

harmonize,
ilding does
y to one ot
s, the Admin
ut it seems
architect wo
gality is ma
y considerat
pansion of C
ot hope for
Certainly
but the phil

speedy ac-
Columbia,
this High-
feet wide,
peed, sta-
submerged
mics.

clude the
LARC, the
putting fa-
numerical
simulation
ulation of
ment prob-

g facility,
under any
High-Speed

a several
ersonic at
static sta-
scopeters,
dies also
ence when
ate prob-

RY facili-
ermit the
ull struc-
h vehicles
ics Labo-
res, and
onal Test
l Testing
and engi-
structure
enemy at-
tical ap-
engineering
ubstantial
ut at the
ratory lo-

was just
ships of
and under-
In hydro-
and signal
and vibra-
on instru-

pointed
es at The
aerody-
ons today
ship pro-
formance
environ-
ated pro-
ng recom-
research

are seek-
egrees in
or Struc-
ematics,

S
id
n-

nt



THE SCHOOL OF ENGINEERING AND ARCHITECTURE

THE TECH NEWS

CITY COLLEGE OF NEW YORK

VOL. XXI — NO. 11

THURSDAY, MARCH 18, 1965

STUDENT FEES

Gallagher Apologizes For Student Picketing

By LEONARD SOLOMON

President Buell G. Gallagher has sent a letter of apology to all of the companies involved in the picketing incident that took place on Wednesday, February 24. The pickets were protesting the presence of the Central Intelligence Agency interview in the placement office.

In this letter President Gallagher offered his "profound apologies," and also stated that ironically enough the picketing students were "demanding that a censorship be established over the freedom of students to be interviewed for employment." The pickets that President Gallagher referred to were from the Youth Against War and Facism.

These statements by the President were sparked by a letter sent to him by the Tech Council. The Tech Council letter pointed out that the resulting noise caused many interviewers from other firms to stop interviewing before the scheduled time.



President Buell G. Gallagher

had elapsed. The companies involved are the Interchemical Corp., Central Research Labs, Factory Mutual Engineering Div., Xerox Corp., Hughes Aircraft Co., Aeronautical Systems Div. of Wright-Patterson Air Force Base, and National Starch and Chemical Corp.

Apology to Tech Council

President Gallagher also sent another letter of apology to Tech Council explaining what he planned to do. In this letter he said that he would go to the General Faculty Committee on Student Activities, and to Student Government in order to review campus policies on such matters.

(Continued on Page 3)

S. G. Slates Formed

The prelude to the May elections begins next week. Two competing slates are expected to enter the fray. The "conservative" group is Campus First. Their emphasis will be on the problems of this, the City College Campus.

Their opposition with a more liberal outlook is the Involve-

ment slate. Their concern will be involvement in a more general range of topics.

The Campus First slate is generally associated with Carl Weitzman '65 an aspirant for the S.G. Presidency. The Involvement ticket is aligned with President John Zippert who has involved himself this term.

Architecture Students Win Reynolds Prize

By MARK BENDER

The Architecture Department announced the City College winner of the Reynolds Aluminum Prize for architectural students last week. The prize, awarded for the "best original design of a building component in aluminum," went to Frank Bachrach for his work in the Architecture 113 course. Runners up in the competition were Richard Jansen and Ira Bernson. Bachrach's winnings came to \$100 and Jansen and Bernson received \$50 each.

The students designed a gazebo, a shelter-like structure for public parks, under the guidance of Professor J. J. Deans, who taught the course. The winning entry, submitted on illustration board without a model, employed a tension roof system using triangular aluminum units.

The contest was entered by students of City College once before. The winner last time, George Sarantitis, won first prize in local competition, and went on to swamp opposition in a national contest, according to Prof. Deans. The contest is run once a year.

The three winning students this year are four year architecture



Winners of Architecture Prize 1. to r.) Richard Jansen, Frank Bachrach, Ira Bernson, and Prof. Deans.

majors working toward a Bachelor of Architecture degree.

Kauffman Will Seek Presidency

Martin Kauffman, Student Government Treasurer, has announced his candidacy for President. He is the second student to enter the race, Carl Weitzman having declared his candidacy two weeks ago.

Kauffman's platform will stress the anti-tuition fight, which he feels should be run on a positive premise and should involve increased election day activities. He is also concerned with seeing that students have a greater voice in the decision-making policies of the college.

Asked what he feels will be the big issue in the May elections, Kauffman stated it will be which slate can do a better job. "Any other issue will be trumped up."

On students as students, Kauffman believes S.G. should be result oriented. If action taken by S.G. cannot have any discernable affect, as in Vietnam, S.G. should not act.

The candidate hopes to see an expansion of social and extra curricular activities. Socially he suggested skating parties and theater parties to be organized by S.G. In the field of extra-curricular activities Kauffman will strive for greater involvement of Tech Council in several areas including S.G. course evaluation. He also feels that architects should be consulted when new buildings for City College are planned.

(Continued on Page 4)

New Lounge In Shepherd

A new student lounge will be opened shortly in room 035 of Shepherd Hall. Formerly used by the R.O.T.C. as a storeroom, it will soon be available for about seventy-five students. It is similar to Knittle Lounge but smaller. The size was restricted by room and door space. However, this addition to the lounging facilities on North Campus will alleviate the congestion in Knittle Lounge during the mid-day hours. Furnishings for the lounge will be supplied by the Student Life Department of City College.

The lounge is tied in with a large renovation project which was started last June under the direction of Mr. Kenneth Fleming, chairman of the Building and Maintenance Department. Mr. Fleming's office, which is presently in Harris Hall, will be taken over by the Psychology Department. Another room in the sub-basement of Shepherd Hall will be used by the Biology Department to house live animals. All changes were occasioned by the building of Steinman Hall.

— Altman

Vector Review

By HERB GELLER

The next issue of *Vector* on the College scene is probably the largest and most readable issue to appear in recent months. Included with the usual features, such as Vector Volts, Vector Analysis, and Engineering Highlights, are five feature-length articles of interest to most Science and Engineering Students.

Steve Neuman, Managing Editor of the Magazine, has written a very comprehensive and interesting article on "Dawn of the Space Age." A sequel to a series of space flight and rocketry articles presented in *Vector* a few years ago, this article enumerates and explain the progress since then. Included with this article is Rocket Score Sheet No. 4, which includes all of the Satellites launched from July 1961 to press time. This article is of general interest to all who follow our progress in Space Flight.

"Maxwell's Demon," an article by Israel Lieberman, explains how a method proposed by Maxwell to cause heating and cooling of a gas has been implemented into a device which functions by

removing low and high energy molecules from the gas. A difference of temperature of 35 degrees F has been obtained by the author through its use at City College.

An article explaining how electronic circuits are coupled though the use of light beams is included. "Optoelectronics: Coupling Electronic Circuits By Means of Lightbeams," by Eitan Frydman explains the need for, and the uses of this type of couplings, as compared with other types, such as inductive and capacitive.

"Optimum Combination" by Paul Bacal, explains the mathematics of a type of problem, in which a person must select a combination of events which will optimize one of its variables. This

article, which requires a minimal knowledge of mathematics, will come in handy for anyone who will work in the business or scientific community.

The author introduces the Simplex method of solving linear equations in terms of a geometrical figure, each of whose vertices represents on relative maximum or minimum solution and shows how to locate the point of absolute maximum or minimum. Easily adapted to a digital computer, this technique will be of interest to all who ever come in contact with linear equations.

A photo feature, with text by Professor John J. Deans of the Department of Architecture, is presented. Professor Deans comments on some of the better designs submitted for a centrally located Commons Building on the site of the present Klapper and Brett Halls. These designs were originally done for an Architecture class, and will be enjoyed by

(Continued on Page 4)



TECH NEWS

Office — 335 Finley

Phone: 234-6500

EDITORIAL BOARD

CO-EDITORS-IN-CHIEF

Richard Rosenfeld - Francine Cournos

BUSINESS EDITOR

Ellen Gottlieb

CIRCULATION MANAGER

Edward Smith

PHOTO EDITOR

Phil Burton

MANAGING EDITOR

Elaine Bogal

ASSOCIATE COLUMN EDITOR

Carl Weitzman

STAFF

Robert Bogursky
Enoch Lipson
Arthur Landesman
Mark Bender
Brian Cohen

Abe Snyder
Jeanette Altman
Susan Yellin
Mary Donowitz

CANDIDATES:

Leonard Solomon

William H. Wong

Faculty Advisor — Dr. John D. Hickey

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

Printed by: Boro Printing Co.
216 W. 18 Street

222

Letters To the Editor

To the Editor:

The reactionaries of City College are desperately trying to stop any further opposition on campus organized against reactionary agencies, in and out of the U.S. government, who seek to use college grounds for their criminal activities. The Central Intelligence Agency, two weeks ago, invaded the campus (no publicity about their arrival) and tried to parade itself, along with other corporations, as merely an "employer."

When Youth Against War & Fascism demonstrated its opposition to the cloak-and-dagger C.I.A., the right-wingers screamed, ironically, that corporation interviewers would prejudice their decision in hiring CCNY students as a result of the picket line. These hypocritical "freedom of the individual" preachers exposed themselves for what they really are by threatening the students that they would be black-listed by corporations if demonstrations on campus were to continue.

Tech-Council and their right-wing buddies are whipping up a witch-hunt in order to crush the progressive voices on campus. They would like to bring the F.B.I., the Birch Society, or the American Nazi Party on campus and suppress any organized opposition. But we will not be silent!

Youth Against War & Fascism will not allow the C.I.A. or any other organization to pass through the college to recruit saboteurs, assassins, and mercenaries for the purpose of subversion of legally elected governments throughout the world, without meeting firm resistance.

We call on all progressive-minded students to defend the rights of students and clubs to demonstrate opposition to the reactionary agencies whenever they show their faces on campus.

Alex Chernowitz, '68
Youth Against War
& Fascism

* * *

To the Editor:

I wish to protest the untrue allegations concerning this club which were made in the last issue of TECH NEWS. We definitely did not conduct any sort of counter-demonstration when we observed the Youth Against War & Fascism picketing against representatives of the C.I.A. Admittedly, some of the members (including myself) along with many other students observed this childish attempt for free publicity. It might have been ludicrously funny if not for its serious damage to our school's already trashed reputation among the responsible members of our society, both of the left and right. The callous disregard of these children for the rights of their fellow students seeking employment at any one of the many firms present at the aforementioned fiasco must be condemned. We wish that it be made clear to any that might have been misled by your erroneous report that this club would never have anything to do with such activities.

Laurence F. O'Neill,
President, Young
Conservative Club
C.C.N.Y.

Club Notes

GO

GO will meet at 12:15 in Harris 113. All GO players should come.

HILLEL

Hillel will present its annual "Purim Spiel." Hamatashen will be served. Everyone is welcome in the Hillel Lounge, 475 West 140 St.

Also: Hillel's Study Group, "Courtship and Marriage," will present Dr. Murray Kagel, psychoanalyst, speaking on "Love and Sex in Young Adulthood," on Friday, March 19, 11:00 A.M., in the Hillel Lounge.

STAMP & COIN CLUB

The Stamp and Coin Club will meet in 013 Harris this Thursday.

Give Blood!

Wilson Fellowships Awarded

Thirteen City College students have received Woodrow Wilson graduate fellowships for the 1965-66 academic year, the largest number ever awarded to students at the College.

Recipients receive tuition and fixed fees at the graduate school of their choice, plus \$1800 for living expenses.

The complete list follows:

Ethan J. Akin, Mathematics
John S. Blank, Philosophy
Walter W. Burford, Philosophy
Barbara E. Cohen, Russian Literature
David Diaz, Social Thought
Susan F. Fleischer, Exp. Psychology
Tikva S. Frymer, Assyriology
George A. Gauthier, Chinese History
Lauren S. Goldfarb, Philosophy
Michael Guttman, Physics
Christopher L. Hamlin, Anc. East History
Eleanor V. Nagler, History
Arnold G. Reinhold, Mathematics

Zippert No!

The failure of the proposed Student Government boycott is indicative not of student apathy, but of student awareness of the misdirected efforts of S.G. President John Zippert.

Zippert was handed "the most humiliating defeat of his Student Government career Friday night" because he has lost the confidence of the student body and student council.

Zippert's actions are presumably well intended and the goal of free tuition is one which we support. However, it is unfortunate that Zippert has let passion blind good sense. A boycott could only have done harm.

Action like this is illustrative of the programs Zippert has espoused all year. We will be glad when it is time for May elections. We hope the student body of City College will exercise good sense this time.

Boycott Failure

It is fortunate that the proposed boycott of classes to indicate support of the free tuition fight never materialized.

The boycott was scheduled for Tuesday, March 16, and Governor Rockefeller vetoed the tuition mandate the previous Saturday. Therefore the boycott was too late to influence the Governor in his decision.

The boycott would have been directed against City College and the Administration which has continually supported free tuition.

The boycott had it been held would have risked a small turnout which would have proven doubly disastrous and would surely have cost us a great deal of public support.

The sense shown by leaders of IFC and HPA who refused to back John Zippert in this action, must be commended. The lack of student support for a boycott indicated by the decision of these leaders is vindication enough for those who opposed Student Council when the boycott was first proposed.

Add A Pint

Once again the City College Blood Bank is running its semesterly drive in an effort to have enough blood available for us when and where it is needed. Almost every student is qualified to give blood. The process is painless and will not affect your health, since your body is capable of readily replacing this blood. The little effort it takes to sign up and give blood will help save someone's life. This is indeed a small price to pay.

We would like to urge you to take this semester's blood drive to heart and to contribute to your blood bank by signing up and making a donation.

Join IBM's new computer systems science training program

Who: graduating engineers and scientists in all disciplines.

Why: become a problem-solver and advisor to users of IBM computer systems in areas such as:

- real-time control of industrial processes
- communications-based information systems
- time-shared computer systems
- graphic data processing
- computer-controlled manufacturing systems
- management operating systems
- engineering design automation

When: as soon as you graduate, IBM will give you comprehensive training, both in the classroom and on the job.

Where: in all principal cities of the U.S.

How: see your placement director, visit the nearest IBM branch office, or write to D. R. Lundell, IBM Corporation, 222 Mamaroneck Avenue, White Plains, New York 10605.

IBM

DATA PROCESSING DIVISION

Student Help Ships Requested: Awarded Blood Drive

College students
odrow Wilson
s for the 1965-
the largest
ed to students
re tuition and
graduate school
\$1800 for liv-
t follows:
hematics
ilosophy
Philosophy
Russian Liter-
Thought
Exp. Psychol-
Assyriology
r, Chinese
rb, Philosophy
Physics
nlin, Anc. East
History
d, Mathematics

for blood will increase greatly. The Blood Bank, however, will not be able to service the increased demands without increased donations.

The actual donation is painless; last term's Information Director, Barry Schapiro, who donated blood ten times, confirms he felt no pain or other side effects when he gave blood.

It's up to all of us to keep the City College Blood Bank going. You can make an appointment to give blood March 15-19 at the registration booths in Knittle, the Library, outside the Snack Bar, and at 327 Finley. Donations will be made in Knittle Lounge, Wednesday, March 31 and in Finley Grand Ballroom, April 1.

Further information can be obtained from Dr. Harry Meisel, 214F and Ellen Landau, Blood Bank Information Director at TU 2-6435.

Dean's List

Forty-four City College students in the College of Liberal Arts and Science, and the Schools

of Engineering are Architecture and Education at the college's up-town campus have been named to the Dean's List for Second Year Honors. The complete list follows:

BRONX

Phyllis H. Cohen, Phyllis N. Cohen, Sheila E. Cohen, Carole Drescher, Alberto Guzman, Judith B. Kaplan, Howard R. Kopelman, Kenneth W. Lebensold, Arthur L. Lieberman, Fred Mandelkorn, Donald A. Marks, Joan B. Packles, Roberta E. Recht, Joel B. Sands, Jeffrey R. Schreiber, Karen Stamm, Gerard Stettner, Romano Strika, Clifford R. Tisser, Janet S. Weinstein.

BROOKLYN

Andrea S. Urkowitz.

MANHATTAN

Gabriel A. Aguiar, Evelyn Balban, Nancy R. Daly, Jed Goldart, Daniel Gubin, Donna M. U. Herbach, Malanie Kaye, Judith Kunofsky, Zinta A. Lipacis, Barbara H. Marcuse, Evelyn G. Mayer, Michel D. Modisette, Joan H. Warembud, William Weiss.

QUEENS

Joan D. Chernizer, Bruce A.

Diner, Anne Forer, Jacob Glanzman, Dorianne Kalish, Jarrett A. Pikser.

NEW YORK STATE

Allen R. Gribetz, Jill I. Munves, David B. Ruderman.

Letter...

(Continued from Page 1)

On another side of Tech Council activities, it has been announced that there will not be an Engineering Day held at the College this year. Officially, the

reason given was that more interest would be created if this event were held every year, however, reliable sources have stated that the real reason is that some of the professors are unwilling to do all of the work that is involved in getting such an undertaking started.

Tech Council has also announced that it plans to endorse a candidate in the upcoming Student Government election and is presently interviewing all prospective candidates. Tech Council did not endorse anyone in last year's election.

DOUBTING THOMAS?

HOPEFUL AGNOSTIC?

Christianity has more to offer than hope, it has positive proof in the form of a MIRACLE which was foretold, described and is intensely personal. Ask the Religious Leaders or send me a card marked ESP-17. My reply is free, non-Denominational, Christian. Martyn W. Hart, Box 53, Glen Ridge, N. J. 07028 (USA).

'65 CHEVROLET
These great performers are the lowest priced models at our One-Stop Shopping Center



Top to bottom: Chevy II 100, Corvair 500, Chevelle 300, Chevrolet Biscayne. All 2-door models.

Each of these beauties is the lowest priced in its line. But the ride doesn't show it. Or the interior. Or the performance.

That luxurious Biscayne is as roomy as many expensive cars, has color-keyed interiors, plush vinyls, fine fabrics, full deep-twist carpeting.

Chevelle, America's favorite intermediate-size car, has clean new styling, wide doors, roomy, tasteful interiors and Chevrolet easy-care features.

Chevy II got a lot smarter for '65—but stayed sensible! Still family-size, easy to handle, economical, and the lowest priced Chevrolet you can buy.

Or get a sporty rear-engine hardtop in a Corvair Sport Coupe or Sport Sedan for fun in the months ahead.

Chevrolet, Chevelle and Chevy II are available with the Turbo-Thrift Six for fuel economy, quick warmups, quiet idling. It's light, efficient, smooth and spirited.

Corvair's air-cooled rear-mounted Turbo-Air Six delivers the best balance and traction for this size car.

So be practical. Only you will know. Because it sure won't show!

discover the difference



Drive something really new—discover the difference at your Chevrolet dealer's
Chevrolet • Chevelle • Chevy II • Corvair • Corvette

LIMITED TIME OFFER!



FREE

\$10.00 PICKETT SLIDE RULE

WITH PURCHASE OF DESK RULE

A genuine Pickett, high-precision, pocket-size, all-metal, 22 scale, log log speed rule can be yours without cost if you buy a desk-size Pickett power-log dual base 32 scale speed rule by June 20. Both are the finest, most accurate slide rules made. Used by top scientists and engineers the world over. Genuine leather carrying case with each.

N-3 DESK RULE.... \$19.88

POCKET RULE.....FREE



Pickett Twin Pack



CITY COLLEGE STORE

BOOK REVIEW

Die Design Handbook. Second Edition. Editor-in-Chief, Frank W. Wilson, Technical Director ASTME. Editor, Philip D. Harvey, Assistant Technical Director ASTME/ Prepared by a staff of specialists. 788 pages plus index; 918 illustrations; 6x9; McGraw-Hill ASTME Handbook Series; \$20.00. Publication date: January, 1965.

"Die Design Handbook," Second Edition, presents a complete organized picture of all responsibilities of die designers, die engineers, and users, while making proven design details available for their use. The authors, recognizing that die design cannot stand alone, relate it in an orderly way to the materials and design of parts to be produced, to the metallurgical properties of die and stamping materials, to the optimum processing available, to the standard components that can be purchased, and to the available pressroom facilities.

The material, chiefly derived from the actual experiences and operations of manufacturing industries, follows a typical flow of decisions, designs, and operations that occur in die design and utilization. Design of the stampings to be produced is the first consideration. This is followed by the principles of process planning that lead to die design decisions; the theory of metal movement applicable to each of the various classes of dies; classified die designs; diesetting principles; and selection of presses. Die and stamping materials data are also

included.

General topics have been split into individual sections, thus enabling the reader to concentrate upon the single subject with which he is concerned at any time. The abundant simplified line drawings emphasize the unique or superior die design details for the intended applications. Significant actual dimensions are shown, since they are frequently useful in adapting a given design to another purpose. The book is completely indexed and cross referenced.

Some recent field advances covered are: Data on the forming of the magnesium alloys at elevated temperatures; theoretical data on forming beads, flanges, and dimples; mathematical analysis of die components; detailed steps in die design with emphasis on tooling for different production volumes; data on the strain factor theory of drawing; data on high velocity forming, fluid forming, and the use of urethane in forming dies; and the forming of foil or very thin metal sheets.

"Die Design Handbook: A Practical Reference Book on Process Analysis, Product Design, Metal Movements, Materials, and Proved Die Designs for Every Class of Sheet-metal Pressworking" has information on dies for all types of sheet metal stamping and a discussion of what happens to the metal during each stamping operation. Each die design is explained by describing the function of major elements and, in many cases, the tool materials.

Vector...

(Continued from Page 1)

anyone who would like to see original work by students of the College.

Once again, Faculty Profiles presents interviews with Faculty members both inside and outside the School of Engineering and Architecture. Included in this issue are Professor Henry Malin of the Mathematics Department and Physics Professor Philip

Baumel. Also interviewed are Prof. Hanford Yang of the Architecture Department, Prof. Morris Ettenberg of Electrical Engineering, and Prof. Khalil Beitjani of the Civil Engineering Department.

Rounding out the issue is a fine Editorial by Vector's Co-Editor Terry Walzman entitled "Criticism and the Engineer," which challenges the Engineering Student to prepare himself for life. Another challenge is also presented in the form of the usual Crossword puzzle.

Kauffman...

(Continued from Page 1)

Although Kauffman will graduate next January, he hopes to see his program followed through by a successor of his choice.

The S.G. Treasurer is in the process of organizing a slate, to be called the Fusion party. At the time the only running mate decided upon is Mark Landis who will seek the position of Treasurer.

Drops In The Bucket Add Up! Give Blood To The CCNY Blood Bank

REGISTRATION

MARCH 15 - 19

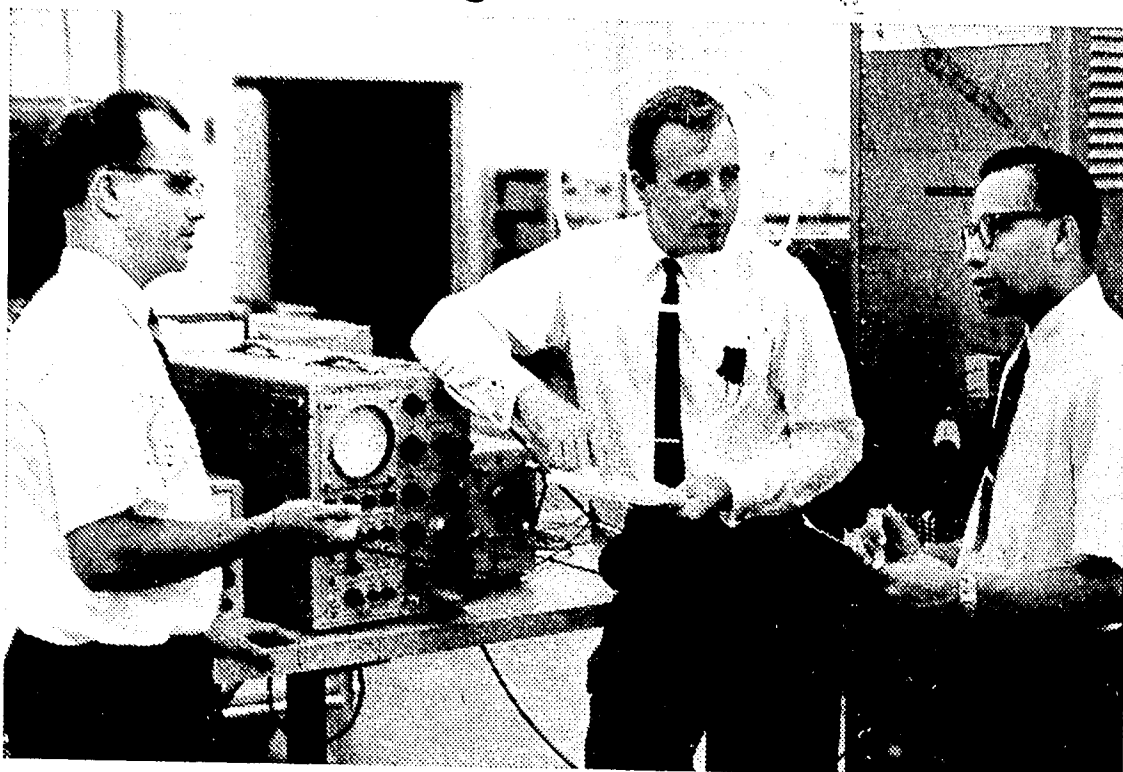
DONATION

MARCH 31, APRIL 1

KNITTLE LOUNGE, LIBRARY, FINLEY CENTER



Tom Huck sought scientific excitement



He's finding it at Western Electric

Ohio University conferred a B.S.E.E. degree on C. T. Huck in 1956. Tom knew of Western Electric's history of manufacturing development. He realized, too, that our personnel development program was expanding to meet tomorrow's demands.

After graduation, Tom immediately began to work on the development of electronic switching systems. Then, in 1958, Tom went to the Bell Telephone Laboratories on a temporary assignment to help in the advancement of our national military capabilities. At their Whippany, New Jersey, labs, Tom worked with the W.E. development team on computer circuitry for the Nike Zeus guidance system. Tom then moved on to a new assignment at W.E.'s Columbus, Ohio, Works. There, Tom is working on the development of testing circuitry for the memory phase of electronic switching systems.

This constant challenge of the totally new, combined with advanced training and education opportunities, make a Western Electric career enjoyable, stimulating and fruitful. Thousands of young men will realize this in the next few years. How about you?

If responsibility and the challenge of the future appeal to you, and you have the qualifications we are looking for, talk with us. Opportunities for fast-moving careers exist now for electrical, mechanical and industrial engineers, and also for physical science, liberal arts and business majors. For more detailed information, get your copy of the Western Electric Career Opportunities booklet from your Placement Officer. And be sure to arrange for an interview when the Bell System recruiting team visits your campus.

Western Electric MANUFACTURING AND SUPPLY UNIT OF THE BELL SYSTEM

AN EQUAL OPPORTUNITY EMPLOYER

Principal manufacturing locations in 13 cities □ Operating centers in many of these same cities plus 36 others throughout the U.S. Engineering Research Center, Princeton, N.J. □ Teletype Corp., Skokie, Ill., Little Rock, Ark. □ General Headquarters, New York City

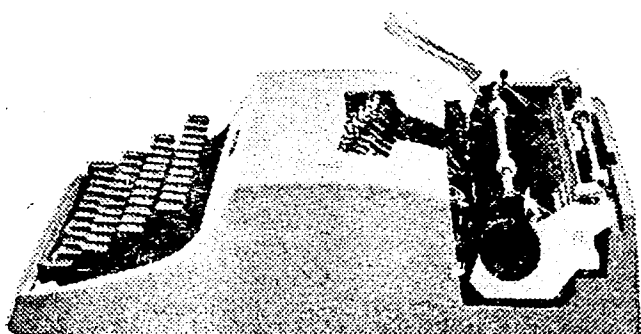


WE HAVE THE PORTABLE FOR PEOPLE WHO ARE GOING PLACES....
(Including Back to School)

Olivetti Underwood Lettera 32

SALE \$67.50

plus taxes



Come in and see it today! It has every important advantage of full size office models (and some features even the big ones don't have).

You get keyboard-set tabulation... automatic paragraph indentation... half line spacing which lets you type footnotes, math and chemistry formulas...and much more.

CITY COLLEGE STORE