

## TECH



## NEWS

SCHOOL OF TECHNOLOGY

1, NO. 3

Thursday, Nov. 18, 1954

By Student Fees



NOT ONE OUT OF FIFTY

picture ten members of the mechanical engineering department feverishly pushing their e-rules to the tune of the "William Tell Overture" and hurriedly handing in their papers for grading by vengeful students! While many of you may have dreamed of such an event, we actually staged it, in the faculty dining room, Nov.

what was generally acclaimed to be one of the most successful student-faculty affairs in the past few years, ASME thus showed its appreciation for the assistance of its new honorary chairman, Prof. Sherwood B. Brad, by holding a dinner in

his honor. But this was no ordinary dinner, as those present soon found out.

Prof. George Guerdan, chairman of the mechanical engineering department, led off the evening in a more serious vein by briefly commenting on the nature of the American Society of Mechanical Engineers and its importance to the profession.

After a formal introduction to the group by Daniel Rosner, president of the student branch, Prof. Menkes emphasized that the engineering student's pride in his own profession is of great importance. ASME then showed its appreciation for his advice and help by presenting to

Brad, as he is known to the faculty, a copy of the "Machine Tool Primer" and an engraved pen and pencil set.

Three sinister gentlemen suddenly appeared at the door. The hugest of the three carried a locked briefcase. The students knew that this was the moment... the moment they would get a chance to solve a challenging problem under enormous pressure. Papers were distributed and the test began. Problem: *If a nine foot, filthy, 180 lb. student is taking a two hour exam in a purple phone booth and the temperature of the student is estimated at 120° F when the walls*

Continued on Following Page

## ASME Dinner

Continued from Page 1

are at 70°F, find the weight of the student when he hands in his paper.

The student knew that with the correct answer went two tickets to "By the Beautiful Sea" and, as impossible as the problem sounded, it could be done. But strangely enough, not one out of 50 could come up with the correct answer, 34 lbs., (Tsk, Tsk) and the award went to Mike Landau, whose answer of .62 oz. was the closest. The faculty was shocked!

However, the real shock came when the faculty problem was distributed. Problem: A full load test of a student was completed last week and the following data was recorded: Student, who had watched 10 hours of TV in the past week, and had devoted three hours to preparation for a 50 minute quiz (ed. - William Tell Overture begins) boasted a 50% average in a class whose average was 75%. The night before the quiz he applied 0.1

oz. of talc to his \$22.00 slide-rule. Test conditions: Barometer reading, 30.0" Hg. Idiot in front seat: IQ of 110. Find this student's index of nervousness when the test paper is distributed.

But again, strangely enough, not one out of 10 faculty members could come up with the correct answer and the award (a bottle of whiskey) went to Prof. Lawrence Hem, whose answer of 9.0 was the closest. The students were shocked.

Finally, without a breather, the students were permitted to sit in on a conference of the World Committee on the Partition of the Atmosphere, a skit in which Shelly Pinsley and Gene Sommer played Russian, French, English and German scientists tackling this problem. They were assisted by Morty Rosenberg, moderator, and a number of clever props and get-ups.

In closing, Dan Rosner thanked Hal Pergament and Bob Weiss for their help in making the dinner a success.

## LETTERS

Dear Sir:

Among your many well-wishes please add my name. It seems to have taken a surprisingly short time to see the Tech News re-emerge as a result of the vigorous strivings of this particular intellectual community of thought and action, and it is gratifying to be able to characterize this rebirth as being both healthy and attractive.

I sincerely hope that future issues will retain the same obvious sincerity, consideration of format and content, hard work, and overall impression of a sound enterprise well executed.

Our professional desire for recognition and prestige for our work occupation and social position must be accompanied by self-awareness of importance and significance if it is to be successful. Acting in a competent and significant manner to demonstrate this self-awareness, the first issue of the Tech News 1954 model; is a notable step in this direction.

My best wishes for the future

Sherwood B. Menkes

Assistant Professor

Mechanical Engineering



# TECH NEWS

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THE INQUIRY  
TECHNOGRAPHY

QUESTION: Do you  
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## Invitation

The ASME cordially invite you to attend the 1954 Annual Meeting, to be held Nov. 28 through Dec. 3, 1954, at the hotel Statler, McAlpin, and Governor Clinton. Sessions will feature talks on Rocket Combustion, Space Travel, Heat Transfer, Gas Turbines, Air Conditioning, etc. Also featured will be a Member and Student Luncheon, Dec. 2, at 12:15 PM in the Ballroom of the Hotel Statler. If you wish to join the group of members attending, either as a student aide, or as a "browser" come to the ASME meeting today, Room H017 at 12:15 PM.

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Thursday, Nov. 18, 1954

# THE INQUIRING TECHNOGRAPHER

QUESTION: Do you feel that the engineering student is socially capable?



Barbara Gore—Psychology  
I feel that engineers lack leisure time, but when they do get away from their books, all they ever talk about is school. I mean, they're just educated robots.

Maria Marie Fox—Anthropology  
Engineers are all frustrated introverts, who have no time for anything but "pouring" over formulas.



Charlotte Leibowitz—Education  
Due to their lack of cultural courses, I find that I have very little in common with the City College Engineer. They seem so trapped-up in their texts, that they can't seem to penetrate their thick wall of egotism.

Norma Prude—English  
The modern engineers are un-outh, illiterate, egocentric idiots. They are social-misfits, lacking the art of gracious living. They look, feel, and act awkward. Their world consists of sex, science, sex, mathematics, and sex. I wish the engineers were locked in their Ivory Tower, so they could not spread their harmful influence to the younger generation.

## Grand Awards

The eighth annual competition of the Engineering Undergraduate Award and Scholarship Program sponsored by the James F. Lincoln Arc Welding Foundation is now open to all our engineering students. This program enables undergraduates to receive the opportunity for national recognition as well as material benefits in cash awards.

Because this program is an undergraduate design program, not requiring a research project or a knowledge of the mechanics of welding, students can participate within the time restrictions of their curriculum and without having taken a course in welding. Its purpose is to encourage engineering undergraduates to study the value of arc welded design in machinery and structures.

Under the award plan, a paper may be submitted for competition in one of two separate Divisions, Mechanical or Structural. Duplicate awards, 46 in number, are offered in each division, totalling \$3500. First prize is \$500.

In addition to the 46 awards offered in the two separate competitions, 3 Grand Awards will be made to the 3 best-of-the-program papers chosen from either of the two Divisions. All papers are eligible to receive both a Divisional Award and a Grand Award. Grand Awards will be \$750, \$500, and \$250 for first, second, and third places respectively. The winner of first prizes in both the Divisional and Grand Awards programs will get \$1250.

As far as the writer knows, no CCNY undergraduate has ever taken the opportunity of competing for these prizes. This is a pathetic oversight. Knowing the caliber of work of which CCNY students are capable, there is no doubt at all that CCNY will be represented among the prize winners of this year's program—if they take the opportunity to enter the competition.

Further information may be obtained from Prof. G. A. Olsen of the Civil Engineering Dept., Room 111a Tech.

# X TECH -ROADS

The college's capital budget is now being considered by the city Board of Estimate. Among the provisions is one allocating funds for the planning of a new Tech building. If the provision is approved, it will be the first ray of sunshine to squeeze in our over-crowded labs. A decision will be made by December 4.

Ever think of becoming a medicine-man instead of a tobacco man? A series of free lectures for the layman on various phases of the medical world is being held at the N.Y. Academy of Medicine, 103rd St. and Fifth Avenue. If you hurry you can attend the first lecture which was given yesterday.

The managing boards of TN and VECTOR recently held a joint meeting. Close coordination between the two publications is assured.

Opportunities across the border: One of the interesting sidelights brought out in a recent press conference with visiting Latin American students is the fact that the majority of foreign students attending City College are in the School of Technology. At the conference one was also impressed with the value of speaking a foreign language.

Signs of winter: The drinking water in Compton Hall is hotter than usual.

A year ago City broke all school records for blood donations in the metropolitan area. The need for blood is still with us. Engineer's blood, containing *Super-Enthalpy*, is especially requested. Today and tomorrow—let's flood the visiting Red Cross Bloodmobile.

Items for this column may be placed in the envelope on the TN bulletin board in Compton Hall, first floor.

# TECH LIFE

## Jobs for CHE's

The student chapter of AIChE was proud to present Prof. A. Schmidt of the ChemE department. He discussed the opportunities for graduates in the field of Chemical Engineering. The five main branches in which the engineer may begin his career are:

1. Research and Development
2. Design
3. Operation and Production
4. Sales
5. Management

In research and development, the engineer may do laboratory research (although this task is usually placed in the hands of the Chemist) but he would more likely work in the development department, which is concerned with the industrial application of the reactions developed in the labs.

The engineer, fresh out of school, will most likely be designing processing equipment.

The production engineer has six jobs in one. He is responsible for the control of raw materials, plant efficiency, safety, labor relations, scheduling of production, and control of finished products.

Today, more and more men with engineering degrees are being trained for sales. The chemical salesman of today must know what the product will and will not do. For this type of work the engineer must be able to get along with people. He must have imagination and foresight and a firm knowledge of the chemical industry.

There is also a large trend toward promoting engineers to managerial positions. However, such a position, as is that of a design engineer, is in the distant future for a young graduate.

Since the chemical industry is the fastest growing and the most basic of all the American industries, the future for the chemical engineer looks very bright.

## Human Engineering

CE, ME, EE, and CHE are common terms heard at the college. But, have you ever heard of Human Engineering? Probably not! Yet this is not a new field, just a new concept of the duties and responsibilities of the engineer.

Dr. Morris Cohn, former City Manager of Schnectady, N.Y. and member of the Evening Session Graduate Faculty, spoke to the ASCE.

Dr. Cohn, although centering his speech around the field of Sanitary Engineering, vividly demonstrated how the engineer is



Dr. Cohn - The Sanitary Engineer.

responsible for the health and welfare of the general public.

Sanitary Engineering interconnects with many other professions once thought far removed from engineering. It is with this in mind that we change our title to "Human Engineering."

The Human Engineer deals with the things that man must have to live. He provides pure drinking water, he supervises and designs methods of transporting food in large quantities, he endeavors to keep the air we breath free of irritating impurities. It is the job of this engineer to provide a healthful and clean environment in which to live, to remove wastes in the form of sewage and trash, and to keep germ carrying animal and insect pests under control.

## Let's Bowl

The members of AIEE and I laid aside their slide rules, turned off their oscilloscope and tripped the circuit breaker as they answered to the battle cry of "Let's bowl!" The occasion was the semi-annual bowling party held Friday night, Oct. at the City Hall Bowling Alley.

Nine hardy Electrical engineers startled spectators and overworked the pin boy as they bowled strike after strike. Pins were sent flying most often during the evening by Dave Citron; he was high man with a score of 170. Dave credits his success to constant study and clean honest living; besides, he lives in Brooklyn. Vin De Marco, one of the smaller EE's at the school, proved to be a big man on the alley by bowling 151. In the next game, he bowled only 95 but said that he didn't want to make the rest of us feel badly by bowling high again. Herb Sklar, president of AIEE, showed amazing skill in leaving the two furthest pins standing. He and Tom Weiss bowled 135. Low score of the night, 85, was made by Jerry Goldberg; he claims that it was an off night.

The group was divided into two supposedly equal teams. However, the group of 5 poorer bowlers whipped the so-called better men by 95 pins. Fortunately, there were no accidents, but, in an effort to knock down the last tottering pin, a few members overtaxed their bunions while stamping on the floor.

The evening of bowling ended with the losers buying beers for the triumphant team and then all went to a pizzeria. Two hours and four large pies later, the bowling party ended. The EE's suffering from sore arms and indigestion, left for home, with this final attempt from Herb Sklar, "We had a heck of a good time," and we're going to do it again, but let's see more EE's joining in.

Drafting

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Drafting 101 - Plate 14.



Must have been a good one.

### Thermo Blues

Pi Tau Sigma, the honorary Mechanical Engineering fraternity, held its semi-annual smoker with elections the following week. Those elected to the board were: Upper Senior - W. Miller, R. Weiss; Lower Senior - Citron, R. Cohen, J. Jellik, L. Senhouse, R. Wildfeuer; Upper Junior - N. Fabricant, E. ss, M. Rubertone; Lower Junior - R. Banks, D. Tannenbaum. At the smoker itself, Sol Anderson began the festivities introducing the eligibles to Pi Tau Sigma and its members. of. Vigdor and Mr. Lowen of the faculty attended.

The members entertained everyone with a hilarious skit about a squad in ME 215. The highlights were a solo by Howie Bloemer and a song "Thermodynamics Blues" which was sung in the grand old tradition of the barber shop quartet. (Oh! those aching ears.)

ne: Battle Hymn of the Republic they asked him on the final if a le of any gas. In a vessel with a mbane thru which Hydrogen could ss, Were compressed to half its lume what the entropy would be, 2/3 Delta Sigma equal 1/2 Delta Glory, glory, dear old thermo,

Glory, glory, dear old thermo, Glory, glory, dear old thermo, I'll get you by and by. He said he guessed the entropy would have to equal four, Unless the second law would bring it up a couple more, But then it might be seven if the thermostat was good, Or it might be almost zero if one rightly understood. (Chorus). The professor read his paper with a corrugated brow, For he knew he'd have to grade it but he didn't quite know how, Till a sudden inspiration on his cerebellum smote, And he seized his trusty fountain pen and this is what he wrote. (Chorus). Just as you guessed the entropy, I'll have to guess your grade, But the second law won't raise it to the mark you might have made, For it might have been 100 if your guesses had been good, But I think it might be zero till they're rightly understood.

### 250-Mile Race?

If you see a Mexican Indian running by, kicking a small wooden ball in front of him as he passes, the chances are that he is a Tarahumara, a member of a Mexican Indian tribe whose home is in the Sierra Madre. The Tarahumaras are known to indulge in this sport just for the fun of it, and think nothing of making a foot race of hundreds of miles across mountainous and

difficult terrain, where it is hard enough to walk, much less run, to say nothing of nudging a wooden pellet all the way!

A fascinating discussion of the way of life of these Mexican Indians was presented by Mr. Rene Champion at the Oct. 28th joint meeting of Pi Tau Sigma, ASME, and SAE as the first cultural meeting of this term got under way.

Mr. Champion, who has lived with the Tarahumara tribes for five successive summers, told of the difficulties which he faced when he first began roaming the Sierra Madres, among a strange and primitive people. He had been warned that to enter the territory of the Tarahumaras unarmed was to take serious risk of his life. But an anthropologist must be a dedicated soul. He penetrated into the Sierra Madre mountains alone and unarmed, as a man of peace, and of science. His courage was finally rewarded when he achieved, not without difficulties, the anthropologist's first goal—That of being accepted into the group as a regular member.

In this way, he was able to observe the lives of the people with whom he was living.

### The People

The government of the Tarahumaras is strikingly simple. (In Mexico, two separate governments coexist; the Mexican and the Indian.) The village populus is called together once a week, whereupon the leaders exhort the men to work harder and produce more crops; the women to work harder and take good care of the children.

The diet consists mainly of beans from which a mild beer is made. This beer serves a very important function since it serves as a substitute for money. Mr. Champion assured the group that, although the beer is usually mild, it can be quite potent if imbibed in large enough quantities.



Everyone is visiting Piasecki

Helicopter Co. with **ASME**

Dec. 4.

## "Hurricane in a Box"

Robert Maxwell ('42) of Wright Aeronautics spoke to SAE-ASME on the fascinating topic of Ram-jets. Films and slides were also shown. By first showing the Turbo-compound, Turbo-props, Turbo-jet, and Ramjet he explained the elementary construction of jet propulsion.

The Turbo-prop utilizes a gas turbine to drive its propeller compressor.

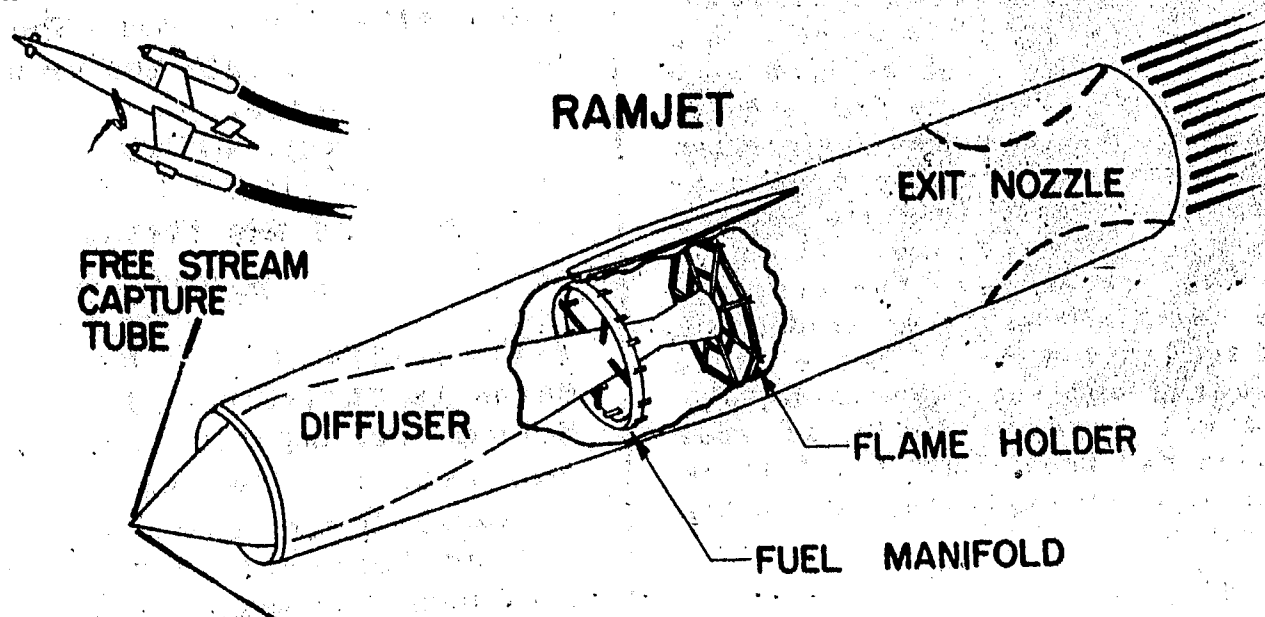
The Turbo-jet is similar to T-P and propels the craft through the reaction of the exhaust gases instead of a prop. It is essentially a cylinder in which burnt gases rotate an axial turbine which drives its compressor to maintain operation. The exhaust, expanded in a nozzle, produces thrust.

If the craft is moving rapidly, the intake air has sufficient kinetic energy to compress itself in a diffuser. This eliminates the need for a compressor and also the turbine.

The simplified engine operates on an open Brayton cycle. Thus, its efficiency is proportional to the pressure ratio. The engine operates more efficiently with a wider pressure range. It can be seen that the faster the craft goes, the more efficient the engine will be. Thus, the Ramjet is ideally suited for supersonic flight and poor for subsonic flight. Theoretically it produces the most thrust per unit fuel at three times the speed of sound. However, due to space limitation, the engines are run at only twice the speed of sound.

Since combustion takes place at about 3,500 degrees F., new metals must be developed before new engines can be built. Also, new exit nozzles and combustion chambers must be developed, for combustion is similar to "lighting a match in a hurricane."

Another inherent flaw in the Ramjet is the need for auxiliary power units to produce initial thrust in subsonic regions.



## Honor Students

The Dean's List is composed of those students who, in the preceding year, earned an average of 85% or over. Top men in the Tech School were:

Upper Sr. - Daniel Rosner (94.36%)  
Lower Sr. - William Konig (95.00%)  
Upper Jr. - Peter Profera (94.47%)  
Lower Jr. - Stanley Nasim (92.39%)

Murray Sumner received highest second year honors; Harry Hansen received high second year honors.



Things  
Tough Now?

Wait till Finals

## COMING EVENTS

### ASCE (T-107)

Today - Film Series: "Build for the Nations," "American First Prestressed Highway Bridge," others.

Tomorrow - Induction Dinner  
Nov. 26 - Field Trip to National International Airport.

### AIEE-IRE (H-106)

Today - Lecture by Prof. Ragni of Columbia University on Digital Computers.

### AICHE

Today - Lecture by Mr. Nelson of the Freeport Sulphur Co. on Production of Sulphur.

### ASME-SAE (H-017)

Today - Lecture by Mr. A. Shore on Metallurgy and Engineering.  
Dec. 2 - Student Paper Contest

### Tau Beta Pi

Nov. 30 - Initiation.

### Eta Kappa Nu

The Electrical Engineering honor fraternity held its semi-annual smoker, Nov. 5. There were speeches and films (including one on monkeys) followed by the traditional round of humorous anecdotes. The smoker enables the eligibles and members to get to know each other better. Those elected to pledge were:

Upper Senior—L. Onyszkewicz, G. Fisher, D. Price, L. Kagan, C. Steinberg, H. Feldman, Kushner, P. Weiner, O. Helman.

Lower Senior—A. Vigants, Goldberg, M. Eisenstein, Dreksler, A. Ledereich, W. H. man.

Upper Junior—T. Weiss, Fischel, J. Klapper, L. Wertheim, A. Ockene.



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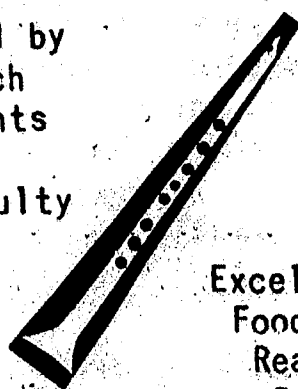
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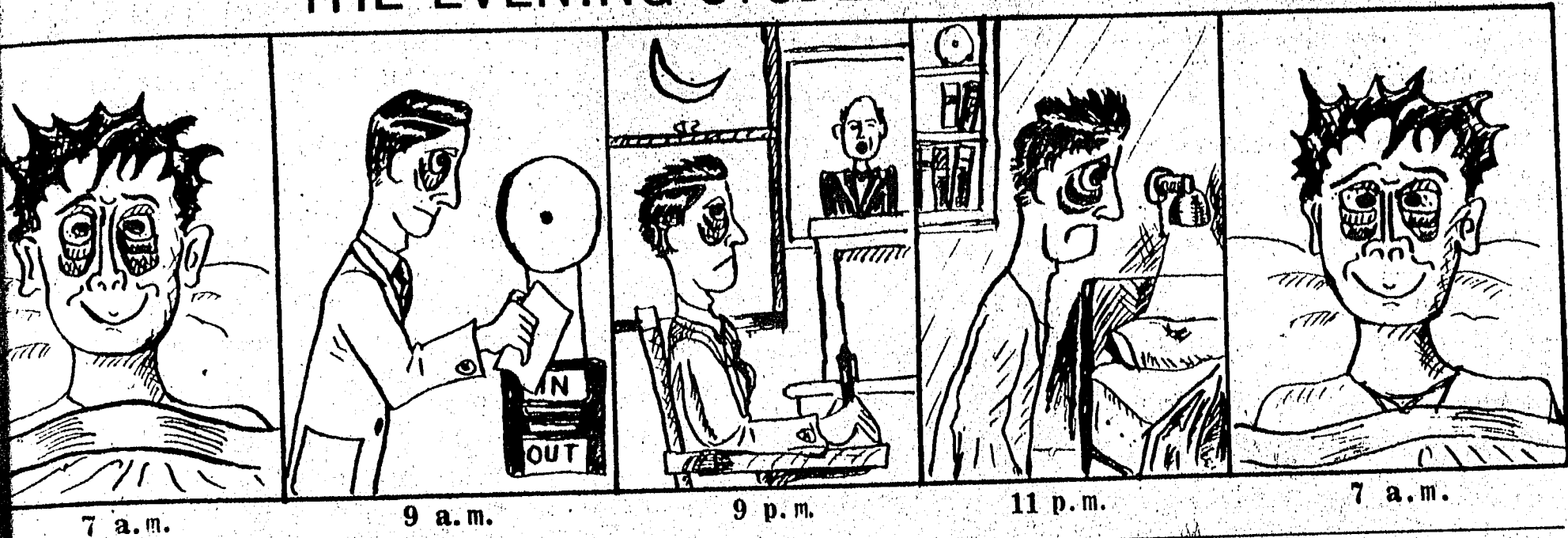


Excellent  
Food at  
Reasonable  
Prices

Menus Changed Daily



# THE EVENING STUDENT'S PLIGHT



The tutoring service, recently taken over by Sigma Alpha, honorary service fraternity, has incorporated, in itself, the tutoring services of other organizations. (For instance, Tau Alpha Pi, honorary engineering fraternity, has agreed to cosponsor the service and enroll some of its members as tutors.) The service is thus able to go out and offer its services to those who need it.

## Offered

Last term, of 408 students applying for tutoring, 49% asked for tutors in Math, 12% in Physics, 9.5% in Chemistry, and the rest, in other fields. Many of these lower classmen received high grades in these subjects where before they had little chance to pass. Should you be in need of this service, give yourself a favor and go to room 20 Main to apply.

## Needed

In order to extend this service to many more students, the service needs help urgently. Since the students are taught in small groups meeting only once or twice a week, the work is not hard. You will be helping,

not only the students, but also yourself, by gaining a greater understanding of the subject.

Please help the lower classmen and yourself by going to room 20 Main and filling out an application for the position of tutor as soon as possible.

## Top Event

The top social event of the CE department, the traditional ASCE induction, will be held tomorrow at the Georgian Room of the Hotel Picadilly (8:30 at 227 W. 44 St.). ASCE picks up the tab.

This term, the induction will again feature student and faculty skits, the student skits being planned by Larry Goldberg, Herb Renter, Hank Epstein and others who want to remain anonymous.

Last term when Prof. Keosian was the guest of honor, fellow faculty members rounded up more than 100 persons who, at one time or another, had figured in the professor's life. The hidden guests were introduced one by one as the festivities progressed, first by voice from a microphone so that he could try to guess who they were, then in the flesh. Although taken aback at first, the Professor was soon shrieking with happy astonishment. Some guests such as his old warden, were easy to iden-

tify. Others were more difficult to recognize, such as members of the long lost squad 61, who were found specially for the occasion by a search party led by Prof. Hartman, who subsequently caught a cold and could not attend the Induction. The 102 surveying squad had been lost around the Yonkers area since the summer of 1951, when they were sent out by the Professor on their stadia circuit. Their last instructions had been "Now get out there men, ain't no storm now, and anybody who says different gets an F".

We all thought it was a grand idea to bring the boys back. Everybody at the Induction chipped in to pay for the two plumb bobs the boys had lost.

The CE department is expected to turn up en masse to this event. Those who do not have dates as yet, may come stag, or see Bob Feuer who can fix you up "in a second flat".

## Graduating Seniors

Preliminary examinations for Engineer-in-training are being given soon after graduation. You must file an application before Jan. 14, 1955 with the Bureau of Professional education. Exam costs \$20.00.

A PLACE TO MEET AND EAT  
GOOD TASTY FOOD - PLEASANT ATMOSPHERE

AT PRICES TO FIT YOUR POCKETBOOK

DAILY SPECIALTIES

CAMPUS GRIDDLE

## SPORT

### Bowling Match

In the smoke-filled alleys of the "Star Bowling Alleys," the tension mounted. The students were leading by a very slim margin. Only Al Tufano for the students and Prof. J. Pistrang for the instructors were still to bowl. The crowd became dejected when Al hit only a seven but, when Prof. Pistrang also hit a seven, he assured the students a victory in the second match. That tied the total score at one all.

In all, the evening between the CE instructors and the CE students was a complete success. The instructors were all good sports (even with their threats of failures). The brand new dancing routine of Prof. Pistrang was great. The whirls and arm motions he used to entice a pin to drop were true representations of talent.

The highlight of the evening came when Marty Lippman ('56) bowled seven strikes in a row for a total of 218. It was the highest score of the night and a complete surprise to Marty. Top man for the instructors was Prof. White with a 167.

Where have the  
Chem E's been hiding?



All arms and legs.

### ASCE Romps AIEE 71 to 51

Oct. 28, Main Gym: The CE's, continuing their fine performance this term, turned in a neat victory over the EE's, 71 to 51. The CE's, a maneuvering team, were able to pass, dribble, and consistently score against a good EE squad. The EE's, although finally mustering up some welcome height, were unable to stop the amazing CE's.

It was a fast and tight game in which the CE's kept a constant lead throughout. Paul Delia, largely responsible for the CE's victory with his well-

timed shots, led his team with 17 points. Paul is a burly footer who, with his classmate John Sullivan (14 points), kept the CE squad running.

Pete Dorato, constant high scorer for the EE's, with 14 points for this game, with the help of Keller, with 12 points, prevented a mass slaughter by the CE's. Pete has a one-handed set shot that can hurt any opponent with its steady effective sting.

Other scorers in the game were: for the CE's, Dick Schwartz with 9 points, N. Miller with 8, A. Wolfman with 7, H. Rothenberg with 6, L. Goodman with 6, and Jim Jeffers with 4; for the EE's, Herb Targovnik with 8, M. Schwartz with 6, Vin De Marco and Hank D'Angelo with 4 apiece, and Lenny Wertheim with 3.

### STANDINGS OF TEAMS IN TIIC SLIDE RULE LEAGUE

	Won	Lost
1. ASCE	4	4
2. AIEE	2	2
3. ASME	1	3
4. AICHE	1	3

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