

## TECH



## NEWS

SCHOOL OF TECHNOLOGY

VOL. V NO. 2

THURSDAY, OCTOBER 11, 1956

BY STUDENT FEES

## SURVEY SHOWS EMPLOYMENT PROGRESS

BY MURRAY BERGER, CHE '59

The City College Placement Office recently sent out questionnaires to 418 Chemical Engineering Alumni who graduates from the college between 1946 and 1954. The purpose of the survey was to provide more accurate information about employment progress of City College Alumni. Replies received from 254 graduates gave information concerning the distribution of employment with respect to civil service and private industry.

The survey also included documentation on promotions, salary increases, salaries based on experience, advanced degrees and location.

The survey points out that most graduates (68.5%) accept their first positions with private firms while 19.7% begin in civil service. (11.8% go into graduate school or military service.)

A table of salary structures shows that many of the graduates who held jobs with civil service were not earning much less than their fellow graduates in industry. In some cases they were earning more; however, the mean salary level was higher in private industry.

Salary raises were frequent. For example, the monthly salaries of the middle 50% of graduates in both civil service and industry, with respect to experience, were:

1 year	\$375 - 440
3½ years	\$450 - 540
5 years	\$550 - 630
7½ years	\$635 - 750

Post-graduate degrees were shown to be definitely helpful in commanding higher wages. The study clearly shows that after a few years the salaries of the men with higher degrees are in some cases as much as \$100 to \$170 a month more than men with only baccalaureates.

(cont. on page 8)

CCNY SCRUTINIZED  
BY EDUCATORS

This article, prompted by the recent report of the Middle States Association of College and Secondary Schools, will attempt to bring out those features of the report which pertain most directly to the School of Technology.

In general, the examining board was impressed by the calibre of instruction, as noted by the following statement: "Without question the staff in all five departments of the School is competent and hard working. At the same time, the staff is not outstanding." The committee then gave five reasons for the reservations expressed in their statement:

1. Too many staff members are graduates of the City college.
2. Teaching loads are high.
3. Department heads are elected rather than appointed.
4. Very few members of the faculty attend professional meetings held outside New York City.
5. The school is almost devoid of a research atmosphere.

With each of their criticisms, the evaluators offered a partial solution to the problem. The MSA recommended, for instance, that

(cont. on page 4)

PROF. HARTMAN  
HEADS CE DEPT

Prof. Paul Hartman has been elected chairman of the Department of Civil Engineering. He succeeds Prof. Walter L. Willig who was appointed president of the new Staten Island Community College.

Professor Hartman, a native New Yorker, joined the School of Technology faculty in 1936 with the rank of tutor. He became an instructor in 1941, assistant professor in 1947 and associate professor in 1951.

He received his Bachelor of Science from Columbia University in 1932 and a civil engineering degree from Columbia the following year.



PROF. PAUL HARTMAN

He is a former director of the New York chapter of the New York State Society of Professional Engineers.

Prof. Hartman finds his new position very enjoyable but, "the most serious drawback to the new position is the reduction in my teaching load and therefore also the reduction in my contact with the students."

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## THE TIME FOR APPRAISAL

The term is now in its fourth week, and many upper sophmores and lower juniors have had their first taste of the engineering curriculum. Undoubtedly there are many who have been disappointed, finding themselves either unprepared for the difficult work or else disinterested in the subject matter.

It is probable that this disillusionment is common to many students in the School of Technology, for in the midst of a high civilization such as ours, it is only in rare instances that members of a profession possess a real vocation for their work. Because of the complexities of the skills which must be mastered, and the necessary time involved, the young man has to decide far too soon the purpose to which his whole life is to be dedicated. Seldom does he do so freely, and by reason of a compulsive inner drive. Rather, the young man may be prompted by such considera-

tions as material gain and social prestige, or perhaps by pure chance. At any rate, once started in his profession, he must persist unless he is to surrender all hope of reaching independence at a reasonably early age.

We can think of few prospects more depressing than that of spending one's life engaged in work in which one has no real interest. What makes it even worse is the fact that a college education was wasted in the process. Yet, there are those who persist in laboring through four years of drudgery, refusing to recognize their own ineptness.

It is to prevent the prospect of disillusionment that we advocate constant reappraisal of

## HONOR SOCIEY NEWS

Next week the honor societies swing into high gear with meetings and elections of eligibles. The schedule of events to occur appears below.

TBP	Oct. 16 Eligible Meeting
	Oct. 26 Smoker
	Oct. 27 Elections
HKN	Oct. 15 Eligible Meeting
	Oct. 19 Smoker
	Oct. 20 Elections
Chi Ep.	Oct. 17 Eligible Meeting
	Oct. 19 Smoker
	Oct. 21 Elections
Pi Tau	Oct. 13 Eligible Meeting
	Oct. 19 Smoker
	Oct. 21 Elections

one's interests and ambitions. Now, during the college years, is the proper time to alter and remake plans for the future.

## To the Editor:

City College is known as a progressive institution of learning. Discrimination and bigotry have no place on our campus. Native and foreign-born, colored and white students sit side by side with one common aim, to become more qualified human beings. Likewise, we have a Day and Evening Session with the same curricula and the same degree requirements. But there, between Day and Evening Session, discrimination is still rampant. I do not mean to say that the college administration or the faculty use different yardsticks, but an important part of the student body does, the engineering honor societies.

The only evening students to be found in Tau Beta Pi, Pi Tau Sigma or Eta Kappa Nu are people who studied in the day at some time and became members then. Not that the constitutions of these societies bar evening students from membership! No, it is the present members, Day Session students, who do not want to bother admitting evening students. They do not deny that there are evening students who could meet their standards, but they claim that practical difficulties prevent their admission.

One requirement for membership is high scholastic standing. This is determined by volunteers from the ranks of the honor societies, who go through the school's records to find the names of the high-ranking students. It is true that inclusion of the evening students' records would greatly increase this job. But the honor societies have made no attempt to secure help from the college administration or from evening student volunteers.

Another criterion for membership is personality, and the present members of the honor societies point out that they do not know the evening students. It should not take too much time to invite potential candidates to an interview and get to know them there. Besides, there are members of the faculty known to the day students, who could be questioned about certain members of the Evening Session.

With their present practice, the engineering honor societies deprive evening students of honors which are highly valued in professional circles. They would particularly benefit by admitting evening students because the upper classes, from where their membership would be drawn, include students who hold technological jobs, and getting acquainted with the world of technology is one of the major aims of the engineering honor societies.

R. H. Heimann, ME'57  
Evening Session

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## TECH

## VIGNETTES

BY TOM NUGENT, JR. EE '57

The City College can boast of one of the finest Electronic and Communication Laboratories in the country and this is due in no small measure to the diligent efforts of Nat Tillman, the genial technician. Committed to his care is several hundred thousand dollars worth of equipment, which is the very backbone of the Electrical Engineering Department.

Born and bred in sunny Florida, Nat entered the Army early in World War II. It was there that he received his formal electronic training in the Signal Corp School at Fort Monmouth, N.J. He attended classes at the Air Warning School at Langley Field, Texas, and served three years overseas in Africa. At this time there was a dire need of specialists in the Army and those qualified received rapid advancement. However Nat's elevation to the rank of M/Sgt. within eleven months time is an accomplishment rarely duplicated.

Nat took up his present duties at the College in 1950 and is genuinely happy with his surroundings and his co-workers, the teachers of the EE department. He has nothing but high praise for most of the EE staff. It is his considered opinion that the teachers, the overall engineering curriculum, and the opportunity for learning here at City are unparalleled anywhere in the nation. The only sour note, according to Mr. Tillman, is the appalling condition pre-

NAT TILLMAN



# COMING EVENTS

Chemical? Mechanical? Electrical? Civil? If you are a freshman or sophomore and still undecided as to what field of engineering to make your life's work, you might try dropping in on one of the four tech society meetings held Thursdays at 12:30. These meetings offer an insight into the phase of activity you will be confronted with in a particular engineering field. Some topics to be discussed include sulfur mining, philosophical aspects of engineering, and soil mechanics.

Oct. 11. AICHE has invited Mr. A. J. Nelson, Jr. of the Freeport Sulfur Corp. to discuss new developments in the mining of this element. A film on the subject will also be shown in Room H103.

AIEE-IRE: A lecture concerning "Power Generation and Transmission" will be presented this afternoon by a speaker from Con Edison in Room S306.

PHYSICS SOCIETY: Prof. Harry Soodak, Physics, will lecture today in Room S103. All interested students are invited to attend.

ASME, SAE, and ASTE will be treated to a stimulating talk by Prof. Brown of the Sociology Dept. Prof. Brown, whose major field is industrial sociology, will show how various changes in technology affect our present day society. The proceedings begin at 12:30 in Room H017.

ASCE will present Mr. R. Getshowitz, who represents a well known consulting engineering firm. His topic, "Soil Mechanics", discusses the soil problems associated with water-way structures in Rm. G107.

Oct. 17. SAME: A film showing business activities of the army will be shown in Drill Hall at 5 P.M.

Oct. 18. ASCE: Two films entitled "Foundations and Concrets" and "Municipal Sewerage Treatment Process" will be shown in Room G107.

AIEE-IRE: Mr. Herbert Winter from Bell Aircraft will talk on "Inertial Navigation" in Room S305.

AICHE: The Shell Oil Co. will present two films on the manufacturing of crude oil and products derived from it.

ASME-SAE-ASTE: Prof. Wilford Stork of the Drafting Dept. promises to give a lecture of interest and value to both students and faculty.

Oct. 24. SAME: A spokesman from the New York State Thruway authority will talk about construction of the Tappan Bridge. Drill Hall, 5 P.M.

The Leadership Development Program will present the "Toastmaster's Club" in Rm. 217 Finley at 5:45 P.M. on October 18. A Speech Department faculty member will give tips on how to present an informal speech. Each student present will give a two minute impromptu speech and will be criticized by the students and the faculty member. Points

and will be criticized by the students and the faculty member. Points to be discussed in speech making include poise, topic of informal speech (after dinner speech) and manner of presentation.

valent in our high school system. He attributes the high attrition rate in engineering, not to the excessive demands of colleges, but to the lack of a solid scholastic foundation which should be present when a student enters college.

Nat's extracurricular activities center mainly around the Brooklyn Dodgers. There is no man more faithful to "Dem Bums" than our own Nat. When the Dodgers are in town he commutes regularly from his home in New York to dear old Flatbush.

## SCRUTINIZES...

(cont. from page 1)

undergraduate student assistants be hired to help instructors with routine chores, and that more of the faculty be encouraged to participate in research projects or to do consulting work. It is also their considered judgment that the present policy of electing department chairmen be reexamined. "The opportunity for creative leadership under the present system appears to be seriously limited.

Prof. Froehlich, chairman of the Electrical Engineering Department, asserted that the election of the chairman of a department by his colleagues puts him under a certain unavoidable obligation toward them.

To remedy the high degree of faculty inbreeding, with "...consequential insularity of viewpoint and satisfaction with existing customs", the evaluators proposed that a stronger effort be made to obtain instructors from outside the New York area. Although the salary scale at City compares favorably with other colleges, this problem is compounded by the fact that competent teachers from rural regions are reluctant to take root in a large urban center.

The appraisal of the engineering curriculum by the committee can best be summarized by the following quotation: "The curriculum is a solid one in subject content and in presentation—certainly well above the acceptable minimum." The import of the statement is all the more impressive when one realizes this evaluation was made before the changes in the curriculum were put into effect.

However, one possible deficiency was noted by the MSA. The visiting committee, although praising the content of the liberal arts courses now given by the college, proposed that the social studies and humanities sequence be extended from six to nine credits. To make the liberal arts curriculum more effective the evaluators recommended that, instead of completing the sequence in two years, these courses be spread out over the whole of the undergraduate program.

The committee admitted that the engineering students are of high calibre, but nonetheless they are appalled by the high rate of attrition (50% in the first year alone!). They wondered if the quality of the student body could be elevated without this intense screening.

Here in more detail is the M.S.A.'s evaluation of each department.

### Ch. E.

The staff consists of nine full time instructors, six with Ph.D.'s. The committee complimented the department for its up to-date library facilities, which it found contained most of the volumes recommended by the Chemical Engineering Education Projects Committee.

### C. E.

The evaluators had high praise for the new curriculum, calling it first rate. "The reduction from 16 credits to 10 credits of surveying is a big improvement," they said.

### E. E.

With only 15,000 ft. sq. of space available, the department has to accommodate 1650 students. However, the educators were pleased with the excellent way in which the laboratories are run. "Attention should also be called to the excellent quality of the electronics and communications equipment."

### M. E.

The committee criticized the low state of outside professional activity of the faculty members. The reviewers however, were pleased with the instructional program, which they called, "well organized and handled."

## ASTRONOMERS MEET

The Astronomical Society will meet today in Rm. 124 at 12:30. From there the members will proceed to the observatory. Techmen interested in microwave optics and its application to radio astronomy are particularly welcome.

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## STARTING PAY SPIRALS UPWARD

BY JERRY OPPENHEIM, EE '57

After four and a half years of study, with only his slide rule and an occasional definite integral as his friend, this year's engineering graduate will find a gratifying reward as far as the employment outlook goes. He will find companies competing for his services; this, of course, results in high starting salaries and attractive fringe benefits. Financial aid for graduate study and planned socials program are being offered to the graduating engineer. Although starting wages are high, the salaries tend to reach a plateau and stay there after a few years.

The following is information as to monthly salary acceptances for the June and August '57 class.

Degr.	No. of grads	Monthly Salary	Range of Mid 50%
Arts	22	\$306	\$260 - 333
ChE	51	409	400 - 425
CE	54	386	373 - 410
EE	135	426	410 - 450
ME	76	429	410 - 450
Chem	41	325	260 - 375
Ma&Ph	17	408	394 - 425

\* mid 50% range is highest salary in second 1/4 of class and lowest in third 1/4.

The average monthly salary for the June and August class was \$424, \$16 higher than the average for the January class.

There is a tremendous range of opportunities available to the graduating engineer. It is important for each man to try and fully utilize his potential by not letting his decision as to what company to pick be based on geographical position or a few dollars in starting pay, but by a careful investigation of all the factors. As never before, the future is unlimited.

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EE '57

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# AUTOMATION: FRIEND OR FOE

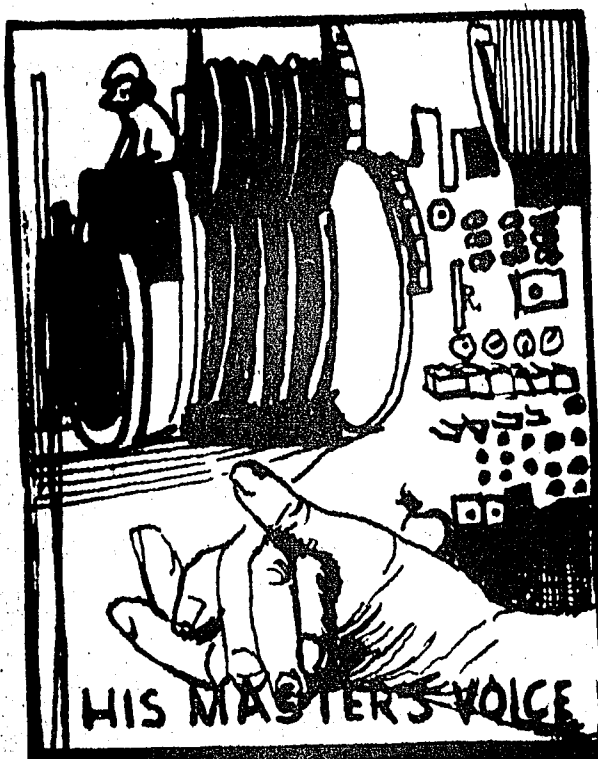
Many people like to think that automation is something that began to manifest itself only recently. This is entirely incorrect. In the past decade, there has sprung up a certain consciousness about the pattern of scientific and technological advances and a realization of the direction in which it is leading us. However, complete automation, or "continuous automatic production", is the ultimate in an evolutionary process, and is inherent in technological progress as far as attempting to utilize the energies and resources of nature for the benefit of mankind. Any evolutionary pattern has certain times of drastic and palpable change as compared to gradual and almost infinitesimal variation over a long period of time. In the light of this, it's no wonder why in recent times there has been this automatic consciousness.

The first question that occurs in our minds is whether automation is something good or something evil. If the second is true, then we have been living with this evil since the first industrial revolution, for the only difference between automation and production in the past is that the human operator has had to complete the loop. Thus the human being had to assume the position of a machine, which either didn't exist yet or if it did exist was not profitable to install. The work required of this human machine ranged from the most trivial physical manipulation to varying degrees of judgment and intelligence.

In the past, many machines were invented to replace human beings in the performances of various grueling and most hum-drum manual operation; but there are still a vast number whose nature is such that the machinery necessary would be quite complex. It's in recent years that an enormous scientific effort has been made to create the more complex machinery and also machinery capable of degrees of "intelligence and judgment". The

motivation for this vast effort was not the mere desire to replace man by electro-mechanical analogues but by a definite need arising from several compelling sources;

1. An envisioned shortage of labor, if we are to raise or even keep up the present standard of living in the future.
2. The inadequacy of the human being to perform certain exacting and regulatory and control functions created by new industries and new products developed by research.
3. To accelerate basic scientific investigations, as their complexity is reaching new heights for the limited capacity



of the human mind to cope with in the available time.

According to reliable estimates, the U.S. will need 40% more goods and services by 1965 with an increase of only 14% in the available labor force. It's very unrealistic and highly ludicrous to assume that people will work harder and longer. Furthermore, even simple mechanization will not be adequate to cope with this economic dilemma. The only solution is an accelerated drive toward more and more automation. If there is a greater increase in labor in the 1970's, it's felt that there may be a trend toward a shorter work week. Mr. Ralph J. Cordiner, president of General Electric,

in a report before the Subcommittee of an Economic Stabilization made the following illuminating statement: "American industry has a challenging opportunity to increase its productivity, reduce the cost of goods, and increase the real wealth and purchasing power of all Americans by using every feasible application of the automation concept all along the line from factory to customer. We will at the same time be taking the danger and dullness and drudgery out of industry, and giving people more satisfying work to do, at higher pay for higher skills."

It's well known that industries such as petroleum, electric power, chemical, automotive, the national defense industries and the recent developments in the manufacture of electronic circuits, would never have reached their present stage if it were not for the introduction of machinery able to perform the vital functions which either can not be done by man or would be as inefficient as trying to make a steel knife blade with a stone hammer. The principles of automation, feed back, transducers, and the giant digital computer, will most probably be recorded in the history of this age as some of the greatest contributions to industry and the most inspiring influences of technology.

At this point, it's only just to mention something regarding the digital computer and its profound influence on automation and science in general. Not only does the computer serve as a link in the automation system, but it also produces more automation and facilitates basic sci-

(cont. on page 7)

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## AWARDS OFFERED

The David B. Steinman Awards were established in the Spring of 1955 to provide financial aid to needy and deserving students in the School of Technology. To date, eleven grants have been made, ranging from 200 to 500 dollars.

The awards were established by Dr. David B. Steinman, with a grant of \$10,000. Dr. Steinman,

a famous bridge engineer, is an alumnus and a former faculty member. He believes these awards are necessary, as he himself felt that he would not have completed his education without financial aid.

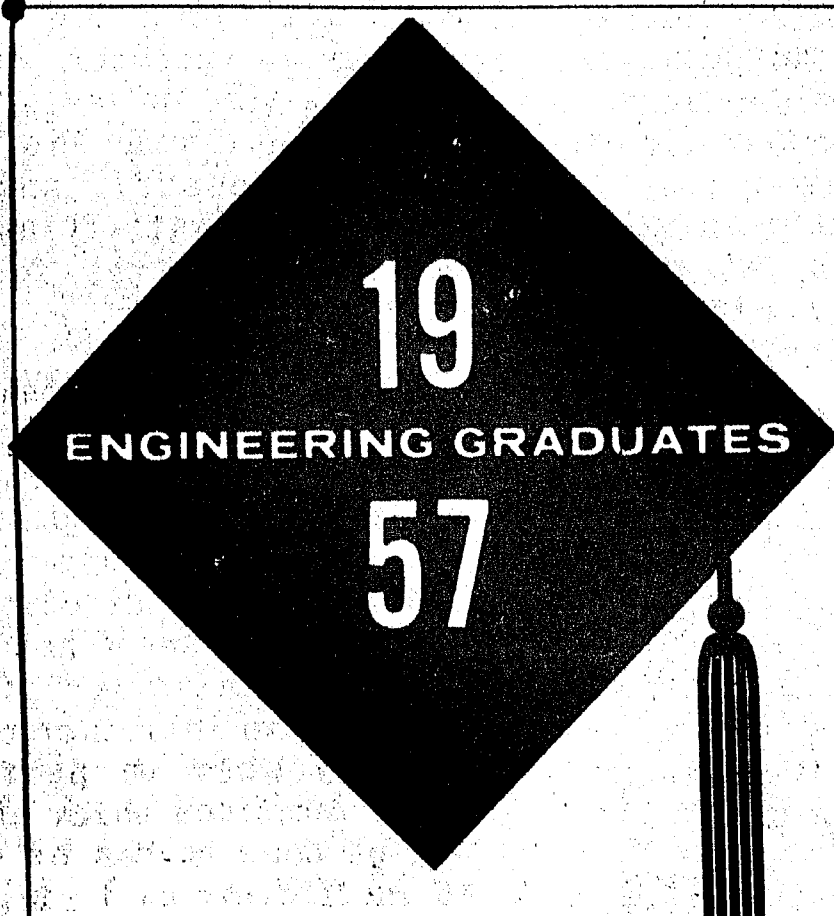
Grants are made to undergraduates who need financial assistance to complete their studies and to graduating seniors who plan to pursue full time graduate work in engineering.

The recipients of the grant are expected to replenish the

fund so as to make it possible for future students to be assisted. The grants should be considered as non-interest bearing loans and voluntary debts of honor. Deserving students will be selected on the basis of character, scholarship, range of knowledge and interests, well rounded performances, and leadership potentiality.

Forms and information may be secured from Prof. Rappolt, Room 201 Goethals Hall.

Arthur Zussman, EE' 57



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## AUTOMATION...

(cont. from page 5)

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ic complexity. To quote Mr. Cor-  
ner again, "The computer, ex-  
tending man's mental capacities  
beyond anything we can imagine,  
will create fantastic increases  
in human knowledge, and thus  
vastly increase the number of  
things we can make and enjoy.  
...it may well be that the com-  
puter-derived technologies will  
be a major source of new employ-  
ment in the 1960's and 1970's,  
and they will keep us perpetual-  
ly short of manpower."

Undoubtedly a number of social  
adjustments will be necessary  
throughout the various stages of  
automation; this is to be ex-  
pected. But as this is a gradual  
development, they will not be  
felt at a particular time. By no  
means should this be of interest  
to the socialist only, but to  
the engineer and scientist as  
well. The engineer can no longer  
restrict himself to the domain  
of creating the means for automa-  
tion, but must also understand  
the powerful forces that he is  
creating and how to control them.  
It is absurd to see automation  
as a factory where one man, by  
pushing buttons, is able to do  
all of the operations to produce  
any article. This is modern  
childish fantasy, or in more  
popular terms - science fiction.

A. N.

## TUTORS NEEDED

The Sigma Alpha Tutorial Ser-  
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angle entrance. Application  
forms will be available at both  
these locations.

## NEW JOB LISTINGS

### SUPPLEMENTARY LIST OF INDUSTRIAL COMPANIES VISITING CAMPUS

CODE: C-CHEMISTRY, P-PHYSICS, M-MATH. OTHERS AS DESIGNATED.  
LOCATION IS NOTED BY STATES.

DATE	COMPANY	LOCATION	DEGREE
Oct. 17	Curtiss-Wright Research Div.	N.J., Pa.	EE, ME, ChE, M, P.
Oct. 22	Federal Tel. and Radio	N.J.	EE, ME, Sol. St. P
Oct. 23	Dept. of Interior	Colorado	CE, EE, ME, ChE
Oct. 24	Curtiss-Wright Electronics	N.J.	EE, ME, M, P
Oct. 29, 30	N.Y. Naval Shipyard	Brooklyn, N.Y.	CE, EE, ME, P
Oct. 29, 30	N.Y. Telephone Co.	N.Y.	ME, CE, EE
Oct. 29, 30	Western Electric Co.	N.Y. & N.J.	EE, ME, M, P
Oct. 29, 30	Bell Telephone Labs.	N.Y. & N.J.	EE, ME, M, P top ½
Oct. 30	N.J. State Highway Dept.	N.J.	CE
Oct. 31	Raytheon	Waltham, Mass.	EE, ME, P
Oct. 31	Pratt & Whitney	Hartford, Conn.	EE, ME, ChE, M, P
Oct. 31	California Oil Co.	Perth Amboy, N.J.	ME, ChE
Nov. 2	Curtiss-Wright Prop. Div.	N.J.	EE, ME, P
Nov. 2	Columbia U Electronics Lab	NYC	EE, P
Nov. 2	Armour Research Foundation	Chicago, Ill.	P, C, EE, ME, ChE
Nov. 2	Emerson Research Labs	Wash., D.C.	EE, ME, P
Nov. 5	Sylvania Electric Products	Varied	C, M, P, EE, ME, ChE
Nov. 5	Interchemical Corp.	NYC	C
Nov. 5	California Tech-Jet Lab	Pasadena, Cal.	EE, P, M
Nov. 7	Philco Corp.	Phila, Pa.	EE, ME, ChE, M, P
Nov. 7	Atlantic Refining Co	Phila, Pa.	ChE, C
Nov. 7	Filtron Company	Flushing, L.I.	EE, P
Nov. 7	Convair General Dynamics	Pomona, Cal.	CE, EE, ME, ChE, P
Nov. 9	Curtiss-Wright Turbo. Div.	N.J.	EE, ME, M, CE, ChE
Nov. 9	U.S. Patent Office	Wash., D.C.	ChE, M, P, CE, EE, ME
Nov. 9	Shawinigan Resins Corp.	Springfield, Mass.	C, EE, ME, ChE
Nov. 9	AVCO-Lycoming Div.	Stratford, Conn.	CE, ME
Nov. 13	Ohio State Dept. of H'ways	Columbus, Ohio	CE
Nov. 13	United Aircraft Corp.	Hartford, Conn.	EE, ME, ChE
Nov. 13, 14	Westinghouse	Pitts et al	EE, ME, M, ChE, C, P
Nov. 14	Bureau of Standards	Wash., D.C.	EE, ME, C, M, P
Nov. 14	Naval Air Div. & Mat Ctr.	Johnsville, Phila	EE, ME, ChE, P
Nov. 16	Federal Telecom Labs	Nutley, N.J.	EE, P
Nov. 16	Bendix Eclipse Pioneer	Teterboro, N.J.	EE, ME
Nov. 16	Army Ballistic Missile	Huntsville, Ala.	C, M, P, CE, EE, ME, ChE
Nov. 19	Jeffrey Mfg. Co.	Ohio	CE, EE, ME
Nov. 19, 20	Bell Aircraft Corp.	Buffalo, N.Y.	EE, ME, M, P
Nov. 26	Aberdeen Proving Grounds	Maryland	EE, ME, ChE, M, P
Nov. 27	Metal & Thermit Corp.	Rahway, N.J.	C, ME, ChE
Nov. 27	Phila Naval Shipyard	Pa	CE, EE, ME
Dec. 4, 5	Northrop Aircraft Inc.	Hawthorne, Cal.	M, P, CE, EE, ME
Dec. 7	David Taylor Model Basin	Wash., D.C.	E, M, P, CE, EE, ME, ChE

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# TECH SPORTS

## SPORTRAIT



Co-CAPTAIN ROBERT LEMISTRE  
BEAVER BACKFIELD STAR

It has often been said that you cannot beat a man at his own game. This is certainly true of Robert Lemistre, EE' 57, and the game in question is Soccer. Born in Gourin, Morbihan, France, the 21-year old senior has been playing this traditionally European game since childhood. The end of last year's soccer season saw Robert reach the zenith of his long and brilliant playing career when he was selected to captain this year's team. This is no small honor as the team is expected to be the Metropolitan Conference champion for the third year in a row.

Living in his native land throughout World War II, Robert experienced the tragedies and hardships of war. He was separated from his parents and did not see them until 1946 when he joined them in this country.

There will be a sigh of relief from opposing linemen when Robert hangs up his cleats in Jan. 1957 to devote his time to becoming as successful an engineer as he is a soccer player. In addition to his busy academic schedule and constant practice, Robert found time to hold down a part time job throughout college.

T.N.

## HOOPSTERS ROLL

The basketballs are again swishing through the nets as another season of TIIC-sponsored basketball competition gets under way.

For the past two seasons, the basketball teams representing ASCE have dominated the play, however, this term may be a different story. Four of the five starters from last terms victorious team have graduated, and a rebuilding job will be necessary. It is hoped, by C.E. enthusiasts, that big George Jensen, of varsity fame, will be able to help fill the shoes of these players.

Help is needed on the basketball court not only by ASCE but by all of the engineering societies. Anyone interested in basketball should get in touch with his society athletic chairman and express his willingness to play. An exceptional amount of basketball talent and experience is not at all necessary.

The games are played Thursday nights from 6:30 to 9:00. Look for the schedule of games on the TIIC bulletin board at the Tech Cross-Roads.

### SOCCER SCHEDULE

Date	Opponent	Place
Oct. 13	Queens	Away
Oct. 20	L.I. Aggies	Home
Oct. 24	Army	Away
Oct. 27	Brooklyn	Away
Nov. 3	Adelphi	Away
Nov. 10	Kings Pt.	Home
Nov. 13	Hunter	Away
Nov. 17	Pratt	Away

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## SURVEY...

(cont. from page 1)

### STARTING SALARIES ON THE RISE

Records of monthly salaries for graduates with little or no experience rose sharply in recent years. The mean starting salaries were:

1953	\$335
1954	\$351
1955	\$381
1956	\$408

Starting salaries for civil service positions were:

1953	\$285
1954	\$285
1955	\$359

Included in the questionnaires was the question, "What factors do you feel are most important in determining promotion and salary increases?" Mentioned most frequently was the ability to get along with others, social acceptability, technical proficiency and knowledge, enthusiasm, interest and attitude, and ability to handle added responsibility and leadership.

Of the 254 graduates surveyed: 34 were in the petroleum industry, 34 in industrial chemicals, 23 in plastics and 17 in nuclear energy. Only 8 were in education.

### "CLINIC" CREATED

In an effort to lower the high percentage of failures in both the required and elective physics courses, the Physics Society is starting a physics "clinic".

The idea of the "clinic" is for small groups of students to meet with qualified members of the society to discuss problems and to answer questions. These sessions should not be looked upon as a substitute for a private tutor, if that is necessary.

For further information, contact Harry Gelman, president of the society.

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