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TECH NEWS

CITY COLLEGE OF NEW YORK

VOL. XXI — NO. 5

WEDNESDAY, NOVEMBER 18, 1964

STUDENT FEES

Orientation Program Successful

The recent freshmen engineering orientation program, under the direction of Dr. John D. Key (Student Life), has proven success. Last semester, at the close of the program, each student was given a questionnaire so that they may assess the value of the program.

A great majority of the students felt that the program described the duties, responsibilities and qualifications of engineers and that it offered practiced assistance in adjusting to college life. More than half of the freshmen felt that the orientation program provided motivation for the study of pre-engineering courses. (Students do not normally take courses given by the engineering departments until their Junior year.)

On the negative side, the students felt that the program did not teach them how to study and that it did not preview the basic engineering sciences and demonstrate their applications. (Many freshman engineering students do not have a realistic picture of the engineering field they are planning to enter.)

When asked about the structure of the orientation course, most students felt that a final grade could not be given, homework problems related to engineering could not be assigned, and that a textbook should not be required. An equally large number of students approved of showing films related to engineering and of tours of the engineering laboratories.

Raymond

By JOSEPH BOCK

No matter who you are or what your interests are on Campus, there's one person you are sure to meet during your college life, namely, Raymond the Pretzel man.

Raymond has been with us for years now and is an interesting fellow. With a yellow flower and feather stuck in his CCNY cap, and with all kinds of buttons, pins, and who knows what from practically every organization on campus stuck all over his clothes and leaflets pasted all over his pretzel cart, he cuts a picturesque figure.

Right now he is stationed at the South Campus gate where thousands of pretzel starved City College students who migrate from North to South every day, satisfy their appetites. "I just don't know where they get such appetites," the spirited pretzel man remarked.

Raymond feels that this is the fastest moving campus he has ever seen. "You can get everything you want on this campus if you seek it, even a wife. There's sports life or social life and every-

(Continued on Page 4)

Student Aides Requested

The American Society of Mechanical Engineers is holding its Winter Annual Meeting in New York from November 29 to December 3.

Three hundred students from the Metropolitan Area are needed to hand out cards, run projectors, and assist speakers at this conference. The Meeting has been divided into 10 sections: 4 morning, 4 afternoon, and 2 evening, and each section will be the responsibility of a Director. The Director will maintain control over arrangements for his section. Students will be allowed free registration to the entire Meeting after serving their half-day session as aides.

All engineering students (not only ASME members) interested in becoming aides should consult the ASME bulletin board near the Mechanical Engineering Office in Steinman Hall.

TECH NEWS

In order that we may maintain our position as leading newspaper in the School of Engineering and Architecture, TECH NEWS finds it necessary to have people working on its staff. If you are willing to work a few hours each week towards the production of this newspaper, and particularly if you are an engineering upper-classman, we invite you come up to our office (335 Finley) or leave your name and phone number in the TECH NEWS mailbox in 152 Finley.

Careers

Copies of the "College Placement Annual" and "Careers for the College Man — 1965" are now available free of charge to all seniors. Pick up your copies of these publications in the Placement Office, 428F.

Job Hiring Situation Maintains High Level

By RICHARD ROSENFELD

The last two weeks have seen the continued success of the January Engineering graduates in impressing on-campus recruiters. Mr. Charles Meyer of the City College Placement Office reported that the number of plant trips offered to this date has been exceptionally large. I.B.M. has invited over 60 students to visit their plants and Sikorsky has also offered a great many invitations.

The success of the class is attributed to the high quality of the students. Almost without exception they have made excellent use of the advice given them in job orientation sessions. They are well informed, neat and highly qualified.

Job recruiters have been very impressed. Several have mentioned that they are changing their hiring plans due to the number of exceptional graduates on the City College campus.

The only discordant note struck in the report on hiring was that because of the high quality of this term's class, June graduates will have difficult going. June

grads generally find the competition stiffer than their January counterparts because of the greater number of job seekers. In addition, this year they will be following an exceptional group, and will have to meet the high standards that will be expected of them. Mr. Meyer suggests that June grads pay particular attention to their job orientation sessions. The first of these sessions for engineering and science students will be held Thursday, December 10, at noon in Townsend Harris Auditorium. Further information can be obtained at the Placement Office, Room 428 Finley Center.

City College Backlash

Carl Weitzman is a long-time member of Student Council. He is, and has been, a leading advocate of the "conservative" philosophy of Student Government. The following analysis of S.G. was written by Mr. Weitzman at the request of Tech News.

By CARL WEITZMAN

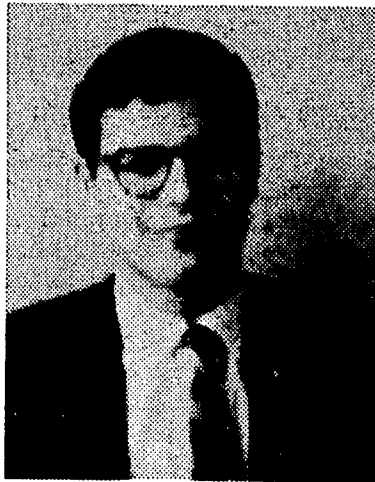
On Tuesday, November 3, Lyndon Johnson built himself the strongest liberal majority in seven presidential terms. On Wednesday, November 4, John Zippert's liberal majority, the strongest in seven terms of SG, crumbled. It didn't collapse, mind you—the pieces are still standing. But it absorbed several body blows.

A brief history: In September 1964, John Zippert assumed office with an imposing majority comprising his own party and part of the small Katkin minority. Council immediately set about chewing on the "liberal conservative" issue of "students as students." This issue, simply stated, is that of Student Council's authority. The question posed is whether Council has the constitutionally delegated authority to mandate the Union of the Soviet Socialist Republics to be kind to Jews or, to mandate the United States Government to end the draft. "Conservatives," defined in the parochial Student Government sense, doubt that Council has the above authority. "Liberals" maintain that since City College education is a learning and questioning process, City College Council members have a moral obligation to teach and to answer.

In September, Council legislated a mandate to President Gallagher to support school busing.

His replies were ambivalent. In October Council legislated its concern for Society Jewry. Some observers see a casual link between this motion and Khrushchev's subsequent fall from power.

After what became known as the "Jewish Motion," a member of Council put forth motion condemning Israel for persecution of Arab refugees. Its purpose, stated the author, was to parody Coun-



John Zippert

cil's world-wide concerns. Campus newspapers called it a sick joke; but not John Zippert. Council merely changed the resolution to an endorsement of a seminar on Arab-Israeli relations.

At the end of October, Student Council threw its prestige behind the "Fast for Freedom," a project with the aim of encouraging students to forego a meal in order to be able to make a contribution to the National Student Association's food drive for indigents in the South. Whether this motion has caused sufficient indigestion among City College students for it to succeed has not yet been determined.

(It must be noted that in all these battles the vote was overwhelming; usually four to one in favor of the "Liberals.")

Then came a fateful day in November. John Zippert submitted a motion establishing a committee to study and make appropriate recommendations to the President of the United States on the draft. Something strange hit Student Council. One executive officer who had always voted the liberal line later remarked "John's gone soft in the head." The motion was barely allowed to come to the floor. Heated debate ensued during which Chairman Zippert turned to Vice-President Joel Cooper and screamed "that's a lot of ?\$%&!%." After much personal abuse from both sides, the really unthinkable happened. Council wrenched the heart of the motion from its humanitarian mother, and when the final, watered down motion came to a vote, even it failed to pass. After a flurry of vote changes, it remained defeated by three votes — and all before suppertime.

After supper council reconvened, feeling a bit stronger, to face its next "students as students" test. It had never yet faced two of them in one night. The motion was to bind Student Council to its own moral dictates by having it fast for freedom on November 18.

A howling hour of debate turned this "freedom for hunger" resolution into a "pledge" mandating "liberal" Lynda Lubar to collect twenty dollars for the cause. That was the first comic relief on the evening.

Having crushed the Board of Education, the State of Alabama and the Kremlin, City College's

(Continued on Page 4)

Psych. Dept. Hoaxed By Design

A new breed of animal has been seen in the basement of Harris during the past few weeks. and has the Psychology department really going wild. It seems a new testing facility has been set up in HO19 by the Psychology department to deal with the problem. The breed can be seen walking through the tunnel leading to HO25 and even down into HO1 in the sub-basement. This reporter hearing of these strange happenings investigated. After lying low for a few hours a prime specimen appeared. It carried a huge black bag at its side from which protruded a long stick. It entered the tunnel and disappeared into the darkness. Moments later a similar specimen appeared, carrying a strange substance made of orange material at its side. It too entered the tunnel and disappeared. Was this to be the beginning of some invasion?

It warranted further investigation and I thus proceeded into the tunnel. It was dark but I found my way and thus determined the nature of the strange breed. It truly was an invasion, but a harmless one, for it was only the architectural students who have taken over HO25 as a new design studio. Forty new drafting tables stand in straight rows ready to be used for preparing the future designs with which they will rebuild our surroundings. They wish to set forth on a path of architectural quality described by Adas Louise Huxtable as one of, "suitability of content, thoughtfulness and conscientiousness of design, fineness of detailing, and superiority of materials and execution."



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Council Evaluated

Student Council has regressed by stages this term until now it is at an infantile level, where name-calling is commonplace and parliamentary procedure unheard of. The seeds of destruction were sown when Council first began consideration of matters that had little or no relevance for City College. Despite criticism from within Council and much editorial chiding by the City College newspapers, Council continued upon its course, until now it has reached a seeming nadir of productivity.

Guiding council all the while has been Student Government President John Zippert. It is he who is primarily responsible for the present state of affairs. Throughout the term Zippert has shown a total lack of respect for Student Council. He has taken actions, as in the CUNY anti-tuition drive, without consultation and otherwise has bullied Council into following his line. The result is that Council now shows no respect for Zippert, and has rebelled against his autocratic rule.

To his credit John Zippert has a series of irrelevant motions, a completely ineffectual tuition campaign, and a Council in ruins. Not all of this can be attributed to Zippert alone. Members of Council have acted in an immature fashion and have suggested many of the motions with which they have then wasted so much of their time. Zippert's failure has been his inability to give Council direction.

Under the old constitutional system, Student Government changed presidents every term. Now the president serves for an entire year. We wonder at the wisdom of those who piloted the passage of this amendment. Zippert will have to grow in his job, or Student Government at City College may be irreparably damaged. Another unwritten, but highly regarded tradition in student politics was the election of seniors only to the S.G. Presidency. We believe this tradition well-founded. John Zippert is a junior.

The present situation in Council cannot be allowed to continue. Either Zippert must reassert his leadership by mature action, or it will be seized by another member more highly regarded by Council. This would be unfortunate, since the powers and functions of the S.G. President make him the ideal man to hold the position of leadership.

John Zippert is not a fool; nor is he incompetent. Prior to assuming his high office he had an outstanding record as a member of Council. His failure thus far, we believe, is due to his attitude towards Council, and his misunderstanding of his role as President. More than seven months remain for Zippert to prove himself. He is fortunate: no other President has been given the opportunity to correct himself after a misspent term. We hope he will use this time to the best advantage of Council and City College.

Inquiring Technographer

By PHIL BURTON

QUESTION: Do you think engineers should be required to study a foreign language?

PLACE ASKED: Steinman Hall. Mike Lewis, Lower Soph, History. I don't think engineers should be required to study a foreign language since introductory courses stress memorization and provide the student with only a survey of basic grammar rules. In order to benefit from a language study, it is necessary to be proficient in reading the literature of another country so that one may be in a position to contrast another culture with his own.



Lewis

Nelson

James Nelson, Lower Senior, Chemistry. Although a college student should have a well-rounded education, the present engineering courses are quite difficult as it stands and unless the curriculum could be extended, language study is impossible. I don't think it would be fair to add this burden to engineering students.

Mike Senansky, Upper Senior, Civil Engineering. My idea is that it is a very time-consuming course for an engineer but it's extremely useful on a graduate level. In particular, a knowledge of German and Russian for reading advance publications is necessary due to the fact that you lose something in the translation of engineering articles. Most of the grad schools require a language as necessary for a Ph.D.



Senansky

Federman

Fran Federman, Lower Freshman, Psychology. Yes, I think it's important for everyone to learn a foreign language. Even though the engineering students have it pretty tough, I don't think they should ignore a foreign language. Isn't the purpose of college to make us into well-rounded adults? After all, there are harder majors than engineering, like physics, which do require a foreign language.



Progker

Greenberg

Leo Progker, Upper Senior, Physics. No, definitely not. An engineer's time can be put to much better use studying technical subjects. Leave the languages to the language majors. As a physics major, I had to take French,

VECTOR PUZZLE CORRECTION

The editors of the C.C.N.Y. VECTOR engineering magazine would like to apologize for the error in problem 2 of Vector Volts. The system of equations is as follows:

$$\begin{aligned}x + y + z + w &= 10 \\x^2 + y^2 + z^2 + w^2 &= 30 \\x^3 + y^3 + z^3 + w^3 &= 100 \\xyzw &= 24\end{aligned}$$

which to me was of no practical value.

Jane Greenberg, Lower Freshman, Pre-med. Yes. Knowledge of a foreign language helps us to round our personality. If we study a foreign language, we gain insight into another culture and way of life. Engineers as well as other students can benefit from this. However, due to the difficult programs that engineers already carry, I think that their language requirement should be of a less demanding nature.

Art Exhibit Open

The City College Finley Student Center Planning Board and the Faculty Wives Club are sponsors of an art exhibit featuring the work of Mrs. Naomi Argo. Wife of retired Professor Virgil Argo of the City College biology department, Mrs. Argo has exhibited at the Knickerbocker Art Club, the Spring 1964 Barnard Club Exhibit and a one-man show at Riverside Church last April. The exhibit will be on display from November 17 to the 30th in the lounges of the College's Finley Student Center, 133rd Street at Convent Avenue. On Tuesday, November 17, a tea was held in the lounges from 3:00 to 6:00 p.m. to open the exhibit of 20 oil paintings and 35 water colors.

ELECTRICAL ENGINEERS PHYSICISTS MATHEMATICIANS

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on campus

November 23

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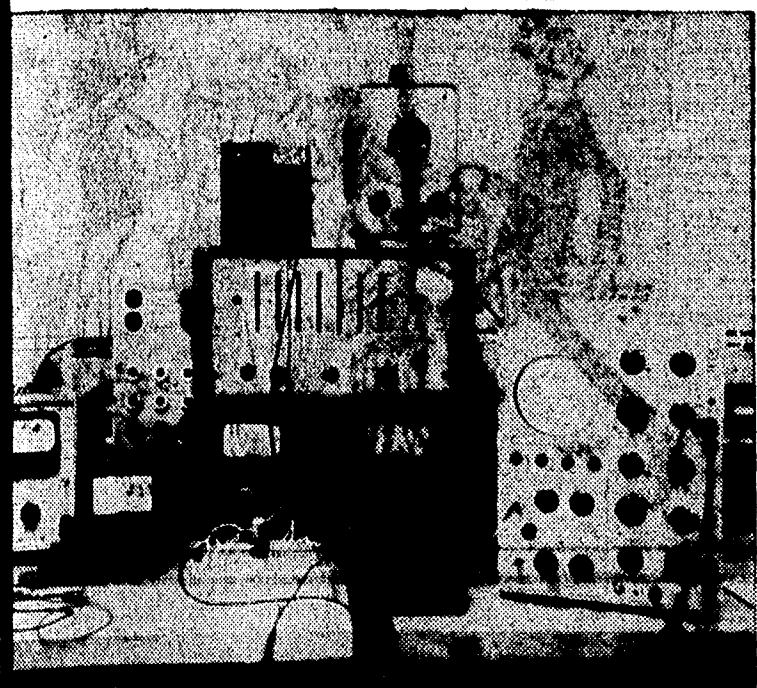
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New Equipment Furthers Research In E.E. Dept. Work Being Done In Diversified Areas



MEASUREMENTS LAB: bread board of oscillator being developed.

By JOSEPH BOCK

The Electrical Engineering Department has constantly been acquiring new equipment in order to keep its laboratories up to date. Both in general purpose equipment for undergraduate work, and in special equipment for research work, the facilities at the College are relatively extensive.

The measurements Laboratory, which is devoted to the making of measurements on materials and components, including vacuum tube thermionic diodes and semiconductor junction transistors, to a high degree of resolution, employs the latest equipment available. Practically all the general purpose hardware such as oscilloscopes, AC and DC bridges, oscillators are new. In addition to electrical measurements, provision is made for testing optical characteristics of components.

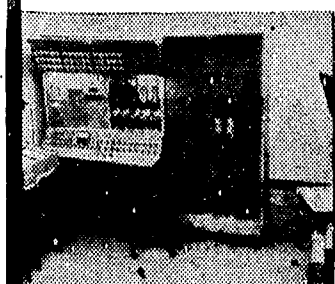
Of particular interest is the Standards Room. The latest and most expensive secondary calibration equipment is available and is used to calibrate all the electrical equipment in the department. A general purpose calibrator is used to calibrate the various meters involved in electrical work.

Apparatus is available for doing systems work in the fields of radio and acoustics. For the latter, a special acoustical chamber has been built which is vibration free and mechanically isolated from the rest of the building.

Of primary importance to research work, the TR701 Analog computer is used to simulate problems involving high order non-linear differential equations. In the past the computer was used to simulate models for obtaining storage time of a transistor, designing a non-linear control system and for analysis of electromechanical systems. In the future the computer will be used in many diversified areas such as analysis of optimal control of jet trajectories.

The computer is located in a special air conditioned room with a large amount of accessory equipment.

The Power Lab is constantly being modernized in order to make experimental work more reliable. New modern dynamometers have been added with central control panels that save students the shaft and a speed control panel. In addition to all types of transformers and motor-generator sets, completely wired up half and full wave rectifier magnetic amplifiers as well as synchro transmitters are available.



701 ANALOG COMPUTER

is the job of wiring up DC circuits. In one compact unit it contains loading resistors, field coils and meters to measure armature voltage and current. A DC machine has been added with stroboscope mountings on

Steinman Hall about \$125,000 was spent on new apparatus for the Communications Lab. The lab has been constantly modernizing their chassis to solid state form while being careful to maintain thermionic devices in their proper place.

Many new setups have been built by the laboratory technicians in order to eliminate so-called "Round Robin" experiments. Enough equipment is available for students to set up original communications experiments at the undergraduate level. For instance, students do original filter synthesis work and are able to build and test their designs in the lab.

Recently \$12,000 has been acquired by the Communications Lab from the College and the National Science Foundation in order to set up a facility for performing experiments in physical electronics and fabrication of semiconductor devices.

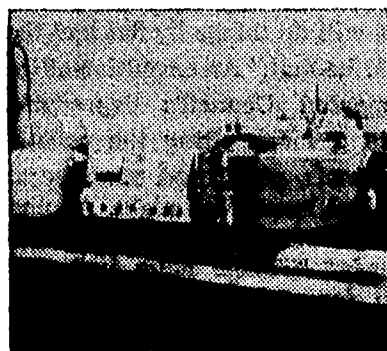
Special facilities are available for work on laser beams. At the present time a study is being made of the propagation of electromagnetic waves in non-linear media. This is done by reflection of transverse laser light through optic crystals from which the non-linear waves are caught by a camera.

The Servomechanisms Lab has five "type one" servo setups that can be used to study feedback control systems in all their aspects. For use in this area the lab has several servoscopes costing about \$2,000 apiece. The servoscope, used in conjunction with a high persistent screen oscilloscope, is an extremely self-contained device and eliminates the use of a lot of cumbersome equipment.

In addition to setups of various types of control systems, such as voltage regulators, the Servo Lab

has two small general purpose analog computers as well as a special purpose AC resolver computer that can be used for various angle solving problems.

A special research lab has been set up to study speech patterns.



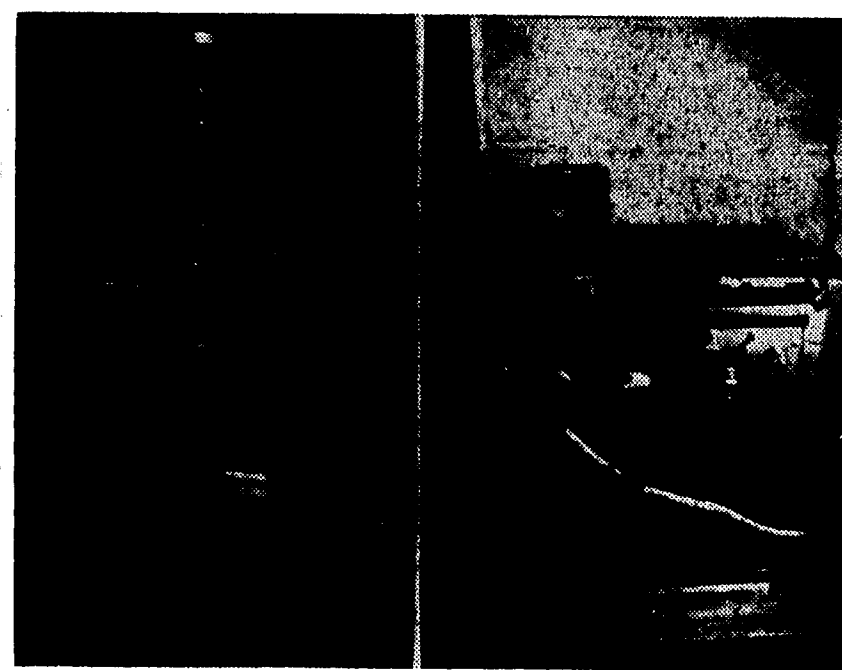
SONOGRAPH

Essentially this lab works on a data acquisitions system. At the present time a digital tape on which binary data can be placed at a rate of 15,000 bits of infor-

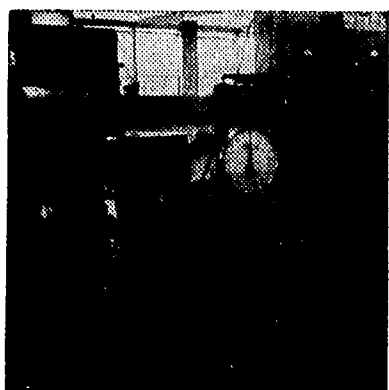
mation per second and a sonograph which gives an instantaneous speech spectrum of the spoken word are in use. An analog to digital converter is to be obtained in the very near future.

Another advanced research lab investigates plasma operations. This is done by sending an electron beam through neutral hydrogen. The electron beam ionizes the hydrogen and produces a plasma. The whole system is immersed in a magnetic field and any oscillations that occur in the plasma are coupled to the electron beam which is then detected. The object is to develop a technique for using the electron beam as a probe for oscillations or instabilities in a plasma. A new vacuum pump was purchased for the plasma work.

In addition to the laboratory facilities, the Department can use City College's I.B.M. 7040 digital computer.



LASER BEAM SETUP: right; VACUUM PUMP FOR PLASMA RESEARCH: left.



NEW DYNAMOMETER SETUP IN POWER LAB

Electricity is drawn from a huge power panel board which contains both AC and DC main and auxiliary circuit breakers as well as various transfer lines which make it very versatile. In addition the impressive board contains a frequency controlled supply for special work.

A special shop is maintained by the lab. A vertical milling machine is used for repairing machines and for building equipment for graduate work. The back section of the lab is presently being cleared in order to make room for a new power research center.

When the Electrical Engineering facilities were moved into

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Raymond . . . Backlash . . .

(Continued from Page 1)

thing else. However, the kid that doesn't move with the campus movement will be trampled."

The Pretzel Man feels that there has been a basic change in the personality of the City College student over the years that he has been here. "The attitude has changed from one of maturity to one of relaxation. The students don't know responsibility as much as they did twelve years ago."

Raymond was born in Coney Island and he is quick to remark that he wants Tech students to know that he has a technical background. "I had sheet metal schooling, and during the war years I worked in defense." He got into the pretzel line when he wanted to help a nephew who



Raymond

was handicapped, and found out about someone selling pretzels at Brooklyn College. Then he saw what promise there was in the business he decided to go into it himself.

Raymond has a real interest in sports on campus. "Since the Michael Schaffer incident I have noticed somewhere in the silent movement of the students that they want to come out and play for City. There is a current among the alumni, fraternities, and house plans to put City College back on the sports map."

One of his pet interests is the blood bank. "I am looking forward to being a blood bank donor, and I think all Tech students should give blood."

Many school papers have written about Raymond in the past. "Main Events wrote the best story about me. Some papers have goof stories. Some stories said that I was prejudiced against people that weren't Hebrew. I don't discriminate."

As for politics, Raymond had this to say. "I've been a democrat all my life. Goldwater is a sick man for the country. His physical make-up is incapable of coping with world problems."

The pretzel man is very thankful for the cooperation he has gotten from the administration, students, and employees of the college. (Although there's a certain cop that's been getting on his nerves lately.) "The campus has been good to me. Anytime any organization feels they want me to wear their pin, all they have to do is ask."

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(Continued from Page 1)

Student Council now turned its sights on Puerto Rico. Puerto Rico, the motion alleged, was unkind to its students. This one didn't even get to the floor for debate.

In the aftermath John Zippert lectured his Council. "I just can't trust Council. Executive Committee will do things by fiat and that will be that." An executive officer lamented Council's degredation into a farm, citing the calls of "animals, pigs," and other beasts he had heard that night. Another Councilman described the debacle thusly: "Things have just gone too far. John started this, and

now he ought to stop it." A liberal said, "We still have a majority. I was elected on Katkin's slate and I despise Zippert more than ever. I've never brought one of these motions up and I never will, but I usually vote with him."

This writer's analysis is that the push has been too hard and now John Zippert has his own "liberal backlash."

Students may watch Council perform by coming to Finley 121 on Wednesdays at 4:00 p.m. Engineers in particular should come—if they want to confirm their apathy and justify their aversion to S.G. elections.



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