# $T$ SNOVEBOA <br> THE SCHOOL OF ENGINEERING AND ARCHITECTURE <br> H <br> $S$ 

## Plan New Center For Klapper Site

By ARTHUR LANDSMAN

A facility for "meetin and eatin" is now in the planning ge to be constructed on the present site of Klapper Hall $d$ the area behind it. The site runs from 135th to 136th eets between Convent and Amsterdam avenues. Accordto plans of the City Planning Commission this area is ated to be purchased by the City for the college's use in the ear future.
program of requirements for
Students Commons was n up by Professors Halaz, g and Deans of the ArchitecDepartment. The fourth and year design students were asked to develop workable igns for the use of the colin future planning. The proof requirements included panded student-faculty facili-
tion spaces, and conference areas.
One very interesting addition One very interesting addition
would be space for housing dis tinguished guests of the Collegea facility sorely lacking in the present setup.
A . jury of faculty members of the Department of Architecture and members of the College's top administration, including President Gallagher, Deans Allan cafeterias, lounges, exhibi-


Structure designed by Enoch Lipson

## Faculty Profiles Ch. E. Department

This term four new teachers have joined the Chemical ngineering Department faculty, one Professor, one Assistant rofessor and two lecturers.
The new Professor is Dr. Reuel Shinnar. He teaches ermodynamics and Material Balances on the undergradte level and Fluid Particles on the graduate level. He ceived his B.S. at Technion, the Israeli institute of techlogy and his Ph.D. at Columbia in 1957. He then returned Israel and taught at Technion until 1962.
Professor Shinnar spent the Research Fellow. He has written $t$ two years working in the $\begin{aligned} & \text { Research Fellow. He has wrans } \\ & 14 \text { books, including "Heat Trans- }\end{aligned}$ ggenheim laboratory for Aeroace Propulsion Sciences at inceton University as a Visiting fer Stability Analysis of Solid
Propellant Rocket Motors" pubPropellant Rocket Motors" pub-
lished in 1960 and "Ignition of an Evaporating Fuel in a Hot, Stag nant Gas Containing an Oxidizer which was published this year. He is interested in polymer science and teaches it on the underence and teathes
graduate and graduate level. He graduate and graduate level. He
enjoys teaching and says he enjoys teaching and say
"plans to stay academic."
plans to stay academic.
Dr. J. Williams received his B.Ch.E from Lehigh University and his M.Ch.E. and Ph.D, from Case Institute of Ohio. He worked for Sylvania Electric Products doing research in organic coatings. He hails from New England
(Continued on Page 2)

Programs
Your College program may oon be worked out on by IBM computer. The Registrar's office at City College has begun negoiations with Dr. Ming L. Pei for the use of the IBM 7040 compute to work out student schedules.
The College has been using a complex of key punchers and complex of key punchers and
sorters which together form the sorters which together form the
IBM 407. This has been described IBM 407. This has been described
as mainly an "accounting machine." Without this machine which is housed in the Adminisration building, "several more persons would be needed" at the Registrar's office, to aid in programming.
The 407 is used to coordinate student records, for statistical reports and end of term grades, and to supply a roster of students in every course and section to the department heads.
Use of the 7040 will begin "from six months to two years" from now. This machine can add two eleven digit numbers in 16 micro seconds. It can multiply two eleven numbers in forty microseconds.
The computer may be used by any member of the City University. The school was given a $60 \%$ educational allowance towards the cost of the 7040 by IBM.
"Ye Olde Computation Center" is at T4 in Stienman Hall and the 7040 is housed in rooms 2 and 3. A course in Elementary Programming is being given in five lecture sets. This successful course, attended by faculty as well as students, leads to student use of the computer for a sample problem. There are no prerequisites for the course.
To coincide with the mad language used by the computer, is a device to inform users of the ma-
chine when they have made a chine when they have made a
mistake. The 7040 is programmed mistake. The 7040 is programmed oo print a picture of Alfred E.
Newman, the "What Me Worry" kid; along with the computed error.

- Snyder
cec SEASHME GREETAHS

II IIIIII


## Computer To Plan <br> S.G. Race Decided; Football Team In

## By RICHARD ROSENFELD

In one of the largest voter turnouts ever recorded, the student body of City College overwhelmingly voted to have a football team. Also passed by a vast majority was a provision clarifying the procedure for placing a referendum on the ballot.
Over 2,500 students turned out ${ }^{\text {call for a referendum }}$
or this off-term election, which The election also saw the seataccording to past history, should ing of four new council members, have seen less than half the (not including the six members number of votes cast. The two to be seated from the class of eferendum seemingly were the necessary stimulants.
The motion on the ballot asking students whether or not they students whether or not they
would be willing to have a 50 cent charge added to their student fees for the purpose of supporting a football team received 2,219 yes votes as opposed to 346 no votes. The second referendum concerned the qualifications necessary for a proposal to appear as a referendum on an election ballot. The motion which was approved 2,147 for, 219 against states that $10 \%$ of the student body signing a petition is sufficient to

## Interviews Completed In Record Number

By EDWARD SMITH

The City College Placement Office has recently completed its Fall on-campus job recruitment interviews. According to Mr. Charles Meyer, Assistant Director of the Placement Office, the results of these interviews promise to turn out to be quite fruitful.
The operation performed was mammoth one. In all, 2815 in terviews were arranged by the Placement Office. With few exceptions, these interviews were solely for the January engineer ing, architecture, and science graduating classes. The recruit ment was carried out in 32 days by 228 interviewers. They represented 112 companies and governmental organizations, which range in size from the Bell System to Chronetics, a small firm employing about 40 people, and in diversity from the Central Intelligence Agency too the Smithsonian Astrophysical Observa

No concrete information on the results of the program have as yet been obtained. This is due to the fact that most of the students are still in the process of finishing trips to plants and considering offers, and few have accepted any offers as of this time. The anticipated success of this term's recruitment drive, however, is based on two factors. The first is the stature of the graduating class. Mr. Meyer cites this class as exceptional and one of the best he has seen. The other is the increase of Job opportunities afforded by commercial companies, which should offset the shortage of hir(Continued on Page 4)

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# Mincin New 

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## Strike A Balance

Recently Dean William Allan (Engineering and Architecture) said that engineering students should not "go out Dean Allan justified his point of view by stating that (a) engincering studies are very demanding of a student's time; (b) a man should not be forced into doing something he does not feel inclined to do; and (c) the development of the whole persons will not take place in the college alone.

We do not feel that studying is all that a college student should do, even if it is all that he wants to do. We believe that every student should have, or develop, interests outside of the academic area. We further believe that college is the place best suited to the development of such interests, and that if a person has to develop them after he leaves college, he will be at a serious disadrantage.

We know that engineers often tend to be rather introverted individuals. We also know that an engineering student need not spend all of his free time studying in order for him to be academically successful. It is sensible for a person to strike a balance between academic and social life and to avoid being trapped in one or the other extreme position. If a student finds that he is spending all of his time at his studies and none of his time in some extra curricular activity, we believe that he should then make a determined effort to join a non-academic campus organization, in order to achieve a better balance in his life.

Those students who are graduating this term have already learned the lesson that grades are not enough. Important, yes. But not enough. Most companies are looking for a well-rounded individual, and are not enthusiastic about men who have spent four or five years in college without having been active in some campus organizations.

While it is true that some "bookish" individuals will succeed, they will rarely reach the limit of their true potential, and may never be truly happy with their lives.

We feel that Dean Allan is not correct in saying that engineers should not force themselves, if necessary, into joining campus organizations. Participation is necessary for being relatively well-rounded, and this, in turn, is necessary for an individual's success. Hence participation is necessary.

## E.S.S.G.

Dr. Martha Farmer of the Department of Student Life has recently been the victim of an organized conspiracy of slander. We feel that the only thing Dr. Farmer is guilty of is promoting a friendly atmosphere in Evening Session extracurricular activities. She works to make Evening Session College life more enjoyable for the students.

It is unfortunate that some students are devoted to the vice of having power over their fellow students. And it is also unfortunate that Dr. Farmer will not tolerate this in the area supervised by the Department of Student Life. Something must be done about the unrepresentative and undemocratic evening session student government.

That Dr. Farmer is being criticized for taking action only shows that the vested interests will not give up without a fight.

## Inquiring Technographer

By PHIL BURTON
OUESTION Do you think there should be a code of dress on Hall.
Eric Lovinson, Lower Soph, Physics. As far as a code of dress goes, in a limited sense I am for goes, in a liminted sense 1 am for
it. I wouldn't want to have to it. I wouldn't want to have day. However, it is a sensible idea to prohibit the wearing of paintsplattered dungarees. Excessively sloppy dress speaks poorly for the school.


Eric Levinson Jerrold Gross
Jerrold Gross, Upper Freshman, Political Science. I don't think one should be imposed on the students. I've never seen an indecently dressed person on campus; and I don't think I will. Most of the students have good taste in cothes. I feel that if I want to
come to school in my fraternity come to school in my fraternity
sweatshirt and dungerees, should be allowed to do so. This is a college, not a junior high
school, and its students should be school, and its students should be
treated with common sense as adults, not children.
Robin Shaikun, Lower Soph, English. No College students should not be subjected to a mode of dress; it would be an insult to heir dignity as members of the
adult community. An office adult community. An office
worker is not told what to wear but is automatically expected to use good taste. By the same token, a college student should. It is an unfortunate aspect of human nature that such freedom is taken
dents.


Robin Shaikun Laima Minkuna
Laima Minkunas, Lower Soph Art. No, I think that once a person is in college he should be old enough and mature enough to decide the right way to dress. A code of dress would make the people adhere to one standard of dress. College years are the time when a person should be an in dividual. He expresses his in dividuality and creativity by his choice of clothes. Maybe the reason I am saying this is because I am an art major. Anyway, around the college I've noticed that most people dress appropriately; so why enforce a code of dress? It isn't necessary.
Lynne Gassman. Lower Junior, Art. Definitely not! As adults College students should not be limited in their dress. Society imposes a code of decency which in the past has proved to be sufficient on campus.


## MAIL DEPARTMENT IETTERS

## To the Editor:

I must take exception to the opinions expressed by Dean William Allan in his interview with TECH NEWS.
Whereas an engineer is concerned primarily with concepts rather than people in most of his endeavors, he is also a person and must be capable of dealing with people for the rest of his life.
An engineer in our society is judged as a citizen by his relationships with other people and his conduct among people. To say that an engineer should not be concerned with people is a very narrow attitude.
The College community is a place where development of the whole person must take place. To deliberately restrict one's development by not taking part in student activities is detrimental to the individual. Such a person is not taking full advantage of the opportunity available to him at school.
As an engineer who has been active in both technical and nonlechnically related activities, I feel that my time was equally well spent in both. I would encourage an engineering student o join activities outside of his field specifically to develop that part of his person which is not being developed inside a classroom.

## Sincerely,

Herbert Geller
B. E. (E.) '65

Dear Sir:
It seems apparent, by the "Inquiring Technographer" column in your recent issue, and by the general climate of opinion that exists at City College, that a horrible, sickening apathy has crept upon us and has left an almost indelible stain upon yourselves, and the student body in selves,
general.
Phil Burton's question. about SG's right to act upon the plight of Soviet Jewry was , bviously a successful attempt (I have no reason to believe that you would print answers, all of the same vein, if opinion was not unani mous) to prove that our student body doesn't give a darn abou anything beyond their own nar row worlds of indifference and material desire. The fact that our
whole student body contributed whole student body contributed on the recent Fast For Freedom brother, Hunter College, donated s evidence that this apathy exends to all important issues, no just the Soviet Jewry question.
I extend my hope to you, that your publication, other Campus publications, and students in gen ral, will learn to realize that we cannot live within our own little shells, but must extend our hands to the courses of human justice,
and know, all of the time that this is one of the essential duties of "Students as Students."

## Sincerely yours

Jeffrey Levinton '66

Trudy Wassner, Lower Fresh man, Liberal Arts. No, I don't think that there should be any restrictions whatsoever on student dress. If a student want to com casually or formally, it's his or her prerogative. The lack of re strictions makes City's dress in-
teresting. Besides, everyone will teresting. Besides, everyone wil be subjected to restrictions onc

## Profiles..

(Continued from Page 1)
has been in New York

Mr. Fred Krambeck, a lecture eceived his B.Ch.E from Ci

from the part of the had recover Civil War ablish itsel The devel n territoric ring, and tre p , the mone always, the ways to
ough never
provincial ying the par College in 1963. He is now wor politan capit ing for his doctorate at City Co ngs the risin
amics 2, Unit Operations 1, an the Unit Operations Laboratory 1. H vorked for about two and a ha years at Westinghouse Atom Power Division. He is marris and has an infant son
Martin Sherwin graduated fro
City College in 1960. He workd


Mr. Fred Krambeck as a process development
gineer for Scientific Design gineer for Scientific Design a
then took a leave of absence teach at City College. He enjo teaching more than he thought would, and plans to teach pa time when he goes back to indu try. He believes that industr experience enables a teacher bring more knowledge to st dents.
Mr. Sherwin earned his M.Ch
at Brooklyn Polytech and is pre


Mr. Martin Sherwin ently working towards his d torate. He was married last Ja uary. He teaches Thermody amics, Unit Operations Labo tory, Undergraduate Thesis, a supervises plant trips.

- Altman

Trip Planne
The AI AA,ASME, SAE spo sored trip to Pratt \& Whitn Aircraft, Division of United A crafi Corporation, Windsor Loc Connecticut will take place 1 coming Monday, December Students who have signed must be in front of Shepard on Convent Avenue, promptly 645 a.m.
Students interested should sult the Mechanical Engineer bulletin boar din Steinman H Only 50 tickets will be sold, o first come basis. yle of Bul e and mus dson, but ra fimperial Rc anks, temp presumptio ed surprisin White, two rought realit ost-War Bos Itural powe the banks And the un central fig ectural resu ican, but a

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## ARCHITECTURE

n, from the 1800's to the made it work." The usual result part of the twentieth cen- is visible on Steinman Hall. ys in a state of flux. The Work of this nature does create had recovered from shock problems. Does a piece of sculpCivil War and had begun ture fit into a tight urban environblish itself as a world ment? Certainly the setting of The development of the Carpenter Hall at Harvard is not territories aided the entirely appropriate. However, expansion of markets, man- greatness excuses faults that ring, and trade. Briefly, at would be insupportable in medio, the money was pouring always, the nouveau riche ways to display their
ough never really move provincial city surrounded versities, Boston delighted ing the part of the urban politan capitol. For its new ags the rising industrialists not the light, easy, Repubtyle of Bullfinch, nor the a and muscular forms of dson, but rather the buildImperial Rome. The homes rich became palaces, and banks, temples.
presumption, this ostentaad surprisingly by McKim White, two of Richardson's ts, lasted until the depresought reality.
ost-War Boston, the center tural power has returned the banks to the universiAnd the universities have hat power well
central figure in the new ctural resurgence is not an can, but a French citize


Saarinen's Chapel at M.I.T.
Le Corbusier. Corbu was Charles Edouard Jeanneret Chaux de Fonds, Switzerin 1887, the year following eath of Richardson. First t, then a critic and writer nally an architect, he still s and uses all his skills. Al$h$ he was one of the major in the design of the United s' complex in New York, ne structure in the Amercompletely his, Harvard's nter Center for the Visual The basic material of both ure and walls is reinforced te, plain, raw, and unfinishhe marks of the plywood still show, puntcuated by ts of the snap ties. No efas been made to add texture ish to the surface, as Saarid Rudolph did at Yale. It is he hard shell of the lobster, skin and structure. The ng has no definite form or no inside or outside. fiow through and back in $s$ strip fashion. Where the er sought to allow in light ut creating the void of an ary window, he used glass As Mr. Donald Dixon has No one but Corbu has ever
toward creating unity within an area which so badly needs unity." The chapel, with many admit ed faults, is still a delightful little structure of rough, burnt brick. It springs on slow arches from a shallow pool. Light, re flected from the surface of the water, bounces under the arche and up, forming mystic pattern on the interior. Few small rooms attain as religious an atmos where.
Across the river, in Boston proper, construction of the heart of the urban renewal project, the Government Center, has already begun. The master plan was don by I. M. Pei, but the individual buildings by other architects. A competition was held for the major structure, the rather rigid program written by Mr. Pei. The design, which was to fit inside a given envelope, will dominate plaza surrounded by office build ings. The winning design by three young architects, Kallman, Mc Kinnell and Knowles, is a rectan gular building arranged about a central court. The public function are at the base or plaza, impor tant offices, such as the mayor: hang above that, while general
ollowing in the tradition of their older buildings. The new designs are crisp, orderly, and machine ike. The facades are regular and cpetitive. Even Mr. Saarinen, whose Yale structures were so
free and moving, seems to have free and moving, seems to have
been bound almost to the point been bound almost to the point designed and built a chapel and auditorium which stand isolated on a large open plaza. Saarinen said a few years later, "I think he dome and chapel can be criticized as being too egocentric. The shapes of the buildings are closed They do not contribute anything
administrative areas are fixed|Health, Health and Welfare, and tightly on top, capping the design Employment. Five firms were in volved, resulting in a design hat looked like a small town Mr. Paul Rudolph, a member of one of the design teams and Chairman of Yale's Department of Architecture, came up with one large, low building ranging along the perimeter of the tri angular block and nailed down with a tower at the highest point. The building steps back as it rises on the interior and the space promises to be one of great interest. This building creates a space the City Hall will use space created by the surrounding structures.
Boston, already the home of many good buildings, is rapidly adding more. Some of the solutions sought and found there are undoubtedly valid in our own city. Unfortunately, the problems of any large city are not such that can be solved by the design of individual buildings. Overall city-wide planning is necessary. Philosophical decisions on the definitions and goals of a city must be made in order to establish rules by which judgments may be made. Just as in nature,
and facede are of exposed, rein forced concrete; the plaza and the steps upon it are of brick. The building hums with the monu mentality so evident in the work of Corbusier. The treatment of the facades, the high, deep sheer walls, and the close pattern of the The new Boston City Hall facade echoes Corbu's great High Court at Chandigarh (1951-56), while the proportions of the structure are reminiscent of the monastery of La Tourette, Eveux France (1956 60). Its completion in 1965 is eagerly awaited. Perhaps New York's lovely 18th century Cit Hall will at least have a rival. The other structures in the Government Center are not spe ers that beauty does not always shout. Only the State Government Center, which, occupying an en tire block, surrounds its own plaza, has any great individua importance. Mr. Pei had called for three separate buildings for
the site; one for each of the three state departments of Mental departments of M
violent change in any one part of the social order will upset the balance of the entire ecology. Provisions must be made for reating the proper balance and then maintaining them.
Whether any measures can be successful remains in doubt, for Boston is a city with major probems. Because of inadequately used public transportation, the raffic situation has reached the point of hopelessness. Boston is the city where on Monday, December 30, 1963, traffic stopped just stopped for twelve hours. In addition the money necessary to finance solutions is hard to get, so much of the land belongs to tax exempt institutions such as the schools and the church that the remaining property must be lowered to bring them down to a reasonable level. Boston jus might not make it
We, New Yorkers, must not allow our city to reach that point. Our roads too can stop and neighborhoods here have already died Fortunately, our rivers have yet heir glory and our streets their spots of beauty, but beauty fades and glory dims in a city which does not care.

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'65 Chevy II $\begin{aligned} & \text { Clean new lines. Fresh new interiors. A quieter } 6 \text { and-V8's }\end{aligned}$ available with up to 300 hp . Thrift was never so lively.

'65 Corvair It's racier, roomier, flatter riding. With more power availableup to 180 hp in the new top-of-the-line Corsas.

Move to see, more to try in the cars more people buy

- Order a new Chevrolet, Chevelle, Chevy II, Corvair or Corvette now at your dealer's


## Interviews

(Continued from Page 1) ing in the acrospace and electromics areas, caused by cutbacks in government contracts.
According to Mr. Meyers, it is difficult to determine the prospects for the June graduates. His guess, however, is that they should be approximately the same as those of the January graduates. His basis for this estimate is the fact that the hiring situation in the electronics and areospace fields has been steadily showing modest improvement since its low of last June.
Along with cautious expectation of success in June, came warnings for the graduating class. warnings for the graduating class.
Quite a bit of pressure is on them to live up to this term's class, because the recruiters coming back to campus will expect the same highly qualified students they found this Fall. Most grades and extracurricular activities will be a matter of record by next Spring when the interviewers return. Fesults of these interviews therefore can be changed only by the preparation, attitude and decor of the students who take part in them. Mr. Meyer cautions that it is easy for the June graduates to let the paperwork fall behind because of the extra time they have and on the basis of this they will find that their interviews reveal weaknesses.
The placement program for the Spring term has already begun. The three Employment Orientation sessions which it holds, for the engincering and science class, the liberal arts class and the evening session class have already taken place.

## Klapper..

(Continued from Page 1) judging the student projects. President Gallagher, questioned later as to his impressions, replied that he was very impressed with the imagination of the students and the varied concepts set forth as


Ziggarot by Paul Benowitz
solutions to the problem at hand. The solutions are indeed varied, ranging from a Ziggarot to a local rendition of the Yale School of Arts and Architecture.
Paul Benowitz in creating his Ziggarot expressed his concept as follows: "The design attempts as follows: The design attempts to create spaces which will be
visually intimate and exciting by connecting main levels with small intermediate levels which serve

Design by Joel Kaufman
as lounges as well as vertical circulation. The building steps up as dictated by the site. This provides terraces which serve as outdoor areas, corresponding to their adjacent indoor functions."


Joel Kaufman set forth the hibition area. The plaza in front Architecture to have it ser following criteria - "The City of the structure is an open area an advance planning agenc College, experiencing an ever ex- where students may congregate." college construction. panding enrollment, is faced with Enoch Lipson decided to sep- This close cooperation be the need to supplement its present arate Faculty and Student Facisocial and recreational facilities lities into two connected strucfor both students and faculty. The tures. the College and the Depa of Architecture can ser bringing better architecture college campus - an ingr that is sorely lacking speci in the last three additions campus, Cohen Library, Sti \begin{tabular}{l|l|l|l|}
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Each level overlooks the open ex- \& The School of Engineering and \& Building.

 

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Each level overlooks the open ex- \& The School of Engineering and \& Building.
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## MID-CITY LANES/ $/$ Row Hith haro firt cir 40th street a bih avenue / and floor, ninth avenue end

NEW YORK'S MOST CONVENIENTLY LOCATED BOWLING ESTABLISHMENT proposed Campus Commons is one This project indicates a comstep toward accomplishing this ing of age for the Department goal. The proposed structure of Architecture. The administra-



The object of our concern was a small, wedge-shaped mollusk found in southern waters where we planned to lay telephone cables.
Like others of its genus Martesia (of the family Pholadidae), it is a borer.
Usually it bores into limestone or some other substance to find a home.
Would it-could it-bore into our undersea cables?
At the time, we were testing the performances of proposed dielectric
materials for undersea cables at various simulated depths, temperatures and ocean pressures. We also tested for resistance to marine biological attack.

The testing showed that our cable covering wouldn't be attractive to pholads, and in nearly fifteen years of experience with undersea telephone cables we have peacefully shared the ocean bottom with them.

But we had to be sure we could. In the telephone business, reliability is
everything. We must do all we can to safeguard service from interruption. No threat is too small to ignore, not even that posed by a tiny mollusk.
Right now we've got other problems.
Out in the Dakotas, hungry squirrels. and field mice are nibbling on our wires.
We have to run.

