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TECH NEWS

CITY COLLEGE OF NEW YORK

VOL. XXIV — NO. 2

TUESDAY, OCTOBER 11, 1966

STUDENT FEES

Architectural Library, Shop Being Completed

Plans for the completion of the architectural model shop and library are progressing, according to Prof. Gilbert Bischoff, Chairman of the Architectural Department. The model shop, used by architectural students for design projects, was to have been completed Sept. 1, 1966. Delays were encountered in the delivery of the power equipment.

Presently students are working in the shop Monday through Friday afternoons using hand tools only. When the shop is completed students will have the use of planes, power saws, and drill presses.

Plans for the library have already been drawn and furnishings have been ordered.

Mr. Victor Barro will be in charge of the shop and will advise the students on the operation of the power equipment.

One leader of last year's protest for the model shop, Bill Cavellini, commented on its progress, "I'm impatient, but Prof. Bischoff is doing the best he can."

The proposed library is scheduled to be operative by the Spring term. It will be situated in Gonnels Hall room 211 which is now being used as a classroom.

Work on the library will begin as soon as competitive bids are received.



Miss Phyllis Cohen

Miss Phyllis Cohen has been appointed the librarian of the new Architecture Library which will house many volumes currently kept in Cohen Library and the engineering library.

Both of these additions for the School of Architecture will be completed by the time the accreditation board from the NAAB reviews the school's application.

S.G. Demands Voice

Sachs Threatens To Demonstrate

In an interview last week with Shelly Sachs, the S.G. President voiced his opinions on some of the problems now facing the students.

Mr. Sachs stated that S.G. was opposed to releasing class rank because it is "detrimental" to the University, and added that the coming student-faculty referendum should be binding on the University.

Referring to President Gallagher's plan to construct temporary prefabricated buildings on South Campus, Mr. Sachs said last Tuesday, "I would suggest that he [Pres. Gallagher] practice what he preaches" by holding discussions before reaching his decisions.

The S.G. President expressed doubt that the proposed buildings actually would be temporary. Referring to other universities, he explained that temporary structures "have a habit of becoming permanent."

Barry Shrage, Council '68 added that "six years is permanent for a whole generation of college students."

Mr. Sachs said that he is "prepared to go out and demonstrate" his opposition to President Gallagher's construction plan, but he indicated that whether or not he will demonstrate would depend on how "rationally" he is treated.

The student body President also condemned the Administration for never having presented the Master Plan to the students for their approval or disapproval.

SCHOLARSHIPS

All upper seniors who scholastically are in the upper part of their class are invited to attend a meeting to be held in T123 on Monday, October 24, starting at 2 p.m. Deans Hyman, Allen, and White will discuss Graduate schools and scholarships.

S.G. Condemns Gallagher

Student Council last Wednesday, Sept. 28, passed a resolution condemning President Gallagher's methods of reaching decisions on important issues.

The Council expressed its view that students are not permitted adequate involvement in the planning processes of the administration, and it announced its "intention of researching and deciding all present and future questions on its own."

In reply to the Council's charges, Dr. Gallagher wrote to Larry Yermack, Secretary of S.G., on Oct. 3 that "the basic decision has been made in the most public manner possible . . . If anyone feels left out of this process, he has only himself to blame. At this point, and every year, processes culminating in public hearings have afforded full opportunity to be heard."

Dr. Gallagher said that "the basic decision to admit at The City College all who wish to come, if they are in the upper 25% of the high school graduates of that year, was made with every opportunity for student participation. That decision, however, is basic commitment, which, once made, we do not waver on."

S.G. expressed its belief, in a rally Thursday Oct. 6, that other city campuses, specifically Hunt-

er's, have much more room for expansion than City does, and therefore City should not be made into more of a "factory" than it already is.

The following is the text of the resolution passed by Student Council Wed., Sept. 28.

RESOLUTION PASSED BY STUDENT COUNCIL WED., SEPT. 28, 1966

FACT: Decisions are being made at The City College which vitally affect the student body; yet no students are consulted until after these decisions are made. Specifically, a "Master Plan" for the expansion of the City University has been drawn up to enable it to accept a greater number of students. This objective was presented to the student body; nobody asked whether students considered this a desirable aim. Students also were not brought into the actual process of deciding on the means to implement the same; we were merely presented with suggestions from the Administration and asked for our opinion on them.

PRINCIPLE: Students should

Slide Rule League

Technology Council is again organizing its "Slide Rule League" this term. The League is made up of teams from the various tech groups.

Tomorrow is the last day for submitting entries in Wingate 101.

Otto Hammer, temporary coordinator of the League, told the Council that special times have been set up during the Thursday 2-2 free hours for the holding of Slide Rule League games. In addition, playing fields have been reserved through the cooperation of Dr. Frankel (Phys. Ed.).

Team sports to be played in-

clude touch football, volleyball, basketball, and lacrosse. Individuals from tech organizations will also be able to participate in sports such as tennis, paddleball, handball, and ping pong. The tennis and handball matches will include both the singles and doubles categories.

It was stressed that many organizations can enhance their club spirit by participating in these games.

Slide Rule League was reinstated last term by Tech Council after a lapse of several years.

(Continued on Page 8)

Lecture Poorly Attended

The Mechanical Engineering Department presented a lecture on "Cam Mechanisms in Spherical Space" by Prof. Dr. Walter Meyer Zur Capellen on Tuesday, Oct. 4.

Dr. Capellen, the author of many articles and papers on engineering and mathematics, is the Director of the Institute for Mechanical Research at Technische Hochschule in Aachen, Germany. Speaking to a disappointingly small audience, Dr. Capellen discussed how rotational motion is converted into irregular reciprocating motion on a background of spherical coordinates.

Dr. Capellen described various cam mechanisms on projection slides. His discussion was based on a unit sphere circumscribed about one of these cam mechanisms.



Dr. Cappellen

After the lecture one student commented, "His German accent was so heavy he could hardly be understood."

Job Orientation Sessions To Be Held For Advanced Degree Candidates

Last year, 73% of the companies and organizations which recruited graduating seniors at City College expressed desire to interview advanced degree candidates as well. This year, their interest in students here is no less great. So far, over 200 visits in the fall and 230 in the spring have been scheduled by the Placement Office.

Any student interested in exploring job opportunities may attend one of the appropriate employment orientations listed below OR telephone Larry Cooley at 234-2428 for information and instructions.

Orientations for Fall Visits (October 24 through December 9, 1966)

Engineering, Science and Architecture	Thursday, Sept. 29, 1966
Liberal Arts	Thursday, Oct. 6, 1966
All Degrees and Evening Session	Tuesday, Oct. 11, 1966

Orientations for Spring Visits (February 14 through April 7, 1967)

Engineering Science and Architecture	Thursday, Dec. 15, 1966
Liberal Arts	Thursday, Dec. 22, 1966
All Degrees and Evening Session	Tuesday, Dec. 20, 1966



Student Government Sparcely Attended Rally

take an integral part in decisions made at the College.

DECLARATION: The students of City College are concerned with the future of Education at this College and at this University. We feel that whether or not the University should expand, and the means to expansion, is a decision, in the making of which, we should have had a voice. This

(Continued on Page 8)

12 Noon—Townsend Harris Auditorium
12 Noon—Finley Center, Room 217
6:00 P.M.—Finley Center, Room 217

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6:00 P.M.—Finley Center, Room 217

News Analysis — Cultural Center

By JOE KRAMER

On the evening of September 30th, several of last term's officials of the College's Cultural Center held a meeting to clear the air for the large-scale Community Conference on October 8th. In attendance were a number of critics and a number of supporters (most of whom were last term's tutors, it seemed); representatives of Tech News, Observation Post, and House Plan Association; and Carol Kestenbaum, Jeff Petrocelli, and Paul Biderman, the leaders.

If there was any one specific purpose for the meeting, it never became completely evident. The emphasis shifted from explanations of the philosophy behind the temporary closing of the Center to the purpose of the October 8th Conference; then to predicting the outcome of the Conference and the theory of "the white students' role;" and on to why some female tutor wasn't asked to help with the mimeographing.

Questions Raised

Many valid questions were asked and points raised, touching the sensitive core of the problems of the Cultural Center. Are the tutors from the College contributing to the children's image of the "white authority figure"? Are white, middle-class students capable of bridging the cultural gap and truly communicating with the young Negro children? What should be the role of the City College student in Harlem? Does the white student actually have a place in a Cultural Center in the black community? Will the black community accept what the white student feels he has to of-

fer? And the list goes on, with each question suggesting more, before any single one has been fully dealt with.

The answers do not come easily. They can't, for they require a deep understanding of many (seemingly) vague concepts and feelings, not from the sheltered view of the white student, but from the black side.

Yet these questions must be asked, and the full implications of the half-answers understood, before any student can conscientiously take part in a program of this nature. Each individual's decision to join or not to join, or where and in what capacity, must be made on the basis of true commitment, a commitment deeper than just "the desire to do something worthwhile."

One can only hope that the October 8th Community Conference will have brought these problems into sharper focus and attempt, to whatever degree possible, to help resolve them. This must be done, in order that each student, and the College as a whole, may be able to do that which will prove itself most effective in the long run.

Draft Referendum

By KENNETH FLAXMAN

By the end of October, the much publicized "draft referendum" will have been held.

Presently, class standings are computed for all male students at the City College according to the school which they attend — Education, Engineering and Architecture, Liberal Arts and Science, and the Baruch School of Business and Public Administration. It is the option of each student to have this class standing sent to his draft board. The referendum will present the choice of continuing with this voluntary release of standings, or of discontinuing the computation of class standings, thus making it impossible for the standings to be released.

Voting in the referendum will be by school. If the voting in a given school is in favor of not computing class standings, the Faculty Council of that school will meet and vote as to their course of action. The final decision will be made by that Faculty Council.

The division of voting into separate schools was explained by President Gallagher to be a function of the autonomy of each school, that is, each school has its own budget, is responsible for its own curriculum, and for the hiring and firing of faculty.

It is possible that legal difficulties may arise from the school refusing to give out information relating to class standings to the selective service. These problems are being investigated, according to President Gallagher.

EFFECT ON SCHOOL OF ENGINEERING AND ARCHITECTURE

For the last fifteen or so years, class standings have been computed as a matter of course in the School of Engineering and Architecture. These standings are used for honor society purposes, and for reference by graduate schools and potential employers. In terms of admission to a graduate school, the class standing is of equal, if not greater, importance

than the actual average. From these considerations, it would seem unlikely that the Engineering and Architecture faculty would vote to stop computing class standings. Professor Clement (Chairman, Electrical Engineering and Architecture faculty) stated that in June of 1966 the faculty had overwhelmingly voted to allow class standings to be released to the local draft boards if the student so desired. Furthermore, Professor Clement sees no reason why this vote would change, as, having the class standing computed, to refuse to send it to a draft board when requested by a student would be infringing upon his individual rights.

It seems very unlikely that the present policy of releasing class standings on request will be changed in the School of Engineering and Architecture. The present system may not be perfect or universally loved — Assistant Dean D. Eitzer, sharing an opinion held by many, feels that it is unfortunate that draft deferment, a non-academic action, should be a consequence of an academic action, but knows of no reasonable alternative.

engineers,
scientists...



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Tech Lectures

A series of eight lectures will be presented by the School of Engineering and Architecture starting on Thursday, Oct. 13, 1966 in Steinman Hall, Room 123. The first topic to be discussed is "Melting Ablation and Vascular Dynamics" by Prof. Simon Ostrach, Professor of Engineering, Case Institute of Technology. The lecture starts at 3 P.M.

This series has a three-fold purpose: (a) presenting a method for studying complex physical phenomena in any field, (b) putting into perspective the vast amounts of work in the two illustrative problem areas and (c) presenting new and important results obtained from the lecturer's research.

Details of a melting layer around a body, including ring formations, will be discussed, as will the relation of this work to the origin of small meteorites (tektites).

With regard to vascular dynamics, an apparatus that simulates flow in the macrocirculation of the cardiovascular system will be described. Experimental results will be discussed showing the effects on flow of property variations such as tube flexibility, pulse frequency and fluid viscosity, similar to those that result from pathological or anatomical changes. Entrance effects on the flow and tube motion will be presented.

Dates of the lectures are:
Thursday, October 13, 1966
Friday, October 14, 1966
Thursday, October 27, 1966
Friday, October 28, 1966
Thursday, November 10, 1966
Friday, November 11, 1966
Thursday, November 17, 1966
Friday, November 18, 1966

Student Exchange Planned

By PAUL SIMMS

Groundwork has been laid for the exchange of students between Fisk College and a predominantly white college, hopefully Fisk. Local draft letters to the faculty have been sent, notifying them of the organization of a student-faculty committee to coordinate the details of the exchange with the board when the committee on Course and Standards would be.

Much of the credit for the organization of this exchange belongs to Ellen Turkish, Student Government Vice President of Fisk. She feels that there is a misconception about the Negro struggle for human rights and hopes that this exchange will enlighten some students about the actual state of the Negro movement and the true feelings toward white people that exist in the Negro community.

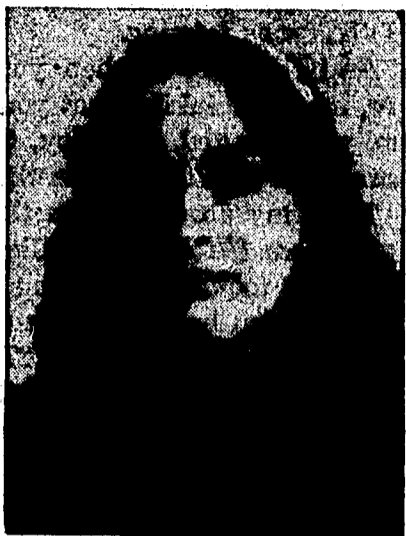
Although Fisk College is being seriously considered as the other school to participate in the exchange, Howard University in Washington, D.C., and Talladega College in Alabama are also possibilities. These schools were chosen due to their high academic rating.

Dr. Nelson Fuson, head of the exchange programs between Fisk and other colleges throughout the country, will begin work on publicity and other details when everything is cleared here. He said that prospects are extremely good for the success of this program, and he hopes that it will

not be discontinued at the end of the Spring term.

Approval Given

Dr. Gallagher and Dean Blaesser have wholeheartedly approved this program and feel confident that the resolution that will be presented to the Board of Higher



Miss Ellen Turkish

Education will be approved without reservation.

It is the hope of Miss Turkish that the Committee of Course and Standing will approve the transfer of grades between Fisk and City because this is the major question that students have pertaining to the exchange. Miss Turkish **URGES ALL STUDENTS WHO ARE INTERESTED IN PARTICIPATING IN THIS EXCHANGE OR SERVING ON THE STUDENT-FACULTY COMMITTEE TO CONTACT HER IN THE STUDENT GOVERNMENT OFFICE ROOM 331 FINLEY.**

Engineers and Artists Develop Dramatic New Stage Effects

Dancers floating through space; sound transformed into white noise; a performance in total darkness yet seen by the audience; a dancer's movements accompanied by his own internal body sounds; performers and objects directed by unseen forces. The artist's new freedom of expression will take such forms as these in ten unprecedented works which will premiere during "Nine Evenings: Theater and Engineering."

"Nine Evenings: Theater and Engineering," a dynamic fusion of music, painting, dance, film, television, and advanced technology, will be presented in New York City from October 13 to 23 at the 69th Regiment Armory, 25th Street and Lexington Avenue. Two or three works will be performed each evening, and each work will be scheduled twice in the series.

Engineers Cooperate

Over 30 engineers from Bell Telephone Laboratories, Inc. have devoted their spare time for nearly nine months to finding solutions to performance problems posed by new concepts of the artists. They have created mechanical and electronic equipment and developed chemical materials which permit totally new means of expression.

Billy Kluver of the Physical Optics and Electronics Research Department at Bell Laboratories supervised and coordinated the work of the engineers. For six

years he has put technology to work for such artists as Jean Tinguely, Jasper Johns, Robert Rauschenberg, John Cage, and Andy Warhol. "These artists could not complete their intentions without the engineer because they incorporate his work in the painting, sculpture, or performance," explains Kluver. The incorporation was no mean feat, says Kluver, "It was the lifting yourself by the hair: if you don't do it at once, it doesn't work." "Nine Evenings" marks the first such effort on a major scale.

Forms of Expression

Audiences during the "Nine Evenings" will experience new forms of artistic expression. They will seldom be aware of the technical means which make them possible. One of the most ambitious projects undertaken in connection with "Nine Evenings," for example, is a new electronic environmental theater system. Called THEME (Theater Environmental Modular Electronic), the system was designed to fill the requirements of specific theatrical situations for all ten artists. It permits simultaneous remote control of multiple sounds, lights, and movements of objects and will be used extensively but will never be visible to the audience.

For artists this first serious encounter between art and technology has opened the door to a new freedom of expression — and the possibility of virtually limitless new media in store for the future. For engineers it has provided a series of stimulating and improbable challenges, rewarding both in themselves and in the fresh approaches they suggest. For industry a lasting alliance between art and technology holds special implications as demonstrated by the commercial potential of scientific discoveries made in connection with "Nine Evenings."

"The artist's work, like that of the scientist, is an investigation which may or may not yield meaningful results," says Billy Kluver. "Often we do not know the results of this investigation for many years. All of the are projects that I have worked on have at least one thing in common: from an engineer's point of view they are ridiculous. That is their value. Perhaps the greatest gift art can make to research is the unique intuition and insight of the artist. The use of the engineer by the artist will stimulate new ways of looking at technology and of dealing with life, and will give the artist fresh license to be poetic. Technology has, I believe, vast untapped possibilities to give pleasure and to make life more enjoyable."

All tickets for "Nine Evenings: Theater and Engineering" are priced at \$3. Ticket information is available by telephoning 689-3315 (area code 212) or by writing "Nine Evenings: Theater and Engineering," 69th Regiment Armory, 25th Street and Lexington Avenue, New York, New York.

Schedule

Works by participating artists will be performed according to the following schedule:

October 13 — Alex Hay, Deborah Hay, Steve Paxton
October 14 — Robert Rauschenberg, David Tudor
October 15 — John Cage, Yvonne Rainer
October 16 — John Cage, Lucinda Childs
October 18 — David Tudor, Robert Whitman
October 19 — Steve Paxton, Robert Whitman
October 21 — Oyvind Fahlstrom, Yvonne Rainer
October 22 — Oyvind Fahlstrom, Alex Hay
October 23 — Lucinda Childs, Deborah Hay, Robert Rauschenberg

JUMBLE

GLEESA

NIMRIF

EMMEB

HAXLEE

Why did the dog's owner put a magazine on his chain?

He wanted a new on .



Solution, Page 6

ENGINEERS

LEL, an east coast division of VARIAN ASSOCIATES, invites you to investigate the opportunities available to you in the metropolitan area.

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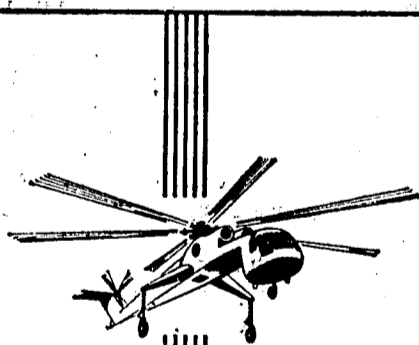
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Illogical Left

There are several great contradictions in the movement known as the Radical Left. At City College various organizations attempt to gain ends that are mutually exclusive of each other.

Some political groups on campus claim to favor the Chinese Communist form of government. They feel Maoist social and political doctrines are better than are United States policies. They claim to be working for a takeover of power by people who believe in these totalitarian principles.

These same campus groups are the most vociferous objectors to the loss of personal freedom. They scream the loudest that their rights are being violated when their grades are compiled. Our question is, how would Mao react to this demand for personal freedom? Does not the desire for a stringent Communist order make demands for personal liberty slightly absurd?

A second inconsistency is the claim of these groups to be political activists. It is our understanding that political activity requires behavior conducive to flexibility and compromise. In this way a base of support can be built from people with varying needs. A political activist does not alienate vast groups of people who are potentially sympathetic to him. Ironically, in their fervor to keep principles and doctrine intact, radicals fail to make their message meaningful for others.

As an example, last week the Progressive Labor Party distributed leaflets criticizing the acceptance of a flag from the CCNY Victory Ship. There was great student backing for this protest. The wording of the leaflet however tied the entire protest into an all-out criticism of the war in Vietnam. This made it distasteful to a great number of students. It in effect hurt the cause.

The left wing's problem is that they can't decide what they want and so demand everything. They want freedom but they want totalitarianism. They want broad support but are unwilling to compromise. As a result they are a loud but limited protest and nothing more.

Architects' Shop

Our fingers are crossed. It appears as if the Architects' Model Shop and Library will be completed before February. After many broken promises and ignored schedules these two vital rooms will be open for use next term.

Perhaps this long delayed and seemingly simple achievement signifies a change in the Architecture Department. Perhaps it has learned how to deal with the City University and City College Administration. Perhaps we can even hope it will in the future be able to get what it needs for survival and growth.

The Party

By DENNIS IRWIN COHEN

Dedicated to Ruth Goldwasser
and Lewis Rosenbaum
Susie Schwarzenberg
and Mike Stein

Tonight or was it last night
I can't remember times vicious
scheme
There was a dimming of a light

The mob choked me
Stifling my thought
I couldn't feel free

In the icy cold crowd
I lost something
Among the throng too loud
For more music I begged madly.
With beat stomping of feet; yet,
Sorrow still cried out sadly

As the burning lamps expire
I search in vain
For desire drowned by mire

Much have I forgotten
In this deep sleep
Where souls turn rotten

Many thoughts remain unsaid
Buried in this dead trivia
Which we are constantly fed

First comes false laughter
But wait a while
Tears they come after

Much have I lost
In this heated crowd
With souls of frost

What price fun?
Stone hearts, icy souls
Eclipsing the sun
Flowing with this stream
How can one dream

As the shadows slowly fall
I hear the somber voices call
Awake from this state
Before the end comes
Death sealing your fate.

Why have you fled
My soul, my spirit, my other half
Leaving me for dead?

Come back to me my soul
With a flaming fire burn
Ringing this Babel's death toll

This Babel with all its mirth
We'll overturn
Ushering in a new world's birth

Our wounds are not in vain
Though we die fighting
Babel's hell will not remain

Why is it that we can't see
Paradise is only for the free

That with every lie
Especially the hidden deep one
Parts of us die

That for a single tear
Shed for lost dreams
The noble of soul care

And love what price?
Men turning into mice?

What price a mate?
Jealousy or even hate?

Though we journey in, night
Jerusalem I see thy light

I walked away
Could I stay?
I hear them talk of many things
Idle prattle, foolish words
While they chatter, the poet sings

They mumble, I gaze at the sky
Remembering souls I felt, things I
understood yet

Losing all this, when I die
Their babbling locks the door
To a depth or meaning
Buried close to existence's core

Now do you understand

Although we are called mad
The poet is not angry
The dreamer is just sad.

GROSS SAYINGS

By JEFF GROSSMAN

HA! Really had you fooled! Don't think I didn't notice all those smug smiles and joyous expressions two weeks ago when everyone noticed that Grossman's (now defunct) "TECH TRIVIA" was missing.

And this week, when you opened TECH NEWS once more, maybe thinking that you had only glossed over it last time, you shouted, "Oh Joy, Oh Ecstasy," when it was nowhere to be found. But I'm the one with the last laugh.

True, my absence from this term's inaugural issue was no great loss. (After all, we filled the space with a ¾ page ad.) But it just took me this long to work out the new column (or maybe you haven't noticed it yet).

At any rate "GROSS SAYINGS" welcomes you back this term, be ye engineers or liberal artists. And to set the record straight, "TECH TRIVIA" is now dead and buried after an illustrious (?) one term run. But have no fear — you will still get the same on-the-spot ace reporting, and witty, yet sentimental human interest stories that you were all so fond of last term.

My own "reading list" (that is, the out-of-town newspapers which I exchange for TECH NEWS) has increased since last term, so you can look forward to an expanded view of going's on around the country.

That's right, better read that last paragraph again — was straight!!

Anyway, this is the start of a new term, (or maybe you haven't noticed that either), and we've all got to get down to some serious work. Or something.

In this vein, then, I have for your edification (?) and to help you, too, "Grossman's Compact Answers and Other Good Things to Know."

Please cut this list out and keep it with your notes as you never know when one day in class you may have to use it to wrap up an old piece of bubble-gum.

HISTORY: 1) The Knights of Old fought for lady's kief, chiefs, flowers, and other favors. 2) The Middle Ages ranged from 40-60. 3) The major European sport of the 18th Century was Casanova. 4) Watch out for this trick question — "What did France give the U.S. for New York harbor?" Don't fall for it!! New York harbor is still ours. 5) Blunderbusses represented the first crude attempt at mechanical travel. 6) The South lost the Civil War because they used Confederate money, not knowing it was worthless. 7) Lincoln was sitting in a theater booth when he was killed. It was John Wilkes Booth. 8) MacAdam was not the first Scotchman. 9) Johnn Appleseed was a man famous for scattering his seed all over the country.

MUSIC: 1) Contrary to popular belief, the Battle of Bataan was not fought between Arthur Fiedler and Leonard Bernstein. 2) Minor keys are for musicians under twenty-one.

LITERATURE: 1) A plagiarist writes plays. 2) Robin Hood and Red Riding Hood are not brother and sister. 3) The moral in "Goldilocks" is not to eat other people's food or go into other people's beds. 4) Hamlet was not a small pig. There is theory that there were many Homers (see Ruth Maris). However, this theory is all Greek to me.

CHEMISTRY: 1) Lavoisier did not invent mouth-wash. 2) There is nothing to keep a liquid from changing to another state. This is evidenced by the course of the Mississippi River. 3) Coke is made by roasting soft coal in a special oven. Pepsi too.

MATH: 1) Always say "integer," not "figure," so as not to get mixed up between math and girls. 2) Axioms and postulates are basically the same. We have both in case you forget the name of one. 3) When something is said to be "mean," we know it is just the average of the way things are today.

GEOLOGY: 1) A small rock is a "pebble," and a large one is "boulder." Undoubtedly because of its size. 2) We have yet to find a living fossil. 3) A shamrock is, of course, a fake. 4) The Colorado River is harnessed by the Hoover Dam. (The is still a family column!)

BIOLOGY: 1) You mount a butterfly the same as a horse, if it is big enough. 2) Barn swallows do not have unusually large mouths. 3) When standing, the tibia is just north of the fibula. 4) We can get pasteurized milk by milking the cows in pastures. 5) We need oxygen to breathe, but it can also cause rust — so watch out!! 6) Each generation lives longer than the preceding one. This is true because we see more grandparents alive today than great-grandparents. Gout is caused by rich food. Therefore, always eat poor food.

(Continued on Page 6)

GS

TECH LIFE

By LENNY SOLOMON

On Wednesday night, September 28, I learned that a Student Government committee was formed for the purpose of stimulating campus-wide dialogue on the draft. I learned of this committee through chance conversations by phone with Jack Koplowitz, President of Technology Council, and Mark Kramer, co-editor-in-chief of TECH NEWS. What surprised me was that they told me that I had been "elected" to place on this conclave. This sort of puzzled me, for up to then I didn't even know this group existed.

As I thought about my new predicament, I became a little irritated, because, first of all, I wasn't asked if I wanted to be on this committee, if indeed I was truly on it, and secondly, because I had heard about the whole situation through indirect means. That is, no one from S.G. called me up to inform me. I, however, kept an open mind about Council and waited for someone from S.G. to contact me.

On that Thursday afternoon, I happened to be in the TECH NEWS office when Shelly Sachs, President of S.G. walked in and told me of this new committee, and that it was meeting that Friday night at 5:00 P.M. I was told that I was selected to this post because they wanted this Student-Faculty committee to have a broad base. Nothing could be more broad than to put one engineer on its staff.

The first thing I thought of was that I had already made plans for that Friday afternoon. I get out Fridays at 1:00 P.M. But then I thought that if I did not attend this meeting, this would just bolster the idea that all engineers are apathetic and non-participants. Besides, I figured that it was an honor for me to be selected by our distinguished Student Council. I also figured that I'd have a very important part to play in this committee. After all, about one out of four students in this school are engineers, and since I was the only engineer in this group of eight, I naturally thought that I would be given two votes. I therefore told Mr. Sachs that I would gladly attend.

Well, one o'clock, Friday rolled around and I began my four hour wait. First I went to the cafeteria, and then to the library to study. But it was such a beautiful afternoon, that I just couldn't keep my mind on systems analysis. I eventually went down south to the TECH NEWS office, and finally to the lawn. There, I thought about what I could have been doing on such a bright afternoon.

Five o'clock rolled around and I ambled into the S.G. office. Larry Yermack, another committeeman was there, but when it was ascertained, at five fifteen, that some of the members had gone home, the meeting was cancelled.

I wasn't mad though. I only wasted one afternoon in my lifetime. And after all, how could one be angered by a comedy. It was just another example of Student Government's brilliant administrative technique.

Just one suggestion, though. Maybe we could rename Student Government "Student Anarchy."

This being my fifth year at City College, I am pretty familiar with the semi-annual rush to the Placement Office by graduating seniors, in search of permanent employment. At the Placement Office, the seniors make appointments for interviews with the various companies that recruit at the college. After these interviews, a frequent comment is that a particular company pays well, but doesn't offer meaningful work.

Well, here it comes friends. Although some might think this job a little too permanent, the National Academy of Sciences in conjunction with the National Aeronautics and Space Administration has invited applications for scientist-astronaut jobs which could provide opportunities to explore space from the vantage point of the moon or manned laboratories in orbit around the earth.

The applicants must be citizens (or persons who will be citizens by March 15, 1967), not taller than 6 feet, born after August 1, 1930, and must have a doctorate in the natural sciences, medicine, or engineering. Exceptions may be made in outstanding cases."

The deadline for applications is January 8, 1967. The address is, Scientist-Astronaut, National Academy of Sciences—National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C.

If you think you will have your doctorate by the time we will be sending people to the moon, why not apply. It should be an interesting trip. I hope, however, that after you

(Continued on Page 6)

After The Theoretician

By SAMUEL SEIFFER

and when all the systems of what should be must account for what is

at once I see an assimilation of used carlots and assembly lines to nowhere

which have cut zero from our ordered pairs, equations set to nothing

preparing soft boiled reality and immutable chemistry lectures

this is the law. you must obey. no answering back

except when it's over. and then it doesn't really matter.

Jobs Overseas

I. A. E. S. T. E.

Applications for Summer jobs in Europe and Asia under the I. A. E. S. T. E. Program are now available in the Office of Curricular Guidance (Adm. 208). Most of the work available is for Engineering students, but students whose major field is in the area of Architecture, Biology, Chemistry or Physics are also eligible.

Each application must be accompanied by a registration fee of \$35.00 in the form of a check or money order. The deadline for filing your application for review is December 15, 1966.

CLUB NOTES

ASTRONOMICAL SOCIETY

Astronomical Society will plan field trips on Thursday, October 18, at 12:00 p.m., in S112.

I. E. E. E.

I.E.E.E. will hold a meeting on Thursday, October 13, at 12:15 p.m. in T123. Professor Brenner will speak on "State Description of Networks."

UKRAINIAN CLUB

The Ukrainian Club will hold an important organizational meeting in 208 Klapper on Thursday, October 6, 1966 at 12:30.

VECTOR

The CCNY engineering magazine invites all students to its meeting at 12:15 in Room 337 Finley on Thursday, October 13.

INTER-VARSITY CHRISTIAN FELLOWSHIP

Inter-Varsity Christian Fellowship invites all to this Thursday's (Oct. 13) meeting in Room 104 Wagner at 12:30 P.M.

STUDENT ZIONIST ORGANIZATION

Student Zionist Organization (SZO), which is part of Hillel is organizing a Kum Sitz (i.e., come and sit) and a dance, etc. on Sat., Oct. 15, 1966 at the house of Phyllis Berke, 2436 Pearsall Ave., Bx. Call KI 7-7010 for instructions on travel.

NOTIFY US

Have you any meeting or events that you would want announced, or happenings that you would like to have publicized? If so, leave a note in the TECH NEWS mail box in F152 stating your name, phone number, organization and event.

Inquiring Technographer

By PHILIP BURTON

QUESTION: Do you think it is justifiable for a faculty member of the College to give out all "A" marks as a protest against the student draft?

WHERE ASKED: Cohen Library, Steinman Hall.

Richard Eilbert, Lower Senior, Physics. No, I do not think it justifiable. Giving all A's to one class is essentially no useful protest since it only serves to lower the class standing of students not in that class. It does, however, successfully negate the meaning of a mark, that is, an indication of the performance of the student. Though it may be regrettable that the rank is used for purposes of the draft, the action of the psychology and English professors was essentially childish as well as fruitless.



EILBERT FRIEDMAN

Michael Friedman, Upper Junior, Biology. It's inequitable for a faculty member to give all A's as long as his colleagues grade normally. Any faculty member who feels he cannot cooperate with the draft should refuse to give grades and give grades of either pass or fail.

Ron McGuire, Upper Soph, Physics. Although the use of class standings as a criterion for draft deferments threatens to subvert the role of the university as an educational institution, indiscriminately giving out A's will only serve to further the disintegration of the university. It sounds fiendish to ask teachers to give out marks that could mean life or death for their students and base these marks solely on academic performance but the alternative is to render a college education totally bereft of meaning.



McGUIRE PAIGE

Danny Paige, Upper Junior, History. No. An action taken to "protest" the war should not merely be considered justifiable but effective and necessary opposition to the war. Students receiving A's in a course has nothing to do with the concrete fact of building a movement. A purely student movement, much less an isolated "protest," will only remain impotent and illusive. Historically the only effective "anti-war" movements have been anti-capitalist movements as well, embodied and led by the working class.

Mr. Edward Garcia, Instructor, Civil Engineering Department. This is a difficult question and I am afraid my answer requires some qualification. First of all, I am not aware that there is such a thing as a "student draft." There is something known as Universal Military Training, which has always considered the male college student somewhat sacrosanct.

The possibility that the lowest percentiles of a college class may

not be deferred in the future is certainly no justification for granting A's to all students, regardless of whether they be passing or failing. I believe this would compound an already unfair draft which, as it is, does not fall on all alike. The college student already has the privilege of being deferred. To ask that failing students be further shielded from the draft merely because they can afford to remain in school is tantamount to permitting them to buy replacements, as in the Civil War days. Furthermore, if one assumes the philosophy that college students are potentially more valuable citizens valid, then granting A's to all students is a contradiction. This would only enhance the chances of the unqualified student avoiding the draft at the expense of the good student, since all would probably be thrown into a common draftable pool and we would not be preserving our supposedly more valuable citizens at all. Therefore, to protest only the drafting of students and not to protest the drafting of non-students would be morally untenable. We forfeit the right to protest the draft altogether if we do so only when it hits home.



GARCIA RHOADES

Rick Rhoads, Upper Freshman, History. Any form of opposition to the U.S. Government's war on the people of Viet Nam is justifiable with the exception of trying to fool the people, which is self-defeating. The people are learning to understand, as more and more of them are, that this war is pursued against their interest by a handful of imperialists (owners of major companies). Faculty members certainly have every right to resist the attempt of the Government and the university administration to make them collaborate in an unjust, immoral war.



OLSEN WARFIELD

Warren Olsen, Lower Junior, Mechanical Engineering. There is a more basic question. Why should the parameter for a draft deferment be any kind of mark at all? Well to that we could easily counter, "What else?" Everyone is pure of heart and noble of purpose to himself, college being for him the opportunity for establishing that very personal matter of identity. But since we all claim such beautiful purpose in an emergency situation, there must be some objective to determine who will benefit most when it is clear that not all can have the chance. Marks must be simply judgments, or else let's change the meaning of the word.

Peter Warfield, Lower Senior, In Doubt. Certainly.

Now Accepting Applications for Marlies, Wilson Awards

An award of \$50 and a certificate is made each Fall to a student of the School of Engineering and Architecture for service to the College and the community. This award was established by the Engineering Alumni in memory of Professor Marlies.

Applicants must make their intentions known by reporting in person to Miss Brown, Room T112, Steinman Hall, on or before October 31st. The winning of this award carries with it an honor far more important than any immediate material benefits.

WOODROW WILSON FELLOWSHIPS

Competition now open for Woodrow Wilson Fellowships for 1967-68.

Nomination Deadline: Oct. 31.

Students you think capable of becoming outstanding future college teachers in the liberal arts and sciences must be nominated by you by Oct. 31.

Send candidate's name, current mailing address, college, and proposed field of graduate study to appropriate Regional Chairman. Upon request, your local Campus Representative of the Woodrow Wilson National Fellowship Foundation will give you the name of your Region's chairman.

GROSS SAYINGS...

(Continued from Page 4)

tune in and take off, you don't drop out. It's a mighty long way to drop.

On Wednesday, October 19, 1966, Eta Kappa Nu, the Electrical Engineering Honor Fraternity will present Mr. H. M. Zydney, of Bell Telephone Laboratories, who will give a lecture on a current topic in electrical engineering. The time is 5:15 P.M., and the place is F424. All those whose hobby is current topics in electrical engineering are invited to attend.

On Friday, October 21, 1966, Eta Kappa Nu will sponsor a Student-Faculty Smoker in F428, at 7:30 P.M. All electrical engineering students are urged to go, and meet with their professors on a social basis.

A.S.M.E. will hold its first organizational meeting on Thursday, October 13, in Harris Auditorium, at 12:15 P.M. All students wishing to become members must attend. Objectives for the coming term will be discussed.

TECH LIFE...

(Continued on Page 4)

8) By the time they are full grown, most wild roses are bushed. So am I.

Well, I hope this list will prove of some help. You can expect to see this feature at regular intervals throughout the term. (And watch for "Grossman Proves Webster Wrong — A Dictionary").

Of course, last year's policy of audience participation is still in effect. Any comments whatever, that you have, will be carefully read and then filed under "G" for: a) "GROSS SAYINGS" b) Garbage. (Pick one.)

And remember, at out-of-town schools you have to pay for campus newspapers — TECH NEWS is free.

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Tom Paxton 'Outward Bound'
Second 'Patrick Sky'
New 'Tom Rush'
Leadbelly 'Collector Reissue'
Ian & Sylvia 'Play One More'
Joe & Eddie 'In Concert'
Blues Project 'Projection'
Richard & Mimi Farina 'Reflection'
'Missa Luba' Mass of Congo
The Byrds 'Fifth Dimension'

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POP

Beatles 'Revolver'
Man of La Mancha
Nina Simone 'Wild Is Wind'
Rolling Stones 'Aftermath'
Swingle Singers 'Rococo'
Yardbirds 'Upside Down'
Supreme 'Au go go'
Best of Letterman
Miracles 'Au go go'
James Brown 'Soul Brother'
The 'Fantasticks'
Original Soundtrack to 'Sallah'
'Fiddler on the Roof'
Sinatra 'Stranger In the Night'
Johnny Mathis 'So Nice'
Nancy Wilson 'Tender Loving Care'
Tony Bennett 'A Time for Love'
Herb Alpert 'Zorba the Greek'
Julie Andrews 'Sound of Music'
Herb Alpert 'Taste of Honey'

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JAZZ

Lambert, Hendricks & Ross
Greatest Hits'
'Time In' Dave Brubeck
Herbie Mann 'Our Man Flute'
John Coltrane 'A Love Supreme'
Ramsey Lewis 'Wade In Water'
Charles Lloyd 'Dream Weaver'
Kenny Burrell 'Guitar Forms'
Ornette Coleman 'In Stockholm'
M J Q 'No Sun In Venice'
Bob Dorough 'Unique New Jazz Singer'
Richard Groove Holmes 'Misty'
Lee Morgan 'Sidewinder'
Chico Hamilton 'El Chico'
Paul Desmond 'Easy Living'
Cannonball Adderly 'Live'
Miles Davis 'Sketches In Spain'
Eric Dolphy 'Last Date'
Bill Evans 'Undercurrent'
Cal Thader 'Greatest Hits'
Lou Rawls 'Live'

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'Working' in France

By PHIL BURTON

For those of you who aren't directly convinced that "New York is a Summer Festival," there are always ways out. Mine was to go to Europe. But unlike most people who go abroad, I did not go entirely as a tourist.

I spent eight weeks working as a student-engineer for the French National Railroads (la Societe Nationale des Chemins de Fer Francais), which the French call a SNCF.

At about this time last year, I learned about IAESTE-International Association for the Exchange of Students For Technical Experience. This organization arranges jobs for science and engineering students abroad. When I gave my application to Dean White of Engineering (Rm. 208 Edm.) who announced this program at City College, I listed my courses, my interests, and my knowledge, such as it was, of French. I also made the unusual move of calling up the national director of IAESTE to tell him that I was interested in railroads as a hobby. Nothing happened until April, when I received a letter informing me that I was going to need a passport.

My job with the SNCF was as a "stagiaire," which is a French term for a student who is out in the field doing "practical work." In my case, they expected me only to observe the operations of the shop, located in the suburbs of Paris, that repaired and maintained electric locomotives of the SNCF lines. Thus, I did very little work in the commonly accepted definition of the word. Most of my time was spent in observation. Several times I operated ultrasonic testing machines used for finding hidden flaws and cracks in metal. The SNCF uses them for testing steel wheels and axles. I had seen ultrasonic testing techniques demonstrated in CE 4 lab, but never before had I actually used them. The "cheminots," the French word for railroaders, thought that for me to work was entirely unnecessary. Although I could have easily become bored with such a non-job which made me only an onlooker, I remained interested because they shifted me about from one part of the shop to another doing my "stage."

Also, as a railroad buff, I got the opportunity of observing many different types of locos in an unusual way. I was on top of them, under them, and inside them. I saw them stripped down to bare hulks as they are when they were in the shop for a general overhaul. All this had been planned for me by the main office of the SNCF.

I also did one thing that was not planned by the SNCF. Toward the end of my job I was taken inside the cab of a high-speed passenger loco that was being tested on the line between Paris and Orleans prior to being put into service. I asked the foreman if I could be allowed to run the little thing myself. So I ran a 100 HP machine at speeds of up to 120 kilometers an hour — 75 mph. Quite a thrill!

But the biggest thrill came to me just from being in Paris, living in it for eight weeks and being among the French. At the SNCF shop at Vitry-sur-Seine, no one at all spoke English. So I had to learn French. Although I had studied French for several years, I wasn't really prepared to speak it colloquially. At the shop I got plenty of practice in colloquial French.

The French were very interested in the United States. Since I did little work, I had most of the day, as well as the lunch hour, to talk with them. They were very curious about the civil rights questions and problems, which received very much press coverage in France. Naturally, they wanted to ask someone from New York about how Harlem "really is." I told them as best as I could what racial prejudice is. The French know absolutely no racial prejudice whatever; one can see many mixed couples in the Latin Quarter. They were also very curious about the Viet Nam war, and since most of the workers were members of the French Communist Party, they were opposed to it. I told them about the anti-war demonstrations here at City College.

But the cheminots also taught me many things. After all, there is no better place in the world to learn about wine than in France. They also taught me an awful lot of "argot," the street slang. Although I can speak rather fluently now, I don't always know whether I am speaking good French or argot.

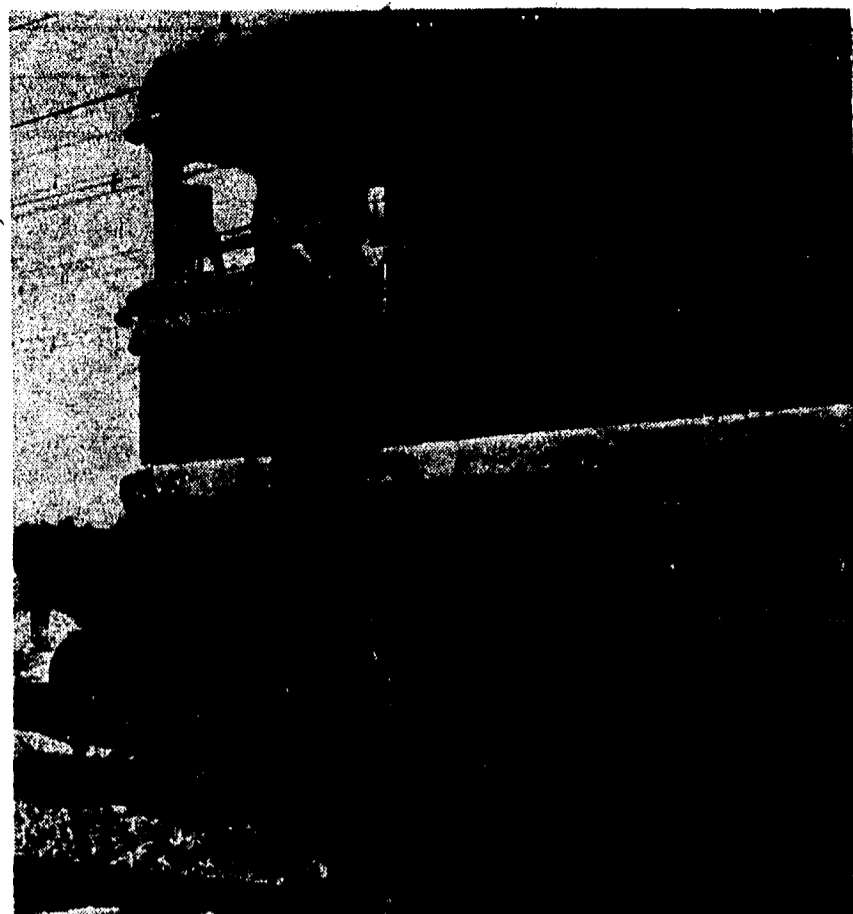
Most of the French are great sports fans. When I first started working, the "Tour de France"—the most difficult bicycle race in the world — was being contested. These men were fascinated because I used to come to work every day on my 10-speed racing bike. Some of them even wanted me to train for that race so that I would be the first American in it for several years. As soon as

the bike racing fervor calmed down, the soccer World Cup madness began. To me, it seemed that our "October Madness" — the World Series — goes unnoticed compared to the interest they displayed in the cup.

In the railroad canteen I had some of the best food that I have ever eaten. I soon learned that one of the culinary delights of the French table is cheese: plain, with the excellent French bread, or with sugar or both. Although I didn't learn that much about their railroad shop, I learned a lot about France from the cheminots.

My touring activities in Paris were a bit unusual since I could speak French and also had a bike with me. Many people told me that Parisian traffic is terrible, but for me it was nothing since I had my baptism by fire in cycling from Queens to school during the subway strike. Also, on a racer, I could out-accelerate the underpowered French cars.

I didn't see everything there is to see, but I tried. One evening I went to a "jazz cellar." When they say cellar, they mean it. The room and an adjacent bar were two stories below ground level, tunneled into by a small, corkscrew staircase. Of course, there was no ventilation, and the smoke hung heavily in the air. The musicians played a sort of jazz that I have never heard before. It seemed to have no direction to it, but it was agreeable. I also remember the night that I sat on the bank of the Seine River, opposite the Cathedral of Notre



Tech News Photo Editor Phil Burton in France this Summer.

Dame, just looking at it for an hour as I talked to some one. Around me were tourists, bums, young people who habitually sleep on the sidewalk by the river, couples necking, and other types. But the ancient Notre Dame held my attention. I looked at it, just trying to estimate the human effort needed to put up such a grand structure at a time before cement, power machinery, and modern engineering instruments had been invented. The back of Notre Dame, with its flying buttresses, looks much more impressive than the front

of it, which is what most tourists see.

But speaking of churches, Paris also has the very famous Sacre-Coeur, located high on a hill in Montmartre. Anyone interested in architecture will find that going to church is one of the best ways to see various styles. In Bordeaux and Caen (France) I saw pre-Gothic edifices; in London and Cologne I saw Gothic cathedrals, while in Berlin I saw an ultra-modern church in the Western sector, and the bombed out hulk of another in the Eastern zone. More about Europe next issue.

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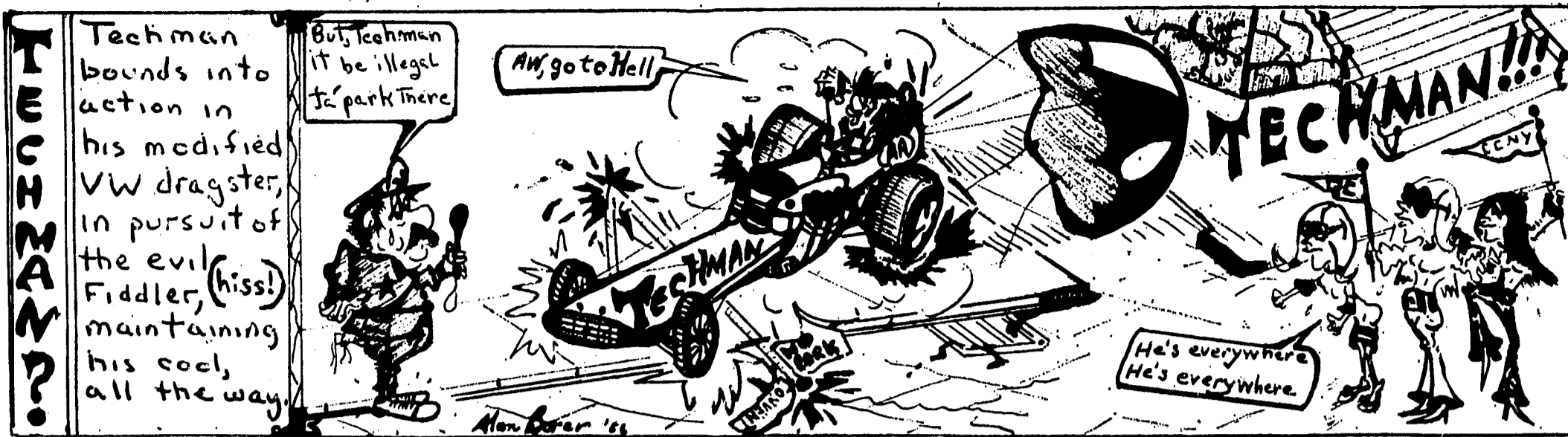
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CAMPUS INTERVIEWS NOVEMBER 7, 1966



Graduate Business

On Monday, October 31, 1966, Dean Harold Metcalf of the Graduate School of Business of the University of Chicago will visit the campus. He will discuss admissions requirements for graduate study in business.

Dean Metcalf will be available in room 121 Finley from 2-5 p.m. Appointments may be arranged in Dean Sherburne F. Barber's office, room 206 Administration Building.

S.G. . . .

(Continued from Page 1)

Student Council declares its disapproval of the means of bringing the current problem to the students, and the means which President Gallagher has chosen to bring decisions to the students in the past. Further, this Student Council announces its intention of researching and deciding all present and future questions on its own.

MANDATE: 1) A student committee shall be formed to consider the future of the University. This committee shall attempt to define objectives and to suggest means for implementing these objectives.

2) A committee shall be established to thoroughly investigate and research all the problems involved in the current temporary facilities controversy and to report to Council at the next meeting.

3) The Executive Committee shall, in the future, make known to the "powers that be" that no decision shall be made in the name of the student body unless students have been consulted prior to the decision.

4) Copies of this resolution shall be sent to President Gallagher and his Cabinet, Chancellor Bowker and the Administrative Council, and Chairman Chandler and the Board of Higher Education.

ADDENDUM: Student Council strongly disapproves of the use of the South Campus Lawn for any academic purpose, and urges its retention for recreational use.

Slide Rule . . .

(Continued from Page 1)

This was prompted by an editorial in TECH NEWS stressing the need for such a league among tech organizations. Last term's league consisted of eight teams, and it is expected that interest will be much greater now that several new sports have been included.

The League will begin activities on October 20 with schedules appearing in the campus publication "Beaver Tales."

Jack Koplowitz, president of Tech Council, added that this term playoff matches will be held, and awards given to the winners.

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