

## TECH



## NEWS

## SCHOOL OF TECHNOLOGY

DL.V NO. 3

THURSDAY, NOVEMBER 1, 1956

BY STUDENT FEES

CIRCUIT COURSE  
STREAMLINEDby Stan Sellinger, EE'57  
and Sid Sklar, EE'57

After a sweeping change of curriculum, the Electrical Engineering department is offering E.E.104 as the first course in their required sequence.

This new course deals with the analysis of electric circuits and differs greatly from the first course in the old curriculum, E.E.100, in that it introduces the student to time-varying sources in general, rather than d-c sources in particular. According to Prof. Brenner and Prof. Javid, co-author of the EE 104 notes, the emphasis is on simple circuits with all types of sources rather than complicated circuits with simple batteries.

Although E.E.104 is more mathematical than its predecessor, it also lends a more basic physical understanding to circuitry. After the student fully understands the behavior of simple circuits the transition to more complex networks will be a smooth one. Students taking the new course have stated that it is easy to understand since everything follows in a clear, logical manner.

Moreover, the new course is essentially a logical re-arrangement of material which is presently taught as part of several prescribed and elective courses. However, the philosophy and approach of E.E.104 is quite different and it is hoped, more effective.

## HOOVER HEARD AT TAU BATE CONFAB

The highlight of the 1956 convention of Tau Beta Pi, the national honor engineering society, was the address by Herbert Hoover, Jr. The Undersecretary of State, who was initiated into the society during its

COLLEGES OFFER  
GRADUATE BONANZA

BY ARTHUR GELB, EE'58

The idea of furthering his education beyond a Bachelor's degree has, of course, occurred to many a prospective graduate. There are at his disposal several means by which an advanced degree may be obtained with a minimum of expense. Among these are the assistantship, the fellowship and the scholarship. It is worthwhile to consider the possibility of obtaining aid in one form or another.

Under a research assistantship, work is carried on in the research department of the school involved. Generally, a Master's degree can be obtained in three to four semesters on the "half-time" basis.

The teaching assistantships allow the student-teacher to carry approximately three-quarters of a full time graduate program. Reappointment varies with satisfactory work and maintenance of a prescribed grade level.

Fellowship imply full time study and research, with no service to the school required. They are awarded on the basis of merit and financial need. The fellowship covers tuition, fees and similar costs, and leaves the recipient with a cash stipend large enough to minimize

(cont. on page 2)

51st conclave, held October 11, 12, and 13 at the University of Kansas, called his initiation a "high honor" and told the assembled delegates that "our future policy in the field of education and the training of scientific and engineering personnel will play a major part in determining the outcome of world affairs in the years ahead."

The City College's New York Eta chapter was represented by its president, Mitchell Rosen, who served on a four-man panel discussing chapter activities before the entire group; the

MITCHELL ROSEN  
PRESIDENT OF TAU BETA PI

chapter display of New York Eta's activities occupied a prominent place and drew much favorable criticism.

The convention, supported in its action by CCNY's delegate, also approved a constitutional amendment allowing the admission of women to Tau Beta Pi for the first time. The move, however, awaits the ratification of the 100 undergraduate chapters.

# Tech News

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## A WELCOMED CHANGE

The more seasoned Tech student has witnessed since his arrival at CCNY many gratifying transformations, from changes in the curriculum to an extension of the college to the South Campus. The change in the scholastic standards was particularly welcomed, especially to the electrical engineer.

Based on performance in a sequence of courses, depending on the student's major field of interest, the new academic regulation instituted by the faculty is a mature, carefully outlined attempt to inhibit the student from entering a field for which he is not suited. Also incorporated in the new ruling is a guidance service, where the wayward sophomore and junior can pause and discreetly reconsider his degree objective.

A constructive ruling of this sort will do much to further enhance the name CCNY on the lips of those in the engineering profession.

## SOCIETIES CHOOSE

The engineering honor societies at the college held elections on the weekend of Oct. 19th. Tech News wishes to congratulate the following students selected to pledge for their respective societies. The selections were based upon academic standing, potential in engineering and service to the school.

Eta Kappa Nu, the honorary electrical engineering society:  
 UPPER SENIORS- Michael Angelo Laviola, Joseph Maggi, Solomon Max, Norman Pollack, Oscar Rosenes, Stanley Sellinger, Irving Smith.

LOWER SENIORS- Stanley Alterman, Dan Barber, Paul Davies, Paul Fleming, Norman Kurland, Rowen Rifkin, Marvin Zeichner, Arthur Zussman.

UPPER JUNIORS- Kenneth Abend, Arthur Gelb, Donald Silverman, Nathan Yagoda.

Pi Tau Sigma- honorary mechanical engineering fraternity:

UPPER SENIORS- Herbert Weinstein, Vincent Padavano, Bohdan Bereznyky, Alan Letow, Hyman Cohen.

LOWER SENIORS- Bernard Goldberg, Arnold Cooper, Arnold Bresnick, James Johnson, Michael Levokove, Bamy Raften.

UPPER JUNIORS- Gerald Lieber, Elliot Dembner, Randolph Crossfield, Stanley Small, Morton Rosenberg.

Chi Epsilon- honorary civil engineering fraternity:

UPPER SENIORS- Ronnie Check, Joseph Conigliaro, Constantine Pappas, Vincent Volpicelli.

LOWER SENIORS- Gerald Bergh, Lawrence Powers, Harold Rothbart, Paul Shenkman, William Tucker.

UPPER JUNIORS- Norman Garner, Gene Sellar.

## REUTHER SPEAKS TO ALUMNI

The Alumni Association of City College will hold their 76th anniversary dinner on Wednesday evening, November 14, in the Grand Ballroom of the Sheraton-Astor Hotel. Walter Reuther, president of the United Automobile Workers, will be the principal speaker.

## FELLOWSHIPS...

(cont. from page 1)

the need for outside work. Continuation of a fellowship generally depends on the maintenance of a prescribed minimum average.

Scholarships, which are stipends in amounts up to the entire tuition fee usually depend on a strong scholastic record, and imply no work for the school concerned.

Some colleges offer counselling assistantships, which might consist of work in the Student Counselling Center, Student Activities Center, Office of the Dean of Students or Residence Halls. This, too, would be of a part time nature.

In general, the requirements for fellowships, assistantships, or scholarships are a Bachelor's degree with a distinguished undergraduate record. In most cases, a "B" average or better is required. Personal references and letters of recommendation from two or three people are usually necessary. Excellent references are the chairman of the department and members of the faculty.

An up-to-date listing of available assistantships, fellowships and scholarships, is posted on the bulletin board outside of Dean Allen's office in Compton Hall, while brochures containing particulars are available in the office.

Fellowships, scholarships and assistantships are usually awarded for one year, beginning in the fall semester of the academic year. Applications must be sent in before March. Most universities offer a number of each of the above awards. A student should be prepared to leave New York City, as his chances will be greatly increased.

In order to be considered for an assistantship, fellowship or scholarship, it is necessary to file an early application to the college or university of interest. It is still not too late to apply for acceptance in the semester beginning February 1957. The possibilities offered may well be worth considering.

## JOIN TECH NEWS

## SENIOR AT

The annual will be held (Thanksgiving room of the chairman Ellison, T Mayblum, s man of Stu sponsoring terfield a certain i jazz idio Tables groups (7 note!) an chased. A on hand, purchased size and t Tickets couple, in Plan offic hand, but better ta

## FORU

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## CHE'S

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## SENIORS TO STRUT AT CITY AFFAIR COLLEGE PROM

The annual All College Prom will be held Thursday, Nov. 22nd (Thanksgiving) in the main ballroom of the Waldorf Astoria. Co-chairman of the dance are Bob Ellison, TIIC pres., and Burl Mayblum, social function chairman of Student Council which is sponsoring the prom. Billy Butterfield and his band will entertain in both the dance and jazz idioms.

Tables may be reserved by groups (Tech societies take note!) and drinks can be purchased. A photographer will be on hand, and pictures may be purchased at \$2 for two wallet size and two large photos.

Tickets are on sale, at \$5 per couple, in F132 and in the House Plan office. There are plenty on hand, but early purchase means better tables.

## FORUM STAGED

Hillel will present a forum on the topic "My Concerns About the CCNY Student." The panel will include Prof. Wolfe (Physics), Prof. Singer (Education) and other noted CCNY instructors. The forum will take place on Thursday, Nov. 1, 12:30 P.M., at Hillel House, 475 West 140 St (across the street from the Tech building).

## CHE'S OFFER NEW FOOD COURSE

Did you ever wonder why Rice Krispies snap, crackle and pop? Well this term the Chemical Engineering department has offered a new graduate course in Food Technology. The course is being taught by Dr. Lichtblau who has many years of experience in the Food Industry and is quite an authority on the subject. Dr. Lichtblau reports that he is very pleased with the progress of the course up to now. Students enrolled in the class range from plant managers to vice presidents of food companies.



## CE CONFERENCE THIS SATURDAY

This Saturday, November 3, ASCE students chapters from eight colleges in the New York area will assemble at Columbia University for the Metropolitan Conference of ASCE. The program will consist of speeches

### TOOL SCIENCE DISCUSSED

Two weeks ago Prof. Stork (Draft Dept.) discussed, before a joint meeting of ASME, SAE and ASTE, personal and material developments in the Tool Industry. Prof. Stork pointed out that a basic college education and flexibility of the individual will enable him to maneuver in the field and cope with any problem he is confronted with. Because certain tool problems are so unique in that there is no past experience to draw from, the engineer must also possess a creative ability in effecting their solution.



PROFESSOR STORK

Prof. Stork feels that competition in the Tool Industry is not very keen. Companies are of the opinion that it is not worth their while to monopolize a particular field as the increase in production results in too high an overhead. Because of this situation patent rights, which are not made very specific, are constantly being infringed upon. After all, Prof. Stork said, "you can only eat three meals a day."

given by three prominent men from industry and universities, after which a luncheon will be served. Students interested in attending should consult the ASCE bulletin board at Crossroads for further details.

### TODAYS STIMULATING SCHEDULE

AICHE- Mr. C.H. Lechthaler of the Socony Mobil Oil Co. will lecture, with the aid of a film, on the "Aspects of Catalytic Refining" in Rm. H103 at 12:30. ASCE- Two films on fluids entitled "Rivers in Miniature" and "Speaking of Models" will be shown in Rm. G107 at 12:30.

ASME - ASTE - SAE - Mr. W.B. White, a Mechanical Engineer from Con Edison, will speak on the proposed atomic power generation station to be built by Con Edison. The talk begins at 12:30 in Rm. H017.

AIEE - IRE- Mr. Shulman, an EE faculty member, will present a lecture entitled "Electronics and the Quantum Theory" in Rm. S105 at 12:15. A film will be shown supplementing the talk.

SAME- The military uses of the Helicopter will be discussed by a spokesman from Pulaski Helicopter in Drill Hall at 5 P.M. on Wednesday, November 7th.

Student Zionist Organization will hold a weekend seminar, Nov. 2 thru Nov. 4. On Election Day, Nov. 6, Hillel will sponsor a hike. For details about both these functions, inquire at Hillel.

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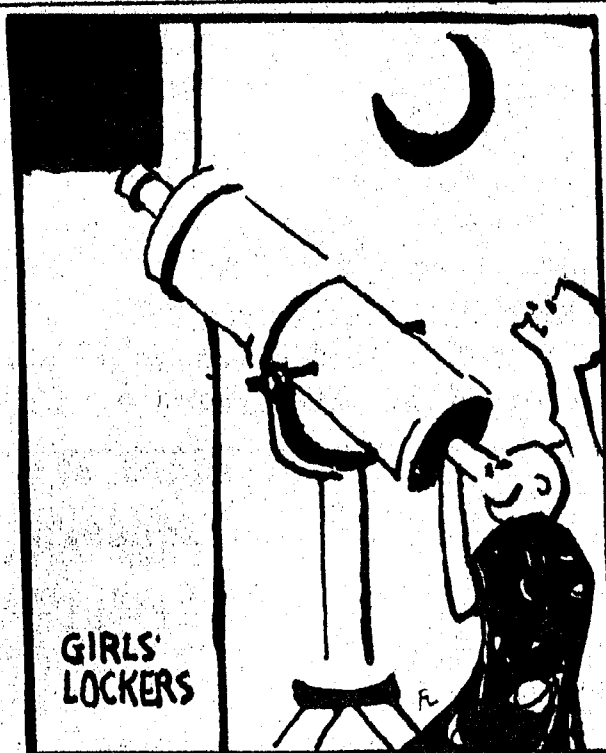
## TECH GAZERS SEE STARS

by Julius Soller EE'58

Did you ever wonder where this old planet of ours fits into the general scheme of things? The Astronomical Society is one group which not only asks this question but also tries to answer it. They are men with stout hearts and keen eyes who endeavor to gain enjoyment and, at the same time, learn something about the wonders of the universe.

The Astronomical Society is celebrating its first anniversary, and welcomes students interested in the science of the skies as charter members.

When we think of astronomy we usually think of telescopes. In the observatory atop of Shepard Hall can be found the school's four inch refractor telescope, a sextant and other instruments which aid in scientific probings. The president of the Astronomical Society, Richard Gross, intends to let the members use his own eight inch reflector telescope as soon as he has finished constructing it in the Hayden Planetarium. Aside from these two instruments, the school also has a \$2600 eight and a half inch Schmidt reflector telescope



from the Fecher Co.

The astronomers are presently engaged in scanning the sky by day and at night in search of Messier and other objects such as nebulae, galaxies, star clusters, double stars and comets. The members are also setting up an intercommunication system with the radio shack so as to be able to time occultations and other phenomena by means of WWV standard time signals. They also hope to take part in that aspect of the International Geophysical Year activities pertaining to radio and visual tracking of the artificial satellite.

## STUDENTS TO GAIN BY SUMMER SURVEY

A survey is being made by TIIC in conjunction with the Placement Office, among the Tech students, to determine the firms that have student summer employment programs. The information, in the hands of the Placement Office, will facilitate summer job hunting for engineering students. The list will eliminate the student's labor in finding the companies with summer programs and the company's task of answering individual students. The Placement Office can direct job hunting students directly to companies that have openings in their summer programs.

A questionnaire will soon be distributed to the students to obtain the desired information.

In addition, the survey asks the following information:

1. What is the percent of engineers (Juniors and Seniors) employed in technical jobs?
1. What relationship exists between job offers and class standing?
3. What are the principal factors in choosing a summer position?
4. What is the average salary offered?

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TECH

A committee of Chi Epsilon, engaged in Civil Engineering, 110, CE 1 service is taking the student registration by referral bulletin boards.

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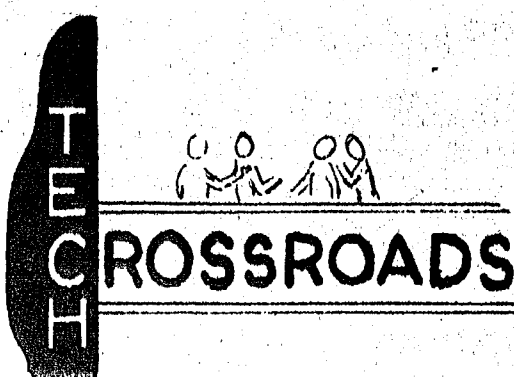
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A committee staffed by members of Chi Epsilon is currently engaged in tutoring three basic Civil Engineering courses: CE 110, CE 120 and CE 101. This service is available to anyone taking the above courses. Interested students may obtain information regarding time and place by referring to the Chi Epsilon bulletin board at Tech Crossroads.

Two Mechanical Engineering students, Aldo Peracchio and Robert Bruin, received awards of \$5,000 for their design of a national competition sponsored by the James F. Lincoln Arc Welding Foundation last year. Designs from small machine parts to large bridges using arc welding were presented by students from 29 different schools.

This competition is sponsored exclusively for engineering undergraduates to give them opportunity for professional recognition through the execution of a welding design of their own imagination and ingenuity. For information concerning a similar competition for the current school year, write C.G. Herbrick, c/o Lincoln Arc Welding Foundation, Cleveland 17, Ohio.

## Big News - It's Official -

Marty Drapkin, ME'57 is engaged to Miss Claire Rapp (Miss YU). Plans are for a June wedding.

Marty is Vice Pres. of TIIC and former Pres. of SAE.

Another one to bite the dust is John Ryan, ME'57 who is officially engaged to Miss Barbara Keith. Plans are for a June wedding.

John is Captain of the CCNY Basketball Team and a brother of Delta Alpha.

## THE BEGINNINGS OF MODERN ART

## BOHEMIANISM

BY HOWARD EISNER EE'57

This is the first of a series of articles on Modern Art.

The significance of any existing institution lies in its ability to satisfy a need of one or another. The degrees of satisfaction remain personal and are contingent upon individual needs. It is from this general point of view that we may justify the existence of any man-made institution, and realize that as soon as this end is no longer served the dynamic social, political and economic forces within the society will eliminate the institution. Of course, this is indeed an oversimplification of what actually happens, but this overall outlook is invaluable when dealing with trends in art, which is the subject at hand.

The phase of art to be handled is that generally called Modern Art, and shall include schools of thought in painting, with an occasional glimpse into other forms of art such as writing and sculpture.

A look at the volume of books written on even the smallest phase of art would indicate that these series of articles will do no more than skim the surface. But this writer tries to justify the surface treatment by blaming lack of space, and at the same time proposes to conform to modern educational theories; that is, to stimulate an interest rather than attempt to present all there is to be known.

If one were to choose a specific location which would typify embryonic Modern Art, it would have to be France and more specifically, Paris. In Paris, Bohemianism was born, and within it were reflected the beginnings of Modern Art. Bohemia implied a little world in which the inhabitants were not bound by convention. Life in this little world was an irresponsible romantic life where the people thought of themselves, as evidenced only by their overt behavior, as imaginative, perceptive, spiritually free individuals. Their lives were spent in the enchanting at-

mosphere of the cafe, giving Paris its unique tone and color and its cross section of cosmopolites, poets, artists, writers and scholars. However, the glamour of such a cultural and intellectual haven gave birth to many uninformed art students and made pseudo-intellectuals of them. This, and the accompanying passionate desire for sexual activity, helped establish a sordid and decadent city. About 1860, people were flocking to the Latin Quarter, the center of Bohemia.

But the immortals of Modern Art, such as Monet, Manet, Degas, Cezanne, Hugo and Zola could not work under such conditions. They went to Montmartre where they were able to find their means of expression soberly. Not long after that, the aura of Bohemianism swept over Montmartre and stifled the city with its decadence. The "successful artists" tried to keep one step ahead of the Bohemians, while those who couldn't found themselves wallowed in their delirium. The underlying structure of the Bohemian society held absolute equality for man and woman as its foundation. It was accepted that promiscuity was a biological necessity and a stimulus to the sensitive artist. Women were needed to whet man's desires, intensify his moments of ecstasy and sooth his troubled mind. This was the atmosphere of Bohemianism in which Modern Art was born. A rather unconventional one for a rather unconventional art form.

NEXT ISSUE: IMPRESSIONISM.

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Mr. Woods also pointed out that Philco's recent entry into the home laundry field, and the necessity for developing entire new lines of automatic washers and dryers, in addition to other household appliances, has created many new and attractive openings for beginning engineers.

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## Tech Vignettes

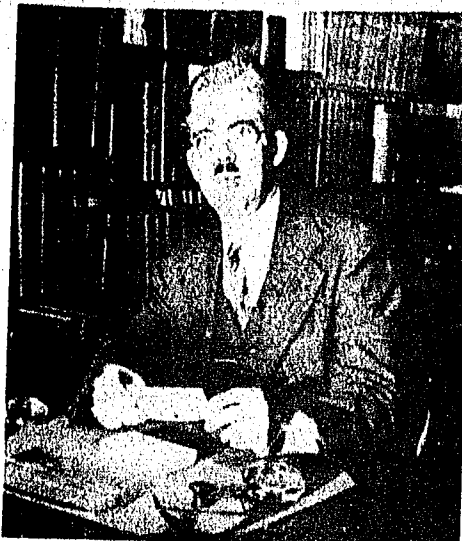
TOM NUGGENT, JR. EE'57

An important feature of any educational program is the library facilities. Techmen can be thankful that here at City College we have one of the finest collections of engineering and scientific volumes to be had on any campus. The future is even brighter. According to the present plans for the new Tech Building there are facilities for a library several times this size. At present there are 22,500 volumes on hand and each has been hand-picked. The library currently purchases 600 volumes a year and these must fulfill the needs of the four engineering schools and the Physics and Chemistry departments.

The man responsible for the administration of this vast storehouse of knowledge is Dr. Robert H. Whitford, class of '30, 31T. No man is better qualified to perform the duty than the doctor, who holds baccalaureate and graduate degrees in engineering and science and two post-

graduate degrees in Library Science, as well as an Ed.D. Truly a remarkable scholar, Dr. Whitford is a member of Phi Beta Kappa and three other important national honor societies.

Beginning in 1925 when he served as student assistant and continuing through his graduation in 1931 from the Engineering School at CCNY, Dr. Whitford has remained active in school activities. Recently the Alumni Association paid him tribute for



DR. WHITFORD

his many contributions to the Engineering Alumni organization as perennial secretary.

At present Dr. Whitford's book "Physics Literature", is gaining in popularity and has the distinction of being one of the few good books on the subject. The

book is an analysis of the physics texts and its writing required not only a broad knowledge of the science but also literary talents. During The War when teachers were difficult to obtain, Dr. Whitford served as an instructor of physics and once more exhibited his diversity of talents.

As anyone who knows Dr. Whitford will say, he is one of the most pleasant and diligent persons in the entire school. It is his job to supply each student with the books and facilities that are necessary and in this he is remarkably successful. However, the Doctor's contributions to the school do not stop there. Entirely on his own, Prof. Whitford has designed a machine which sorts and indexes cards.

Several years ago, during the holidays, Lincoln Corridor was gaily decorated with his animated Christmas displays, whose beauty and complexity of design were remarkable.

It is rare that such a combination of intelligence and manual dexterity are found in one man, and it is indeed fortunate that Dr. Whitford has chosen to direct his talents towards the betterment of CCNY.

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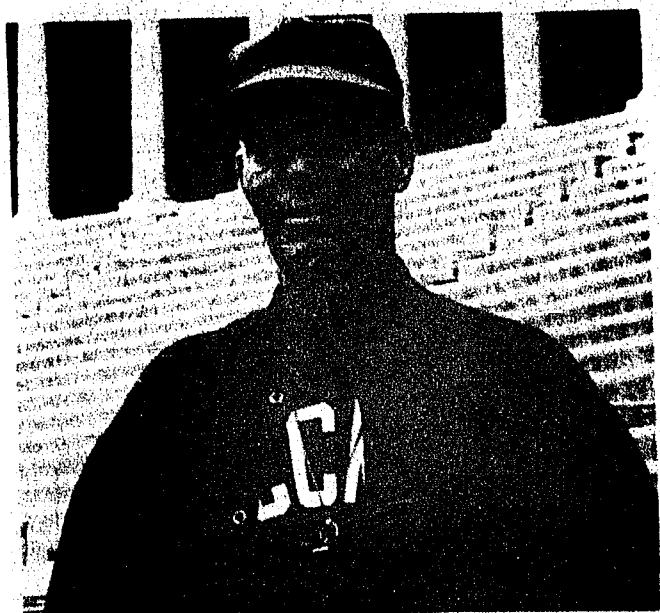


## TECH SPORTS

### - SPORTRAIT -

"I like to consider myself a builder of men rather than of machines," said Leon Chief Miller, at the conclusion of a Tech News interview. The interview took place while "The Chief" was giving lacrosse instructions at Jasper Oval to a frosh class. After just a few weeks of instruction, the group seemed quite professional.

It may come as a surprise to some to learn that Chief Miller received a Mechanical Engineer-



CHIEF MILLER

ing degree from Carlisle University. "The Chief", however, preferred physical to mental exercise in his youth. He, with Jim Thorpe and other contemporaries, made gridiron history as a collegian.

After graduation, Miller played pro football. During his active athletic days he also did some engineering work. However, at that time, engineering was not attractive financially. Moreover, "The Chief" preferred a career in sports due to the greater satisfaction he derives from it.

Now, as he looks back, he speculates as to the goals he might have attained as an engineer. But he has no regrets. He looks ahead optimistically to a rich and satisfying future as a health education instructor.

### ASME WINS TWO TO LEAD LEAGUE

At a T.I.I.C. meeting held October 4, it was unanimously decided that a basketball trophy be presented to the victorious team in the Slide Rule Basketball League. With this added incentive, an inspired ASME contingent upset the defending champion, ASCE, by a score of 34 to 26. E. Bornstein, with 11 points, and E. Fischbein, with 13 points, kept ASME ahead. High scorers for ASCE were Karl Fritsch and Stan Reich.

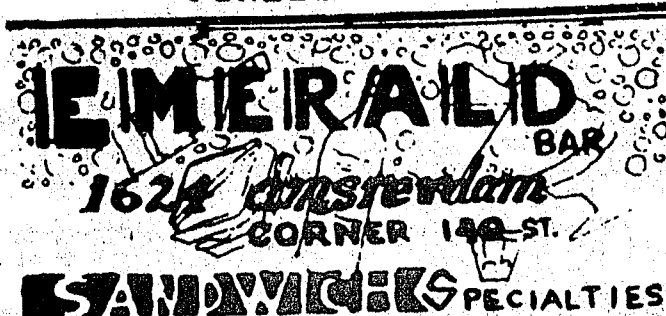
In the first encounter of the evening AIEE defeated AICHE 40-31. The EE's took an early lead and went on to win easily. Later in the game the ChE's closed the gap somewhat on the fine play of Ronnie McGrath, who scored 15 points.

In the second night of Slide Rule Basketball competition, ASME remained undefeated by downing a hardfighting AIEE team, 28-22. The game was indecisive most of the way, as Charlie Hallas and Herb Scheffler rallied the EE's, decreasing the ME's lead, but the ME's, pulled away with a final spurt to win.

In the second match, ASCE bounced back from their first game drubbing by defeating AICHE 38-24. Ronnie Check, with set shots at the outset of play, furnished ASCE with a lead they never relinquished. The contest was not over, as AICHE, with the fine performance of Ronnie Rothernberg and S. Simon, kept the score close.

JOIN TECH NEWS - TODAY !

FINLEY 335



## ALUMNI ARISE

The Alumni Association currently is actively engaged in projects designed to benefit the undergraduate engineering student.

One such project is a recently completed census of Alumni, the results of which promise to be of primary importance to the Tech student. In general, the census was designed to discover how graduates can be of help in planning for the future development of the school. Some of the problems the questionnaire attempts to answer are:

- (1) Is specialization wise in undergraduate education?
- (2) In what ways can the alumni help the undergraduate plan his future?
- (3) How will the expected rise in Tech School enrollment affect the academic standards?
- (4) Should the College expand its graduate program?

The questionnaire will also provide information about the position and activities of Engineering Alumni. These facts may be used to furnish speakers for tech organizations.

Engineering Alumni devotes a substantial part of its efforts to help undergraduate Tech students. Mr. Seymour Weisman, Executive Secretary of the Alumni Association, points out that the Alumni Association helps subsidize student publications, sponsors and finances honorary awards in engineering and provides a source of employment for many engineering graduates.

Norman Berlin, ChE '59

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