

ety of Me-
Company.
pumps and

s. There is
counter this
entrance to
ing fluid, the
efficiency of
ts operation.
and the pur-
erstand what

He must like
he must be
r adjustments
must arrange
d capabilities

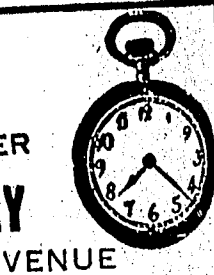
ort that sales
only by the
eer works for
e organization

eer to become
the ambitious
ommends that
ll tend to deal
develop their

NGWEIL
WEINER

College

Waiting

M AVENUE
COLLEGE

UBES

ADIO
ces For
UDENTS

ELECTRONICS

am Avenue
(street)
1-0722



TECH NEWS

SCHOOL OF TECHNOLOGY

CITY COLLEGE OF NEW YORK

VOL. VII No. IV

THURSDAY, NOVEMBER 14, 1957

By Student Fees

PROF. KENT SPEAKS AT PI TAU CULTURAL TALK

Penny Kaplan, LF3

The differences between Indian and American technical education is the accent on practical applications in America that is not present in the Indian curriculum, reported Professor Clarence Kent, ME Dept., last Thursday in his speech before a cultural meeting of Pi Tau Sigma and ASME.

Professor Kent's visit to India was financed by the State Department's Technical Assistance Program. Under this plan various colleges are each assigned an underdeveloped country; the colleges are then responsible for aiding the technical teachers of that country.

Because of the high cost, few Indians go to school. In a country where the daily income for the average person is twenty cents, an education which costs one cent a day is too expensive. But India's few students are educated in the manner developed by the British in the days when India was a colony. They are therefore better prepared for college by the age of fifteen than the average American college freshmen.

Most unfortunate is India's economic backwardness. The country has little need for the engineers trained, since few industries are developing. Like the rest of Asia, India cannot interest foreign capital as much as she would like. Since native capital is lacking, she cannot finance internal development.

The strong family system of the country does much to prevent the serious social problems normally associated with unemployment, stated the Professor. He noted, however, as one of the consequences of the situation a rising suicide rate among young people.

BUY VECTOR

HIGH SCHOOL CAREER MEET

CITY TO HOST TECH SOCIETIES COUNCIL
STUDENT AIDS GREATLY NEEDED

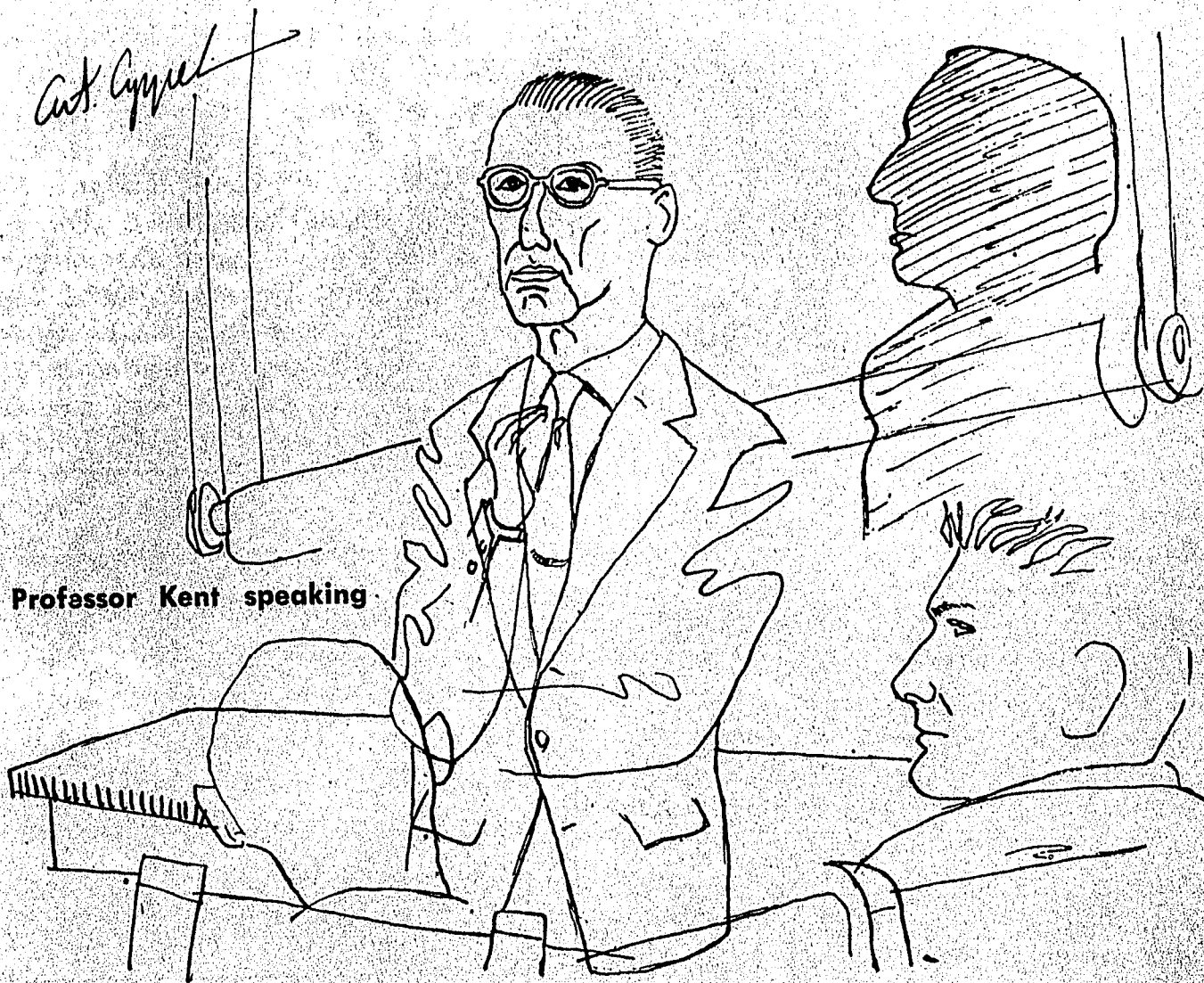
Herb Hiller, ME '60

Saturday, November 16, City College will be host to a group of about two thousand high school students. The occasion will be the Fifth Annual Scientific and Engineering Career Conference, to be held simultaneously with Brooklyn College and Queens College, and with the cooperation of many of the colleges in the metropolitan area. The conference is sponsored by the Technical Societies Council of New York with the cooperation of the New York Engineer's Committee on Student Guidance and the New York City public and parochial schools. Its purpose is to acquaint the students with the fields of science and engineering and to give them an idea of what is expected of them in college and what college has to offer them.

The program will start at 9:30 A.M. with a brief welcoming assembly at which President Gallagher, Dean Allen and a representative of TIIC will speak. Afterwards there will be panel meetings on ten phases of science and engineering; each panel will consist of a faculty member and a representative of industry. While the panels are meeting and afterwards, the students will be led through the various labs and be given an opportunity to witness their functions.

For all the preparation given to the conference, the measure of its success depends largely on the cooperation of the students, particularly the students of the School of Technology. Fifty to a hundred volunteers are needed to do

(continued on page 6)



TECH NEWS

EDITORIAL BOARD

Editor-in-Chief	Arthur Appel
Managing Editor	Murray Berger
Business Manager	Donald Winski
Copy Editor	Richard Sundstrom
News Editor	Bob Boorstyn
Features Editor	Nat Stochel

Associate Board

Assoc. Copy Editor	Claire Markowitz
Assoc. News Editor	Stan Grossel
Art Editor	Ruth Liebman
Photo Editor	Martin Weiss
Sports Editor	Robert Haiken
Treasurer	Al Fried
Advertising Mgr.	Art Biederman
Circulation Mgr.	Barry Schlein
Office Manager	George Turrian
Executive Secretary	Bobbie Schrift
Night Editor	Sally Sherwin
Cultural Editor	Allan Rosenhack

Staff

Herb Hiller	Art Roitstein
Arthur Degenholtz	Howard White
Richard Jason	Aaron Richman
Morton Rosenberg	Paul Alper
Jack Levine	Hal Weber
Ivan Glick	Bob Amsterdam
Bill Eisner	Julius Soller

Faculty Advisors

Prof. S. W. Burgess	M. E.
Prof. H. Wasser	English
Prof. J D. White	C. E.
Prof. E. Brenner	E. E.
Prof. Harvey L. List	Chem E.

Composition and Printing by
Progressive Printing Co., 652 Hudson St.

THE WHEEL TURNS

The wheel has come full circle. There is an increasingly plentiful supply of young engineers. The fanciful dreams of many engineering students will be rudely shattered at or about the time of their first employment interviews. Many graduates will find to their dismay that after four or more years of training, they are not the eagerly sought after prize of a score or more employment interviewers. Companies have changed their employment interviewing practices. Rather than bending forward in an effort to sell students on their firms, they are bending back, waiting to be sold on the candidates for employment.



The time has passed when all a man needed to be hired was a Bachelors Degree in any field of engineering, a slide rule and a smile. As the competition for any job increases, companies will prefer the graduating student with the higher class standing. They will look for people who seem to be interested in Engineering, not just a job. They will look for people who can talk about their area of interest with depth and understanding.

As the emphasis in engineering employment shifts from mere quantity to quality, we who are preparing to enter the field will become more and more aware of the professional standards that must be met and maintained. For students this will mean a soul searching reappraisal of their personality and their ambitions. For all of us it means a need to study the challenge presented by the new employment picture, and personal preparation will be required to meet it.

A. D.

Miss Claire Markowitz, Associate Copy Editor of TECH NEWS and staff member for several terms, has become engaged to Mr. Stanley Jaffe, a Senior at Brooklyn College. The couple expect to be married in August.

Congratulations!

City College ROTC

The R.O.T.C. was established at City College in 1916. At that time it was a loosely knit group not directly under the Dept. of the Army. When World War broke out our corps was unable, as were most other corps, to contribute to the war effort. Although this was partially due to its recent organization, it was clear that the program was not adequate for the Army's needs, and in 1922 the program was completely revised to its present form.

The cadet corps at City now numbers about 800 men. About half of these are engineering students and consequently members in the engineering phase of R.O.T.C. The Engineering cadets pursue a separate course of study from the infantry cadets, which includes such things as bridge construction and bridge demolition, the latter a more complex subject that might be supposed.

The curriculum for the course is prescribed by the Dept. of the Army and is uniform throughout the nation. Each college or university which has a contract with the Army assumes the responsibilities of each. At City, the agreement, which is dated 1919, requires the Army to furnish instructors and material, while the school furnishes the housing facilities. The Military Science Dept. coordinates with the School of Technology, and especially the Civil Engineering Dept., to save the students needless repetition in parallel subjects.

During the summer between the Junior and Senior years, all advanced corps cadets are required to attend summer camp, the Infantry at Fort Bragg and the Engineers at Fort Belvoir. In both cases the cadets must master the practical application of what they have learned the past three years. In addition to the usual Army training, the engineers are required to build on their own the standard types of bridges used by the Army.

Aside from prescribed work, R.O.T.C. also sponsors several clubs and fraternities of which the college can be proud. The one which is of greatest interest to the engineer is the Society of American Military Engineers (S.A.M.E.). Our post, which is also a member of THIC, was picked last year as the best in the country.

At present the R.O.T.C. is housed in Drill Hall with some of its equipment. The rifle range in the stadium. Drill, however, will soon make way for the new Tech Building, and the R.O.T.C. will be relocated in the Tech Library, the four rooms above it, Harris 121. Drills will be held in Jasper Oval.

ROTC CCNY ? HOW GOOD ?

Howard White

Every year there is an increasing number of students transferring into the School of Technology. The majority of these students are juniors who have completed their pre-engineering curriculum at one of the other municipal colleges. City College is the only municipal college offering all the courses leading to an engineering degree. The other colleges offer what is known as the pre-engineering sequence. Hence all the students completing this phase of the degree must transfer to the School of Technology, with the exception of a few who are attending Queens College under the "Columbia Plan", under which they receive three years of courses at Queens and two years at Columbia leading to a bachelor of arts degree and an engineering degree.

Of the 150 students who entered the School of Technology as transfer students last fall, 80 percent were from other municipal colleges. Of those coming from the municipal colleges 60 percent were from Brooklyn College, 20 percent from Hunter and an additional 20 percent from Queens College.

In this series of articles we intend to interview a number of transfer students and try to compare their previous schools with City College. By doing this I think we, who are attending City College, will be better able to evaluate our school in relation to the other municipal colleges.

If there are any questions that you would like answered, please deposit them in the envelope outside the Tech News Office 225 Finley.

(Continued from page 2)

The importance of the R.O.T.C. program to the Army cannot be overemphasized. Not commonly known is the fact that R.O.T.C. is the chief source of officers in the Army. Illustrative of this fact here at City, is the fact that only one of the officers on the instructional staff are West Pointers; the rest are R.O.T.C. grads, one of them a graduate of City. At our interview with Colonel Hookhart we asked what the particular advantages of the program are to engineers. He told us that its greatest advantage is the development of leadership potential. In Engineering or any other field, the man who gets ahead is the one who has initiative and takes control of the situation; that is one of the things R.O.T.C. teaches.

R.O.T.C. is housed in the basement of its equipment in the stadium. Drill is made way for the R.O.T.C. and the Tech Library. Above it, Harris 121 is in Jasper Oval.

MOTOR SCOOTERS

A EUROPEAN REVOLUTION IN AMERICA

by Walter Salm

You needn't be a sharp-eyed observer of the modern American scene to see that motor scooters of the European variety have bitten off a good piece of the market, with the automobile manufacturers not too happy about it. It can all be traced back to a factory in Lincoln, Nebraska, where for many years, the Cushman Motor Works has been quietly producing a number of scooters that have found an extensive market, mostly as pleasure vehicles.

The scooter was virtually unknown outside the U.S. until World War II, when American paratroopers landed carrying small fold-up scooters with them. Several Italian industrialists were quite impressed by this "cute little bug", and

two manufacturers, Piaggio and Innocenti, rebuilt their ruined factories for a new market—motor scooters. The Italians deserve just about all the credit for this undertaking. They stole nothing from the Americans but the germ of an idea, scooters. From there, they went their own ways, and the results, when compared to American machines, strike one as does the difference between a Mercedes-Benz and a Model T Ford.

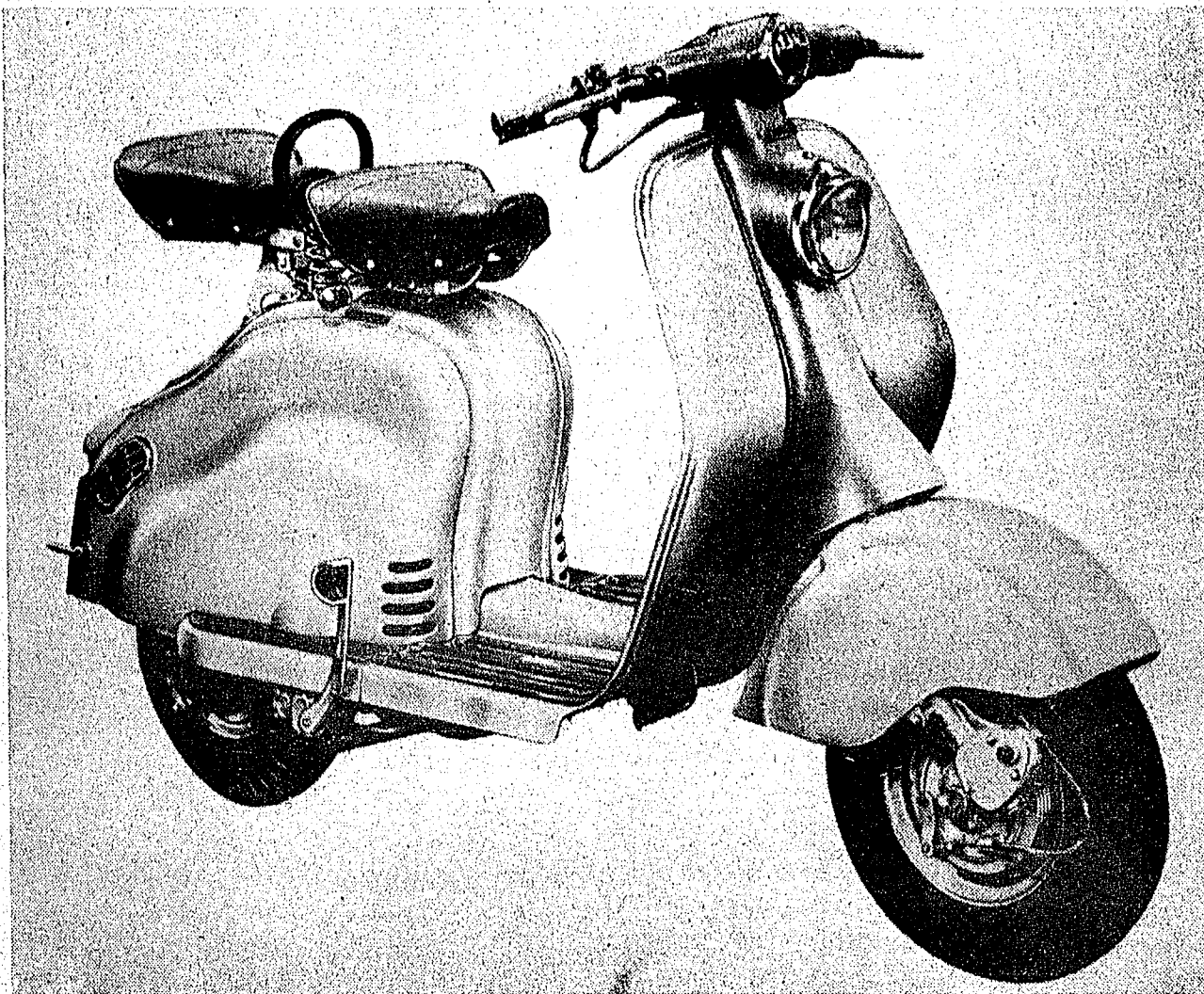
Basically, a scooter is a small two-wheeled motor vehicle of small power and small wheels, as contrasted to its distant cousin, the motorcycle. For comparison's sake, let's take a typical scooter and stack it up against a typical motorcycle.

	SCOOTER Lambretta 150LD	MOTORCYCLE Triumph 110 Super Sports
Power	6	650 cc.
Displacement	148	42 hp.
Top Speed	55	110 mph.
Wheel Diameter	16	19 in.
Number of cylinders	1	2
Price	about \$300	about \$900

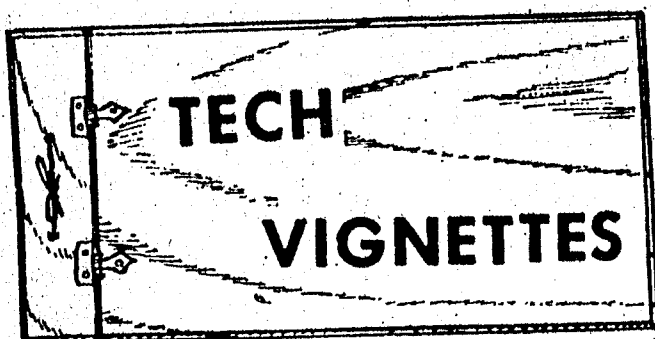
It can be easily seen from this comparison that a scooter is not a "junior motorcycle." It wasn't intended to be, the only similarity being the number of wheels. The scooter is an extremely well-built piece of machinery, and has many advantages over automobiles and easily clock 100 miles for every gallon of gas you put into it.

Convenience is an aspect that has to be seen to be believed. Parking presents no problem; a two-foot wide space becomes to mind. The average scooter will fit between parked cars is sufficient. The two-foot clearance also is a boon in tightly-packed traffic. The scooterist easily

(continued on page 8)



Lambretta 150 LD, top speed 55 mph.



COLONEL HAROLD C. BROOKHART

Heading the Department of Military Science and Tactics is Colonel Harold C. Brookhart, West Point graduate, class of 1934. The Colonel's duties and responsibilities as Professor of Military Science and Tactics are similar to those of the other department heads in the school, differing mostly in the fact that his department is run in military fashion and that he is responsible to the U.S. Army as well as to the school. Col. Brookhart became PMST at the College in July, 1956 after completing an assignment as a G2 (Theater Intelligence) officer in the Pacific, stationed at Fort



Colonel Brookhart

Schafter, Hawaii. During World War II he was in General Krueger's Sixth Army as a G3 (Training) officer, and later commanded two separate amphibious forces which made landings at Idape and Wadke Islands, New Guinea. Idape Island was a step to the Philippines in the major Halandia Operation, while Wadke Island is known as a major amphibious operations. The highest point on the island was 26 feet above sea level, and parts of the air field were 10 feet below sea level. The Colonel was also in Korea, where he commanded the 27th

(continued on page 6)

ETA KAPPA NU

Eta Kappa Nu, the National Electrical Engineering Honor Society, was founded for the primary purpose of "Bringing into closer union those men in the profession of Electrical Engineering, who, by their attainments in college or in practice, have manifested a deep interest and marked ability in their chosen life work whereby mutual benefit may be derived."

HKN was founded at the University of Illinois on October 28, 1904 by a group headed by Maurice L. Carr, a student at the university. Since that time fifty years ago, Eta Kappa Nu has grown into a nation-wide organization consisting of over fifty undergraduate chapters and twelve alumni chapters.

In February, 1946 the Beta-Pi chapter was installed here at City College. The Beta Pi chapter endeavors to live up to the aims and principles of the organization as set down by Maurice L. Carr and his associates. This places a big responsibility on the membership to select the proper men from the Electrical Engineering student body who will continue to further the aims of the organization.

With this in mind certain qualifications have been established for election to Beta-Pi. The first requirement is scholastic achievement. Upper Seniors must be in the upper third of their EE class. Lower Seniors must be in the upper third of their EE class and in addition

must have a B minus average (grade 0.5) in their EE courses. Upper Juniors must be in the top quarter of their class with a B average in their EE course (grade 1.0). Breadth of interest, integrity and leadership ability are additional qualifications for election. The brothers meet with the eligible candidates several social events and at interviews conducted by the society. In this way the future members of Beta-Pi are selected. The Beta-Pi chapter at CCNY is very active and is engaged in many worthwhile projects. Among these is the EE lab insurance program which protects the students at the college from a heavy financial burden due to accidental breakage in the EE laboratories. In addition the society conducts a slide rule instruction program. Members instruct beginners in Electrical Engineering in the fundamental operations of the slide rule. As a service to Senior EE students who may need recommendations from faculty members after graduation, HKN organizes and operates a program of taking pictures of seniors every semester. The program helps the instructor to recognize students, whom they might otherwise have forgotten. Eta Kappa Nu has instituted a bi-annual EE Outstanding Sophomore award. This award is presented to a man in the Sophomore class whom the society deems most qualified.

Starting this semester Eta Kappa

(continued on page 8)

CITY TO HOST FIVE COLLEGE PROM

On November 28, Thanksgiving evening, City College will be host to the first five college prom in the history of the school. City College Uptown and Downtown, Hunter College Uptown and Downtown, and Queens College will all take part in the prom which will be held in the Grand Ballroom of the famous Hotel Sheraton Astor.

The gala event will be highlighted by a floor show starting at midnight and headlining prominent alumni and professional entertainers; and by the selection of a Queen of the Prom from the reigning queens of the five participating colleges. Music will be supplied by two bands—Hal Etkin's twelve piece society band and the Joe Cuba Sextet for the Latin beat. There will also be a drawing for a television set, compliments of Marlboro cigarettes.

The prom will be semi-formal, with six couples seated at each table. Tickets are \$5 per couple, and can be obtained

at the Student Government office in 3 Finley between 10 and 3 o'clock on Friday, or at the ticket bureau in 132 Finley between 12 and 2 o'clock on Thursday.



Pat Gibson to chirp at prom

EVENING SESSION:

HOOT
MON!

Sally Sherman, E.S.

Like the world, the CCNY campus is polarized, and a poet, had he been here, might have seen fit to comment thus: 'O North is North and South is South, and ne'er the twain shall meet,' or so it seems.

As the world advances towards an increasingly complex technology, the line between Techmen and Libarts becomes more a wall than a line. Save for an occasional sortie by Libarts and Techmen onto that 'other' campus to take one of those blasted required math, science, history or speech courses, the two factions have closed the door in each other's face, and are busy trying to lock it.

The division is interesting. Libarts, the holier-than-thou group, speak mainly of literature, language courses, philosophy, and the pursuit of values other than money; disdainfully they lament math courses, science requirements, and the long walk to North campus. They look at the Techman and shake their heads in sorrow for one so unlearned, uncultured, and such an obvious freak. Across the fence, Techmen, the mightier-than-all group, speak mainly of drawing boards, slide rules, charts, and pursuit of the highest salaried positions; disdainfully they lament 'snap courses' like English and Social Studies, and the long walk to South campus. They look at the Libart and shake their heads in sorrow for one so disorganized, unscientific, and consider him an almost obsolete machine.

... and so rages the battle of the self-contained groups. Each is determined to hold to the view that the other is missing a few vital ingredients of personality. It is an empty distinction really, for on this campus, a testing ground for life, we must learn that only through intelligent dependence can we achieve true independence.

Upon graduation, an engineer who is only an engineer is financially miles ahead of his Libart brother. But to be so specialized leaves the best engineer merely a mechanic. The immediate monetary rewards are hardly lasting, and in the long haul of life, the man who gets the really big job with a company is the engineer who can write an intelligent letter, feel at ease with an important client, feel at ease with an important client,

VECTOR AWARD

Vector, the magazine published by the School of Technology, was awarded honorable mention in the non-technical article classification, at the 1957 convention of the Engineering College Magazine Association, held in Evanston, Illinois.

The article, "Aesthetics, Bridges and the Engineer," by Howard Dinesman,



Phil Spiegel, Co-Editor of Vector

CE '58 and Maurice Tuchman, art major '57, was published in the November 1956 issue, and was concerned with describing the purposes of bridges as a form of architectural beauty.

This was the first time that Vector has won an award at the convention and competition was stiff. Best Overall award went to the "Georgia Tech Engineer"; the "Michigan Technic" took second place.

Congratulations to the editors of Vector, Stanley Small and Philip Spiegel, to the staff, and particularly to Messrs. Dinesman and Tuchman.

and discuss the finer points of books, art and music. The Libart too can be a mechanic, a nontechnical one. Yet, if he becomes really successful in life, chances are his versatility is such that he can understand a fundamental engineering principle, discuss a new machine, or blueprint a new idea.

The world would be a simpler place in which to live if it were divided into blacks and whites, but men walk in the shadow of many dreams which need to be realized. If we are to find fulfillment in the true quest for knowledge, then it must be for the knowledge of all things. Let us not become half men, but rather let's both come to the base of the growing wall, climb to the top and shake hands, and perhaps even change sides. Maybe with this kind of approach we can develop, instead of the North and South campus, a whole College; instead of the Libart and Techman, a real man, a complete man.

AMERICAN NUCLEAR
SOCIETY FORMING

Phil Barnett

In attempting to keep up with the rapidly growing interest in nuclear energy, Professor Menkes, of the Mechanical Engineering department is trying to institute a student chapter of the American Nuclear Society. The main purpose of the Society would be to stimulate interest in the field of nuclear energy.

Dues amounting to \$3.00 per student would have to be paid to the parent organization. In addition to this, there would be another fee for the purpose of keeping the campus chapter functioning. This fee would amount to approximately \$.50 per student.

As soon as the Society is formed, regular meetings will be scheduled. Lectures will be given on pertinent topics by people in the field of nuclear study. It is possible that the nuclear reactor will be used for demonstrations and for student research to be conducted by the Society.

Professor Menkes estimates that students in fifty schools across the country are members of student chapters of the American Nuclear Society. To stimulate interest in the field of nuclear study, competition among these students has been organized by the parent body. Papers dealing with nuclear study are written and submitted by the students to a regional board. This board selects the best ones and sends them to the parent body of the American Nuclear Society where they are judged, and the winners announced.

The Society would not be limited to engineers alone. All those who are interested in the field of nuclear study will benefit by this organization. If you are interested in becoming a member of the Student Chapter of the American Nuclear Society put your name, address and class on the list posted on the bulletin board opposite the Mechanical Engineering office in the Technology Building. The Society cannot be started without at least one hundred prospective members.

T.V. TUBES

Lowest Prices For
C.C.N.Y. STUDENTS

ECUADORIAN ELECTRONICS

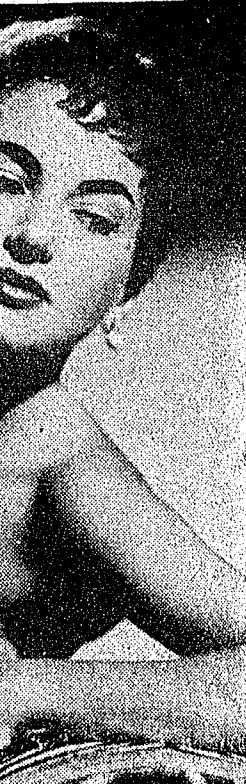
1621 Amsterdam Avenue

(140th Street)

AUdubon 1-0722

PROM

ment office in
and 3 o'clock
ureau in 132 Fim
lock on Thursda



chirp at prom

REPORT ON ACCEPTED SALARIES ENGINEERING, ARTS & SCIENCE GRADS JANUARY, JUNE, AND AUGUST '57

For the past several years, the Placement Office has conducted a survey among graduates, designed to make available varied information which would be of interest and use to students, alumni and faculty of C.C.N.Y., as well as to business and industrial organizations, Civil Service agencies and other interested organizations. The results of this year's questionnaire have been published and TECH NEWS is reproducing those portions which pertain to engineering students.

Among the three graduating groups, the highest rate of return of the questionnaires was among Tech-men. When this high percentage return is considered, it is safe to conclude that the information compiled for the four branches of engineering is substantially representative of the total number of engineering graduates involved.

A number of interesting points are developed on examination of the tables. Table one demonstrates, among other things, that for the graduates included in the survey, E.E.'s received the highest average starting salary. Although the impression among Tech-men has been otherwise, comparison with past surveys shows that the three graduating classes in 1957 are the first in which, salarywise, the E.E. has been on top; prior to 1957, M.E.'s led the rest in average starting salary. It is also seen that ten times as many C.E.'s enter civil service as do engineers in the other branches. As to total graduates, the departments rank in this order: E.E.; M.E.; Ch.E.; C.E.

Table two (not shown) indicates a generally steady increase in both the numbers of graduates and the starting salaries accepted by Tech School graduates over the past four years. C.E. though, has shown a fluctuating number of graduates.

Table three should be quite interesting to those Tech-men who attempt to justify low grades with, "I'll get a high-paying job anyway." Employers will continually get more selective in their choice of prospective employees as the "shortage of engineers" is now virtually over. To be sure, there is a substantial need for experienced engineers and specialists, but

TECH MEN!

Have any news you'd like the school to know?
Mariages, engagements, births, seductions, etc?
Drop a note in the TECH NEWS envelope on the door. Finley 335.

TABLE I
Monthly Salary Acceptances in Industry and Civil Service for Engineering Graduates of January, June and August 1957 Classes.

Degree	Average Monthly Salary	Acceptances in Industry Mid-50% Range	Acceptances in Civil Service Average Monthly Salary
Chem. E.	455	\$440-\$470	\$374
C. E.	438	\$420-\$458	\$400
E. E.	477	\$458-\$495	\$369
M. E.	464	\$450-\$475	\$402

TABLE III
Starting Salaries by Class Standing in Branch

Degree	Top 25% Scholastically No. Returns	Average Monthly Salary	Mid 50% Scholastically No. Returns	Average Monthly Salary	Bottom 25% Scholastically No. Returns	Average Monthly Salary
Chem. E.	12	457	35	455	11	453
C. E.	6	445	17	442	6	417
E. E.	38	488	70	478	41	465
M. E.	19	481	45	459	18	451

TABLE IV
Positions Secured Through the Placement Office

Degree	Total No. Employed Reporting Through Placement Office	No. Securing Employment Through Placement Office	Percent*
Chem. E.	60	49	82%
C. E.	49	34	69%
E. E.	151	136	90%
M. E.	84	76	90%

*The percentages given refer to the proportion of graduates placed through the Placement Office to the total number of graduates who reported accepting employment. Such percentages are likely to be inflated by the tendency of those graduates who secured employment through the Placement Office to report to us.

the graduating student will find it of little comfort; this will be particularly true for Tech-men low on the scholastic ladder. Table three is a clear harbinger of this eventuality. Average starting salary is in every case proportional to scholastic standing in your department. It can be assumed that as hiring policies tighten, academic rank will steadily become more important in simply obtaining any job. This is your warning.

Table IV shows the number of graduates who obtained positions with the direct assistance of the placement office.

High School Meet

(continued from page 1)

everything from working the labs, to picking up stray people and directing them to their proper destinations. It is unfortunate that even though the professional organizations on campus have been informed, only a small fraction of the required number have volunteered. Those interested in helping to display CCNY get in touch with Prof. Wolf of the E.E. Dept.

TABLE V
Work Locations Accepted by January, June and August 1957 Graduates.

State	No. of Acceptances in State
N.Y.C. (including L.I.)	175
N. J.	86
N. Y. S.	43
Cal.	37
Pa.	17

COLONEL BROOKHART

(continued from page 4)

Infantry Regiment, better known as the Wolfehounds. His medals and decorations include the Bronze Star, the Army Commendation Medal, the American Defense Medal with a battle star, and the Asiatic Pacific Medal with an invasion arrow and two battle stars.

At present, Colonel Brookhart is living in Riveredge, New Jersey. He has a wife and two children: a daughter who is attending Carleton College in Minnesota and a son who is top man in the senior class at West Point, something of which needless to say, he is very proud.

Sale Starts Today

CITY COLLEGE BOOKSTORE

For A Limited Time Only!

TREMENDOUS BOOK & PRINT SALE! SAVE 50% to 80%

- Brand New, Original Editions
- Many Unadvertised Specials
- Ideal as Christmas Gifts

Originally Published at \$2.00 to \$15.00

NOW \$1.00 to \$5.88**Unrepeatable Bargains . . . Hundreds of Titles and Subjects to Choose From!**

Technical Books At Tremendous Savings

Alternating Current Fundamentals, by J. J. De France. How to study, analyze, and maintain electronic circuits. Illus.
Pub. at 4.65 Sale \$1.49

Famous Intensified Course in Analytical Experimental Physics, by H. B. Lemon & M. Ference. 588 pages, 584 illus. 9 in. x 12 in.
Pub. at 8.00 Sale \$3.98

Colloid Science — A Symposium, E. K. Rideal, A. E. Alexander, et al.
Pub. at 6.00 Sale \$1.98

A Guide to Medicine, ed. by I. Geike-Cobb, M. D. Medical dictionary for professional and home use — over 1,000 definitions, 30 articles.
Pub. at 5.00 Sale \$1.98

Practical Electricity and Magnetism, by M. Rubin. 282 diagrams, 356 pages.
Pub. at 7.50 Sale \$1.98

Architectural Drafting, by W. J. Tornung. Draftsman's complete manual. Stress on construction principles.
Pub. at 5.95 Sale \$1.49

Introduction to Nuclear Physics, by W. Heisenberg. Atoms, molecules, radioactivity, transmutations, etc. 52 illus.
Pub. at 4.75 Sale \$1.98

Nuclear Forces II, by L. Rosenfeld. Nuclear Models and Saturation Properties on Central Force Hypothesis. 543 pp., many diagrams, tables charts.
Pub. at 10.00 Sale \$1.98

Illustrated Technical Dictionary, ed. by M. Newmark. Definitions of terms used in the applied sciences, graphic and industrial arts, mechanical trades — many illus., charts, tables, diagr., etc.
Pub. at 5.00 Sale \$2.98

Active Carbon, by J. W. Hasler. Properties, applications, manufacture, etc. Illus.
Pub. at 7.00 Sale \$1.00

New Practical Formulary, by M. Freeman. Nearly 2,500 laboratory-tested formulas.
Special \$3.98

Colege Chemistry In Brief, by L. Richardson & A. Scarlett, 128 illus.
Pub. at 3.00 Sale \$3.00

AUTHENTIC BULLFIGHT POSTERS

Imported from Spain. Giant sized, full of flashing action and brilliant color — the ultimate in sophisticated decor. 3½ feet high by 1¾ feet wide, ideal for playroom or den. Many subjects to choose from. Pub. at 2.50.

Now \$1 each.

Come In and Browse Among Our UNADVERTISED BARGAINS

Sensational values in all books, few of a kind and fine editions. Supply strictly limited — come early for best selection.

50c and \$1 Each

SPORTS

In slide Rule Basketball competition on Oct. 31, the Chem E's scored a surprise 50-33 victory over the M.E.'s. The Chem E's had only five men but they were always in command. Ron Rothenberg and Aaron Fierstein led the Chem E's with 20 and 18 points respectively. Gross and Bornstein scored 11 and 10 points for the ME's.

The EE's extended their string of victories to four by defeating the CE's 67-25. Al Goodman (EE) was high scorer with 17 points. Art Biederman and Jim Rodney netted 16 points apiece. The highlight of the contest was the use of a girl by the Civil Engineers; they needed a substitute and she was the only CE around.

The week before, the ME's swamped the CE's 56-28 while the EE's trounced the CHE's 58-43.

STANDINGS

AIEE	4	0
AICHE	2	3
ASCE	1	2
ASME	1	3

INTERVIEWING CHANGES

No. 62. Philco Corp. rescheduling visit to Nov. 22, 1957. Sign up for interviews beginning Nov. 8.
No. 127. Cello Corp rescheduled visit to Dec. 10, 1957. Sign up starting Nov. 26.

Emerald bar
1624 AMSTERDAM AVE
CORNER 140 ST.
SANDWICH SPECIALTIES

**John's City College
Barber Shop**
4 Barbers — No Waiting
1616 AMSTERDAM AVENUE
OPPOSITE CITY COLLEGE

SPECIAL RATES FOR
CCNY STUDENTS
WATCHMAKER AND
JEWELER

LORENZO MAY
1623 AMSTERDAM AVENUE



ASME DISCUSS TURBINES

Milt Vagins

"I would like to present Mr. Z. Stanley Stys, a man who is more than amply qualified to speak on his chosen subject," said Elliot Gebner, president of the school's chapter of ASME, as he introduced the guest speaker at the ASME meeting on October 31.

Mr. Stys subject was "Industrial Gas Turbines." He lectured for an hour on the history, present applications, problems and potential future development of the gas turbine, particularly as it applies to this commercial world we live in. The large group of students present found that the hour passed rapidly as Mr. Stys continuously kept their attention. His range of subject material covered John Barber's first gas turbine in 1791 and its first commercial application in the early part of this century, to its present state of development and its world-wide application as a power generator. He brought out such interesting points as the methods used for increasing the efficiency of turbines and the problems encountered in increasing their power yield beyond the 50,000 kilowatt level. He made clear why turbines are not being used in automobiles but why they are used to power aircraft. With the help of some excellent slides, Mr. Stys was able to make a technically advanced subject understandable and interesting to undergraduate students on all levels — a task that would discourage most speakers.

Mr. Stys, speaking as a successful engineer, had this word of advice to future engineers: "Get out of your shell. The successful engineer is one who keeps abreast of what is going on in the world and in fields other than his own. In so doing one gains greater flexibility and can keep up with, if not ahead of, the rapidly changing technological future."

A better reason for joining your professional societies would be hard to find.

HKN...

(continued from page 4)

is instituting a tutoring service in Electrical Engineering subjects and is sponsoring the slide rule competition exam given to EE 104 students.

Eta Kappa Nu is justly proud of its accomplishment and will continue to strive to make City College a better school for the student body. HKN is a worthwhile goal for you!

MARVIN ZEICHNER
PRESIDENT BETA-PI CHAPTER
ETA KAPPA NU

SCOOTERS . . .

(continued from page 3)

worms his way through traffic jams, and on the rare occasions that the traffic tie-up is really bad, the scooterist can shut off the engine, walk the machine on the sidewalk past the bottleneck, put it back on the pavement, and he's in business again.

The driver sits in the scooter rather than astride the vehicle as is the case with motorcycles. This seating arrangement affords a certain amount of protection for him in addition to the splash-guard. A scooter can go through foot-deep puddles without the driver's getting even slightly damp. The comparatively low top speed is another safety factor. The scooter can cruise easily at 40-45 mph, and jumping a curb at this speed is certainly far less dangerous than performing the same feat at 90 on a motorcycle.

There are other, less obvious satisfactions to be derived from a scooter. You will find that you become more of a social animal than you ever thought possible. Friends who live in out-of-the-way places suddenly become objects of surprise visits. You go places and do things that you would never do if the subway were the only transportation at your disposal. And why all this extra traveling? Basically, because in addition to all of the other features of scooting, it's fun to ride, so much fun that you will be looking for opportunities to go for a spin.

Another less obvious feature is the scooter's tremendous amount of sex appeal. This was graphically demonstrated to the writer one night when a convertible pulled alongside and a beautiful redhead leaned out and started asking questions. The end result was that she said goodnight to the poor fellow driving the convertible and hopped on the back seat of the scooter for a ride!!!

Scooters are cool in the summertime, freezing cold in winter; you get wet when it rains. But through it all, you find that you love every minute of it—especially the redheads.

The 1958 edition of "CAREER: for the COLLEGE MAN" is being distributed by the College Placement Office. "CAREER . . ." is a compilation of information on employment opportunities in more than one hundred companies.

Seniors may obtain free copies in the Placement Office, F204.



SCHO

VOL. VII

OL
EM

Cutback
past year
particularly
duce the r
were plan
had to lay
reflected in
mer City
the placem
themselves
reasons, th
their rang
companies
term's grac

Perhaps
outlook fo
missiles p
gram won
until next
may incre
they plan
and see.

Also on
the tremen
is just get
This fact i
number of
states for
These civi
found it v
private inc
ally raised
attempt to
ments. Th
t easier fo
ate to find
of the othe

The you
to a posit
City and
choice of t
is needs