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CITY COLLEGE OF NEW YORK

VOL. XXI — NO. 2

WEDNESDAY, OCTOBER 7, 1964

STUDENT FEES

Tutoring Program Aimed At Frosh

By FRANCINE COURNOIS

A program of free tutoring for engineering students is being co-ordinated by Dean John R. White (Engineering and Architecture) and representatives of the various engineering honor societies: Tau Beta Pi, Eta Kappa Nu (EE) Pi Tau Sigma (ME), Chi Epsilon (CE), and Alpha Chi Epsilon (Chem. E).

According to Dean White, "The purpose of tutoring at this level is to help students as soon as they get into trouble. If they see the light early they won't need help later on."

The program is aimed particularly at freshman.

The tutoring service is designed to give assistance in such basic courses as Math 1, 2, 3, 7, 8 and Physics 7, 8. Most tutoring will be given on an individual basis. If there are a very large number of applicants, as is highly probable, it may also be necessary to set up classes with student teachers.

Most of the honor societies offer tutoring in their own specific fields. In the past, however, Eta Kappa Nu has undertaken most of the tutoring offered on a pre-engineering level, with some assistance from Tau Beta Pi. Now the demand for this kind of tutoring has become too great for these two societies to handle alone.

According to Dean White, "Last fall, those students who applied for tutoring after the first month of school had to be turned away.



Dean White

There were not enough people to fulfill all the tutoring requests we received."

An application form will be set up and a student requesting assistance may fill out the form, listing his free hours. A member of one of the societies, whose free time coincides with the student's will then be able to help him.

OPPORTUNITIES

for participation in a comprehensive orientation and leadership training program are available immediately to qualified students. If you are interested in this broad-gage personal development program contact Dr. John D. Hickey, 119F IMMEDIATELY

June Marks First Chem.E. Doctorate

The first Doctorate Degree in Chemical Engineering in the history of City College will be conferred this June. The granting of this degree will mark the fruition of a program designed to make City College a university in fact as well as name.

The doctoral program, under the supervision of Department Chairman Schmidt now boasts 20 students in full time residence. Of these, 16 are financially supported by various groups including the National Science Foundation. To provide for the students, the staff of Professor Schmidt's department has taken on additional teachers, laboratory technicians and office personnel.

Professor Schmidt views the program with great enthusiasm and optimism. He is particularly pleased with the fine group of students who are both City College graduates and graduates from other schools.

The Doctoral program of the Chemical Engineering Department is considered to be progressing at an excellent rate.

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 October 31st. 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 and Architecture for service to the College and the community. This award was established by the Engineering Alumni in memory of Professor Marlies.



Prof. Jiji

and the University of Michigan, obtaining his Ph.D. at the latter school. This term Dr. Jiji is teaching M.E. 102 (Gas Dynamics) and an advanced heat transfer course. He came to C.C.N.Y. "because I

(Continued on Page 2)

Soviet Anti-Semitism Debated In Council

By RICHARD ROSENFELD

A motion pledging co-sponsorship of a rally to protest the persecution of Jews in the Soviet Union comes before Student Council this afternoon. The proposal, originally made by Reuben Margules, '67, has been altered by a four man committee.

The purpose of the motion according to Margules is to speak out in behalf of those in the U.S.S.R. who cannot speak for themselves. He said, "It is a moral issue that everyone is concerned about."

Most of those who oppose the motion do so on constitutional grounds. Many feel that condemnation of Soviet anti-Semitism is not within the purview of Student Government. Margules defends his stand by stating that "a moral issue can't be interpreted within the strict confines of constitutional wording." Despite his arguments the motion has been significantly changed from its original form, to make it more palatable to those who favor a stricter interpretation of the S.G. Constitution.

The proposed action is related to activities on other campuses

across the nation. Mr. Margules has been in touch with members of the Student Struggle for Soviet Jewry. He feels that by combined effort the goals of this organization can be reached.

The motion reads as follows: Whereas Student Council decries the persecution of religious or racial minorities in any country,

Whereas Student Council is concerned about the persecution of Jews in the U.S.S.R., and

Whereas it is the policy of Student Council to encourage students and campus organizations to take an active interest in national and international affairs,

Therefore be it resolved that Student Council endorses and announces its cosponsorship of Hill-el's November 12th program protesting persecution of Jews in the U.S.S.R.

Students Win Prize For Shelter Design

By ENOCH LIPSON

Last spring seven architecture students—Paul Benowitz, Donald Dixon, Secundino Fernandez, Barry Leitner, Enoch Lipson, Ernest Naples, and Arthur Jay Wexler, and their design instructor, Mr. Hanford Yang, entered a design competition sponsored by the Office of Civil Defense, Department of Defense. Their design won a third prize of five hundred dollars in the highly competitive region comprised of New York State and surrounding areas. Notification of the award was made late last term and Mr. Yang and his group expect publication of their work in the na-

tional architectural magazines. The problem was to design a community shopping center incorporating fallout shelter as dual purpose space. The City College group chose a Westchester County site which sloped gently up from the surrounding roads. Their structures were therefore easily visible from a limited access highway on one side, and secondary roads on the other two sides.

Two level parking was one of the major design elements. This was based on three considerations. One, the distance from the

(Continued on Page 2)

M.E. Department Gains New Profs

The Mechanical Engineering Department has taken on several new instructors this term. This article is the first of a series which will present profiles of the new faculty members from all departments.

PROF. HEIDELKLANG

Dr. Heidelberg is an Associate Professor in the Mechanical Engineering department. He received his Bachelor's (1959) Master's (1961), and Ph.D. (1964) degrees from M.I.T. He is currently teach-



Prof. Heidelberg

ing the Metallurgy sequence, M.E. 103 and 113, in addition to M.E. 101.

Dr. Heidelberg plans to stay at C.C.N.Y. and acquire tenure. He is originally from New York and prefers to teach in New York. He is not married.

PROF. JIJI

Dr. Jiji is an Associate Professor in the Mechanical Engineering department. Having received his Bachelor's degree from M.I.T. in 1952, he did graduate work at Carnegie Institute of Technology



L. to r.: Arthur Wexler, Enoch Lipson, Ernest Naples, Secundino Fernandez, Prof. Hanford Yang, Paul Benowitz, Barry Leitner



TECH NEWS

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Editorial Policy of TECH NEWS is determined by a majority vote of the Editorial Board.

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MAIL DEPARTMENT LETTERS

Dear Sir:

The deceptive manipulation of Student Council by President John Zippert may have irreparably crippled the tuition effort of City College. Without prior consultation of Student Council, although he had two weeks to do so, Mr. Zippert agreed to commit City College students to a futile and admittedly "negative" campaign against certain Republicans, without working positively for the candidates who support Free Tuition.

In spite of many tactical reservations, Council had to accept this fait accompli, after having been told that modification or rejection would probably "sink" the campaign. What was even worse, Mr. Zippert refused to support the only Republican legislator in the state to support free tuition, Mr. Alfred Lerner (R.-Queens), having incurred the tacit opposition of the Queens Republican Party, and therefore the uncertainty of re-election, he can be properly grateful for this stab in the back.

Carl Weitman,
Council, '65

Free Subscriptions

The McGraw-Hill Engineering Digest, edited for engineering college students, is conducting a Senior Program in selected colleges and universities. City College has been selected to participate.

The program will make it possible for all engineering seniors and full-time graduate students at this school to receive a full academic year's subscription to the publication without charge beginning with the October issue.

To qualify you must be a senior or full-time graduate student studying some field of engineering.

Forms are available in Dean White's office, 205 Administration.

Prize...

(Continued from Page 1)

furthest parked car to a pedestrian entrance to the center was kept short. Two, the acreage of auto covered land was low. And three, the underground parking area became an excellent shelter providing space for the requested maximum of seventeen thousand persons. The automobile would not only provide them with transportation along familiar routes to the shelter, but once decontaminated and within, the cars would be basic units for the subdivision of large groups.

All stores were placed around a two level central court. The first level was entered from the above ground parking area, and the bottom level with its central court garden from the underground parking-shelter area. The department and variety stores (required by the program) were located far from the entrances, thereby forcing the shopper to pass by the smaller units. Many of these would depend on impulse buying for their success. Evening activities, such as the theater and bowling alley were at the ends of the Center, where they could be reached without passing the deserted stores.

Inquiring Technographer

QUESTION: Most working engineers are draft-deferred. Do you think this is fair?

PLACES TAKEN: Finley Hall and Cohen Library.

MARTY ABRAMSON, Upper Senior, EE. The matter is not one of fairness but one of necessity. Young engineers are needed for defense work because their up-to-date knowledge is needed in the field.



Marty Abramson Arthur Dobrin

ARTHUR DOBRIN, Upper Senior, History. No. I think that draft deferments for any reason are inequitable. There are two solutions: Everyone gets drafted or no draft.

JULIE STEELMAN, Graduate Student, Psychology. I feel that deferment is fair since the draft is going to be eliminated anyway. But in time of war, the engineers would be drafted.



Julie Steelman Alana Collos

ALANA COLLOS, Upper Senior, English. Engineers should be draft-exempt because they have spent enough time poring over their courses and should be allowed to start working immediately.

BOB LAUWYER, Lower Senior, Political Science. Unless working in an area that is particularly strategic at a particular time, they should be subjected to the same obligations as other citizens.



Bob Lauwyer Linda Krantstein

LINDA KRANTSTEIN, Upper Junior, Education. I think that they should be draft-deferred because I am engaged to an engineer. If he takes two years off he can't make \$30,000/year by the time he is thirty.

M.E. Profs

(Continued from Page 1)

heard we have very good students here, and it has been confirmed after my first lecture."

Dr. Jiji plans to stay at C.C.N.Y. and acquire tenure in the Mechanical Engineering Department. He is married and has two children.

MR. WOLFE

Mr. Wolfe is a lecturer in the Mechanical Engineering department. He holds a Bachelor's (1950) and Master's (1953) degree from Columbia University. He is currently

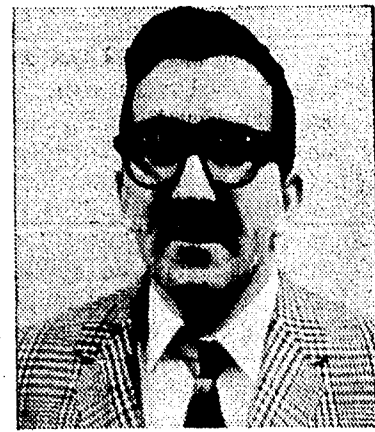


Prof. Wolfe

currently studying for a Sc.D. at Columbia University in Industrial Engineering. Mr. Wolfe is teaching M.E. 100 and M.E. 108 this semester.

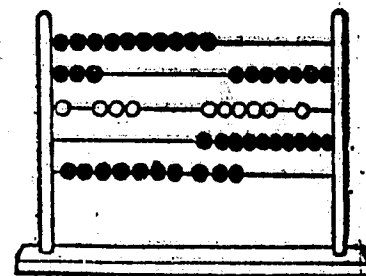
MR. YANOWITZ

Mr. Yanowitz is a lecturer in the Mechanical Engineering department. He received his Bachelor's degree in Chemical Engineering



Prof. Yanowitz

in 1951, and his Master's Degree in Chemical Engineering after serving with the Army, in 1958. He is currently studying for his Ph.D., hoping to obtain it at the end of this semester. His major fields of study are Heat Transfer and Fluid Flow. Mr. Yanowitz is currently teaching M.E. 101 and 102.



Tech Council

The first meeting of Tech Council had to be canceled due to the failure of members to attend. This continuing proof of student apathy is to say the least, disheartening. Tech Council, which is made up of representatives from all Tech organizations speaks for the Tech students of City College. Student Government and Student Council are South Campus oriented and seem to take notice of Tech Students only at election time. Therefore if the Tech Students are to have any voice in the school it will be through Tech Council.

Tech Council is responsible for promoting E Day, which in turn furthers student-industry relations. Tech Council also arranges for student-faculty teas which allow students to become closer with their professors, and develop relationships that will be helpful when recommendations are needed.

It is the responsibility of Tech organizations to send representatives to Tech Council. A strong Council means a strong voice for the Tech School. The next meeting of Tech Council will be held on Tuesday, October 13, at 5 P.M. in room 337 Finley.

M.E.'S ONLY

A. M. E. invites you to

OPEN HOUSE NOW — Oct. 16

SMOKER — Oct. 9 — 8:30

501 West 138th Street

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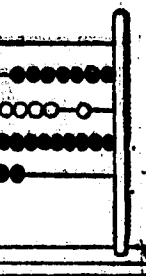


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 Call Me Irresponsible

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Rhapsody In Blue

11. BAEZ

1st Album
 2nd Album
 1st Concert
 2nd Concert

12. SIMONE

Town Hall
 Newport
 Forbidden

13. MANCINI

Pink Panther

14. Tchaikovsky

Violin Concerto (Heifetz)

15. MAHLER

Symphony Number 1 (Leinsdorf)

16. RACHMANINOFF

Piano Concerto (Rubinstein)

17. EARL GRANT

Ebb Tide, Beyond the Reef

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Evenings — Monday, Wednesday and Thursday — 5:30-8:45 P.M.

Book Review

Optoelectronic Devices and Circuits by Samuel Weber, Senior Editor, *Electronics*. 358 pages plus index; 480 illustrations; 8 3/4 x 11; McGraw-Hill; \$15.00. Publication date: September 1964.

"Optoelectronic Devices and Circuits," a compilation of 98 articles, deals with the subject of light and its application to electronic circuits and systems. It provides a background in optical techniques for the practicing engineer and presents examples of circuits and systems which have been tried and proven in a variety of applications.

Included in the 12 chapters of the book is data on the latest devices in optoelectronics, i.e. the use of light-emitting diodes, and all types of lasers, fiber optics, and electroluminescent devices. The main body of the book is supplemented by an Appendix composed of letters and comments on the various articles.

Chapter 1 provides a basic grounding in optics, fundamentals of fiber optics, and an understanding of how the major types of lasers work. Chapter 2, a series of articles describing system applications of lasers and general design considerations necessary to implement them, gives examples of actual circuits and some graphic design aids for lasers. Examples of devices and circuits used in the generation, modulation, and detection of light for point-to-point communications are presented in Chapter 3. Military and space applications are covered in Chapter 4.

The specific application of infrared to a wide variety of functions is the subject of Chapter 5. Chapter 6-12 are: Display Systems — discusses modern display systems utilizing the phenomenon of electroluminescence and describes some unusual approaches to the realization of three-dimensional displays; Pattern Recognition — how optoelectronic devices and circuits may be used to duplicate the human sense of sight and recognition; Computers and Digital Applications — how optoelectronics may be applied to the computer functions of data storage, switching, and counting, and includes a speculative article on prospects for an all-optical computer; Industrial Applications — how optoelectronics may be used for control in a variety of industrial processes; Instrumentation — how light and electronics combined can provide versatility and utility in sophisticated measurement problem; New Concepts in Television; and Unconventional Optoelectronic Devices.

Samuel Deber is Senior Editor of *Electronics* Magazine and has been on the magazine's staff since January 1958. He was an electronic design engineer with U.S. Naval Material Laboratory, Watson Elevator Company, Prodelin, Inc., and Curtiss-Wright Corporation. Weber is the author of the recent McGraw-Hill book, "Modern Digital Circuits," and he has authored numerous articles, and special reports on electronics for *Electronics* Magazine.

Further information on Weber's "Optoelectronic Devices and Circuits" may be obtained from the McGraw-Hill Book Information Service, 327 West 41st Street, New York, New York 10036.

Club Notes

RAILROAD CLUB

Will meet Thursday at 12:30 to plan its October 11 trip to the World's Fair.

SOCIETY OF AMERICAN MILITARY ENGINEERS

All ROTC Cadets are invited to the smoker Friday, October 9, at 8 p.m. at 467 West 143 St.

YOUNG CONSERVATIVE CLUB

The Young Conservative Club will hold its organizational meeting Oct. 8 in 113 T. Harris at 12:30.

On Oct. 9 in 350 Finley there will be a party for new and old members and Mr. J. St. John will speak on "The Case for Gold-water." Enemies invited.

Programming Lectures

This semester, General Computer Programming Lectures will again be offered by the College according to the following schedule:

Section	Room	Start Date	Time
B	S306	October 22 — Thursday	4:00 P.M.
C	T123	November 18 — Wednesday	6:00 P.M.
D	S306	November 23 — Monday	4:00 P.M.

The lectures run for five weeks from the start date and will last about 2 hours each. Students wishing to attend must register with Mrs. Walters in Room T4. Registration is open to all students.

ECONOMICS SOCIETY

Presents Professor Joseph Taffet speaking on Graduate Opportunities on Thursday, October 8, at 12:30 in Wagner 107. All are welcome.

TECH NEWS

Tech News will meet Thursday at 12:30 p.m. in room 335 Finley Center.

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TECH NEWS

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Scientific and technical opportunities exist at all degree levels in activities that include RESEARCH, DESIGN, DEVELOPMENT, TEST, COMPUTER PROGRAMMING, RELIABILITY, and ADMINISTRATION.

For General Dynamics/Astronautics career information, see your placement officer and watch for campus interview schedules, or write to Mr. B. L. Dobler, Chief of Professional Placement and Personnel, Dept. 130-90, General Dynamics/Astronautics, 5898 Kearny Villa Road, San Diego, California 92112. An Equal Opportunity Employer.

GENERAL DYNAMICS | ASTRONAUTICS

We Will Visit Your Campus October 19, 20

VOL. XXI —

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The purpo to train adv ents of eng ral science techniques o to establish these potent most institut Students program lea bout June week perio AESTE ch oes directl s \$300 a ro e paid for student mu onal trans