



THE SCHOOL OF TECHNOLOGY

THE NEWS

CITY COLLEGE OF NEW YORK

VOL. XVI — No. 1

WEDNESDAY, FEBRUARY 7, 1962

222

BY STUDENT FEES

Transition from TIIC to Tech Council Successful

By SAMUEL EIFERMAN

Last term was a very active term for the Technology Intersociety Interfraternity Council. Among the councils many activities was the organizing of YES (Your Engineering Slate) which was formed by the council to give the Technology students the representation they deserve on the Student Council. The council also supported the Student Council's resolution against the speaker ban, which was instituted and removed by the Administrative Council of the City University.

The term started off with the president of TIIC, Ronald Morony, resigning because of academic reasons. Judy Goldberg, at that time vice-president, took over the job of president. At this first meeting the largest number of representatives seen at the council in a long time showed up and Mr. Irwin Brownstein of the Department of Student Life took this opportunity to address the council. He stated that TIIC had disintegrated continuously since the end of World War II and he expressed his hopes that TIIC would improve at that time or seriously consider dissolving itself.

The next important event for TIIC was the cancellation of E-Day (Engineers Day) and E-Day Ball. E-Day is the official day, in the Spring term, when the Engineering Department at the School with the help of the Engineering Students show off the Departments facilities to High School students and representatives from industry. E-Day was called off because more than half of the machines usually exhibited during E-Day were being dismantled in order to be moved over to the new Technology building. With E-Day called off TIIC turned to reorganizing itself.

ganizing itself.

Trying to learn from Mr. Brownstein's talk the council decided that in order to improve it must first amend its constitution. During this time there was a lot of talk on the council about dissolving TIIC and member organizations threatened to drop out if things didn't improve. Amendments included having six representatives in addition to the representatives from each member organization sit on council. These six representatives were to be elected from the student body at large. Another amendment called for the Technology Intersociety Interfraternity Council to change its name to the Technology Council in order to reflect the council's new status. A motion was even made to improve the appearance of the TIIC bulletin board. An amendment to allow each organization of TIIC only one representative on the Technology Council no matter how large it is also passed.

The old way of doing it was to allow organizations with a large number of members to have two representatives. In November TIIC got involved in politics by taking a stand against the speaker ban at the college. During the same month one or two organizations, from each engineering department, belonging to TIIC were assigned to investigate the curriculum of their department and report back to TIIC any suggestions they may have to better the curriculum. The council, realizing the difficulties of the Technology student, decided to run and back people for Student Council representatives on a platform that would try to improve conditions for the engineering student. The improvements aimed for were: 1. The appointment of an engineering Student-Faculty Fee Commission to allocate fees to the various engineering organizations and receive its money from the two dollar Student Activity Fee paid by all engineers. 2. The right to grant charters to organizations on the Technology Campus. 3. Provisions for mimeographing and ditto services at the North Campus. 4. Meeting rooms, offices, and lounges at the North Campus comparable to those at the South Campus.

At the last meeting of last term elections for the Spring term were held. The results of the elections are:

President: Frank Ferrara
Vice President: Kenneth Rosenberg
Treasurer: Michael Barnett
Rukin
Recording Secretary: Lucinda Mattera
Corresponding Secretary: Samuel Stanley Eiferman.

Applications for summer employment are being accepted through May 15. Check door of room 423 Finley for the room number where the workshop will be held. Workshops for summer employment will be conducted daily at the following hours:

Monday	10:00 to 11:00
Tuesday	1:00 to 2:00
Wednesday	1:00 to 2:00 2:00 to 3:00
Thursday	11:00 to 12:00
Friday	11:00 to 12:00

Tech Curriculum Is Streamlined; More Arts Slated for All

By OLIVER ROSENGART

Broad curriculum changes were proposed by the several departments of the School of Technology at their meeting on Jan. 4, 1962. In the pre-engineering curriculum, Physics 110 will be made three credits instead of five, Drafting 108 will be drop-

ped, and there will be six more credits of mathematics. In addition the changes call for six credits of non-technical electives to be taken in the Junior and Senior years and a shift in emphasis in the overall engineering program. All of the proposals must be approved by the Board of Higher Education before they can be instituted.

This change in stress is to be aimed toward more analysis and theory and less application. According to Dean Allan, Dean of the School of Technology, this change is made necessary by the

City University Gets 14 Federal Fellowships

The City University has received fourteen National Defense Education Act fellowships for Ph.D. programs starting next fall. There are three fellowships in chemistry, three in economics, five in English, and three in psychology. The fellowships are given to initiate new Ph.D. programs.

They are three year grants giving \$2,000 for 1962-63, \$2,200 for 1963-64, \$2,400 for 1964-65, and an additional \$400 per year for each dependent. The school also receives up to \$2,500 for the cost of the program attributable to each fellow.

According to Dr. Mina Rees, dean of Graduate Studies in the City University, the Ph.D. programs will be university-wide offerings, not college. They will be based on the campuses of the

senior colleges of the City University, with participating faculty members drawn from all four colleges (City, Hunter, Brooklyn, Queens).

"Candidates for the National Defense Education Act fellowships," the dean emphasized, "will be expected to commit themselves to three years of full-time study with no outside employment. Because the lack of an adequate number of well trained college and university teachers imperils undergraduate colleges, preference will be given to candidates who expect to prepare for college and university teaching."

Dean Rees also pointed out that the colleges of the City University rank fifth in the nation in the number of their graduates who have gone into college teaching.



Dean Allan

Tech School Rejoins Grad. Council; \$6,300,000 Requested from State

The Graduate Council of the City University has been reorganized to include the Schools of Technology and Business. With the creation of the City University a temporary committee was set up last term to study doctorate programs. According to Dr. Mina Rees, Dean of Graduate Studies at the City University, the present graduate council will operate for only one year before its set up is reevaluated.

Last term's committee did not include official representatives from either the Tech or Business schools. This was due to the fact that neither of these were schools were being considered for doctorate programs for next semester. At the present time a report on the proposed doctorate program of the School of Technology has been submitted by professors from several well

known universities including MIT and Harvard. The entire curriculum of the Baruch School is presently undergoing a evaluation from an outside source.

It is anticipated that the 1963 budget will include a request for funds to set up a tech doctorate program.

A request for 6.3 million dollars was made to the State Board of Regents for the support of graduate programs at the City University.

This includes 2.4 million dollars for the already well established masters programs along with the new doctorate plans. This is the first time that the city has requested state aid for graduate studies. The request was made on the supposition that the state would pay the same share of the cost of graduate programs in the City University as it does in the State University.

increased rate of development of industrial technology. "There is no point in teaching a student a technique he will not see. We would rather give him the tools that he can adapt to tomorrow's world." There have been instances where students have learned techniques that were outdated by the time they were working.

The proposal to increase the free liberal arts electives, as stated by Dean Allan, is to "vary the diet." Although he does not feel that the engineering students are lacking in liberal arts at the present, the six credits of free electives would keep a student's interest diversified, while he is taking an otherwise solid engineering program. The Dean pointed out that in a general test in education given to a cross-section of students in Pennsylvania by the Carnegie Institute, the engineering students came out on top. It was also pointed out that the present City College engineering curriculum contains more liberal arts than most other technological programs. The chemical engineers

(Continued on Page 3)

S. G. Vacancies

The Student Council will elect Chairmen and/or members of the following agencies, bureaus, and commissions at the Student Council meeting on February 7, 1962:

Facilities Agency, Cultural Agency, Educational Practices Agency, International Agency, United States National Student Association Committee, Publicity Agency, Publicity Regulations Agency, Honors and Awards Commission, Public Affairs Forum, Public Opinion Poll Bureau, Service Agency, Social Functions Agency, Finley Board of Managers.

Vacancies will also be filled on the following Student-Faculty Committees:

Bookstore, Finley Board of Advisors, Cafeteria, Discipline, Used Book Exchange, College of Liberal Arts and Science.



TECH NEWS

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Editorial Policy of TECH NEWS is determined by a majority vote of the Editorial Board

Steinman Awards Are Available To Tech Students

The David B. Steinman Foundation established the David B. Steinman Awards to provide grants in the School of Technology:

- to undergraduates who need financial assistance to complete their engineering studies; and
- to graduating seniors who need financial assistance to pursue full time graduate work in engineering.

Awards will be made to deserving students selected on the basis of character, scholarship, range of knowledge and interests, well-rounded performance, and leadership potentiality. The grants will range from \$100 to \$500.

The degree of financial need and the candidate's potential professional earning power will be primary considerations in determining the amount of the grant.

Application forms may be secured in Room 126A, Shepard. Address applications and requests for information to Professor Arthur Taft, Financial Aid Officer, The City College of New York, New York 31, New York.

TECH LIFE

By TED SEMEGHAN

- A not too highly intelligent freshman
- A prophecy of questioning sophomores
- A story of humbled juniors
- A truth known to graduating seniors

Since an equation can be used as the simplest way of expressing a relationship, then I offer the equation:

$$A + B = C$$

Until we place known quantities in place of the letters A, B, and C, no fallacy can be found in the equation. We can also propose that C is a dependent variable and that A and B are independent variables.

In certain equalities, a maximum of two variables can define the relationship. But it happens too often that many proposed equalities have hidden variables that are not too obvious on the first search. Yet, we often rely on the answer given by these few variables as a panacea.

The variables A, B, and C are defined as follows:

- A—Having done well in, and having enjoyed science
- B—Having done well in, and having enjoyed mathematics
- C—The engineering profession (the panacea)

Why is B related to C. Of course there is a relationship between mathematics and engineering but mathematics is also used by a bank cashier or a waiter adding up a check. B is surely not directly proportional to C and therefore it is necessary to determine its value in relation to C. Why not say the equation C is proportional to D is a more relevant statement where D is defined as an accountant, mathematician, statistician, etc.

Does A have any direct connection with C. Your answer would be a definite affirmative, but here, as in the above case, a value judgment must be made. We must understand there is a difference between an architect and a civil engineer or a chemist and a chemical engineer. It is these differences which are often overlooked by the aspiring engineer. Why be satisfied with your future professional choice up to the moment you start doing actual engineering work. Find out more about the typical work of the upperclassmen in your branch of engineering before you have to plow through a few terms and find you don't like engineering.

Many engineering students starting out at the college do not ask themselves about their vocational choice after they "picked it out" in high school nor do they desire information from others. The result of the misinformed many is seen in the slimming of the engineering class to 1/3 and 1/4 of the original aspirants, many of whom switch to the field of mathematics or science.

Then why are you interested in engineering? If you are wishing to claim a fortune in a few years, the chances are slim. Surprisingly enough, teachers in N.Y.C. high schools can make nine thousand dollars a year with three months vacation and electricians with a five hour day make \$4.75 an hour not including overtime.

Make sure your desire to be an engineer is backed by some conclusive evidence and not guesswork. The work will be trying and time consuming and only profitable for those with the strongest desire to succeed.

* * *

Before you start this term, do you think its worth it? I probably won't startle you with facts you never knew, but when you realize that the average week at City College (from Monday to Monday) cost fifteen dollars, you say to yourself, this guy is a spendthrift. But, believe it or not, you are most likely spending a minimum with fifteen dollars per week. Still doubtful, Slide rules are unnecessary with this one.

Starting from IBM day, fourteen dollars is required for admittance to "Lavender" Day with matriculation. And added amusement in lab is a seven dollar tab. Gathering from the physical condition of the X-rays in Wingate gym, few if any, students walk to school and a fifteen cent minimum one way, thirty cent round trip ticket of 70 school days a term, gives a cash register total of twenty to twenty-five dollars.

By now you are on a diet, so my computer adds up at least seventy cents a meal, (after eating the meal you will be sticking close to your diet), times the same mystical seventy day school term, another approximate fifty dollars. This fifty dollars was pulled out of a hat and depends on the following circumstance:

1. No one packs your lunch in an attache case.
2. Your size lunch does not fit into an attache case.
3. You are willing to go hungry after eating in school.
4. You are crazy about the school's food. Yeah, crazy.

Next, let's look back to that first day in school when the bookstore was so barren that a rush hour subway looks strike-ridden in comparison. What did you spend? It must have been at least thirty dollars, unless you're a book borrower, and add another ten dollars in school supplies by the time the term is over.

Adding up the costs till now, I count at least \$130, and that's before the little things as fraternity dues, house plan membership, the Saturday night date. If you're a tightwad, and your girl friend pays the way, the niceties come to a five dollars a week minimum.

By now you're in your birthday suit because last year's acid-ridden clothing springled with holes and styled by Picasso colors from coloring book lab courses is out of style. Aren't you sorry you didn't wear your lab apron? We'll skip these extras and claim resident in one of those health colonies.

Since a weekly basis is a good modicum for the financially frenzied student, I compute a regular ten spot for a normally healthy ascetic and fifteen a week for the bed-ridden.

Hope you've got a state scholarship, a job that's keeping you from your homework, open parental pocketbooks or are good-looking enough for someone to support you.

Lounge or Store?

For over a year the ROTC supply room has been slated to be converted to a lounge as soon as the military can move into a soon-to-be-vacated ME lab in Harris. However, the Planning and Design Committee is presently considering devoting one-third to one half of this room, which looks out onto Shepard's front lawn, to a North Campus bookstore outlet.

Both a new lounge and book store outlet are needed on North Campus. At present there is only one lounge on the whole North Campus. Steinman Hall will not have a lounge either. A book store outlet is also needed; students should not have to march South to obtain needed texts and supplies.

The problem of how to space shall be apportioned becomes one of student needs. What is the more important use for it: more lounge area or a bookstore outlet.

Any North Campus student can go South once a term to buy books and supplies. He cannot do the same if he wishes to relax in a comfortable chair between classes or after lunch. Most students have to use the book store only every two weeks or once a month. This cannot compare with a lounge area which can be used much more frequently.

The purpose of the book store is to sell books. Once the first days of the term are over the book store sells little in the way of necessary school supplies. Considering that once the term is under way the bulk of the book store's sales are in items not essential to school, the use of a good portion of proposed lounge space for another bookstore is not justified.

Therefore, in lieu of the above, it seems logical to us to suggest another proposal. What TECH NEWS would like to see is a large spacious lounge, with comfortable chairs and sofas, with table space so that the engineer (a rare type of bird that stays North all winter) as well as all those students that have free time, may do homework, study, or just sit and relax. During the peak periods of activity of the bookstore, namely during and immediately after registration, a part of this lounge could be set up as a temporary branch of the bookstore in which students could place orders for their texts. The student, both North Campus Engineer and South Campus Liberal Arts student alike, can then proceed to the South Campus Bookstore and receive their total purchase immediately without having to fight crowds and Burns' Guards. Immediately after this peak activity period the temporary North Campus bookstore could be dismantled and the entire lounge space could be utilized. We should like to note that it would be a very desirable addition to have music piped into the lounge at the bookstore's expense.

It would surely be a shame to waste direly needed lounge space for a semi-useless bookstore outlet just to fulfill campaign promises.

SUCCESSFUL STUDENTS

LINCOLN LABORATORY has openings for a limited number of engineers, physicists and mathematicians in original research and development activities.

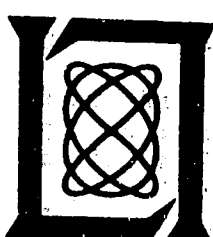
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JOIN A

YOUR

Book Review

and book of Semiconductor Electronics: A Practical Manual Covering the Physics, Technology and Circuit Applications of Transistors, Diodes, and Photocells, Second Edition, edited by Dr. Lloyd P. Hunter, Manager, Solid-State Development, International Business Machines Corp. Prepared by a staff of specialists. 876 pages plus index; 496 illustrations; 6 x 9; McGraw - Hill Handbook Series; \$18.50. Publication date: March, 1962.

The second edition of the Handbook of Semiconductor Electronics is a thorough revision of the first edition of this practical manual covering the physics, technology, and circuit applications of transistors, diodes and photocells. All sections of the book have been substantially revised, and most of the sections have been completely rewritten by new authors — all experts — working in the field. The handbook is divided into four broad areas. Part I covers the physics of electrical conduction in solids and presents the principles needed to understand the mechanisms of transistor and diode action. Part II is a survey of the technological processes used in transistor and diode fabrication. It describes basic processes and techniques commonly used in the field and explains how these processes achieve satisfactory device performance. Enough information is given so that an adequate semiconductor device average characteristic can be designed and produced.

Part II covers in great detail the principles of transistor-circuit design including high and low frequency amplifiers and switching circuits. In Part IV, background and reference data is presented, including the most thorough bibliography available in the semiconductor field.

The second edition of the "Handbook of Semiconductor Electronics" includes two new sections in the circuit part of the book, covering microwave semiconductor applications, and the design of power supplies and power converters using semiconductor devices. Among the other advances in the field covered in this edition of the handbook are Esaki tunnel diodes, the effects of radiation damage to semiconductors, new techniques of device fabrication, modern theory of doubly activated photoconductors, modern methods of device encapsulation, high frequency application of transistors, and modern junction transistor oscillator circuits.

Lloyd P. Hunter is Manager of Solid-State Development for the Components Division of the International Business Machines Corporation. Prior to this he was Manager of the Solid-State Electronics section of the Westinghouse Research Laboratories. A fellow of the American Physical Society, Dr. Hunter is also a senior member of the I.R.E.

Liberal Arts...

(Continued from Page 1)

now have five credits of free electives, while all other branches have none.

In Architecture it is proposed to increase the fine arts content of the curriculum as suggested by the Board of Higher Education when it approved the program in February 1961. This will require no change in credits for the degree in architecture but two recitations hours in one term will be replaced with four design hours. In the engineering curricula the number of credits will likewise not be changed but the number of class hours will be reduced.

Dean Allan noted that all of these changes are tentative, subject to approval by the Board of Higher Education. It was recommended to the Board that the effective date of the changes be Sept. 1962, and that the Faculty Committee on Course and Standing be authorized to adjust the curricula of individual students as needed.

WANTED

(ALIVE)

REWARDS!

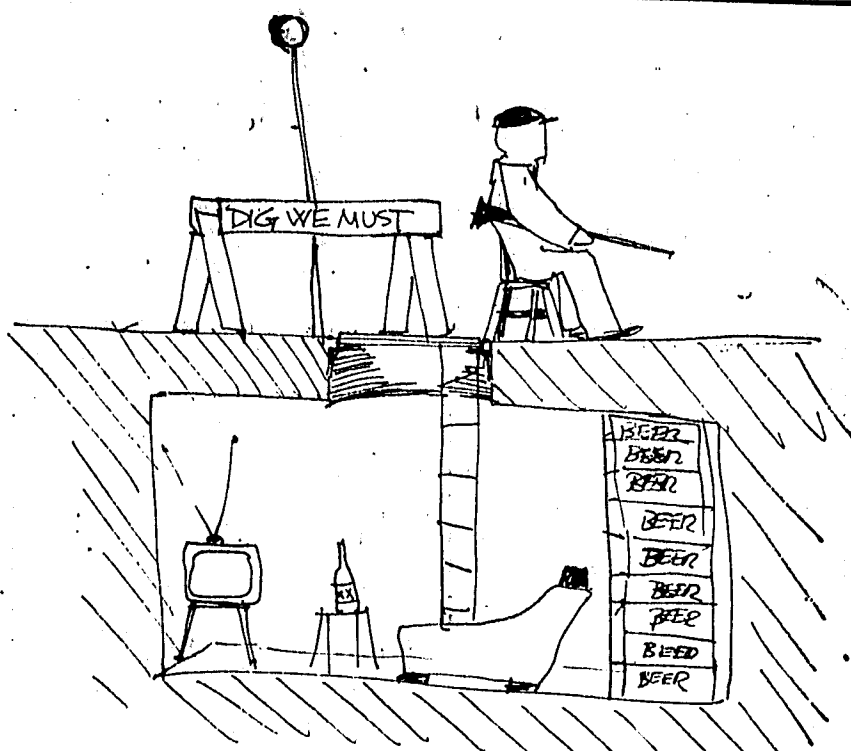
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TECH NEWS

F335

AU 3-0054



Are you prepared for Civil defense?

Frank Schwab

AIEE-IRE

The AIEE-IRE will hold an organizational meeting in Harris Auditorium at 12:30 on Thursday, February 8.

ARCHITECTURAL SOCIETY

The ARCHITECTURAL SOCIETY shall meet Thursday, February 8, 1962 at 12:00 P.M. in Shepard 125.

THE BELL TELEPHONE COMPANIES SALUTE: JOE BOBROWSKI

Although he's been with Bell of Pennsylvania only six months, Joe Bobrowski has already made an important contribution at the Company's Data Processing Center near Harrisburg. Joe developed a "mechanized" way to speed up payment of monthly invoices from 1700 suppliers who sell to his company. Joe's excellent idea made

an already efficient payment process even more efficient! Joe Bobrowski of the Bell Telephone Company of Pennsylvania, and other young men like him in Bell Telephone Companies throughout the country, help bring the finest communications service in the world to the homes and businesses of a growing America.



BELL TELEPHONE COMPANIES



TELEPHONE MAN-OF-THE MONTH

JOIN AND SERVE



YOUR RED CROSS

Intersession Sports Highlights

By MARVIN CHASEN

Wrestlers Split

On January 27, the wrestling team was defeated by Temple University (20-6), one of the strongest teams in the East. Bob Hamilton (123 lbs) and Phil Rodman (147 lbs) gave City its six points. Temple, while winning six of the bouts, only managed to gain one pin which was credited to Richard Buggelli over Jerry Robinson in the 177 lb match. Although the team lost by 14 points many matches were dropped by very close decisions that are best illustrated by Harvey Taylor's 2-0 loss to Temple captain Phil Richards in the 137 lb bout and Mal Schwartz's 3-2 loss to Temple Heavyweight Bob Marshall. Fine performances were also turned in by Mark Miller (157 lbs), captain Barry Goldlust (130 lbs), and by Al Fein who faced Temple's toughest man, Elmer Romeis, in the 167 lb class.

Last year the wrestling team suffered a 20-8 defeat at the hands of Montclair State Teachers but this year the roles reversed as the college defeated Montclair 16-14 on Saturday, Feb. 3. In the first four bouts Bob Hamilton (123 lbs) pinned his opponent in the first period, captain Barry Goldlust earned the college five more points as Montclair was forced to forfeit the 130 lb class, Harvey Taylor surprised the Montclair coach by defeating his opponent 8-3 in the 137 lb class and reliable Phil Rodman stretched his undefeated season record to five by capturing the 147 lb class with an impressive 11-2 victory.

At this point the tide of battle turned. With the score at 16-0 Montclair began to move. Mark Miller met Montclair's Mazarek in the 157 lb class. Mazarek who has twice captured the Metropolitan Collegiate Wrestling championship was just about able to contain Miller. He succeeded in obtaining a 3-1 decision over our boy who is about as rough as they come. Hats off to Miller who is only a Sophomore and is competing in his first year.

Montclair then went on to win in the 167 lb and 177 lb class as Al Fein and Marvin Chasen were defeated by Moore and Semar by decisions. At this point the score was 16-9 and although Schwartz was pinned by Montclair's huge heavyweight the grapplers still came away a winner by a score of 16-14 to give them a competitive record of 3-2.

Fencers Prick Princeton

The City College fencing team continues to surprise its opposition as they defeated Princeton University on Saturday, January 27 by the score of 14-13. This victory gives the team wins over some of the biggest fencing teams in the country and especially within the Ivy League. With its victory over Princeton the team has now defeated Yale (17-10), Harvard (15-12) and Princeton (14-13) and there only remains Columbia to make it a clean sweep of the Ivy League teams the college competes with. Coach Lucia said, "the team has earned the title 'Scourge of the Ivy League' as they are called by their Ivy League victims and a win over Columbia would add frosting to the cake."

Technology students who con-

tribute to the team's good fortune include Capt. Vito Manino and Ray Fields, and a good part of his entire squad come from the engineering ranks of our school. In conclusion, let us once again congratulate the fencing team and wish them luck in their coming matches especially against the Lions from Columbia. Go get 'em fellas.

Hoopsters Drop Two

The basketball team suffered two defeats during the intersession period at the hands of Bucknell University and Wagner College. A powerful Bucknell squad racked up 84 points against the Beavers 48, the lowest point total they have had this season. The poor showing was due to shooting inaccuracies

on the part of our boys. The men from Bucknell were good, probably too good as the score indicates.

Still shaken up from their loss to Bucknell the team encountered Wagner College and again suffered a 64-53 defeat. Our men tried hard but victory eluded them. Some of the team that come from the School of Technology that represented our school in the above games are Ray Camisa, Jimmy Sutton, Don Sidat, and Alex Blatt.

A new term is starting and a whole line of basketball games are ahead. Let's make the rest a repetition of the Columbia game and hope that in the long run the victories far outweigh the losses.

Hillel Program

By MARC TRIEBWASSER

Hillel held its semi-annual installation and awards banquet Sunday, January 21, at 6:00 p.m. at the Hotel Windermere. At the banquet the officers for the Spring term were installed. These include: David Alan Herzog, President; Kenneth Schweber and Marc Triebwasser, Vice-Presidents; Myron Bassman, Treasurer; Susan Marx, Recording Secretary; and Sam Gralnick, Corresponding Secretary.

The Hillel awards were also presented at the banquet. Ed Brady and Myron Bassman received the Hillel Pin. The Hillel Key, the highest and most esteemed award Hillel offers, was awarded to Leaneor Lieblein. Miss Lieblein served as

president last semester and has been in Hillel for four years.

To start off the term Hillel will present Sue Coleman in a Folk Song recital on Thursday, Feb. 8, during the 12 to 2 break at Hillel House. It will be the highlight of Hillel's semi-annual open house. Miss Coleman has starred on Channel 13 TV where she has appeared regularly for three years in dramatic and singing roles. She has also recorded for Panorama records.

Hillel will start its Thursday 12 to 2 forums with a discussion by Dr. Eugene Borowitz on March 1st on "Martin Buber; Jewish Existentialist." Martin Buber is recognized as one of today's foremost religious existentialist thinkers.

On April 12 Acting President Harry N. Rivlin will talk on "The American University: an Evaluation."

Girl Watcher's Guide

Presented by Pall Mall Famous Cigarettes



First field trip

LESSON 7- Keep moving

One of the most important rules of girl watching is this: keep moving. In fact, it is always a good idea not only to move, but to appear to be going somewhere. (This is especially important on group field trips.) Beautiful girls, although they enjoy being watched, are instinctively suspicious of strollers and downright fearful of loiterers.

The man who is walking briskly, who looks like he's "going places," makes a better girl watcher. For one thing, he sees more total girls and in the end he enjoys his hobby more. (If you are planning an extended field trip—to Paris and Rome, for example—be sure to pack a couple of cartons of Pall Mall.)

WHY BE AN AMATEUR? JOIN THE AMERICAN SOCIETY OF GIRL WATCHERS NOW!

FREE MEMBERSHIP CARD. Visit the editorial office of this publication for a free membership card in the world's only society devoted to discreet, but relentless, girl watching. Constitution of the society on reverse side of card.

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