P.O., the school's service society. Recently completing a three year tour of duty with the Navy, the new assistant placement office director was previously employed by the Winton Churchill Corp. of North Carolina as branch manager.

TECH NEWS extends a cordial welcome to Mr. Samuels in his new position.

KNOW YOUR PROFESSION

The curriculum of the School of Technology, adequately prepares the engineering student for his future in industry. What is seemingly lacking though, among tech students, is a sufficient background which would enable him to develop his professional interest.

It is the work of the four major professional engineering societies to aid the student in attaining a wider social development. These campus organizations, AIEE-IRE, ASCE, AICHE, and ASME-SAE-ASTE attempt to meet their needs through their various programs.

Electrical Engineers

The AIEE-IRE student organization can boast of being the largest society on campus with a present membership of over 250 electrical engineering students. A Thursday lecture series has been planned that includes such varied topics as servomechanisms, transistors, radar, and computers. Both members and non-members are invited.

This semester AIEE-IRE is promoting a campaign to obtain new members among lower classmen. The presidents of these coordinated organizations, Nat Stochel, EE '58 and Bob Schnebolk, EE '57, feel that although the sophomore is limited because of the number of engineering courses completed, he can gain a great deal by attending the lecture series. A better insight for



NAT STOCHEL (AIEE)

future decisions can be obtained by listening to the visiting engineers discuss various problems. It is important for the student to fully realize the immense scope of the Electrical Engineering field.

A field trip and student faculty smoker are in the planning stage. An exact schedule of meetings and activities will be posted on the AIEE-IRE bulletin board located at Tech Crossroads.



L. to R. BOB SCHNEBOLK, MILTON KEILES (ASCE), AN DUBROVSKY (AICHE), and J. HIL (TIC)

Civil Engineers

ASCE has planned a wide variety of events. A diversified program of lectures and films have been scheduled which will enable the civil engineering students to gain contact with procedures and practices in industry.

The first lecture of this series will take place today and concerns itself with the United States Geographical Society. Arrangements have been made for "Schnebolk for the Giant" to be shown on Feb. 2. This film, a product of the U.S. Corp Eng. deals with flood control of the lower Mississippi Valley. A new concept in town planning will be discussed on March 7. The Levittown development in Pennsylvania will be reviewed.

President Dom Accetta is proud to announce the completion of arrangements for an ASCE essay contest. Its primary purpose is the encouragement of individual students. Entrants will have the Civil Engineering labs at their disposal and final judging will be based on submitted research papers. Thus, ASCE will provide the opportunity for preparing, presenting, and discussing individual project papers.

Requirements for membership are completed or presently completing engineering credits, and a fee of \$10. New members however, will pay

Members also attend the society's technical Engineering Building. Admission to members.

Chemical Engineers

This semester the chemical engineering department's program of lectures is now being arranged. These talks include:

1. Esso Research
2. American Chemical Society
3. Lipton Food

These talks are being given under engineering student conditions. Also planned is a summer job information session of social sports activities. A group will be formed for students who need extra-curricular activities.

James Kehoe feels that with the extra-curricular activities, the means

PROFESSIONAL SOCIETY

Mechanical Engineers

The three societies ASME-SAE-ASTE will work together to acquaint the mechanical engineer with the diversified phases of his field. Within a coordinated lecture series and activities program, each society caters to its own following.

ASME members receive the national monthly publication "Mechanical Engineering." President Milt Kiles ME'57, is completing negotiations for a field trip. Sport activities include basketball, bowling and softball.

SAE concerns itself with transportation devices propelled by self-contained power plants. President Al Dubrow ME'57 is proud to announce that Raymond Lowe will visit the college as a guest of SAE. His talk will be on sports cars. Another lecture is being planned where aeronautics will be discussed.

The membership fee is \$3.25. This covers such benefits as the use of the SAE employment placement service to the SAE Journal.

Tentative sights for field trips are the Ruppert Brewery (to inspect their power plant) and either Bethlehem Steel or American Machine and Foundry.

ASTE - Two lectures this semester will deal with "Modern Trends to Hydraulics in Machinery" and "New Types of Tool Bits - Ceramic and Carbide." Possible plant sights for field trips are Pratt Whitney Aircraft, Grumman Aircraft and the Home Life Chain Saw Corp.

Membership is \$3.00 per year to cover the cost of the Tool Engineering magazine.



B SCHNE AN DUBROW (SAE),
ILES (AS HL (T I I C), NORMAN
(ChE)

Members also benefit through the use of the society's technical library in the Engineering Building on 39th Street. Admission to the ASCE Ball is free to members.

Chemical Engineers

This semester, brochures are to be printed and distributed to acquaint the chemical engineering industry with the department's progress. In accordance with its introduction to industry a schedule of lectures is now being planned. Tentative arrangements have been reached with:

1. Esso Research
2. American Zinc Institute
3. Lipton Foods

These talks are designed to acquaint the engineering students with present field conditions.

Also planned for this semester are a summer job information program, an expansion of social functions and an increase in sports activities. A guidance and orientation group will be available to all Chem.E's. This service provides tutoring aid to those students who need help with their technical courses.

James Kehoe, corresponding secretary feels that with a well-rounded program of extra-curricular activities, AlChE will provide the means to solve the present problems

COMEDY FEATURED AT E.E. SMOKER

Great Britain has given the world Gilbert and Sullivan, the U.S. has donated Rogers and Hammerstein, and on January 21 C.C. N.Y. presented Ritzer and Brown whose production of "My Fair Laddie" will probably be a standard to be repeated at all AIEE-IRE and term smokers.

Long famous for plagiarizing anything they can get their hands on, Messrs. Ritzer and Brown outshone themselves when they produced a technicolor sound film which had as its plot the slightly familiar theme of a very erudite gentleman (Prof. Hansteen) proclaiming to a colleague (Mr. Ritzer) that he could pick any semi-literate bum (Mr. Brown) off the street and convert him to an E.E. The audience roared with delight as the above mentioned gentleman sang such never-to-be-forgotten numbers as: "Get me to the Class on Time," "Why can't the E.E.'s learn Ohm's Law?" "Obtain the Gain and Plot the Complex Plane," and of course "I've Grown Accustomed to this Place."

The entire tone of the affair was set when the Chairman of the Electrical Engineering Department, Prof. Froehlich, delivered an extremely witty speech on how she is able to give away slide rules annually. Among the recipients was Elliot Nagelberg, voted outstanding sophomore by Eta Kappa Nu, the electrical engineering honor society.

For those who stayed around until the lights dimmed there was an added bonus as they were treated to an impromptu, hilarious dissertation by Mel Rubinowitz, a then Graduating Senior, who poignantly described how in nine semesters he managed to accumulate a C+ zero average, despite the rigors of the R235 open book final.

L.S.

Diamonds Sparkle at Tech Gathering

The General Electric Laboratories will present a lecture, demonstration and film dealing with their progress in the field of High Temperature and High Pressure Work. One interesting phase to be discussed will be G.E.'s development of a process to produce synthetic diamonds.

This event is made possible through the coordination of the Metropolitan Student Council. The council is a federation of the AIEE-IRE undergraduate organizations of twelve eastern colleges. Representing the City College and holding the office of president and vice-president respectively are Herbert Schorr, EE-57 and Herbert Goldman, EE-57.

Following a procedure similar to that of last year's color television presentation, the lecture will be held in the Engineering Building, 32 West 39th Street, on March 1st, at 7:00 PM. Refreshments will be served.

Student Activities Day, also sponsored by the Council will take place on Friday, April 12 at the Polytechnic Institute of Brooklyn. Featured will be a student paper contest with a \$500 Graduate Scholarship as a first prize.



MERRIT NESSIN (ASTE)

President Merrit Nessin hopes that this term, through the coordinated efforts of the three M.E. societies, the mechanical engineering student will be acquainted with the various and diverse aspects of his field.

The society presidents wish to emphasize the need for students to keep abreast of their programs and activities. This can be accomplished by constantly consulting the respective bulletin boards at Tech Crossroads. Keep posted.



"Yes, you'll start in the thick of things as a Burroughs engineer."

(Put yourself in this student engineer's shoes for a minute as he asks a Burroughs representative some important questions.)

Q. *What do you mean I'll start "in the thick of things"?*

A. I mean you'll start on the work you're trained for; you won't be a man who gets lost in a shuffle.

Q. *What kind of work would be open to me at Burroughs?*

A. Research and development in ballistic missiles, electronics, computation, data processing, optics, magnetics, communications and electro-mechanics—to mention a few.

Q. *Will all my work be in defense?*

A. No. Burroughs is a worldwide leader in the business machines and data processing fields. Of course, we've many defense contracts too. And that involves fascinating work in mechanics, electro-mechanics and electronics.

Q. *Are all your plants in Detroit?*

A. No. We're really on a global scale. Detroit's the home office, of course. Our big research center's in Pennsylvania. We have plants in New York, Michigan, New Jersey, California and Pennsylvania in the U. S., and in Canada, Great Britain, France and Brazil.

Q. *What about my future at Burroughs?*

A. We at Burroughs feel that young engineers are the key to Burroughs' future expansion. Though our engineering staff has increased seven times since the end of World War II, we are just on the threshold of our biggest expansion. This, plus our promotion-from-within policy, assures an outstanding future for engineers joining Burroughs now!

Q. *What about retirement plans, hospitalization, vacations—you know, the fringe benefits, I think they're called?*

A. Burroughs is noted for these! In fact, Burroughs pioneered many of them. You'll have hospitalization insurance for both you and your dependents, secure retirement, and educational aid programs, paid vacations and sick benefits, to mention a few.

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ALUMNI TO PRINT RESEARCH ASSISTANTSHIPS

JOB RESUMES

Advantages of Graduate Study Cited

The placement office, with the aid of the Alumni Association, has developed a new plan for the arrangement and preparation of job resumes. In the past the Seniors wrote up their resumes and had them printed by a private firm. However, beginning this year, the Alumni Association will undertake the job of printing the resumes at a cost of four dollars per hundred, which will afford a great saving for the student.

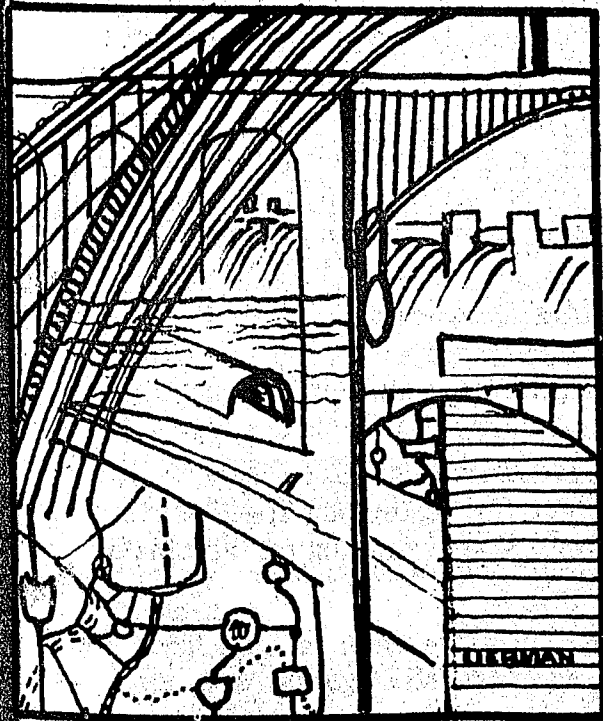
In order for the resume to be accepted by the Alumni Association, it must be typed or printed in a clear and clean manner following closely the suggested format handed out by the placement office. This material should then be presented to the receptionist at Alumni House (141st Street and Convent Ave.) with his four dollars. The resumes will be ready three working days after the order is submitted.

FORUM...

(CONTINUED FROM PAGE 1)

These students interested in learning more about Civil Service job opportunities for graduate and summer employment would find it to their advantage to attend the meeting. For the convenience of the engineering major, the New York City Department of Personnel will conduct employment interviews on Friday, March 1, in the Stanley Student Center. Appointments for interviews should be made beginning Feb.

Full time job applications for junior engineering work commencing in either June or September (depending upon when you graduate) must be filed no later than March 7, 1957. All that is required for



these junior engineering jobs is possession of degrees in civil, electrical or mechanical engineering. There will be no written test. A booklet, summarizing the current opportunities for engineers with the government of the City of New York, includes a description of the benefits, advantages, and privileges of city employment may be secured in the Placement Office.

Tom Weiss, class of '56, who penned the following article, is presently working as a research assistant in the Dynamic Analysis and Central Laboratory at the Massachusetts Institute of Technology (MIT). A student leader in his undergraduate days, Tom held such important position as E-Day chairman and President of IRE. He is a member of Tau Beta Pi and Eta Kappa Nu, national engineering honorary societies.



THOMAS WEISS EE '56

I am a little puzzled that so few CCNY students are interested in Assistantships. I can understand some of their apprehensions about loss of salary, but I am convinced that the credits outweigh the debits, when all the facts are assembled on the issue of Assistantships vs. Professional Employment.

Firstly, let me describe what an assistantship at MIT entails. The most trying aspect of an assistantship at MIT is whether one is admitted to the Graduate School as a regular graduate student. The waiting lists are long and requirements for admission are high. With some exceptions, a B+ average from an accredited school is required. Once a student meets this requirement and is accepted for graduate studies, he can usually choose to teach undergraduate courses as a teaching assistant. In any case once the admission requirement is met, the rest is easy.

Work in the laboratory is on a 40 hour per week schedule, but time off is given to attend classes, general lectures and meetings on campus. The salary is \$240 per month (from which taxes are also deducted).

Permit me now to describe more generally the relative advantages of an assistantship. From my limited experience as a research assistant in the Dynamic Analysis and Central labs, I have been struck by one important fact - the academic atmosphere which surrounds all work and time spent in the laboratory. This may sound a little

vague, but I consider it by far the greatest advantage of my job. The purpose of the lab is not to roll things off an assembly line but rather to surround the research assistant with stimulating work from which knowledge and insight can be gained. Problems are continually being discussed among assistants and supervisory personnel. The atmosphere is conducive to scholarly inquiry, and the natural instinct of the research assistant becomes one of searching for an understanding of basic engineering problems.

In addition to being faced with challenging problems, the research assistant also attends classes as a half-time graduate student and in this way he is able to supplement his laboratory work with theoretical courses designed to expand his academic horizons. As a result, the research assistant completes his graduate studies in better than half the time it would take a professional engineer. This I consider an important advantage especially for a doctorate candidate since it makes an average curriculum feasible.

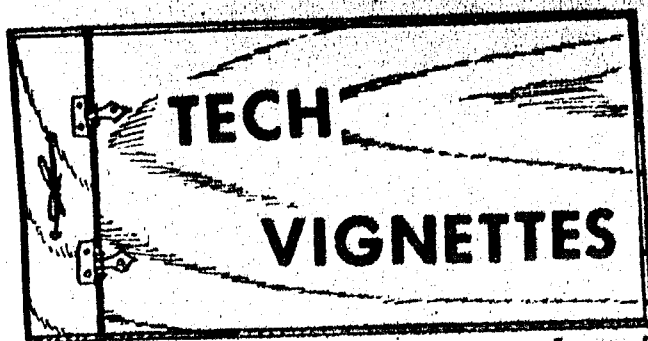
The third eminent feature of an assistantship concerns the thesis requirement. This requirement can be met on laboratory time. The assistant usually is assigned to a project that offers several opportunities for thesis investigations. This advantage makes the completion of the thesis accessible in about one semester.

The following are several other advantages which are associated with the position of assistantships:

1. There is more time available for studies.
2. It is possible to teach during one or more summers and thus determine if this is an interest which you would want to further.
3. There is ultimately no loss of money since the salary to be made with a Master's degree more than makes up for the initial loss.
4. Assistantships are available in diversified fields to qualified applicants.



When you work and study on an assistantship basis, your program depends on one thing alone - your own initiative and ambition. Since supervision is at a minimum, you can choose to do nothing and therefore, you will get nothing out of it. You must learn to work on your own and not allow yourself to fall into the trap of lethargy.



"Every summer I travel to my farm in New Hampshire and spend the vacation attempting to duplicate Newton's original experiment . . . that is, I sit under a tree and wait for an apple to fall on my head." So speaks Prof. John Sanford Peck of the Department of Civil Engineering.

During the school year, however, Dr. Peck is quite active. Besides his busy teaching schedule, Prof. Peck also reviews technical manuscripts for the Harper's Book Publishing firm. When the occasion presents itself, Prof. Peck serves as technical adviser on concrete mixtures in which capacity he is one of the country's foremost authorities. Most recently, he developed the mix which was used in the construction of the Morris Cohen Memorial Library here at the College. Previously he designed the mixture for the footing of the George Washington Bridge on the New Jersey shore.

Aside from his professional accomplishments, the erudite Prof. Peck is a fine pianist and can be considered an expert on the German operatic composer, Richard Wagner.

Born in 1893, the 63 year old scholar is a product of the Ivy League. In 1915 he was graduated with honors from the Civil Engineering School of Columbia University.

After several years of industrial experience and a tour of duty as an officer in the U.S. Air Force, Dr. Peck received his M.A. in 1932 at Columbia. No stranger to scholastic honors, Dr. Peck wears the keys of Tau Beta Pi and Chi Epsilon, national engineering honor societies. At present, Prof. Peck is the Secretary of the General Faculty at City and has served as its Chief Marshall.



In 1953 Prof. Peck took a sabbatical leave and journeyed to England to study the English methods of education, with emphasis on Technology. He has served on the Columbia University faculty and is a trustee of several smaller institutions, among them Urban University in Ohio.

Tom Nugent, Jr. '57

Vector Soon

VECTOR, the College's engineering magazine since 1937, has devoted its latest issue to those developments in Nuclear Science and Engineering which have been most significant in the past twenty years.

A special feature describes the C.C.N.Y. reactor and its value to the College and the Atomic Energy Commission. Subsequent articles deal with "Nuclear Instrumentation", an authoritative paper on the reprocessing of atomic fuels, and a "Nuclear Reactor Survey", which describes the differences in theory and design of the various reactors in present use.

Those who enjoy looking at pictures will like the photographs of various scenes at Brookhaven National Laboratory, the site of "Vector Visits" for this issue.

The magazine will be on sale at Lincoln Corridor, Tech Crossroads, Townsend Harris Hall, and outside Knittle Lounge soon. The price remains \$.25 although this special issue has grown to 48 pages



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TO ARRANGE AN INTERVIEW

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TECH BREAKAGE SPIRALS UPWARD

Frank Ruf, EE'58

Chairman, EE Lab Insurance Committee

This semester, as in the past, Eta Kappa Nu, the electrical engineering honor society, has sold insurance to cover breakage in E.E. labs. The HKN lab insurance plan is not, as some students think, a profit-making proposition. The insurance is provided as a service to the school and is a financial risk to HKN, as the insurance is not underwritten.

When policies are sold each term, we hope that the breakage will not exceed the income. This has been the trend until the summer session of 1956. Since then breakage has increased beyond our expectations and income. To verify this statement the following figures are provided.



Manual says close switch and observe results.

Income:	Summer Session 1956	\$161
Breakage:	Summer Session 1956	\$208.
Income:	Fall Semester 1956	\$602.
Breakage:	Fall Semester 1956	\$866

(incomplete)

The society has a reserve which is used when the breakage exceeds the income. However, this reserve has been dissipated, and this has left the chapter with no other alternative except to increase the cost of each policy. In addition, a one dollar deductible clause has been added; that is, a student will now be required to pay one dollar towards any breakage greater than one dollar. In this manner, we hope to cut down on breakage resulting from negligence and carelessness.

Unless breakage is substantially decreased, this new policy will remain in effect.

NEW JOB LISTINGS

CODE: C-CHEMISTRY, P-PHYSICS, M-MATH, S-SUMMER.
LOCATION IS NOTED BY STATES.

DATE	COMPANY	LOCATION	DEGREE
SUPPLEMENTARY LIST OF COMPANIES VISITING CAMPUS			
Mar. 1	Griffiss A.F.B.	Rome, N.Y.	EE ME M P S
Mar. 22	Bendix Systems Div.	Ann Arbor, Mich.	EE MEE
Mar. 1	Griffiss A.F.B.	Rome, N.Y.	EE ME M P S
Mar. 22	Bendix Systems Div.	Ann Arbor, Mich.	EE ME M P
Apr. 8	NJ Dept. of C.S.	N.J.	CE ME EE CHE C M
Apr. 12	Leed & Northrup	Phila. Pa.	EE ME CHE C P
Apr. 26	City of Phila.	Phila. Pa.	CE
Apr. 26	Norden Ketay Corp	L.I.	EE
Apr. 29, 30	NY Naval Shipyard	B'klyn.	CE EE ME P
May 1	Nuclear Dev. Corp.	White Plains	ME CHE
May 6	NY Shipbuilding	Camden, N.J.	CE EE ME P
May 10	City of Milwaukee	Wisc.	CE S
May 26	Sonotone	Elmsford, N.Y.	EE CHE ME C P

SUMMER LIST OF COMPANIES VISITING CAMPUS

Mar. 4	Cornell Aero. Lab.	N.Y.	S EE NE M P
Mar. 8	RCA Research Lab.	N.J.	S Grad. Sr. Only
Mar. 8	Esso St. Oil		All
Mar. 13	Kearfott Co. Inc.	N.J.	S All
Mar. 13	Port of N.Y. Auth.	N.Y.	S All
Mar. 15	Raytheon Manu. Co.	Mass.	S EE top 1/2
Mar. 18, 19	Remington Rand Univac	Pa.	S EE ME top 1/5 & up
Mar. 20	Balt. & Ohio RR	Md.	S CE Jrs.
Mar. 20	Melpar Inc.	Wash. D.C.	S All
Mar. 22	Bloomington	N.Y.	S Jrs & up Lib. Arts only
Mar. 25	Hooker Electrochemical		S All
Mar. 27	Calso		S top 1/4
Apr. 3	AVCO	Conn.	S All
Apr. 5	U.S. Geological Survey	N.Y.	S All
Apr. 8	U.S. Naval Air Devel.	Pa.	S All
Apr. 9	Anaconda Wire & Cable		S CHE CE ME EE Jrs & up
Apr. 12	U.S. Naval Test Station	N.J.	S All
Apr. 12	Vertol Aircraft		S All
Apr. 30	CGS Labs. Inc.	Ohio	S All

Prepare for interviews with companies visiting campus.
Brochures available for your perusal in Room 104 Finley

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ME's Capture TIIC Crown

TO AID TECHMEN

This term the Personal Development Committee of TIIC has created a dynamically new arrangement for its Personal Development Program (PDP). The Program revolves about a series of conferences (Symposiums), the purpose of which is to enlighten the engineering student on the non-academic skills necessary for professional success. Various leaders from industry will conduct these Symposiums in small, informal lecture-discussion groups.

To attend you must request from the president of your tech society one of the two registration forms available to him. A fee of three dollars will also be required.



LEONARD APPEL, ME'58

The first Symposium will be held on Saturday, March 2, at Finley Student Center. The morning session will include a forum on 'Professional Success' led by men from industry.

Following lunch, the afternoon session, consisting of three concurrent meetings, will begin. One group will meet with members of the Speech Department while another group will be addressed by a member of the Placement Office. The third group will deal with the problems of 'Human Relations'.

Leonard Appel (ME'58), chairman of the Personal Development Committee, urges all those interested to contact their tech society president soon.

For those unable to attend the Symposium there will be three Thursday meetings at five o'clock. These meetings will be free of charge and open to all students. Further details will be announced at a later date.

CLASSIFIED ADS

Student Advertising, rate: 4 cents a word. Inquiries may be addressed to TECH NEWS, Student Finley Center, F 335

Large room for rent, reasonable. Apply Dave Oppenheimer, 600 West 141 St., Apt. 64. Call between 5-6 PM.



FRONT: L. TO R. CHARLES GESSNER, EDDY FISCHBEIN, EUGENE OSHVA
BACK: L TO R. DICK MATUSEWICZ, MANNY BORNSTEIN, ARNIE GROSS, STAN SCHWARTZ.

In a presentation made at the ASME Ball of Dec. 22, the TIIC basketball championship trophy was awarded to Manny Bernstein, member of the winning ASME team, and high scorer for the season, by Prof. Schlemer of the ME department.

A possible tie was averted on the final night of play when ASCE was beaten by AIEE. With George Jensen and Karl Fritsch hitting consistently, the CE's were able to hold the lead throughout most of the game. However, the EE's led by Rowon Rifken and Charlie Hallas proved too much for them. In the first game of the night, the ME's were awarded a forfeit victory over AICHE.

The preceeding week, with Stan Schwartz scoring 13 points, ASCE defeated AICHE 35-6. Aaron Rosen scored 8 points for the losers. Ed Rietz, captain of the CE team, and now an instructor in the CE department, finally broke the ice for the season, and scored four points. The second game was a wild and wooly affair in which AIEE played a temporary spoiler role with ASME to the tune of 39-38. The teams were led by Manny Bernstein and Dick Matusewicz for the ME's and Charlie Hallis was high scorer for the victorious EE's.

Final Standings

ASME 7-2
ASCE 6-3
AIEE 5-4
AICHE 0-9

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SPORT PROGRAM
TO START SOON

Tech students not yet initiated in the TIIC sponsored sports program will get their opportunity this term. A full and varied schedule is being planned. Included in this program are basketball, bowling, softball, and handball.

Join your engineering society early and find out about these activities by keeping in touch with its Sports Chairman. Schedules of games for all these events will be posted on the TIIC bulletin board at Tech Crossroads.

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