



THE NEW S

CITY COLLEGE OF NEW YORK

OL. XXII, NO. 4

WEDNESDAY, NOVEMBER 3, 1965

STUDENT FEES

Navy Offers to Train Students and Grads

By FRAN CURNOS

Only a minority of the men at City College are enrolled in the College's ROTC program. With the threat of an increased draft, many of our graduates will have to seriously consider how they will fulfill their military obligations.

Dr. Harry Meisel of the Department of Student Life has suggested a number of programs currently being offered to college students by the Navy. The Navy's officer-training programs which may be more readily available to college graduates who are not participating in ROTC.

One available program is the eight program for the training of officers. The qualification is two years of college and a C average. Programs requiring a college degree are the Officer Candidate School, Reserve Officer Candidate program and the Aviation Officer Candidate programs.

There is one program that is of special interest to students of the School of Engineering and Architecture and this training in the Civil Engineering Corps. It is available to graduates in all fields of engineering and architecture offered at City College. The most common assignment is that of Public Works Officer at one of the Navy's establishments, where the officer is responsible for supervising the maintenance, repair

and improvement of all buildings, structures, and systems at the location. He works with designers, surveyors, inspectors, clerks and skilled and unskilled labor. District Public Works Officers are responsible for the construction of new facilities. The CBC can become a career, with many retirement and family security benefits.

As an officer, three years of service are required rather than the two years required of enlisted men. But, as Dr. Meisel points out, the engineer can, as an officer, earn more money, get better accommodations, and most important, train in his own field.

An application for one of these programs can be obtained from Dr. Meisel in room 119 Finley. The interested student should apply three to four months before graduation, to allow for processing time and evaluation of the applicant. The application is not in any way binding. The final decision may be made at graduation.

Interested men may also speak directly to Navy Representatives who will be on campus for two days in December.

NOTICE TO ALL STUDENTS OF ENGINEERING AND ARCHITECTURE

Many of you are eligible for the award listed below. Your applications will be welcomed by the Committee on Awards.

Applicants must make their intentions known by reporting in person to Mrs. Herring, room 201, Goethals Hall on or before November 5th. The winning of this award carries with it an honor far more important than any immediate material benefits.

The Charles A. Marlies Award

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

High Schools Send Visitors

By LEONARD SOLOMON

Saturday morning usually finds the Great Hall quiet and deserted, but on November 20, 1965, the Shepard Hall auditorium will resound with the questions of youthful voices. They will be attending the annual conference of the Technical Society Council of New York.

One of the purposes of the Council is to interest high school students in the study of technical subjects. On Nov. 20, interested high school students from both public and parochial schools will start the day at a general assembly, from nine to ten A.M., in the Great Hall. Here, many Deans plus President Gallagher will speak to the young audience on the advantages of a technical career. There will also probably be some speakers from outside industry to address the group.

From ten to twelve noon, there will be two sets of panel discussions. There will be panels on math, physics, chemistry, biology, as well as mechanical, civil, chemical, and electrical engineering. The panels will consist of one faculty member, and one member from outside industry. Here, questions and answers will be given about the various technical fields.

From twelve to three P.M., there will be tours of the different laboratories at the College. Tech Council, under the committee leadership of Jesse Walden, has been asked to provide guides for this phase of the conference. Here the students might see actual experiments in operation.

Since the program is directed toward high school seniors, there will be a special assembly for high school freshmen from ten to eleven A.M. in Harris auditorium. From there the freshmen can go to one of the panel discussions or wait around to see the labs. If any City College students are interested in seeing the different laboratories, they are also welcome to attend.

Architects Battle Admin. Policies

By MARK KRAMER

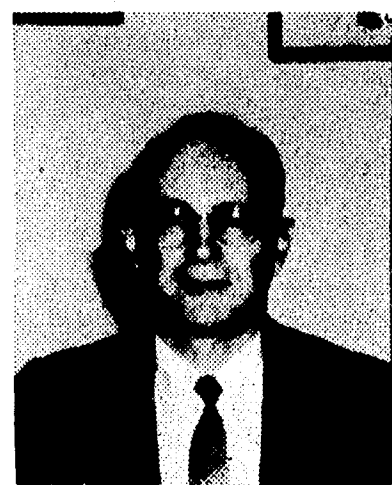
For a turbulent hour and a half last Thursday, William Allen, Dean of the School of Engineering and Architecture, confronted over one hundred and fifty architecture students.

This open meeting was the culmination of gripes the architects have been submitting over two years. Among the major demands were the construction of a model shop, immediate reorganization of the hiring committee for the department of architecture and graphics.

Matt Cardillo, President of the Student Chapter of the American Institute sent a letter to the administration on October 4. The meeting was called to allow Dean Allen to reply to the questions asked in the letter and open the meeting to further questions.

At the opening of the meeting, Dean Allen spoke for sixty-five minutes, in an attempt to answer the six points raised in the letter. He had concrete answers to the request for a model shop, one of the most basic needs of the architects, stating that one would be ready for the fall term, and a promise to look into changing the name of the department from Department of Architecture and Graphics of the School of Engineering and Architecture to the School of Architecture.

The next thirty-five minutes were devoted to questions from the floor, directed to Dean Allen. They concerned, for the most part, why action has not been forthcoming on the demands as promised by the Administration. These points, according to Cardillo, were not adequately answered by Dean Allen: 1) a request for a centrally located architecture library — (presently technical books are in the engineering library in Steinman, and art and design books are in



Dean William A. Allen

Cohen) with browsing privileges for the students. 2) immediate revision of the hiring committee, which is presently made up of Professor Rappolt, chairman, Professor Cefola, Associate Professor Majer, and Associate Professor Bischoff. This committee is chaired by Rappolt, an engineer. As a result, the SCAIA contends, there has been a very poor quality of architectural design instructors. 3) installation of a five-year design curriculum. As pointed out by students, Pratt Institute has a design sequence of five years and Columbia four, (their entire time in the school of Architecture). 4) questioning why accreditation has not yet come through for the department. The curriculum has been approved. The Board of Certification in Albany has yet to approve the request. Students feel that the administration of City College has not been using its full weight to

(Continued on Page 2)

Vector Review

By JON SPINNER

This year's Vector is off to a fresh start under the auspices of the Newman organization—Steve (Neuman) and Al (Newman)—the new co-editor-in-chief — and the forthcoming first issue indicates the high quality these two gentlemen are aiming for.

Still at the original 25c price the Vector offers an excellent compilation of articles and features. articles; two show the American preoccupation with the auto: "The Internal Combustion and Gas Turbine Engines" by Abraham M. Frydman, and "Computer Simulation of Traffic" by Michael Brownstein. The latter is a well-written article that discusses the feasibility of having traffic analyzed by computer because of high speed ability to solve arithmetic and logical operations. Thus physical layout and control systems can be predicted before actual changes are made. The article has well drawn charts on both traffic efficiency under the computer and the computer

set-up in schematic diagram.

The former points out the superiority of the gas turbine engine over the internal combustion engine. It analyzes both engine performance with detailed component breakdown of the engines and charts on engine efficiency. The article shows the historical significance and progression of man's attempts to make travel and methods of locomotion more efficient, and forecasts the eventual changeover from the internal combustion engine to the gas turbine.

The last feature article is "Tunnel Diode" by Solomon Rosenberg, Managing Editor of Vector. The author introduces to Vector readers the tunnel diode, a very small and very efficient diode of Japanese discovery. The diode, because of negative resistance is highly efficient. The author shows how crystal structures of different types of semi-conductors, plus the high impurity den-

(Continued on Page 5)

Democracy and The CCNY Student

By DENA SEIDEN

There is, of course, an excellent chance that the school will never change — B.A.'s and B.S.'s will continue to spit at each other from opposite sides of the bagel stand, and 50% of the student body will disappear into the smoky caverns of the IND in the ageless, hallowed path of the lemming at the sound of the last bell that releases them from class for the day. The official voice of the college shall continue to inform us, in learned, fatherly tones, that students, while physically good kids, are rather an inferior lot, and must be led, in simplified detail, so that it doesn't tax their tender psyches, exactly what is best for them. The City College student will continue to be told that he must prove his right to a democratic structure, an accomplishment too complex for a mere four years, so therefore something never to be achieved while he (or she) retains his (or her) student status.

There is that excellent chance because tradition is hard to break and because there is a large degree of enjoyment to be found in the world open to children. Faced with a paternalistic university system, students have responded by becoming fairly obedient little sons and daughters — oh, an occasional panty raid in a dormitory college, or a few angry demonstrations in a subway school, but in the main, placid acceptance. For, the theory runs, they (teachers, administrators, assorted bureaucrats) seem to know that they are doing, and seem to understand the labyrinthian committees and hierarchies, and therefore it stands to reason that they possess the intuitive gifts necessary to run a college.

Jacksonian democracy and its complement, the spoils system, might not have been too far off. The rationale of the spoils system held that any reasonable, literate man could hold any job — he would learn while on the job, pro-

(continued on Page 8)

Engineering Dropouts: Why So Many?

By ED SMITH

The lower engineering freshman is an optimist. He comes to the City College with his unique genius and vast reserve of knowledge in high school chemistry, physics, and mathematics. He most justifiably expects the engineering curriculum to fall victim to his mighty mental resources. He vaguely remembers some absurd figure, quoted to him by some fool, concerning the high dropout rate among engineers, but this doesn't disturb him. The next guy is the jerk, the one who will give up. Our freshman will stick it out, even if it's a little tough.

His illusion is short-lived. He meets bloody disasters in M7, P7, and C3. By some unimaginable twist of fate his budding intellectual capacity has failed to blossom. His sure A is a C, and his B is a D. He still is an engineer, but the guy next to him isn't, nor are the those in front, back, or to his other side. He wonders whether to prolong his agony or follow the path of his former associates to the School of Liberal Arts.

It was just this situation which prompted me to start wondering about the actual figures on dropouts, about the successful engineer, who he is, and a host of other questions. I therefore went to Dean William Allen and posed some of them to him.

I first asked the Dean what the dropout rate in engineering was. He replied quite frankly that he didn't know and went on to explain why. He provided me with the following tables and told me to consider: In Fall, 1964 there were 617 lower freshmen. The next term, Spring 1965 there were 558 upper frosh, an apparent decrease of 59 students. "But," he said, "where did they go?" He pointed out that some were probably still lower freshman, some had left for the evening division, some had transferred to other departments, and some had left school entirely. The numbers in each of these classes were unknown to him, and without a computer survey he would not be able to give such figures. Another deceiving point about the tables are the great numbers of upper seniors they list. This, he told me, was due to the fact that many engineers remain in the upper senior classification for three terms because after reaching the 111 credits required for upper senior term they require 34 more for graduation at 145.

Understanding that the Dean could not be expected to cite figures he did not possess, I started a new line of questioning. Is it only the "genius" who succeeds in engineering? Dean Allen told me that every engineer and every student can succeed at his own level. A student who finds he can not carry 18 credits should carry 16, or 14, or 12 and not overburden himself. If he exploits his strengths, and bears this in mind when he chooses his field, he should have no difficulty.

The Dean feels that the admission standards to the school are high enough. He pointed out that only in recent years have they risen considerably. In 1951 a 77 per cent was needed for admission whereas a high of 85 per cent was reached in 1964. Accordingly, the lowering of last year to 83 per cent should have no great affect on the student body

or their accomplishments.

Engineering and Architecture

Day Session Enrollment

	Fall '64	Spr. '65	Fall '65
U. Sr.	483	484	420
L. Sr.	257	230	223
U. Jr.	210	272	181
L. Jr.	369	203	369
Sub. Tot.	1319	1189	1193
U. So.	129	280	78
L. So.	345	94	412
U. Fr.	79	558	100
L. Fr.	617	22	601
Sub. Tot.	1170	945	1191
Tot.	2489	2134	2384

Gripes . . .

(Continued from Page 1)

hurry the process and in not doing so is doing irreparable harm to the young department's regulation. Accreditation is not retroactive, and if it does not materialize before June, another class will graduate without it. These students will have to wait four years before they may take the licensing examination, instead of the standard three years. Lack of school accreditation also hinders graduates' chances in competition for better jobs.

In answer to the demand for a model shop where students could build required models for projects, Dean Allen said one was being elaborately equipped in Goethals Hall, and a fellow was

being hired to man it.

He further stated that the name of the department might be changed because he concurred with the students' view that graphics was a service division for the technology school.

An unexpected outcome of the meeting was the creation of a Communications Committee made up of four professors and four architectural students. It was decided it should meet regularly. The Executive Committee of the SCAIA is now setting up the body.

Retraction

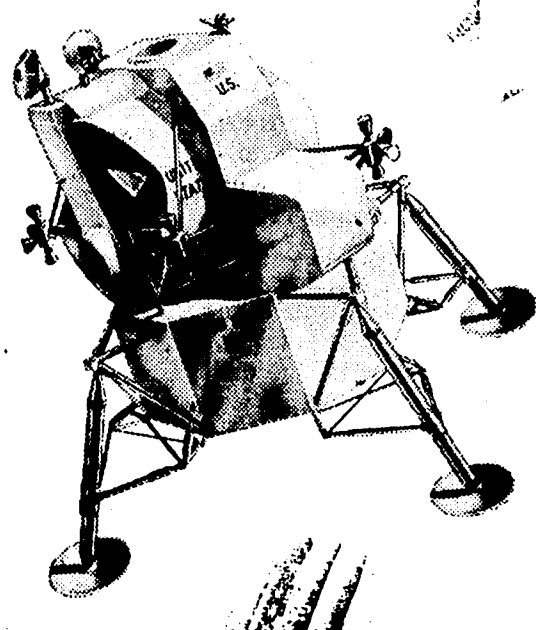
TECH NEWS regrets its error in stating that CUNY Printers may be going out of business next term. CUNY Printers may not be going out of business next term.

Summer Jo

Applications for the job training program, for the summer of 1966, sponsored by the International Association for the change of Students for the Technical Experience (I.A.S.T.E.), now available for distribution.

The I.A.S.T.E. program, which is open to all junior and senior tech students, obtains summer jobs in Europe and Japan. American Students, while proving jobs for foreign students the States.

Last year 50% of the City College students who applied were accepted. All those interested should apply to Dean White, room 208 of the Administration Building. The deadline for file applications is December 15, 1965.



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The Aerospace Group of General Precision, Inc., makes sure that your first assignment drops you right into the middle of one of our many space engineering projects, such as precision guidance and navigation equipment for Apollo, Gemini, OSS, LEM, Mariner, TFX, Titan III, and others too numerous to mention. We've found that it's the best way to keep your interest high. If you find you're over your head technically, there are lots of seasoned pros to help you out (they came up the same way you will).

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CAMPUS INTERVIEWS TUESDAY - NOVEMBER 2

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Or write to Mr. R. Jackowitz, College Relations Coordinator, General Precision Aerospace, 1150 McBride Avenue, Little Falls, N. J.

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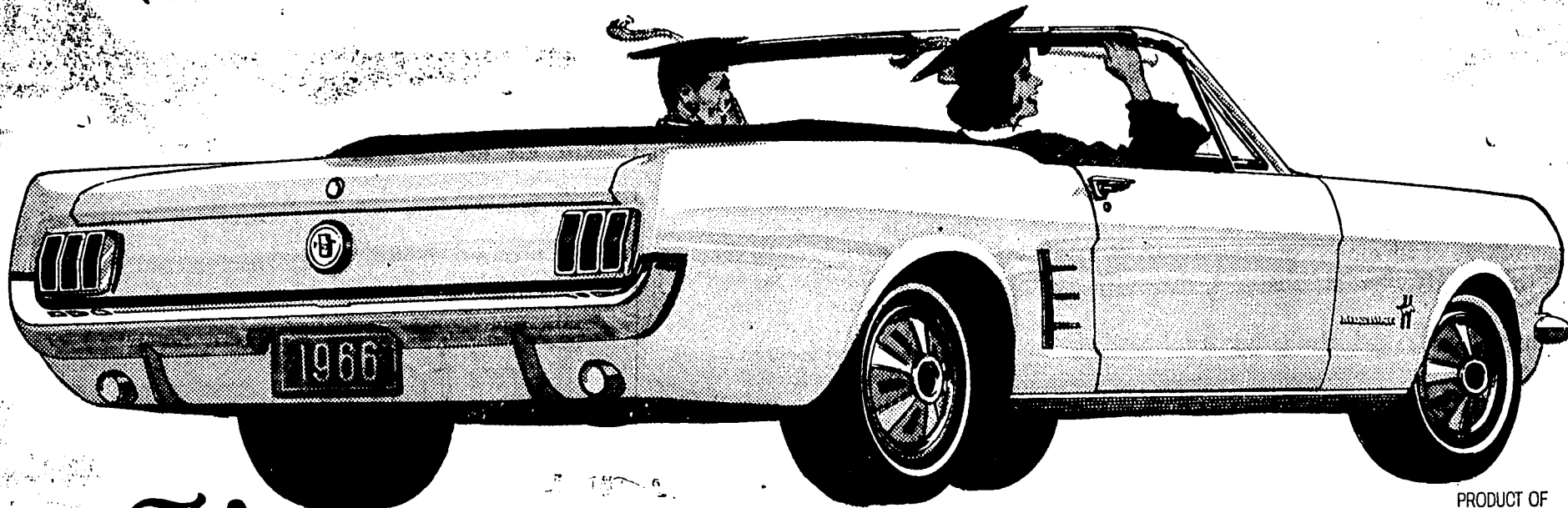
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Nothing to buy, just mail the entry coupon before November 15, 1965.

1. Only college seniors and graduate students will be eligible to enter the Mustang College Sweepstakes.
2. Coupon must be received by no later than November 15, 1965, to be eligible to win the use of a Mustang.
3. Each winner will be required to produce evidence that he or she is a college senior or graduate student before any prize is awarded. Decision of judges is final.
4. A winner of the use of a '66 Mustang must be a licensed driver. Loan-outs are for two weeks only. Winners are responsible for returning the loan-out Mustang to the depot from which it was delivered.
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A Forward Step

The expansion of the Student Advisory Board of Student Government, undertaken by Board Chairman Jack Waldman and Secretary Dena Seiden, is laudable within certain limits.

The charges, that Student Government is ineffectual in reaching out to students and that S.G. is not responsive to the desires of the student body, are in measure true. Therefore, there is a need for a body to verbalize and crystallize the problems of the student body so that they may be effectively acted upon.

The expansion of the committee will provide a greater chance for meaningful dialogue to take place. However, a fault of the group is that it does not include representatives of the non-aligned and non-organizational students. This must be overcome, for without a full representation of the student body the advisory board will not be able to fulfill its goal.

This aside, what has been done is a step in the right direction. However, it is imperative that to be effective this advisory board remain an arm and committee of S.G. An attempt at usurpation of power from S.G. by formation of an independent group would be disastrous to both S.G. and the new group. S.G. is the best possible channel for the effective implementation of policy, and is the most democratic form of representative government possible on campus. This does not mean that this is what S.G. is now, but rather what its potential is.

Carl Weitzman has asked the advisory board for an "identification of the problems" existing at City College. He has voiced his willingness to respond to the demands of the board. No more can be expected. Those dissatisfied with S.G. are being given the chance to change it. If they fail, they will have no one to blame.

Architect's Needs

The CCNY Student Chapter of the American Institute of Architects (SCAIA) is a highly organized group whose present purpose is to gain better conditions in the Department of Architecture and Graphics. Their claims are valid. A browsing library is essential as we cannot expect prospective architects who are combinations of sociologists, engineers and artists to gain their information piecemeal. By establishing a browsing library in Goethals Hall there would be no separation of the history of art and architecture from the engineering and aesthetic aspects of architecture.

What they need most is accreditation by the New York State Board of Regents Accrediting Committee, but at present there is no word on this. They might need their status changed from the Department of Architecture and Graphics to the School of Architecture, their design curriculum extended from the present three years, and a say in the hiring practices of design instructors; but none of these grievances alone, nor all together can serve as an excuse for the verbal attacks made upon Dean William Allen, of the School of Engineering and Architecture, Professor Frank Rappolt, Chairman of the Department of Architecture and Graphics, as well as other members of the Department at the October 21 meeting of the SCAIA, presided over by Matthew A. Cardillo.

Granted that these grievances exist, there must certainly be a better way to discuss and absolve them. Perhaps the answer lies in the newly proposed Student-Faculty Architectural Communicative Committee. It is hoped that this committee will serve as a valuable link between the Administration in general and the student body. It is also hoped that in the future the SCAIA will not have to resort to such drastic means, and that the faculty will take it upon themselves to provide for the needs of the students.

Inquiring Technographer

QUESTION: In view of the overall military situation, do you think women should have the same obligation to serve in the Armed Forces that men have?

Where asked: On campus.

Paul Rovitti, Electrical Engineering, 507. Definitely not. I don't feel that women are qualified to serve in the army. Drafting them would not serve any purpose at all. They would be a burden to the Army, if anything at all.



Rovitti

Steve Peters, Mechanical Engineering, 508. No. Most of the girls are too soft to be drafted. I suppose if the supply of males was exhausted something would have to be done, but I don't think it will come to this. I guess I am old fashioned. I would go before my girlfriend.

Gloria Katz, Biology, 303. No, I don't feel that the situation at present calls for drafting women into the armed forces for fighting purposes. There are enough available men in our country for that purpose. If there is a necessity for people to work behind the lines I feel that women should be held as responsible for service to their country.



Katz

Lynn Baskin, Math, 303. No, as long as there are men available to fill the draft quota. Men are physically stronger than women and therefore better suited to serve in the armed forces. The woman's role in the United States has advanced from housewife to the career woman, but it has not yet reached the woman private or woman sergeant stage. In Israel, women have the same draft obligations as men because they do not have enough men to defend their country. We do have enough men to defend our country now and therefore, men only should have the draft obligation.



Babyatt

Ira Babyatt, Civil Engineering, 506. Of course not! A woman's job is in the home and should remain basically so. However, she should have some diversified outside interests but not as extreme as entering the armed forces. It is

bad enough that married men are being drafted, but to draft women would eliminate all available sources of a man's social life, which is a part of his adulthood.

Stuart Shydl, Electrical Engineering, 507. As far as the draft is concerned, I think of women as 50% of the population with a physical exemption. Besides the male troops would have trouble concentrating on the fighting. If any additional people are needed for the draft, why not draft the men who "fail" the Army Intelligence Test. (15% of white men and 56% of non-white men are not admitted for this reason.) How smart do you have to be to listen to a sergeant dictate your every move?

Mike Berman, Electrical Engineering, 507. No!!! The thing we are fighting for is so they won't have to. I like to think of girls as soft and feminine—and a girl in combat boots sort of spoils the image.



Berman

Rachel Ostrowitz, Architectre, 109. There is a common notion among people that the girl's place is in the home. I strongly disagree. Girls are capable of being doctors, engineers, and architects, not just teachers and nurses. People should be looked at for their ability, not for the group that they belong to. Girls should be drafted because they can be of as much help as boys. Girls in this country are spoiled by luxury and comfort. The draft can certainly help change that.

Letters

To Editor, Tech News:

There was a time when books were burnt so that people would not be exposed to the harsh realities of life. Now, we have:

At 16, boys find out how easy it is to get booze at the local pub. Ingredients: A long beard with equally long hair and a false draft card. At 22, boys find out how easy it is to avoid the draft. Ingredients: A match or lighter and a real draft card — and poof! How easy to avoid reality — watch it go up in a cloud of smoke. ("Don't worry about the air pollution, we'll demonstrate against that." But gosh, like man — our schedule is full already. It's like work man! Ooooh that word — cool it man!)

Today we have instant coffee, food, etc. Now it's Instant Cowardice — takes less than 10 seconds to prepare yourself. Burn the draft card or FALSELY sign a "Conscientious Objectors Form."

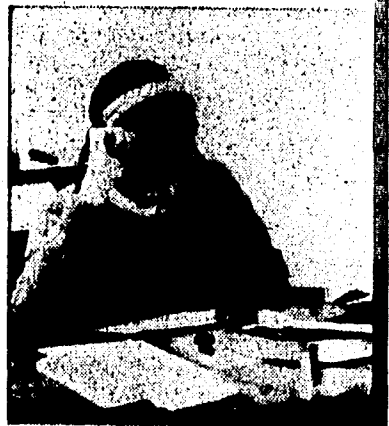
The signs read: "We mourn the death of American Servicemen." How true — they fought and died so that K's words of "we'll bury you" would not be extended from Asia to North America. But — then let's oppose war. Abroad that is. No sense in helping others preserve their freedom — why fight for principles abroad when you can fight at home against these principles. Only here, it's called juvenile delinquency and just as certain). Even at South Campus — collections are being made to "aid" the Viet Cong. How many more American Servicemen do they want to mourn? Typical commun-

(Continued on Page 5)

Music To Study By

The juke box in the snack bar and CCNY's radio station broadcast in Lewisohn Lounge are the only sources of music at City College. When you're fed up with slide rules, equations and vector analyses, sooth yourself with strains of music that are at hand in Finley 232. The Music Library that is there has a collection of 4,300 LP records, 1,000 78-rpm discs and about 1,500 books dealing with every aspect of music.

You can select your own recording from three main types of music. Classical records are predominant and afford one an opportunity that he might not have otherwise. Cannonball Adderley and Dave Brubeck are some of the jazz artists represented, as are authentic folk songs from America.



Student Mixing Math and Music

ica, Arabia, Israel, Russia and England are among the delights that await you.

The literature in the library includes books on the history and appreciation of music and scores that the musically inclined can borrow and read. The current copies of Cue magazine and the monthly schedule of programs heard on WBAI are available. Periodicals concerned with every aspect of music are on file also. One visit to the restful library more convincing than anything can write. Come up and see.

Cues

Club Notes

Thursday, November 4, 12:30 at Hillel House, 475 W. 140th St. Hillel presents "The Uniqueness of the American Jew." The speaker will be Mr. David Flaks, writer and co-editor of "Israel Horizons." All are welcome.

General Membership Meeting of the Executive Development Club, Thurs., Nov. 4 at F424 12:00. All Freshmen Orientation Discussion Leaders should attend.

Society of Automotive Engineers — Elections and meeting will be held for SAE in Shepard 125 at 12:30, Thurs., Nov. 4.

Astronomical Society meeting Thurs. at 12:15 P.M. in Room 125 Shepard Hall.

The International Student Club will hold a dance this Friday, Nov. 5 at 8 P.M. in F 424. Everyone invited.

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OPERATION ♀ MATCH

Vector...

(Continued from Page 1)

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negative resistance of the diode.
The diode can be a source for
microwave power, and as a high
speed switch. The article pre-
sents a review of the properties
of the diode, principle of opera-
tion, and the implications of the
tunnel diode. The article is thor-
oughly illustrated with numerous
charts and diagrams.



On Campus with Max Shulman

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

TWELVE IS A MANY-SPLENDORED THING

Today I begin my twelfth year of writing this column in
your campus newspaper.

These dozen years have passed like a dozen minutes. In
fact, I would not believe so much time has gone by except
that I have my wife nearby as a handy reference. When I
started this column, she was a mere slip of a girl—supple as
a willow bough and fair as the morn. Today she is gnarled,
lumpy, and given to biting the postman. Still, I count my-
self lucky. Most of my friends who were married at the same
time have wives who chase cars all day. I myself have never
had this trouble, and I attribute my good fortune to the
fact that I have never struck my wife with my hand. I have
always used a folded newspaper, even during the prolonged
newspaper strike of 1961 in New York. During this journal-
less period I had the airmail edition of the *Manchester Guardian*
flown in daily from England. I must admit, however,
that it was not entirely satisfactory. The airmail edition of
the *Guardian* is printed on paper so light and flimsy that it
makes very little impression when one smacks one's wife.
Mine, in fact, thought it was some kind of game and tore
several pairs of my trousers.

But I digress. For twelve years, I say, I have been writ-
ing this column. That is a fact, and here is another: I have
every morning with Personna Stainless Steel Blades. I bring
up Personna Stainless Steel Blades because this column is
sponsored by the makers of Personna and they are inclined
to brood if I omit to mention their products.



"... only fleeting
enthusiasm among
the coaches."

Not, let me hasten to state, that it is any chore for me to
sing the praises of Personna—as you will agree once you try
this sharpest, smoothest-shaving, longest-lasting blade ever
devised by the makers of Personna Blades—now available
both in Double Edge and Injector style. Personna, always
the most rewarding of blades, today offers even an extra re-
ward—a chance to grab yourself a fistful of \$100 bills from
a \$100,000 bowl! The Personna Stainless Steel Sweepstakes
is off and running, and you're all eligible to enter. Visit your
friendly Personna dealer soon to pick up an entry blank
(void where prohibited by law).

And, by the way, while you're at your friendly Personna
dealers, why don't you ask for a can of Burma Shave? It
comes in Regular or Menthol; it soaks rings around any
other lather, and it's made by the makers of Personna.

But I digress. For twelve years, I say, this column has
been discussing, forthrightly and fearlessly, such burning
campus questions as "Should students be allowed to attend
first-hour classes in pajamas?" and "Should deans be re-
tired at age 25?" and "Should foreign exchange students be
held for ransom?"

Today, continuing the tradition, we take up the thorniest
academic problem of all: the high cost of tuition. Let me
tell you how one student, Lintel Sigafos by name, solved
this problem.

Lintel, while still a boy in Straitened Circumstances,
Idaho, had his heart set on college, but, alas, he couldn't
afford the tuition. He applied for a Regents Scholarship
but, alas, his reading speed was not very rapid—only two
words an hour—and before he finished even the first page
of his exam, the Regents had closed their briefcases crossly
and gone home. Lintel then applied for an athletic scholar-
ship, but he had, alas, only a single athletic skill—balancing
an ice cream cone on his chin—and this, alas, aroused only
fleeting enthusiasm among the coaches.

And then he found the answer: he would get a student
loan! Of course, he would have to pay it back after gradua-
tion, but clever Lintel solved that, too: he kept changing
his major, never accumulating enough credits to graduate
until he was 65 years old. Then he repaid the loan out of his
Social Security.

Where there's a will, there's a way.

The makers of Personna® Stainless Steel Blades and Burma
Shave® are happy to bring you another season of Max Shul-
man's uncensored, uninhibited, and unpredictable column.
We think you'll be happy, too, when you try our products.

The regular feature of Vector
Volts is presented by Victor Vec-
tor who brought to Vector readers
"Victor Vector presents Vector
Vectors" last term. For the first
time the "Volts" have cartoons to
illustrate its brain tasers. Some of
the cartoons are highly interest-
ing.

The Vector Analysis, the edi-
torial of the Vector, touches on
an interesting and highly intri-
cate subject, that of the relation
of the scientist to the defense
complex. The Vector stand in
this area, propounded by Al New-
man, is that the scientist must
take responsibility for his part
in a war, because of the highly
powerful weapons of modern war-
fare, designed and built by mod-
ern science.

The issue closes with the regu-
lar featur, Faculty Profiles. This
month the departments concen-
trated on are Math, Electrical
Engineering, Mechanical Engi-
neering, Chemical Engineering,
and Architecture.

A word must be said about the
proliferation of superior art work
in this issue. Armin Feldman and
Bob Hong have helped make both
the regular features and the fea-
ture articles more interesting and
readable.

The cover of the magazine has
an unusual story connected with
it. It is an abstract painting by
Leo Manso, who based the paint-
ing on a medical engineering ar-
ticle from a scientific magazine.

This issue is altogether a su-
perior Vector presentation.

Letters...

(Continued from Page 4)

ist tactics: Set up a good cause
and deliberately sabotage it.
Conclusion: Democracy doesn't
work. Become a "nonconformist"
(don't neglect to join the ever
expanding groups of "noncon-
formists;" they meet every Tues-
day evening at 8 p.m. sharp —
tardiness nonconformity is not
tolerated — to plan the week's
protest demonstrations).

"Join the President's fight for
physical fitness, grab a sign and
walk 50 miles a day."

Advertisement in Mail Order
Catalogue (pg. 1984) "Stanard Kit
for 'Nonconformists'; picket sign
holder, and removable signs all
with word 'ANTI' in 12" letters:
address Box 1776, U.S.A. Be the
first in your neighborhood to be
a "minute picket." To arms — To
arms the Feds are coming — put
down the guitar and grab a sign—
hold it high over your shoulder,
just like a rifle. Whoops — like
man I'm sorry. It slipped my mind
what's being demonstrated
against. Different demonstrations,
but the same sloppy, unshaven
beards.

Very few people want wars.
Fortunately most of those that
do are in the Happy House. But
as long as there remains the min-
ute amount of those who try to
undermine free government from
within, those who wish to pre-
serve their freedom will have to
use the same tactics as those who
would take it from them.

To those sincere intellectuals
who want to fight your fellow
man: hospitals, mental institu-
tions, the Peace Corps, Job Corps,
civil right organizations offers
many opportunities for you to
help your fellow man who is in
need. If you wish to remain in a
country and enjoy its advantages
and services, your presence is
implicit acceptance of its laws.

Joseph P. Hagarity EE707

P.S. The writer is an ex-Navy
man, who has spent time in
troubled waters of the Mediter-
ranean. I don't favor war and I
don't favor irresponsibility either.

How To Succeed
At Draft-Dodging

By PIETER ROMAYN CLARK

(Reprinted from National Guardian, Newsweekly)

Thursday, June 24, 1965, I was ordered for induction into
the armed forces of the United States. Having passed my
pre-induction physical more than a year previously and been
classified 1A, I was quite resigned to going in. Many friends
gave their advice as to how I could avoid the draft. Some
suggested pretending to be insane or homosexual or stupid.
Some suggested that I claim C.O. status on religious, pacifist
or humanist grounds. Others suggested that I just simply
refuse to go and thus serve a jail sentence. All of these sug-
gestions made me think.

I could not claim insanity or homosexuality since I am
neither insane nor a homosexual and to do so would be un-
principled and cowardly. Also, I couldn't claim to be a con-
scientious objector since I am a materialist and don't believe
in a religion or a god. Besides, not being a pacifist, I certainly
do believe that it is sometimes necessary to defend one's self
to the point of killing. The fact is that if this country were
being invaded by some fascist or foreign force, as Vietnam
is now being invaded by the U.S., I would willingly fight to
resist the aggressors. But, since the U.S. is carrying out a
completely unjust and aggressive war against the people of
Vietnam, I could never support such a war, but I would
never refuse on pacifist grounds.

Hence, I had two alternatives: (1) refuse to go in and thus
serve a prison term or, (2) allow myself to be drafted and do
my best against U.S. foreign policy from within the armed
forces. Since I feel there is, to a great degree, a more derelict,
criminal and in general bad element of our society within
our prisons, I decided to allow myself to be inducted. At
least in the Army, especially among the young draftees, there
are a lot of good and honest young men, many of whom are
nominally against the war and the whole military system.
And as I found out later, most of the draftees are drafted
unwillingly. Many of these young men are forced to leave
their families, girl friends and in many cases their jobs. So,
on Thursday, June 24, 1965 — at 6:30 in the morning — I re-
ported for induction as ordered by my local board.

As soon as I arrived at the central induction center I
began to distribute about 200 SDS leaflets against the Viet-
nam war which I had brought with me. It seems that my act
of leaflet distribution was so bad that it did not attract the
attention of the military personnel who were present. They
all seemed to think I was authorized to do whatever I was
doing (many times young inductees are given little things to
do — such as carrying a bunch of papers from one office or
floor to another.)

In fact the military personnel never discovered what I
was really doing until an officer inadvertently picked up one
of the leaflets and began reading it. Of course I was stopped
and my leaflets were confiscated from all the young draftees
to whom I had distributed them, but only after I had given
out all I had. I was then taken to a fairly large room with a
few other people and left to sit.

Little by little the room began to fill up with inductees.
Then for some reason the sergeant and the other military per-
sonnel left the room. By this time there were about 75 youths
quietly sitting in this room all by themselves. So, then I got
the idea of asking for signatures on an anti-Vietnam war
petition. Having a large brown envelope with me which was
given with a lot of other things by the military to be filled
out at the proper time — I used this as the paper for my
petition.

On the top of the envelope I wrote in pencil: "A PETI-
TION TO THE ARMY." Then I began to go from person to
person asking for signatures. Some refused, but after a short
explanation that we have no cause to fight for in either Viet-
nam or Santo Domingo, most of those approached signed.
Many of the youths were Negroes who, with little coaxing,
willingly signed. After I had got about 21 signatures the mil-
itary personnel returned and I was immediately stopped. One
of the sergeants began to shout at me and I began to shout
back, which sort of surprised him and the inductees. The
sergeant was so surprised that he quieted down. Taking
advantage of the silence and attention I began to give a loud
talk on how unjust the aggressive war is in Vietnam and if
young Americans really want to fight for freedom then they
should fight for the right to vote in the South or join the
current picket line around city hall for equality in Chicago.

At one point a white kid told me to shut up but as soon

(Continued on Page 7)

Men's Prejudices Hinder Female Engineers Greatly

By PEGGY WINSTON

The woman in engineering and allied fields is becoming a more common figure, yet she is still regarded as an oddity, if not an outright freak.

Recent laws protecting the "weaker sex" against discrimination in employment may actually hurt the girl planning to be an engineer. She is fooled into believing that once she leaves college, where she expects the boys to react in childish manner to her presence, things will be different. From the "real world" of business she expects a mature response to her talents and training.

Mrs. Martha Sokol was never completely idealistic in this way; she was already in the "real world" when she started studying Applied Physics, so she knew life for the lady scientist was not all "sugar and spice and everything nice." But she did hope to gain some respect from co-workers by



Martha Sokol

improving her technical knowledge.

Her story is not the most encouraging for girls who are studying science. Perhaps it will prove instructing to them. It may even give the boys an insight into the enigma of the woman who chooses this discipline.

In 1953, Mrs. Sokol was hired by the Navy Bureau of Ordnance to be an inspector. At that time there was a change-over from mechanical controls for military gunnery equipment to electronic circuitry. Her job was to inspect the electronic equipment, to see that it met certain standards set by the Bureau.

Because the plant at which she was to work was closed by a strike, the training period was rather short. Official assurances that this would not affect their ability to do the job right sufficed for the other men and women hired then. Still Mrs. Sokol, feeling that she ought to know more about the equipment she was to inspect, decided to go back to school.

Mrs. Sokol worked and lived on Long Island, and attending any college in Manhattan would have been difficult for her. Therefore, she studied at Hofstra. She wanted to transfer to the Brooklyn Polytechnical Institute, but unfortunately they would not admit women students. As Hofstra was not accredited to give Engineer-

ing degrees, Mrs. Sokol majored in Applied Physics.

(This course might be described as "a cross between Engineering and Physics." When companies announce that they are interested in some Physics majors as well as Engineering, they generally mean "Applied Physics.")

"Be Better Than The Men"

When she enrolled, Mrs. Sokol was told by one of her school advisors, "If you want to stay in this field, you will have to be better than most of the men."

At school, she found this to be true. When a girl in one of her classes dropped out, the professor's comment was, "I guess she couldn't find enough men to do her homework!" Mrs. Sokol doubted that this was only in jest.

By now she has learned that men in the engineering industry still consider female colleagues irresponsible scatterbrains. Her degree is not respected, although only one of her co-workers and none of the supervisors has had any formal technical education.

Was Martha Sokol's work in vain? "Well, I got the confidence to work alongside men who were familiar with similar equipment from their years in military service."

Confidence was not all that was to be gained from formal study. "That degree gave me the opportunity to keep up on promotions with men who did not have degrees," said Mrs. Sokol. "Of course, some men will always resent women in this field. My advisor at Hofstra was right: if a woman wants to be treated the same as the men, she must be superior to them in both education and performance."

Meet Your Match, IBM Shows the Way

By JOSEPH ROBINSON

Students, are you in need of a date? If you are, Compatibility Research Incorporated (Operation Match) can provide you with not only one but up to 15 dates. Incredible as it may sound, it is true!

Operation Match was started by a group of Harvard Students who are primarily concerned with compiling some valid sociological data and making "the blind date" at college more successful than it is under the present system.

What they have done is construct a personality test which tests such things as one's attitude toward religion, sex, and physical attractiveness. There is also a section on interests, designed so that people with common interests will have an opportunity to meet each other.

The best part is that people choose their own dates. In section six of the personality test there is a double format; people answer questions as to their characteristics and as to the characteristics of their ideal date. Aside from allowing the individuals to choose their own date, the testers are interested in seeing "what people look for (in relation to their self-description) in an ideal date;" in cases where individuals choose someone different from themselves, they are trying to find out "whether opposites attract, and if so, in which areas of compatibility."

The project has been meeting with great success. 22,000 applications have been processed (a potential of 100,000 dates) and 10,000 dates have been made of which approximately 90% have been successful. Despite the fact that Operation Match is not a mating service, four marriages have occurred as a result of its matching.

Although the range of Operation Match is at present limited

to certain areas, it hopes to expand in the future and make nationwide dating a reality... for those who can afford it.

Applications are available through IFC and House Plan. The deadline for filing applications is November 8.

For those interested in technical details, the actual matching process is very complex. First the replies on the questionnaires are punched onto IBM cards by a staff of 35 trained computer programmers. Then the IBM cards are fed into an IBM 1401 computer, which transfers the information to magnetic tape memory banks. Then the memory banks are put into an IBM 7090 computer, which makes the matches.

To guard against mistakes by the programmers and to weed out those questionnaires sent in by pranksters, the questions have been divided into 13 groups, or gangs. Within each group there should be some pattern of consistency in the replies. For example, the question about one's own attractiveness and the question asking to what extent one's ideal date should be concerned about physical attractiveness are compared. According to the directors of the project, even a disturbed person who answers the questions honestly will create some sort of patterns. If no such patterns are found, then the replies are re-examined. If the replies are found to be phony, then the questionnaire will not be processed further and the money refunded. All this is done by the 1401 computer and the persons supervising the project. Then the 7090 makes the matches and sends out the replies to the people who are participating in Operation Match.

Although it seems expensive to participate in Operation Match, (Continued on Page 8)

Book Review

"Fun with Figures", A Collection of Entertaining Puzzles by Raymond F. Lausmann, Published Today by McGraw-Hill.

"Nine men found themselves captives of a strange tribe in the land of Togi Togi. All the captives were seated on the ground in front of a hut, and in a straight line.

"According to ancient ritual the tribe always served a certain potion to its captives, so that every seventh cup contained a deadly poison, and they always served from left to right. Their practice was to continue serving this potion in the ritualistic manner until all but one prisoner was dead. Native superstition prevented them from killing the last man. For example, suppose there were six prisoners. Then none would receive the poison cup on the first round, but the first man on the left would receive the deadly seventh cup on the second round.

"Now, one of these prisoners knew of this tribe and their customs, before his capture. If you were this man, which position starting from the left, would you have chosen?"

This is one of dozens of imaginative problems posed by Raymond F. Lausmann, the humorous, enthusiastic mathematician whose column, "Fun with Figures," has appeared in over 30 newspapers for more than 13 years. From the more than 1500 puzzles and mathematical recreations he has compiled and originated, Lausmann selected those which have drawn the most comment from readers for his book, "Fun with Figures," published by McGraw-Hill.

"Fun with Figures" proposes to take out the sting that is frequently associated with the word "mathematics." "When we speak of the beauty of nature," Mr. Lausmann says, "we are most likely to think of woods and wild life or the skies and sea. Mathematics also has certain natural beauty as well as some phenomenal characteristics." He hopes that his book will show this, that it will entertain rather than give work to perform.

The problems are aimed at ages 10 to 80 — to anyone who can add, subtract, multiply, and divide — to those who like figures and have a thirst for challenge. Nothing in the book uses geometry, diagramming, or inference, and there are only a few puzzles using algebra; those which do can be worked out by analysis. Many of the problems can be solved only by trial-and-error.

The chapter "Beauty and Bewilderment" shows the beauty and order of some number sequences, "Fact and Folly" has dispersed puzzles that are strictly odd, some without numbers; "Cool and Calculating" and "Win with Wit" involve the use of systematic trial, algebraic equations, and whole number solutions. Puns for fun are also included. "Juggling and Joking" contains puzzles involving number juggling. Other problems in the book involve prices, coins, fractions, rates, and percentages.

"Assuming, of course, that you chose to live, you should have taken the second position from the left."

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WED. & THURS., NOV. 17, 18

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Draft-Dodge . . .

(Continued from Page 5)

he did several Negroes said, "Let him talk, man," and one
en jumped up with raised fists to defend my right to talk.
turally, when the military personnel recovered from their
ock, they seized me and isolated me and even placed a
ung sailor to guard me. After a short wait they rushed me
ough some tests and had me fill out some papers. I refused
sign the loyalty oath, which has all kinds of peace, civil
hts and progressive groups listed as subversive, besides
e Nazi Party and the KKK. On all previous occasions, such
my pre-induction physical, I had refused to sign.

When finished with the test and all papers were filled out
cept the loyalty oath) I was rushed through the physical,
the time being accompanied by this sailor guard. As I
ent through the physical some of the guys, both black and
hite, asked how I was and in general greeted me warmly.
other words, there was little hostility toward me for what
ad done. Admittedly I was quite frightened at how I would
received by the other guys when I decided to make a stand.
ot only did the other inductees receive my action well, but
e young sailor placed to guard me was exceedingly friendly.
Finally I was sent to the security officer, who told me
at I needed a security clearance and would not now be
afted. I then told him that he could not keep me out of the
rmy because of my politics even though I do refuse to fight
Vietnam. I was told that they would call me and for me not
call them, and that I should go home — which I did.

But Congress Says . . .

An increasing number of inquiries in recent weeks from
students concerned over the possibility of induction into the
armed forces of the United States, and particular inquiries
to possible penalties which might be incurred by opposi-
on to Selective Service suggest that it may be useful to
inform all students as to the applicable provisions of the law.

The Selective Service Act (as amended) includes the
following passages which are believed to be particularly
relevant:

" . . . any person . . . who knowingly counsels, aids, or
bets another to refuse or evade registration or service in the

armed forces or any of the requirements of this title (law),
or of said rules, regulations, or directions, . . . or any person
or persons who shall knowingly hinder or interfere or attempt
to do so in any way, by force and violence or otherwise, with
the administration of this title (law) or rules or regulations
made pursuant thereto, or who conspires to commit any one
or more of such offenses, shall, upon conviction in any dis-
trict court or the United States of competent jurisdiction, be
punished by imprisonment for not more than five years or a
fine of not more than \$10,000, or by both such fine and im-
prisonment . . .

"Any person . . . who forges, alters, knowingly destroys,
knowingly mutilates, or in any manner changes such certifi-
cate (draft card) or any notation duly and validly inscribed
thereon; or . . . who knowingly violates or evades any of the
provisions of this title (law) or rules and regulations promul-
gated pursuant thereto relating to the issuance, transfer, or
possession of such certificate (draft card), shall, upon con-
viction, be fined not to exceed \$10,000 or be imprisoned for
not more than five years, or both . . ."

(Excerpts are from Section 462, Title 50 Appendix, U.S. Code
1964, and Public Law 89-152, 89th Congress, August 30, 1965.)

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Computer Association

The Association for Computing
has chartered a student chapter
here at the City College. The pur-
pose of the chapter is "to pro-
mote a greater interest in com-
puting machinery and its appli-
cations." At the first open meet-
ing of the chapter, November 4,
at 12:30 in Steinman 123, two
films on computer applications
will be shown. They are "A Bet-
ter Way," by IBM and the car-
toon "A Missile Named Mac," by
Bell Labs.

In the future, ACM plans to
have speakers from the college to
speak about their work on our
IBM 7040, speakers of the na-
tional organization of ACM, and
a trip to an IBM plant to see how
computers are assembled.

The president of the City Col-
lege Chapter is Paul Frosch and
the faculty advisor is Prof. Dem-
os Eitzer of the E.E. department.

—Lasky

TECH NEWS

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our position as leading newspaper
in the School of Engineering and
Architecture, TECH NEWS finds
it necessary to have people work-
ing on its staff. If you are will-
ing to work a few hours each
week towards the production of
this newspaper, and particularly
if you are an engineering upper-
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Visiting Profs Named For '66

Dr. Ernest J. W. Barrington, chairman of the department of zoology at the University of Nottingham, England, has been appointed Buell G. Gallagher Visiting Professor at City College for the 1966 spring semester.

Professor Barrington, an authority in the field of comparative endocrinology, will give a graduate seminar in "Comparative Endocrinology" as well as a lecture and laboratory course on endocrinology. The lecture course, offered for the first time at the college, will be open to undergraduate and graduate students.

Dr. Barrington is author of several books and more than sixty scientific articles. His most recent books are *Hormones and Evolution* and *The Biology of Hemichordata and Protochordata*.

Professor Barrington has been head of the zoology department at Nottingham since 1949 and served as Deputy Vice-Chancellor of the University from 1956 to 1959. He is currently the European editor-in-chief of "The Journal of General and Comparative Endocrinology."

The Buell G. Gallagher Visiting Professorship chair is financed by the City College Fund through gifts from alumni and friends of the college. Named for the college's president, the professorship enables distinguished scholars to teach at the school for a semester or an entire academic year.

Visiting Professor Chang

The Physics Department is delighted and proud to have Professor Ngee-Pong Chang in residence for the 1965-66 academic year as Visiting Professor. Dr. Chang is regarded by his associates as one of the most gifted rising young theoretical physicists.

Dr. Chang received his BA from Ohio Wesleyan in 1959, and earned his Ph.D., working under Professor Feinberg, from Columbia in 1963. His thesis is titled, "Radiative Corrections to Weak Interactions." During his final year at Columbia he was a Research Associate. Dr. Chang spent 1963-64 at the Institute For Advanced Study at Princeton. In 1964 he joined the staff at the Rockefeller Institute, from which he is presently on leave. Most of his publications (which have been described as "elegant") have appeared in the *Physical Review*.

He is interested primarily in weak interactions and symmetry properties. He is teaching the graduate course on elementary particle physics (U851), and takes the lead role in the working seminars on particle physics on Thursday mornings at 11:00 AM in Room S601.

Dr. Chang admits to deriving great enjoyment from his graduate course teaching assignment. He has also been made a member of the Curriculum Committee.

Operation Match

(Continued from Page 6)

the directors pointed out that there are very heavy operating expenses. For example, the 7090 computer costs about \$10.00 a minute in electric power to operate. Thus there is no profit and they may even stand a loss.

Give Blood!

CCNY Democracy...

(Continued from Page 1)

vided he applied himself to it. The basic principle holds even in this day of intense specialization, of producing by and for the division of labor. Students are merely young people — not young, incompetent people — not young, evil people forever plotting to separate their elders from the comforts of age — merely young people. Students are on the whole no more and no less rational than other people, no more or no less decent and humane. The same statement, interestingly enough is valid when applied to faculties and administrations, which are composed of people who bear strange resemblances to the rest of the human race. They can be good or evil or more frequently, both; they can be rational, and decent and humane in varying degrees; they can be avaricious and play politics in the same way as corporation heads or Members of Congress or yes, even students.

The point of all this is that there is a very great probability that the City College of New York will have a student Congress in early December. It will probably run for three nights, start with a bitch-in, continue into committees that

will discuss every variety of university problem, from athletics to academic freedom and will conclude with a plenary session where everyone can vote aye or nay on the resolutions that come out of committee. The resolutions will be presented to student government, the faculty and the administration, and if perhaps they show that students actually want to have a voice and vote in directing their own affairs the resolutions will be worked on by those august bodies. Every City College student can attend, talk, yell, plead a vote.

It is a bit early to urge all of you to attend. But it is too early to ask all of you to think about what you want done on this campus, to ask you if you want to be told what to think and want or if you want to say what you think and want for yourselves. A Student Congress is a one-shot deal where everyone can openly talk and decide. A responsible and responsible role for students in the academic community is a long-term deal for open talk and open decision.

Remember — it is not that one trusts students more, it is merely that given the potentialities for good and evil in us, one trusts an honestly representative government a representative community more than not.



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