



# TECH NEWS

CITY COLLEGE OF NEW YORK

VOL. XXIII, NO. 3

TUESDAY, MARCH 8, 1966

STUDENT FEES

## Job Situation Good; E.E.'s & Ch.E.'s Best

By JOSEPH KRAMER

The increased demand for technically trained people, due in a large part to the step-up in the defense oriented industries, has resulted in a greater range of job opportunities and higher salaries, according to Mr. Larry Cooley, Assistant Placement Director.

This term there has been an extremely heavy flow of applications for job interviews by the January '66 and June '66 graduates. The numerous applications,



MR. LARRY COOLEY

In addition to a greater number of interviewing companies, has necessitated a lengthening of the interviewing period, which previously ran from Feb. 14th through April 1st. It has been extended to continue until after the spring vacation, with interviews being held as late as April 15th. Companies are already applying for interview dates for next fall and Spring, and at least six or seven days are already completely filled.

The indications are that salaries for the January graduates will be higher than those of past terms. In many cases, original offers were raised as the companies

realized the existence of keener competition than they had expected. As in previous terms, the salary offers were highest for the Ch.E.'s. However, there were more job offers for E.E. graduates. Of the January '66 graduates interviewed, the following results were compiled:

Number of offers	Degree	Average salary
3	Physics	\$618
6	Math	\$662
8	Chemistry	\$604
135	E.E.	\$652
21	Ch.E.	\$672
15	C.E.	\$610
61	M.E.	\$616

It should be noted that these figures are not wholly indicative of actual salaries, for they are based on offers, not acceptances. They have been compiled from forms which are submitted by the school to a national survey, which will be generally more representative. There are no figures available concerning the June '66 graduates.

The following major employers will be holding interviews this month: Xerox, March 8; Sikorsky and Con Ed, March 14; General Electric, March 16; Bell System, March 17; Dupont, March 28-29.

The Government service industries will be represented by approximately twenty Naval agencies on March 10, among which are the Ordnance Lab, The Weapons Lab, the Propellant Plant, and the Air Test Center.

## Engineering Drop-Out Rate Highest in CCNY

By FRANCINE CURNOS

The rate at which students transfer out of the School of Engineering and Architecture surpasses that of any other school in the City University.

In the Spring of 1965, 132 students of a student body of 2143 transferred from the School of Engineering into the School of Liberal Arts and Science or the Baruch School of Business. Most of the students transferred over to a B.S. curriculum. The majority of students changed their majors to the following fields: Mathematics: 27; Chemistry: 20; Physics: 9; Biology: 5; Geology: 4; Humanities: 23; Business: 21.

The major reasons students give for transferring are a lack of interest in engineering, greater interest in another field, inability to meet engineering requirements, or any combination of these reasons.

A conversion table for transfer students is listed below. All credits earned in the School of Engineering count toward the 128 allowable for the B.A. or B.S. and tuition fees must be paid beyond 128 credits. The academic average is carried over from Engineering into Liberal Arts and any foreign language work must

be taken at once. Credit for engineering courses not listed below must be approved by the Committee on Course and Standing of the College of Liberal Arts and Science. Generally the Committee does not allow more than six credits for such courses.

### Transfer Table from Engineering Into Liberal Arts

The following conversion table applies to courses completed in the School of Engineering and Architecture:

If the student has taken Humanities 1 or 1.1

## Partial Success For E&A Day

Turnout at this year's E and A Day was larger than at the last open house two years ago. An estimated five hundred high school students and parents enjoyed informative films and laboratory demonstrations in Steinman and Gothals. The free doughnuts were all consumed in the first half of the day.

It had been hoped that thousands of students would attend, but Professor List, Chairman of the E and A Day Committee, indicated that this figure may have been much too optimistic as a goal. Referring to the actual turnout he remarked, "I don't really know if we can expect more than this."

Professor List emphasized that the students responsible for organizing the entire occasion had done "everything that could be done."

A file, written by students directly involved in the projects, is being formed "after the fact" with suggestions for future E and A Days. In the past, according to Professor List, only the faculty filed information.

No particular reaction, either pro or con, has been received from the neighborhood community; nor does there seem to have been an unusually large attendance from any particular school or locale.

Humanities 2 or 2.1  
Math 1, or 7, or 7.1\*  
Social Studies 1 or 1.1  
Social Studies 2 or 2.1  
Social Studies 3

\*The Mathematics requirement for the B.S. degree is outlined on a separate orange sheet, available in Room 201, Adm. Bldg.

### He is excused from

English 3  
English 4  
Math 61, or 1 or 7  
History 1  
History 2  
Eco. 1 or Poli. Sci. 1 or  
Eco. 101  
Respectively

The following Engineering courses are creditable in Liberal Arts:

Architecture 1, 101, 112, 141.  
Graphics 1, 2, 5, 7, 8, 105, 107, 108, 109.  
Ch.E. 161, 167, 168, 176, 181.  
C.E. 104, 105, 110, 112, 120, 201, 205, 212.  
E.E. 104, 105, 106, 107, 111, 112, 124, 126, 131, 132, 133, 134, 135, 136, 137.  
M.E. 100, 101, 102, 104, 111, 114, 121.

Mathematics and Physics: All undergraduate courses.

### Student Switch from Engineering to Liberal Arts and Sciences

SPRING TERM 1965

From:	
Architecture	4
Ch.E.	32
C.E.	8
E.E.	53
H.E.	14

TOTAL 111

(Continued on Page 4)

## Faculty Approves Two New Courses

### Health Ed. Is Dropped For Arch., C.E., E.E.

The Tech faculty has approved curricular changes involving two new courses in computer technology. According to the proposals, all Chem. E's would take E 100, a new 2 credit course, instead of Graphics 8. All CE's and EE's would take E. 100 instead of Health Ed. 71. The ME dept. had no proposals for changes. E. 90 will be added to the list of approved liberal arts elective courses that can be taken during the junior and senior years. It is expected that students from the School of Liberal Arts and Sciences will be permitted to take these courses.

E. 100 will be a 2 credit course covering the basics of computer programming. It will be an expansion of the present 5 week non-credit course, and will include work with the College's IBM 7040 computer. E. 90 will be a 2 credit course on the significance of the computer in modern society. There will be no prerequisites for E. 90, but either Math 3 or Math 8 will be co-requisite for E. 100. According to Dean White, the new courses will be instituted to "keep up with the times" by enabling students to use the computer to solve problems.

All the affected students will have to adjust their planned programs. Chem. E's who have completed Graphics 8 and CE's and EE's who have completed Health Ed. 71 will be "strongly advised" by the Office of Curricular Guidance to take E. 100 anyway since courses will now have more of an emphasis on the computer as a tool for solving problems. Those

who took Health Ed. 71 or Graphics 8 after their upper soph. term will be able to apply E. 100 to the 6 required liberal arts credits to be taken as upperclassmen. Other will be able to enroll for E. 100 without being charged for the extra 2 credits at graduation. Students who are scheduled to take either Graphics 8 or Health Ed. are advised to go to 208 Administration after the Easter vacation to have their programs and election cards changed.

In Architecture, Arch. 1 has become Arch. 4. Arch. 260 has become Arch. 160. Graphics 5 is now Arch. 5. Arch. 105 is now Arch. 123. Art 32.1, 31.1 and H. Ed. 71 have been dropped. Arch. 2—principles of art and Arch. 3—fundamentals of design I, both 3 credit courses, have been dropped.

### Chart of Changes

**ME**  
None.  
**CE**  
H. Ed. 71 replaced by E. 100.  
**EE**  
H. Ed. 71 replaced by E. 100.  
**Ch. E.**  
Graphics 8 replaced by E. 100.  
**Arch.**

Arch. 1 is Arch. 4; Arch. 260 is Arch. 160; Graphics 5 is Arch. 5; Arch. 105 is Arch. 123; Art 32.1, 31.1, H. Ed. 71 dropped; Arch. 2 and 3 added.

Although the proposed new courses and curriculum changes are not yet official, it is expected that the Board of Higher Education, which is ultimately responsible for all such decisions will agree to the revisions. In the past, similar program changes have been approved.

## Tech Film Cancelled For Lack of Support

Technology Council has shelved its plans for producing a film this term, which would have told of the benefits of the School of Engineering and Architecture.

Tech Council's decision was largely based on a lack of support from the administration. Fears that the film, made on a low budget, would not be of a professional level, the existence of industry-produced films that make the film unnecessary, and the inability of the Film Institute to complete the film prior to the Institute's departure in June seemed to have a permanent place in the minds of administrators.

Also involved in the decision was a breakdown in communications with the alumni association. Technology Council had believed that the association was consid-

ering making a \$50,000 film describing the school, giving some attention to the School of Engineering and Architecture. This would have rendered Tech Council's film unnecessary. The alumni film, however, will be an animated film; that is, still pictures will be interwoven by narration, and will deal with contributions of alumni to the college. This film is totally unlike the one envisioned by Technology Council.

Tech Council had placed before itself the almost impossible goal of completing the film by this June. Any minor breakdown would have destroyed the narrow timetable. Falsely believing its film unnecessary, and faced by roadblocks set up by the administration, Tech Council aborted the production of the film in February.



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## CUNY & City College

There is a famous fable of a watchmaker who designed the perfect clock. It could not break down, had a handsome outer design, and most important, kept very good time. Then, one day another watchmaker came to town long after the first had died, and decided that he could make the famous clock even bigger, better, and more grand, and he proceeded to rebuild the clock. Needless to say, he failed, and to the sorrow of all the townspeople, irreparably destroyed the timepiece.

Colleges seem to have the same indefinable spirit to them that clocks have. Fool around with their delicate mechanisms and they're apt to break down. So it is with City College.

The original makers of City College, long dead now, created a wonderful institution, whose fame as a place of scholarship and knowledge spread far and wide. Now, over a hundred years after its founding, new makers have moved into town, with the intention of creating a bigger, better, more grand institution, as shown in the recent move by the Board of Regents. TECH NEWS feels that a drastic mistake is being made. The attempt to rebuild the City University system could bring great sorrow to New York.

## Slide Rule League

TECH NEWS would also like to congratulate the Varsity Basketball team on its great showing this season. Like most students, especially Tech students, we are voracious fans of any City College team, and take pride in a winning team. This brings us to the question of why TECH NEWS doesn't cover the sports scene at City College.

There are many reasons, the most important being that this is TECH NEWS, a paper with a tradition of reporting on what is happening in the School of Engineering and Architecture.

At one time, about five years ago, TECH NEWS had sports to cover, and they were Tech sports. The Slide Rule League, composed of the fraternities and societies of Tech Council, was one of the top sports happenings at City College, and the League champions would regularly meet the champions of IFC, HPA, and the intramural league. For some reason, unknown to this paper, the League disappeared. It would be nice if Tech Council would resurrect the Slide Rule League so that TECH NEWS could report on Tech sports.

## Dirty Engineers?

Are ChE's and ME's dirtier than EE's, CE's, and Architects? According to the actions of the Curricular Revision Committee, it would appear so.

To meet changing needs and practices in the fields of engineering, a computer programming course has been added for EE's, CE's, and ChE's. TECH NEWS applauds this constructive change.

However, in order to fit this new course into the EE and CE sequences, Health Ed. 71 has been deleted, while it has been allowed to remain in the ChE and ME sequences.

Is the Curricular Revision Committee trying to tell the ChE's and ME's something? Or is this course being allowed to remain in these sequences merely for nuisance value? TECH NEWS strongly urges the committee to rid all Tech students of this unnecessary course.

## Inquiring Technographer

By PHILIP BURTON

**QUESTION:** Are you satisfied with the quality of services and the prices at the College Bookstore?

**WHERE ASKED:** Finley Student Center.

Neil Offen, Upper Junior, English Literature. The major problem concerning the service at the bookstore is that physically, the store is designed to accommodate about 13 people at one time. During registration and the first week of school, particularly, the store is reminiscent of a cattle drive. Any service you get then is purely accidental.

Concerning the prices, it's sort of unusual for a "non-profit" store to charge almost double for paperback books, isn't it? But, I guess it's either the Bookstore or Barnes and Noble, and really that isn't much of a choice.

frivolous accessories. I think the bookstore ought to be a bookstore, not a card shop or a 5 & 10.



Markowitz Plotkin

**Michael Markowitz, Soph, Political Science.** First of all, it seems that a huge percentage of textbooks aren't in stock during the first week of class. Secondly, there are very few people who are familiar with the rest of the book stock and it takes 20 minutes to find out they don't have the book you want. Thirdly, the store is extremely cramped, making movement on the best of days almost impossible. Lastly, the discounts on books seem pretty meager considering the volume and the "record specials" are a farce. And just to make matters worse, the management seems to accept criticism about as well as President Johnson.

**Nat Plotkin, Upper Junior, Math.** The poor conditions at the bookstore make shopping there almost as frustrating as waiting for the College to sponsor a football team. After waiting an hour for the aisles to clear, you invariably cannot find the book you are waiting for.

The bookstore, being a non-profit organization, should work solely for the support of the students. However, there is very little cooperation between the store and the College's teachers. The faculty members request books, the bookstore either orders too few, or not any. I believe that the bookstore could be run more smoothly if the pleadings of the teachers could be listened to and if more lockers could be obtained to eliminate the congestion in the halls.

## CLUB NOTES

## A. C. M.

Michael Gershman and Charles B. Kreitzberg will speak on "Some Useful Features of Our IBM 7040" Thursday, March 10 at 12:30 in S135.

## ASTRONOMICAL SOCIETY

Steve Ungar (Physics Dept.) will speak Thursday, 12:00 P.M., in room 16, Shepard Hall.



Offen Van Riper

**Frank Van Riper, Upper Junior, English.** The Bookstore isn't bad; it's not particularly good. Its stock of books leaves much to be desired, the salespeople are rude, and most important, the senior rings are too expensive. Moreover, the guy who buys back books at the beginning and end of each term makes Shylock look like a philanthropist. Also, they don't carry my brand of tobacco.

**Andy Stillman, Upper Soph, Mechanical Engineering.** When you consider that the bookstore is run only for the students, the service is quite unsatisfactory. When they run out of a certain book, they sometimes take two or three weeks to get the book back in stock. Also they claim to have bargains but you can get the same or better prices outside of school.



Stillman Kauffman

**Martin Kauffman, Upper Senior, Political Science.** I am satisfied with some things and dissatisfied with others. I think that the bookstore policy of giving immediate cash for used books is a good one, especially since students can sell books which are no longer used at the College. I have had some curious experiences, though. My sister bought new books at Barnes and Nobles at a lower price than the bookstore so I wonder about the profit motive. I think that this situation should be investigated. There are charges of alleged kickbacks and placement of more expensive editions of books on the shelves. These charges should be either proven or disproven. Also, in reference to complaints that I have heard from engineering students: I believe that the bookstore should devote a greater proportionate share to engineering texts and materials and a smaller space proportionally to such things as scarves, beer mugs, and other

## Tutoring for Draft Exam



The tutoring program, sponsored by the Technology Council, will be expanded to aid liberal arts students on the draft board deferment examination.

At the March 3rd meeting of the Technology Council, a report on the program, submitted by Clifford Tisser (V.P.), was passed. The first part of the proposal will have previous Selective Service examinations published and distributed by Tech Council to students of the College. The second part will establish a tutoring program, open to all students, designed to answer questions occurring on these examinations. In the preface to the motion, the Council realized its obligation to serve not only engineering students but all the students in the College.

Under present proposals, tutoring for the deferment test will be an expansion of an already existing system. Special hours will be set aside during the week for students requesting aid in instruction in algebra and trigonometry in small classes of five to ten students.

The tutoring program, which is under the coordination of Morty Fischer, treasurer of Tech Council, will continue in its regular operations. Since the fall of last year, this program has tutored students in almost all mathematics, physics and engineering courses.

The tutors are all members of the engineering honor societies offering their free time to the program. Tau Beta Pi, Eta Kappa Nu, Pi Tau Sigma, and Chi Epsilon are the member honor fraternities participating in the program. Sigma Alpha is also tutoring students but only in the Mathematics 91 and Physics 3 courses.

All engineering students requiring aid in any of their subjects are encouraged to join one of the tutoring sessions. These sessions are now being held in Steinman Room T6 on Monday, Wednesday and Friday from 11-3 and on Tuesday and Thursday from 11-12. A schedule posted outside the room lists all the tutors, their majors, and the hours they are available.

Morty Fischer commenting on the success of the tutorial program, said that it is "bettering the output of all engineering students, the tutors gain confidence by instructing, and the students are helped in their subjects."

## WANTED: DISTRICT MANAGERS — SALES

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**G.E. DAY:  
MARCH 15, 1966**



990-11

# TECH LIFE

By LENNY SOLOMON



Last fall, Tech Council had some very ambitious programs. High on the list was one that called for the production of a film about the departments of engineering and architecture. This was something that was never attempted before by an organization such as Tech Council. The Council members were very enthusiastic about it, and had done much work towards its ultimate completion.

Meetings were held with the film institute, script writers, and faculty members of the various involved departments. Money was sought from such sources as Student Government and the Alumni Association.

Since the idea of producing a film was a very dynamic one, emotions concerning the film ran high in the council. It would take much work, but most members were willing to do it. Finally, Tech Council would have some tangible evidence that it was a body of action and not just talk. While the discussions and work were going on, the minutes of each Tech Council meeting were sent, as usual, to the various top members of the administration from President Gallagher on down, in order to keep them informed.

At the February 18th meeting, Tech officials buried the idea of producing a film. I should say that the idea was really buried for them. The official reason given for the action was lack of funds. The sum of \$750 that Student Government had allocated to partially cover the cost of the film was vetoed by Dean Blaesser. He stated that the film would widen the gap between the engineering and liberal arts schools, and that it was not really needed for Freshman Orientation, its original proposed purpose. Finally, the Tech Alumni decided not to give the financial assistance that it might have given. The President of Tech Alumni stated that he did not think that in the time available it could be properly completed.

All of this is very sad when one realizes that all of Tech Council's work went for naught. But looking deeper into past events, a much greater tragedy becomes apparent. Throughout last term the administration was fully informed about the plan of Tech Council and its zeal for this project. Dean Allen and President Gallagher had shown some disapproval but had failed to give believable and practical reasons for it. Dean Blaesser knew that the council proposed to go to Student Government for money but failed to veto the idea until this term. It must be asked, why had not the administration come forth sooner and really discussed the matter in depth with the full council? The only reason that I can come up with is that there was fear on the part of the administration. The administration did not want to antagonize the students on the council for fear that they would publicly make waves. However, looking at it from the administration's point of view, they did have a valid point. I truly wonder how many students were initially agitated in the Berkeley demonstration for Free Speech. Probably just a few, but due to the idealism of the students it grew into a fight against the establishment.

It is a pity that such a polarity does exist between the students and the administration, or to put it more broadly, between the old and the new generation. One would hope that, especially in an institution of higher learning, the lines of communication between students and administration, built upon reason and logic rather than fear and emotion, would be more fully apparent.

On February 19th and March 5th, the engineering honor fraternities catalogued the student record cards. The students catalogued were upper juniors and higher, with reference to their index, class standing in their department, and over-all class standing.

All of this was done in order to ascertain who is eligible to pledge the various fraternities. Unfortunately, much of this work goes to waste because many of the juniors and seniors do not even know that the fraternities exist.

These societies have high standards, so if you are eligible, it is to your advantage to go to the smoker and to find out what the fraternities have to offer. If you do become a member, you can say with pride that you had that little extra something to become a member of an honor fraternity.

Last week I saw Steve Richman of Eta Kappa Nu, the electrical engineering honor fraternity, and asked him if he had anything that he would like publicized in my column. He suggested that I congratulate the new president and vice president of his fraternity. So without further ado, I hereby congratulate Norman J. Elias upon gaining the position of president, and good old Steve Richman upon reaching the office of vice president. Now, who said Steve stuffed the ballot box?

## Dr. Froehlich, Female EE Prof., Retires

Dr. Cecile Froehlich, former chairman of the electrical engineering department at City College, has retired after 23 years of teaching here. She has been named Professor Emeritus.

The only female electrical engineering professor in the city, Dr. Froehlich has been a prime mover in encouraging women to undertake engineering as a career.

A great deal of misinformation is prevalent among women concerning engineering, she said. "Young women think of engineering as a physically taxing, masculine occupation. Actually many branches of engineering are ideally suited to girls," she added. Among the fields she cited are acoustics, electronics, engineering design and chemical engineering.

"In most instances," declared Dr. Froehlich, "no one bothers to tell female high school students about engineering careers. As a result, the girls frequently fail to elect adequate preparatory courses in mathematics and science. When they get to college, they find they don't have the necessary qualification to study engineering."

In 1952, Dr. Froehlich wrote to Mrs. Eleanor Roosevelt pointing out that training more female engineers would be an ideal way to ease the engineering shortage. The former first lady was so impressed, she discussed the letter over her TV program.

Her own career at City College has been highlighted by a number of notable breakthroughs. She was the first woman appointed to the faculty of the School of Engineering and Architecture, the first woman to attain the rank of full professor in the School, and the first woman to be elected chairman of any department of City College. She was instrumental in establishing a chapter of the American Association of University Women at City College.

She also helped to establish the Society of Women Engineers at City College, and has been awarded the Women's Badge by Tau Beta Pi, the national engineering honor society.

During the summer of 1964, Professor Froehlich served as curriculum coordinator for the experimental Mathematics Enrichment Summer Program at City College, jointly sponsored by the National Council of Negro Women and the Heineman Foundation. The program was part of a nationwide campaign to recruit more Negroes, particularly women, into science, engineering and mathematics careers. Dr. Froehlich donated her services to the program free of charge and encouraged other faculty members to do the same.

A native of Cologne, Germany, Dr. Froehlich attended the universities of Berlin and Cologne before receiving her doctorate from the University of Bonn in 1926. She taught briefly at the Girls City High School, Wiesdorf, Germany, and then worked as a mathematician for the Allege-

meine Electricitaets Gesellschaft, Berlin.

She resumed teaching in 1937 as a lecturer with the Ateliers de Constructions Electriques de Charleroi, Belgium.

Dr. Froehlich came to this country in 1941, and worked until 1942 as a professional consultant

with the Westinghouse Electric International Co. Appointed to the electrical engineering department at City College as an instructor in 1942, she rose through the ranks to become professor in 1954.

Dr. Froehlich is listed in *Who's Who in Engineering*.



## On Campus with Max Shulman

(By the author of "Rolly Round the Flag, Boys!", "Dobie Gillis," etc.)

### ROOMMATES: THEIR CAUSE AND CURE

You'd think that with all the progress we have made in the education game, somebody would have found a cure for roommates by now. But no. Roommates remain as big a problem today as they were when Ethan Mather founded the first American college.

(Contrary to popular belief, Harvard was not the first. Mr. Mather started his institution some 100 years earlier. And quite an institution it was, let me tell you! Mr. Mather built schools of liberal arts, fine arts, dentistry and tanning. He built a lacrosse stadium that seated 200,000. Everywhere on campus was emblazoned the stirring Latin motto CAVE MUSSI—"Watch out for moose." The student union contained a bowling alley, a weighing machine, and a sixteen-chair barber shop.)

(It was this last feature—the barber shop—that, alas, brought Mr. Mather's college to an early end. The student body, being drawn chiefly from the nearby countryside, was composed almost entirely of Pequot and Iroquois Indians who, alas, had no need of a barber shop. They braided the hair on top of their heads, and as for the hair on their faces, they had none. The barber, Tremblatt Follicle by name, grew so depressed staring day after day at 16 empty chairs that one day his mind gave way. Seizing his vibrator, he ran outside and shook the entire campus till it crumbled to dust. This later became known as Pickett's Charge.)

But I digress. We were exploring ways for you and your roommate to stop hating each other. This is admittedly difficult but not impossible if you will both bend a bit, give a little.

I remember, for example, my own college days (Berlitz '08). My roommate was, I think you will allow, even less agreeable than most. He was a Tibetan named Ringading whose native customs, while indisputably colorful, were not entirely endearing. Mark you, I didn't mind so much the gong he struck on the hour or the string of firecrackers he set off on the half hour. I didn't even mind that he singed chicken feathers every dusk and daybreak. What I did mind was that he singed them in my hat.



To be fair, he was not totally taken with some of my habits either—especially my hobby of collecting water. I had no jars at the time, so I just had to stack the water any-old-where.

Well, sir, things grew steadily cooler between Ringading and me, and they might actually have gotten ugly had we not each happened to receive a package from home one day. Ringading opened his package, paused, smiled shyly at me, and offered me a gift.

"Thank you," I said. "What is it?"

"Tak butter," he said. "You put it in your hair. In Tibetan we call it gree see kidstuff."

"Well now, that's mighty friendly," I said and offered him a gift from my package. "Now you must have one of mine."

"Thank you," he said. "What is this called?"

"Personna Stainless Steel Razor Blades," I said.

"I will try one at once," he said. And did.

"Wowdow!" he cried. "Never have I had such a smooth, close, comfortable shave!"

"Ah, but the best is yet!" I cried. "For you will get many, many smooth, close, comfortable shaves from your Personna Blade—each one nearly as smooth, close, and comfortable as the first!"

"Wowdow!" he cried.

"Moreover," I cried, "Personna Blades come both in Double Edge style and Injector style!"

"Sort of makes a man feel humble," he said.

"Yes," I said.

We were both silent then, not trusting ourselves to speak. Silently we clasped hands, friends at last, and I am proud to say that Ringading and I remain friends to this day. We exchange cards each Christmas and firecrackers each Fourth of July.

The makers of Personna® Stainless Steel Blades who sponsor this column—sometimes nervously—are also the makers of Burma Shave®. Burma Shave soaks rings around any other lather and is available in regular or menthol. Be kind to your kisser; try some soon.

IF  
YOU CAN  
READ THIS  
THEN READ  
TECH NEWS

# Chi Epsilon

## CE's Honor Fraternity

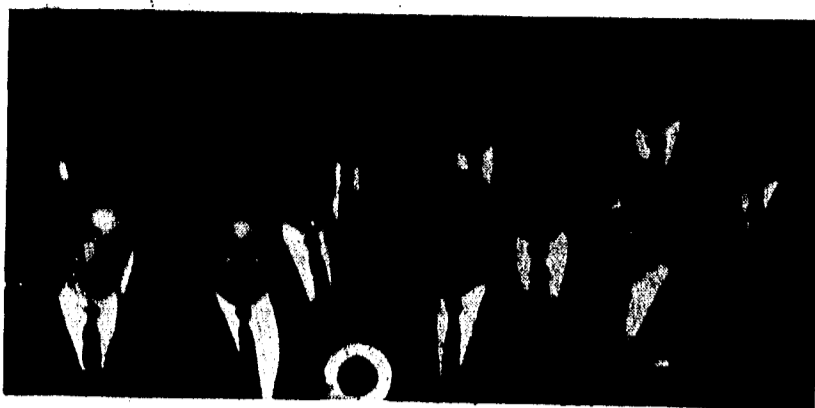
Due to some missed connections TECH NEWS was unable to print the following article in their last issue. We thank Chi Epsilon for their helpful patience.

By ROBERT WEINSTEIN

In the spring of 1922 two groups of civil engineering students at the University of Illinois, one named Chi Epsilon, and the other Chi Delta Chi, without knowledge of each other's intentions, took steps to petition the faculty for permission to establish an honorary civil engineering society. As soon as the two groups became aware of each other, they merged to petition as one. The faculty, in favor of the idea of a departmental honor society, gave the students moral support, and on May 20, 1922 the Council of the University granted the petitioning group of 22 charter members permission to found the CHI EPSILON FRATERNITY. Today, almost forty-four years later, more than fifty chapters have been granted charters, and 18,000 individuals, membership.

The governing body of the national fraternity is the Supreme Council. Among the duties of the Council is the publication of "The Transit." This bi-annual magazine gives the opportunity for a chapter and its members to get an idea of how their fellow chapters conducted their activities during the past term. It also presents biographies of important figures in the field of Civil Engineering who have been elected national or chapter honor members.

Many of the readers may wonder, "Why an honor society?" "What is its purpose?" The best answer we can give is stated in our constitution: "... Chi Epsilon was organized to recognize the characteristics of the individual Civil Engineer deemed to be fundamental to the successful pur-



Last Term's Members — Top Row, left to right — William Gay, Larry Smith, John Fillos, Theodore Maffei; Middle Row — Larry Olinger, Yiangos Antoniadis, John Boyce, Walter Saukin; Bottom Row — Peter Ciccoto, Thomas Graziano, James Amanatides, Richard Woska.

suit of an engineering career, and to aid in the development of those characteristics in the Civil Engineering student. . . . To contribute to the improvement of the profession, Chi Epsilon fosters the development and exercise of sound traits of character and technical ability among Civil Engineers, and its members, by precept and example, toward an ever higher standard of professional service."

The fundamental characteristics mentioned in the constitution are what we of Chi Epsilon consider the basis of membership in our society. They are the four primary requirements of a successful engineer — Scholarship, Character, Practicality, and Sociability. The first is met by the attainment of a scholastic average which places the individual in the top third of his class. The other three are met by the individual himself.

But, how can an honor society foster the development of sound engineering traits? The answer is relatively simple. By honoring those who achieve the requirements of the society, it sets a standard to those who have not as yet been honored. Although only a small number can fulfill the

scholastic requirements, everyone can fulfill the remaining three. Thus, if everyone tries to attain the ideals of Chi Epsilon, the purpose of the society will have been achieved.

The history of Chi Epsilon at the City College first began in 1949 when CCNY became the thirtieth chapter of the Chi Epsilon Fraternity. At present almost four hundred individuals have been honored with the Chi Epsilon key and certificate.

In an effort to aid the Civil Engineering department Chi Epsilon has set up a tutoring program for those desiring help in civil engineering courses. We also make available the use of desk calculators to all students. As a service to the school, Chi Epsilon, along with the Chemical, Electrical, and Mechanical Engineering honor societies, determines the class standings of all juniors and seniors in the engineering curriculum.

We of Chi Epsilon hope that you will keep us in mind, for, whatever your field of endeavor may be, the ideals of Chi Epsilon are for you. They are the fundamentals for any successful career, and everyone should strive to achieve them.

# Industry Today

The world's first global operational weather satellite system is scheduled to go into service this Spring after the National Aeronautics and Space Administration has launched two TIROS Operational System (TOS) weather satellites for the Environmental Science Services Administration (ESSA).

The first of the two satellites is scheduled for launching February 2, and the second about three weeks later. The satellites, built by RCA's Astro-Electronics Division, Princeton, N.J., under the technical direction of the Goddard Space Flight Center are designated ESSA-A and ESSA-B. NASA will launch all operational TIROS for ESSA of which the U.S. Weather Bureau is a division.

The satellite system will be managed and operated by ESSA's National Environmental Satellite Center, Suitland, Md., to provide full coverage of the earth with weather television pictures from the ESSA-A spacecraft every day. ESSA-B, carrying Automatic Picture Transmission (APT) cameras, will provide local weather pictures to inexpensive receiving stations located throughout the world.

The primary command and control ground stations for the TOS system are located at Gilmore Creek, Alaska, and Wallops Island, Va. ESSA-A pictures will be relayed from these stations to Suitland, Md., for processing.

The ESSA-A spacecraft carries two conventional TIROS television cameras in a rolling wheel configuration. ESSA-B, using two

Automatic Picture Transmission cameras to "broadcast" pictures of cloud cover to local stations around the world, also will like a wheel in its orbital path.

Abraham Schnapf, RCA's project manager for the TIROS/TOS program, said the launchings of the operational weather satellites will be a major milestone in U.S. space endeavors, since all weather satellites orbited to date have been developmental, though they have provided considerable operational data.

## Dropouts

(Continued from Page 1)

Student Switch from School Engineering and Architecture To the Baruch School of Business for Spring Term 1965

From:

Ch.E.

E.E.

C.E.

M.E.

Architecture

TOTAL 21

### PHOTOGRAPHS

Taken in School

Passport and Other Types

Up to 8 x 10

HA 4-6187 — 8-10 P.M.

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**MARCH 15, 1966**



996-11

**WANTED:**  
**MANAGERS —**  
**APPLICATION ENGINEERING**  
**SALARY: \$19,000 and up**

POSITION AVAILABLE: 1970.

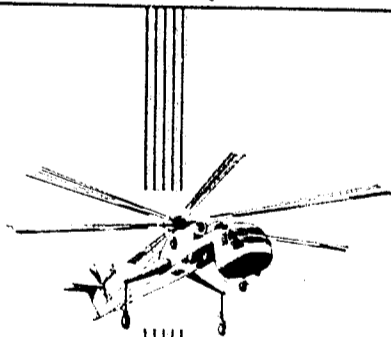
REQUIREMENTS: BS degree, plus G-E Technical Marketing assignments in headquarters and field sales locations. Specific experience in application of engineering background to sale of G-E industrial products. Thorough knowledge of leading U.S. industrial customers; equipment needs.

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